

API #				Well Name	
Q37 - 20146				"West Pico" 12	
Task	Date	Initial	no. of pgs. / logs		Notes
Prepped Data file	4-28-15	RP	70		9(b-g)+6, 22A, 23A
Scanned Data file	4/28/15	RP	70+		19=89 DS+11
QC/ Upload / Verify	5/1/15	mac	89		
Scanned Log/s	4-28-15	RP	TIFS	PDFS	
QC/ Upload / Verify	5/1/15	mac	4/6		
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/ Upload / Verify					
Scanned Log/s			TIFS	PDFS	
QC/ Upload / Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/ Upload / Verify					
Scanned Log/s			TIFS	PDFS	
QC/ Upload / Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/ Upload / Verify					
Scanned Log/s			TIFS	PDFS	
QC/ Upload / Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/ Upload / Verify					
Scanned Log/s			TIFS	PDFS	
QC/ Upload / Verify					

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company: Pacific Coast Energy Company	Well: West Pico 12
API#: 037-20146	Sec. 30 , T. 1S , R. 14W . S. B. B. & M.
County: Los Angeles	Field: Beverly Hills

RECORDS RECEIVED	DATE	STATUS
Well Summary (Form OG100)	9/15/2014	Active <input checked="" type="checkbox"/> Drilling <input type="checkbox"/>
History (Form OG103)	9/15/2014	Abandoned <input type="checkbox"/> Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned <input type="checkbox"/> Other <input type="checkbox"/>
Directional Survey		
Sidewall Samples		
Date final records received.		
Electric Logs: <i>CBL</i>	<i>1/24/2014</i>	
Other:		
		WELL TYPE
		Oil <input checked="" type="checkbox"/> Waterflood <input type="checkbox"/>
		Gas <input type="checkbox"/> Water Disposal <input type="checkbox"/>
		Water Source <input type="checkbox"/> Cyclic Steam <input type="checkbox"/>
		Observation <input type="checkbox"/> Steam Flood <input type="checkbox"/>
		Exploratory <input type="checkbox"/> Fire Flood <input type="checkbox"/>
		Dry Hole <input type="checkbox"/> Other <input type="checkbox"/>
		EFFECTIVE DATE: <i>2/5/2014</i>
		REMARKS:

ENGINEERS CHECK LIST	CLERICAL CHECK LIST
<input checked="" type="checkbox"/> Summary, History & Core Record (Dupl.)	Location change
<input checked="" type="checkbox"/> Electric Log	Elevation change
<input checked="" type="checkbox"/> Operator's Name	Form OGD121
<input checked="" type="checkbox"/> Signature	Form OGD150b (Release of Bond)
<input checked="" type="checkbox"/> Well Designation	Duplicate logs to archives
<input checked="" type="checkbox"/> Location	Notice of Records Due
<input checked="" type="checkbox"/> Elevation	EDP <i>2-19-15 vm</i>
<input type="checkbox"/> Notices	District Date Base <i>2-19-15 vm</i>
<input type="checkbox"/> "T" Reports	Final Letter (OG159)
<input type="checkbox"/> Casing Record	Update Center
<input type="checkbox"/> Plugs	
<input type="checkbox"/> Directional Survey	
<input checked="" type="checkbox"/> Production/Injection (FAP Codes: <i>054 63 00</i>)	
<input type="checkbox"/> E Well on Prod., enter EDP	
<input type="checkbox"/> Surface Inspection Required	FIELD CHECK LIST
<input type="checkbox"/> Surface inspection Waived (Island)	Date Surface Inspection Completed:
<input type="checkbox"/> Well site restoration deferred (common cellar)	Other:
<input type="checkbox"/> Final Letter Required AB: <input type="checkbox"/> REAB: <input type="checkbox"/>	
<input type="checkbox"/> Other:	

RECORDS NOT APPROVED	RECORDS APPROVED <i>2/2/15 [Signature]</i>
(Reason:)	(Signature)
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

DOGGR
Received-

SEP 15 2014

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

WELL SUMMARY REPORT

API No. 037-20146

Operator Pacific Coast Energy Company LP		Well Wesp Pico 12 Rd1				
Field (and Area, if applicable) Beverly Hills		County Los Angeles	Sec. 30	T. 01S	R. 14W	B.&M. SB
Location of well (Give surface location from property or section corner, street center line) West Pico Drill Site 9151 W. Pico Blvd, Los Angeles, CA					Elevation of ground above sea level: 171 feet	
Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Lat: 34.0555406 Long: -118.3895882						

Was the well directionally drilled? Yes No If yes, show coordinates (from surface location) and true vertical depth at total depth. TVD = **7805.4 EW Offset = 3650.17' NS Offset = 1082.9'**

Commenced drilling (date) 1/21/2014	(1st hole) 9250'	Total depth (2nd)	(3rd)	Depth measurements taken from top of: <input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing	
Completed drilling (date) 2/5/2014				Which is 171 feet above ground.	
Commenced production/injection (date) 2/5/2014	Present effective depth 8161'			GEOLOGICAL MARKERS	
Production mode: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift	Junk? Describe: 20 joints (592') of 2 3/8" tubing Damaged Model 'D' Packer @8171' Seal Nipple in packer @8166'			DEPTH 6115' MD 7512' MD 8515' MD	
Name of production/injection zone(s) Repetto and Hauser Formations				Formation and age at total depth Ogden - Mohnian, Miocene	Base of fresh water <845'

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production						
Production After 30 days	56	25.5	75%	91	50	55

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (Inches API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
20"	Surface	65'		Conductor	New	24"			Surface
13 3/8"	Surface	1224'	48#	H-40	New	17.5"	700 sacks	1224'	Surface
8 5/8"	Surface	7512'	36#	J-55 & N-80	New	12.25"	700 sacks	7511	6150'
6 5/8"	7470'	9232'	28#	J-55	New	7 5/8"	125 sacks	8340'	7980'

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)
60M, 24R, 2", 6#C slots 8461'-9232'
4 hpf: **7512'-7590', 7630'-7692', 7726'-7746', 7788'-7798', 7806'-7820', 7826'-7860', 7866'-7876', 7884'-7916', 7925'-7960', 7980'-8110', 8120'-8140', 8154'-8164'.** On 1/28/2014 jet perf'd 4 hpf: **6460'-6466', 6400'-6410', 6310'-6342' (Repetto)**

Logs/surveys run? Yes No If yes, list type(s) and depth(s).
CCL, GR from 5000'-7400' to correlate for perforating

Well Mechanical attached
In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name of person filing report Frank Smith	Telephone Number 805-937-3250	Signature <i>Frank w. Smith</i>	Date 9/9/2014
Address 1555 Orcutt Hill Rd.		City/State Orcutt, CA	Zip Code 93455
Individual to contact for technical questions: Frank Smith	Telephone Number 805-937-3250	E-Mail Address: frank.smith@breitburn.com	

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WP12RD1 Wellbore Diagram

API No. 040372014601
 Spud Date: 5/23/1967
 Redrill Date: 9/12/1968
 Sec.30, Twn 1S, Rge 14W

KB = 12.5'
 Elevation = 171'
 TD = 9250'

Current Condition
 12/27/2013
Hydraulic Rod Pump
 HRPI Unit: Mod-11 Paired with well: WP-13
 SPM = 1.7
 4" 336 cylinder

MD	Incl.
0	
100	0.1
200	0.2
300	0.3
400	0.4
500	0.3
600	0.3
700	0.4
800	1.1
900	4.6
1000	8.8
1100	12.8
1200	14.2
1300	17.0
1400	20.2
1500	22.8
1600	26.0
1700	29.2
1800	32.2
1900	35.6
2000	38.9
2100	42.7
2200	45.8
2300	50.5
2400	51.8
2500	51.8
2600	51.4
2700	51.4
2800	51.7
2900	52.3
3000	52.6
3100	51.8
3200	52.2
3300	51.5
3400	51.9
3500	52.3
3600	52.3
3700	51.6
3800	45.3
3900	47.6
4000	52.8
4100	54.6
4200	54.5
4300	53.9
4400	53.7
4500	52.5
4600	51.6
4700	50.8
4800	48.1
4900	46.4
5000	45.1
5100	43.5
5200	42.8
5300	41.0
5400	39.0
5500	36.8
5600	33.8
5700	30.5
5800	27.0
5900	25.0
6000	21.0
6100	19.5
6200	17.0
6300	15.0
6400	13.0
6500	12.0
6600	11.0
6700	10.0
6800	9.0
6900	8.0
7000	7.0
7100	6.0
7200	5.0
7300	5.0
7400	4.0
7500	3.5
7600	4.0
7700	6.0
7800	6.0
7900	8.8
8000	11.0
8100	13.0
8200	15.5
8300	16.5
8400	16.8
8500	15.3
8600	14.0
8700	12.7
8800	10.8
8900	11.3
9000	8.3
9100	6.0
9200	5.3
9300	2.8

Tubing Detail:

MD	Depth	Length	Joints	Descr.
2100	12.5'	12.5'		42.7 KB
2200	39.55'	39.55'		45.8 Casing Shuck
2300	784.35'	784.35'	25	50.5 2 7/8" 8RD
2400	840.5'	4.1'		51.8 Flag Sub 8rd
2500	2425.39'	1584.89'	49	51.8 2 7/8" Boronize
2600	2418.54'	4.15'		51.4 Flag Sub 8rd
2700	3609.12'	1179.58'	38	51.4 2 7/8" N80 8rd
2800	3613.42'	4.3'		51.7 Flag Sub 8rd
2900	3969.73'	356.31'	11	52.3 2 7/8" boronizec
3000	3973.88'	4.15'		52.6 Flag Sub 8rd
3100	7353.16'	2279.28'	108	51.8 2 7/8" N80 8rd
3200	7392.16'	39'		52.2 THE Pump
3300	7394.46'	2.3'		51.5 Perf Nipple
3400	7456.96'	62.5'	2	51.9 Gas Anchor
3500				52.3 Pump Intake @7394'
3600				52.3 Tbg Tail @7456'

Rod Detail:

MD	Depth	Amount	Size	Grade	Guides	Non-guided
4100	54.6'	80	1"		x	
4200	54.5'	98	7/8"		x	
4300	53.9'	59	3/4"		x	
4400	53.7'	26K	Shear Pin			
4500	52.5'	12	K-bars			

Top Repetto @6115' MD

1/28/2014: Repetto perforations:
 6310'-6342', 6400'-6410', 6460'-6466'

Pump (2.5" x 2.25" x 60" x 39" TWE) Depth = 7394'

WSO: 4 Holes squeezed off @7394'
 6 5/8"x8 5/8" Burns Liner Hanger @7470'

Top of Hauser @7512' MD

4.0 6 5/8" Liner 28# J-55 7470'-9232'
 6.0 7 5/8" Hole Directionally drilled 7512'-9250', cmt w/125sx+75cf POZ
 4 holes squeezed @7780' no breakdown
 Perforations: 7512' - 9250' (Intervals)

Top of Ogden @8515' MD

Inactive Slots: 8462'-9232' (Intervals)
 Blocked off w/sealing plug in packer

Total Depth = 9250' MD

4" 336 Hydraulic Cylinder
 20" Conductor Cmt'd @65'

13 3/8" 48# H-40 17.5" 0' - 1224'
 17.5" Hole cmt'd w/700 sx

2 7/8" Tubing

8 5/8" 36# J-55 & N-80 0' - 7512'
 Hole 12.25" cmt'd w/700 sx

TOC @ 6150' by CBL run 6/17/1967

HISTORY:

- 5/23/1967: Original hole spudded
- 6/30/1967: Drilling completed
 TD = 8200'
 Completed in "Main Zone" what we call "Hauser"
 IP after 30-days = 1049 bopd of 28.5API
 OH plugged back to 7513'
- 9/12/1968: RD1 spud date, drilled from 7522' to 9250'
- 10/1968" Lot of work to get good cement job 7480' to 8400'
 Completed as a gas-lift dual string producer
 Long string = Ogden
 Short string = Hauser
 Well history of wax & difficulty pulling dual strings
- 4/8/1969: No attempt to retrieve fish (Packer & 20 jts of 2 3/8" tbg because of time spent on previous problems
- 1/2014: Well produces via HRP (3 bopd + 195 bwpd)
- 1/28/2014: Repetto perforated
- 1/30/2014: Acid job done
- 2/3/2014: Ran boronized tubing



- 9/12/1968: RD1 spud date, drilled from 7522' to 9250'
 OH plugged back to 7513'
 Cement drilled out from 7513' to 7522'
- 10/8/1968: Sqzd away 73CF cmt TOC by CBL 7980'-8340'
- 5/19/1976: Latch-in seal assembly in Perma-trieve pkr @8161'
- 4/11/1969: OTIS Perma-trieve Packer @8161-8166'
- 4/12/1969" seal nipple in packer @8166'
- 4/8/1969 Junk: Damaged Baker Model "D" Packer @8171'
 run on wire line 3/6/1969
- 20 jts(592')of 2 3/8" Tbg 4.6# J-55 Security flush jt below Model "D" Pkr
 this tubing was the "Lower" completion interval of a dual completion

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NATURAL RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
HISTORY OF OIL OR GAS WELL

DOGGR
 Received-
MAR 18 2014

Operator Pacific Coast Energy Company LP Field Beverly Hills (East) County Santa Barbara
 Well West Pico 12 RD-1 Sec. 30 T. 01S R. 14W S.B. B.&M.
 A.P.I. No. 037-20146 Name Frank Smith Title Agent
(Person submitting report) (President, Secretary, or Agent)
 Date 01/09/2014
(Month, day, year)
 Signature Frank Smith for Tom McCollum (Agent) *Frank Smith*
 Address 1555 Orcutt Hill Rd., Orcutt Ca., 93455 Telephone Number (805) 937-2576

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Pre-Work Condition:

KB: 12.5' - Elev: 171' - TD: 9,250' MD
 20" Conductor
 13-3/8" 48# H-40
 8-5/8" 36# J-55 & N-80
 6-5/8" 28# J-55 Liner
 Perforations: 4 JHPF 7,512' - 7,980' MD
 Ineffective Perforations: 7,980' - 8,340' MD
 Otis Perma-Trieve Packer 8,161' MD
 Fish: (Model "D" Packer) 8,171' MD
 20 Jnts, 2-3/8" Tbg 8,640' - 9,232' MD

C. 65' MD
 C. 1,224' MD
 C. 7,512' MD
 H. $\frac{1}{2}$ 7,470'
 b/ 9,232' MD
 Intervals
 Squeezed

Post-Work Condition:

KB: 12.5' - Elev: 171' - TD: 9,250' MD
 20" Conductor C. 65' MD
 13-3/8" 48# H-40 C. 1,224' MD
 8-5/8" 36# J-55 & N-80 C. 7,512' MD
 Perforations: 4 JHPF 6,310' - 6,342', 6,400' - 6,410',
 6,460' - 6,466' MD
 6-5/8" 28# J-55 Liner H. $\frac{1}{2}$ 7,470'
 Perforations: 4 JHPF 7,512' - 7,980' MD
 Ineffective Perforations: 7,980' - 8,340' MD
 Otis Perma-Trieve Packer 8,161' MD
 Fish: (Model "D" Packer) 8,171' MD
 20 Jnts, 2-3/8" Tbg 8,640' - 9,232' MD
 Intervals
 Squeezed

Date **HISTORY Add Perfs and Wash** - NOTE: Use a KB of 12.5' with an elevation of 121'

- 01/21/2014 Moved rig from WP 21 to WP 12 RD-1. Spot in and R/u. Removed beams extension. Nipple up rod riser. Secure rig.
 - 01/22/2014 Bled off well. Pull rod string out of the hole. All rods look ok. R/d rod riser. **N/u BOPE and function test to 1500 psi - OK. Notify DOGGR to witness test. DOGGR representative Nimal Diunugela waived the BOPE inspection - OK.** Change crews. Serviced rig and equipment. Pulled casing shuck out of the hole. R/u hydro tester and tested all pipe to 5000 psi. L/d 6 joints of tubing - joints 56 through 62 due to excessive rod cut. Found a hole on joint #69. Found fluid at joint #74. The remaining tubing joints all tested OK to 5000 psi. Dropped a bar down the tubing to shear the drain pin on the pump. R/d the hydro tester. Stood back 95 stands of tubing. L/d 7 joints of pipe. Closed BOPE. Secured the well and rig.
 - 01/23/2014 Bled off well. Continued pulling the pump out of the well. L/d and inspected the pump. P/u 8-5/8" csg scraper, bumper sub and a 4' pup joint. RIH to the top of the liner at 7,470' MD. Change crews. POOH w/ 8-5/8" scraper and bumper sub. The rig began to vibrate excessively. Notified the foreman. Called out the mechanic. Found a crack in the horse shoe. Continued POOH. L/d the 8-5/8" scraper and bumper sub. RIH 8 joint kill string. Secured well and rig.
 - 01/24/2014 Bled off well. POOH w/ kill string. Pumped injection water down the casing to run the bond log. Install the flange for the lubricator on top of the hydrill. MIRU Baker Hughes wire line. Set up crane from AC pump and R/u sheave for the wire line. Made a feeler run. POOH. Ran a bond log down to 7,470' MD and logged 3000' up (to 4,470' MD). POOH. R/d wire line and crane. N/d lubricator flange. Change crews. Mechanic made small repairs on the rig. M/u 6-5/8" scraper and bumper sub. RIH w/ tubing detail. Tag at 8,143' MD. Packer noted at 8,161' MD. Pull tubing up to 7,439' MD (liner top at 7,470' MD). Secured well and rig.
- Note: Original DOGGR permit issued by John Huff on 01/02/2014 required squeeze holes in the 8-5/8" casing at 6,100' with cement top to be at 5,950' MD. Following the cement bond log results on 01/24/2014, PCEC contacted Mr. Huff at the Cypress DOGGR office and after discussion, the decision was made that the cement squeeze was not necessary. Mr. Huff followed up with an email on 01/27/2014 reiterating his decision to waive the cement squeeze.*
- 01/25/2014 Bled off well. Continued to POOH w/ 6-5/8" scraper. L/d scraper and bumper sub. Ran 10 stands of pipe in the well as a kill string. Secured well and rig.
 - 01/27/2014 Bled off well. Assisted the mechanic with changing out the drive line on the rig. Wait for instructions to proceed on well work. POOH w/ kill string. Install lubricator flange on top of hydrill in preparation for perforations scheduled 01/28. RIH w/ kill string. Secure well and rig.

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01/28/2014 Bled off well. POOH w/ kill string. R/u wire line. RIH w/ 4-1/2"x30' EHC Perforating guns carrying 4, 1/2" JHPF at 90° phasing. Performed three guns runs perforating the following intervals: 6,460' – 6,466' MD, 6,400' – 6,410' MD and 6,310' – 6,342' MD (Perforated 6,460' – 6,466' and 6,400' – 6,410' MD using one gun with reverse charges and perforated 6,310' – 6,342' MD using two guns; one w/ 20' and the other with the remaining 12'). Noticed casing pressure increase by 10 psi after first gun, 20 psi after the second gun and 25 psi after the final gun run. Changed crews in between the second and third gun run. Bled off to the casing to 5 psi and pumped injection water down the backside to keep the gas down. M/u the 8-5/8" casing scraper and bumper sub. RIH w/ tubing detail (88 stands) to 5,500' MD. Closed BOPE. Secured the well and rig.
NOTE: After each run: pulled the carrier into the lubricator, closed the pipe rams and set casing on vapor recovery.

01/29/2014 Bled off well. Continued to RIH w/ 8-5/8" scraper to 7,470' MD (top of the liner). POOH and L/d 8-5/8" scraper and bumper sub. Change crews. Loaded V-door w/ 6-5/8" opposed cup wash tools, 60' apart. RIH w/ 2-3/8" tbg detail (90 stands) to 5,700' MD. Closed BOPE. Secured well and rig. Hooked up backside to vapor recovery to continue bleeding off well over night.

01/30/2014 Bled off well. Continued to RIH to 7,960' MD. L/d top joint. MIRU MTS Company HSM. Primed and tested equipment - OK. Began well program:

Interval	Fluid Specs	Volume (gallons)	Rate (gpm)		Pressure (psi)	
			Initial	Final	Initial	Final
7,884' - 7,960'	15% H-Cl w/add.	2,680	0.7	2.0	1,150	1,000
	Lease water	1,930				
7,806' - 7,876'	15% H-Cl w/add.	2,320	0.6	2.0	1,200	1,050
	Lease water	1,930				
7,726' - 7,798'	15% H-Cl w/add.	1,600	0.5	2.0	1,260	1,050
	Lease water	1,878				

Change crews. RDMO MTS trucks. POOH w/ 30 stands of tbg to 6,100' MD and closed the pipe rams. Set the casing on vapor recovery to bleed off over night. Loaded up the 8-5/8" cup tools to rig floor. Unloaded and measured 60 joints of 2-7/8" boronized tubing. Prep to continue to w/ 6-5/8" cup wash. Secure well and rig.

01/31/2014 Bled off well. Continue w/ 6-5/8" cup wash tool to fourth station at 7,630' MD. Continued job as follows:

Interval	Fluid Specs	Volume (gallons)	Rate (gpm)		Pressure (psi)	
			Initial	Final	Initial	Final
7,630' - 7,692'	15% H-Cl w/add.	2,480	0.5	2.1	1,150	1,200
	Lease water	1,855				
7,512' - 7,590'	15% H-Cl w/add.	3,120	0.7	2.2	1,250	1,200
	Lease water	1,826				

RDMO MTS company. POOH w/ tbg and L/d 6-5/8" cups. Change crews. M/u 8-5/8" cup tools at 60' spacing. RIH w/ 86 stands to 5,500' MD. Closed pipe rams. Secured the well and rig. Hooked up casing to vapor recovery.

02/01/2014 Bled off well. Continued w/ 6-5/8" cup wash tool to sixth station at 6,400' MD. Continued program as follows:

Interval	Fluid Specs	Volume (gallons)	Rate (gpm)		Pressure (psi)	
			Initial	Final	Initial	Final
6,400' - 6,466'	15% H-Cl w/add.	640	0.5	2.1	1,150	1,200
	Lease water	1,556				
6,310' - 6,342'	15% H-Cl w/add.	1,280	0.7	2.2	1,250	1,200
	Lease water	1,534				

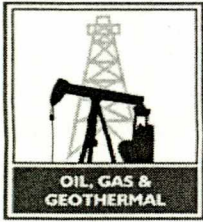
R/d MTS equipment. Changed crews. POOH w/ tbg detail. L/d 76 joints of tbg and stood back 88 stands. L/d the 8-5/8" cup tools. RIH w/ a 10 stand kill stings. Closed pipe rams. Secured the well and rig. Opened the back side to the vapor recovery.

02/03/2014 Bled off well. Pumped 78 bbls of lease water down the back side to kill the well. POOH w/ kill string. M/u gas anchor and pump. RIH w/ tubing detail. Spaced out boronized pipe as per program**. Continued to RIH w/ tbg detail. M/u casing shuck. Landed tbg at 7,456' MD w/ pump intake at 7,394' MD. N/d BOPE. N/u rod riser. Secured the well.
**Boronized tubing intervals: 49 joints f/ 840' – 2,425' MD and 11 joints f/ 3,613' – 3,969' MD.

02/04/2014 Bled off well. M/u the new pump plunger w/ 12 "K-bars" on top and a 26K sheer pin. RIH w/ rod detail. Spaced the well. Changed crews. Stroked the well w/ the rig for pump action – OK. M/u new hydraulic cylinder. Landed cylinder on flange. M/u production tree. Returned well to production. Waited 2 hours to verify production – OK. RDMO. Prep to move to West Pico 36.

02/05/2014 Bled off well. MIRU. Pulled hydraulic cylinder. M/u 3 rods and stroked the well for pump action – OK. Stroked the well for 1 hour. L/d the 3 rods. Reinstall the hydraulic cylinder. Landed back onto the well. N/u the production tree. Return to production. RDMO.

666



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

5816 Corporate Ave., Suite 200, Cypress, CA 90630-4731 Phone:(714) 816-6847

NOTICE OF RECORDS DUE

Cypress, California
9/2/2014

Mr. Thomas McCollum
Pacific Coast Energy Company LP (B6127)
1555 Orcutt Hill Road
Orcutt, CA 93455

In accordance with Division 3 of the California Public Resources Code, the following records are due
(covering the reworking notice dated 12/22/2013) for your well "West Pico" 12 (037-20146).
Beverly Hills Field, Los Angeles County, Sec. 30, T. 01S, R. 14W, SB B.&M.

Records, in duplicate are due within 60 days after completion of any well work or tests. Failure to provide such records may result in enforcement action, including issuance of violations, civil penalties and orders of the supervisor, pursuant to PRC 3236.5.

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Well Summary (Form OG 100) | <input type="checkbox"/> All Logs | <input type="checkbox"/> Velocity Survey |
| <input type="checkbox"/> History (Form OG 103, OGG 103) | <input type="checkbox"/> Dipmeter (computed) | <input type="checkbox"/> Temperature Survey |
| <input type="checkbox"/> Core of sidewall sample
(Form OG 101, OGG 101) | <input type="checkbox"/> Oil and/or gas analysis | <input type="checkbox"/> Spinner survey |
| <input type="checkbox"/> Directional survey | <input type="checkbox"/> Water analysis | <input type="checkbox"/> Standard Annular Pressure Test |
| <input type="checkbox"/> Other | <input type="checkbox"/> Pressure measurements
(flowing or static) | <input type="checkbox"/> RA Tracer survey
(fluid migration test) |

REPORTS FOR THE MONTH OF _____ : *Production, oil and gas disposition, and injection reports are due on or before the 30th day of each month for the preceding calendar month. Division forms must be signed in the spaces provided.*

OIL AND GAS OPERATION

GEOTHERMAL OPERATION

- Production and disposition reports
(Form OG 110 or computer report)
- Injection reports
(Form OG 110B or computer report)

- Production reports
(Form OGG 110)
- Injection reports
(Form OGG 110B)

Name: John Huff	Title: Associate Oil & Gas Engineer	Signature:
------------------------	--	-------------------

65

From: Huff, John@DOC
Sent: Monday, January 27, 2014 9:35 AM
To: 'Frank Smith'
Cc: Tom McCollum
Subject: RE: CBL added 14'

Frank,

To follow up on our phone conversation, based on the results of the cement bond log, no cement squeeze is necessary at this time.

Regards,
John

From: Frank Smith [<mailto:Frank.Smith@breitburn.com>]
Sent: Monday, January 27, 2014 8:47 AM
To: Huff, John@DOC
Cc: Tom McCollum
Subject: FW: CBL added 14'

John –

Last Friday, we ran a cement bond log (CBL), casing collar locator, gamma ray and neutron log in our West Pico well WP12RD1.

This is the well that we want to perforate the Repetto, do an acid job and return to production.

Top of Repetto is @6115'. Our top Repetto perforation will be at 6310'.

This new CBL confirmed lots of cement behind pipe at 6150' (CBL ran 6/17/1967), but it also shows some cement behind casing up to 6034'.

This is 81 feet above Top of Repetto and 276 feet above our top perforation.

We believe that there is adequate protection of any USDW.

Tom and I would like to call you around 9:15am this morning to discuss this with you.

Our West Pico rig is awaiting orders and not having to do a cement squeeze would save us about \$100,000.

Thanks – Frank Smith

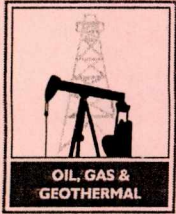
From: Paca, Ian C [<mailto:Ian.Paca@bakerhughes.com>]
Sent: Friday, January 24, 2014 7:04 PM
To: Frank Smith
Cc: Tom McCollum; Renney, Rickey L
Subject: CBL added 14'

Frank,

Please refer to attached files.

Thanks,

Ian



NATURAL RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
 5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. **P 113-1148**

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

Old	New
054	054
FIELD CODE	
03	03
AREA CODE	
00	00
POOL CODE	

Cypress, California
 January 02, 2014

Mr. Brad Pierce, Agent
 Pacific Coast Energy Company LP (B6127)
 515 S. Flower Street, Suite 4800
 Los Angeles, CA 90071

Your proposal to **Rework** well "**West Pico**" 12, A.P.I. No. **037-20146**, Section **30**, T. **01S**, R. **14W**, **SB B. & M.**, **Beverly Hills** field, **East** area, **Repetto** and **Hauser** pools, **Los Angeles** County, dated **12/22/2013**, received **12/27/2013** has been examined in conjunction with records filed in this office. (Lat: **34.055560**, Long: **-118.390522**, Datum: **83**)

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements.
 - a. Class **II3M**, with hydraulic controls, during **rework** operations.
 - b. A **3M lubricator** for **wireline** operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. Prior to shooting any perforations for bradenhead squeezes, a pressure test of the **8 5/8"** casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
5. For isolation of the **Repetto** zone, the **8 5/8"** casing shall be perforated at **6100'** and sufficient cement shall be squeezed to fill to **5950'** outside the casing, or until a pressure increase, not to exceed fracture pressure, is noted.
6. No program changes are made without prior Division approval.
7. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
 - b. Witness the cement squeeze through the **perforations** at **6100'**.

NOTE:

1. The top of the Repetto zone is at **6115'**.

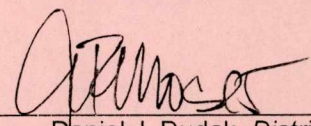
(Continued on Page 2)

Blanket Bond
 cc: Update
 EDP
 Los Angeles Fire Dept.

Engineer John Huff
 Office (714) 816-6847

JCH/jch

 Tim Kustic
 State Oil and Gas Supervisor

By 
 For Daniel J. Dudak, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

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Page 2

Well #: "West Pico" 12

API #: 037-20146

Permit : P 113-1148

Date: January 02, 2014

2. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.
3. Upon completion of the proposed work, a Well Summary Report (form OG100), a History of Oil or Gas Well (form OG103), and copies of all logs, tests, and surveys shall be submitted to this office.
4. **Any well stimulation conducted after January 1, 2014 will be subject to Senate Bill 4, (Chapter 313, 2013 Statute) requirements.**

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NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

#113-1148

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
BB	01/04/14	12/30/13 DJ

05/JH

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework / redrill well WP12RD1, API No. 040372014601,
(Check one)

Sec. 30, T. 1S, R. 14W, SB B.&M., Beverly Hills Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

20" conductor @65'

13 3/8" 48# H-40 Surface to 1224' 17.5" hole cemented with 700 sacks

8 5/8" 36# J-55 & N-80 Surface to 7512' 12.25" hole cemented with 700 sacks

6 5/8" liner 28# J-55 7470'-9232'

Perforations: 7512'-9250'

Fish @8171' below Otis Permatrieve packer set @8161'

WELLBORE MECHANICAL ATTACHED

The total depth is: 9250' feet.

The effective depth is: 8161' feet.

Present completion zone(s): Hauser Formation (Name) . Anticipated completion zone(s): Repetto & Hauser (Name)

Present zone pressure: 2400 psi. Anticipated/existing new zone pressure: 2200 psi.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes No

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? Yes No If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

Well program consists of two parts:

Part I: Perforating the Repetto Formation and a possible squeeze job @6,000' depends on top of cement located by CBL

Part II: Stimulation of the Hauser Formation & new Repetto perforations with 15% HCl and then to RTP well w/HRP

Detailed program is attached

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: _____ feet and _____ feet Estimated true vertical depth: _____
(Direction) (Direction)

Will the Field and/or Area change? Yes No If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator
Pacific Coast Energy Company

Address <u>1555 Orcutt Hill Road</u>	City/State <u>Orcutt, CA</u>	Zip Code <u>93455</u>
---	---------------------------------	--------------------------

Name of Person Filing Notice <u>Tom McCollum</u>	Telephone Number: <u>805-937-2576</u>	Signature 	Date <u>12/22/2013</u>
---	--	---------------	---------------------------

Individual to contact for technical questions: <u>Frank Smith/Tom McCollum</u>	Telephone Number: <u>805-234-6694</u>	E-Mail Address: <u>frank.smith@breitburn.com</u>
---	--	---

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

DOGGR
Received-
DEC 27 2013
TO JH 12/30/13

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INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the *Notice of Determination* or *Notice of Exemption* with this notice. Please note that a CEQA determination by a local jurisdiction, if required, must be complete, or the Division may not issue a permit.

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

- (1) 300 feet of the following:
 - (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
 - (B) Any airport runway.
- (2) 100 feet of the following:
 - (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
 - (B) Any navigable body of water or watercourse perennially covered by water;
 - (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
 - (D) Any officially recognized wildlife preserve.

WELL OPERATIONS REQUIRING BONDING

1. Drilling, re-drilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/



6D

West Pico 12RD1 Repetto Perf. Adds & Stimulation

West Pico 12RD1

Program to add D2 and R3 Repetto Perforations

DOGGR
Received-

DEC 27 2013

Program:

1. Move rig over well WP12RD1. Hold safety meeting.
2. Install 3,000 psi BOPE with 2 7/8" pipe rams and test BOPE to 3,000 #s. Call DOGGR Cypress office to see if they want to witness.
3. Pull 2 7/8" tubing & pump. Stand back tubing and send pump into Black Gold.
4. Cleanout to 8,161 feet. POOH
5. Rig up Baker Hughes Wire-line with full lubricator to run cased hole logs: Cement Bond Log (CBL), casing collar locator (CCL), and gamma-ray log (GR) from 7200' to 5200' to verify ETOC. POOH.
 - a. If CBL shows ETOC to be @+/- 6150', then proceed w/perforating Repetto step #9.
 - b. If CNL shows ETOC not to be @6150', then proceed with squeeze job step #6.
6. Rig up Baker Hughes Wire-line perforators with full lubricator to shoot 4 holes @6,000' feet. Call Cypress DOGGR office to witness. POOH.
7. Actual footage to be squeezed will be based on what the CBL tells us. Call Cypress DOGGR office to witness placement of cement. Rig up cementers, RIH with 2 7/8" tubing to 5,800' and squeeze 100 linear feet of class G cement between 8 5/8" casing & 12 1/4" hole. POOH. Rig down cementers
8. Pick up 8 5/8" drill bit, RIH with 2 7/8" tubing and drill out cement. Cement returns to go into bin. POOH
9. Rig up Baker Hughes Wire-line perforators with full lubricator & perforate the following:

<u>Zone</u>	<u>Repetto Perf Depths</u>	<u>Thickness</u>	<u>SPF</u>	<u>Total Shots</u>	<u>Gun Runs</u>
R3 6460'-6466'	6 feet	4	24	1	
R3 6400'-6410'	10 feet	4	40	1	
D2 6310'-6342'	<u>32 feet</u>	4	<u>128</u>	<u>2</u>	
	48 feet		192	4 runs	
10. Call MTS Acid and Weatherford and proceed with acid stimulation

Note: Top perforation will be at 6310' MD (4725' TVD), bottom hole pressure in the Repetto estimated @2200 psi. Pump job with pressure at or less than 90% of fracture pressure=1275#s: $[(0.8 \text{ psi/ft frac.gradient} - 0.5 \text{ psi/ft acid wt}) * 0.90 * 4725' = 1275 \text{ psi}]$

11. PU and RIH with 6 5/8" 60' opposed cup wash tool and acidize Hauser perforations from 7980' to 7512'.
12. Pump 100 bbls of produced water down tubing and 100 bbls down casing to displace. POOH. Lay down 6 5/8" cup wash tools.
13. PU and RIH with 8 5/8" 60'; opposed cup wash tool and acidize new Repetto perforations from 6466' to 6310'.
14. Displace with 300 Bbls clean lease water down tubing and 300 Bbls clean lease water down annulus. Bleed off remaining pressure.
15. POOH. Rig down stimulation equipment.
16. Pick up new hydraulic rod pump on 2 7/8" tubing string, run in hole and set pump @ 7930'. RTP well.

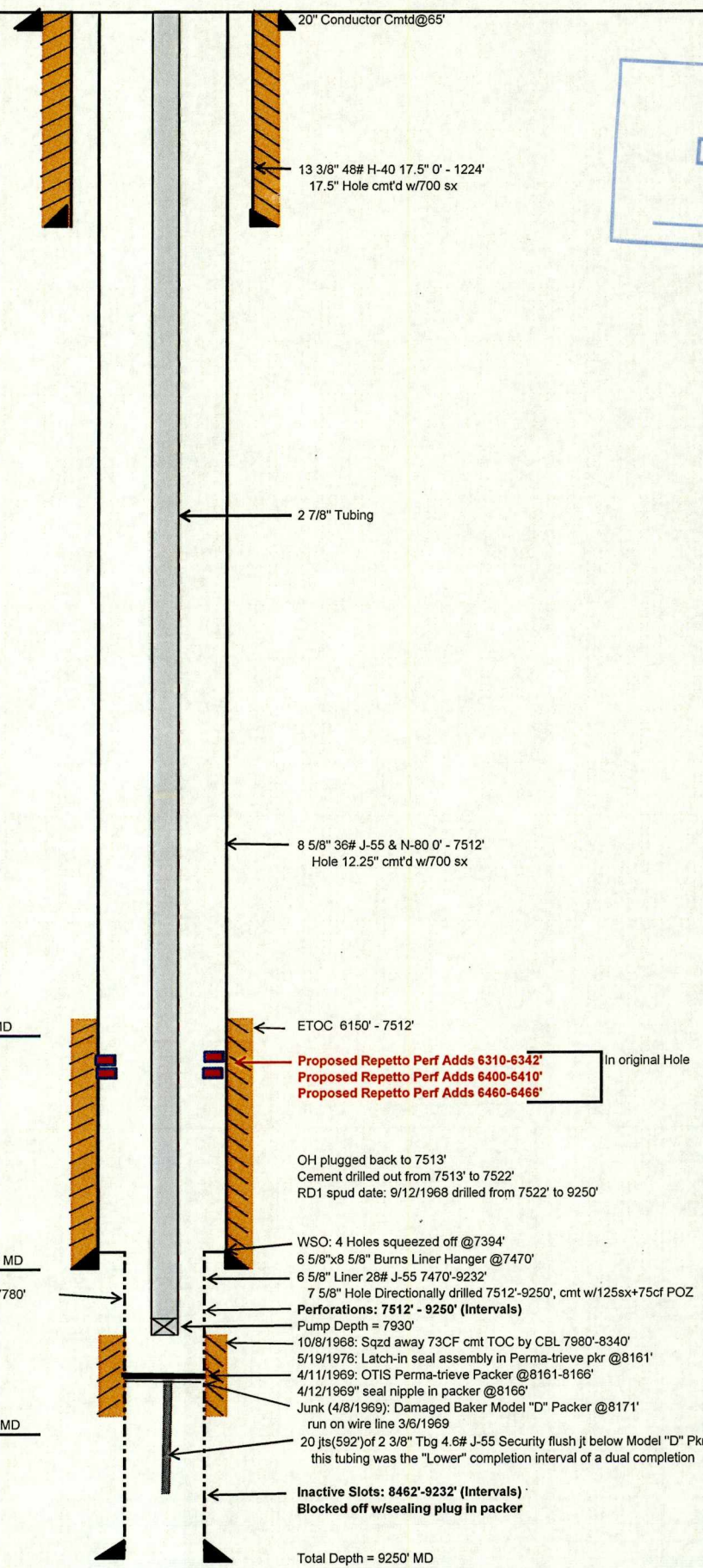
WP12RD1 Wellbore Diagram

API No. 040372014601
 Spud Date: 5/23/1967
 Redrill Date: 9/12/1968
 Sec.30, Twn 1S, Rge 14W

KB = 12.5'
 Elevation = 171'
 TD = 9250'

Current Condition
 12/2/2013
 Hydraulic Rod Pump

MD	Incl.
0	
100	0.1
200	0.2
300	0.3
400	0.4
500	0.3
600	0.3
700	0.4
800	1.1
900	4.6
1000	8.8
1100	12.8
1200	14.2
1300	17.0
1400	20.2
1500	22.8
1600	26.0
1700	29.2
1800	32.2
1900	35.6
2000	38.9
2100	42.7
2200	45.8
2300	50.5
2400	51.8
2500	51.8
2600	51.4
2700	51.4
2800	51.7
2900	52.3
3000	52.6
3100	51.8
3200	52.2
3300	51.5
3400	51.9
3500	52.3
3600	52.3
3700	51.6
3800	45.3
3900	47.6
4000	52.8
4100	54.6
4200	54.5
4300	53.9
4400	53.7
4500	52.5
4600	51.6
4700	50.8
4800	48.1
4900	46.4
5000	45.1
5100	43.5
5200	42.8
5300	41.0
5400	39.0
5500	36.8
5600	33.8
5700	30.5
5800	27.0
5900	25.0
6000	21.0
6100	19.5
6200	17.0
6300	15.0
6400	13.0
6500	12.0
6600	11.0
6700	10.0
6800	9.0
6900	8.0
7000	7.0
7100	6.0
7200	5.0
7300	5.0
7400	4.0
7500	3.5
7600	4.0
7700	6.0
7800	6.0
7900	8.8
8000	11.0
8100	13.0
8200	15.5
8300	16.5
8400	16.8
8500	15.3
8600	14.0
8700	12.7
8800	10.8
8900	11.3
9000	8.3
9100	6.0
9200	5.3
9300	2.8



DOGGR
 Received
 DEC 27 2013

Total Depth = 9250' MD

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Martinez, Valerie

From: Ung, June
Sent: Thursday, January 19, 2012 9:18 AM
To: Bynum, Carolyn; Hatfield, Sheila; Kirby Cook, Tina; Luft, Jennifer; Martinez, Valerie; Streiff, Jolene
Cc: Blaine, Maria; Clark, Sue C.; Ellison, Burt; Glinzak, Mike; Kendall, Victoria; Macias, Addy
Subject: Agent Database Update

Operator Name Change (same agent)

From BreitBurn Energy Company, LP to Pacific Coast Energy Company LP (B6127) – Districts 1 and 3

June Ung
Bond Administrator
Department of Conservation
Division of Oil, Gas, and Geothermal Resources
801 K Street, MS 20-20
Sacramento, CA 95814-3530
(916) 323-1788

Operator name change
Breitburn Energy Company, LP
To
Pacific Coast Energy Company L.P.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County ROSECRANS, SANTA FE SPRINGS, BEVERLY HILLS, SAWTELLE, SEAL BEACH, LONG BEACH, SOUTH ROSECRANS, SAWTELLE, DOMINGUEZ, LOS ANGELES COUNTY, EAST COYOTE, BREA-OLINDA,	District District 1 (Cypress, California)
Former owner Breitburn Energy Company, LLC B6127	Date November 7, 2005

Well Name	API Number	Section Township Range
See Attached List <i>all wells (779)</i>	See Attached List <i>all wells (779)</i>	See Attached List <i>all wells (779)</i>

Description of the land upon which the well (s) is (are) located.

Various

Date of transfer November 7, 2005	New owner Breitburn Energy Company, L.P.	Type of organization Partnership
	Address: 515 S. Flower Street, Suite 4800 Los Angeles, CA 90071	Telephone 213/225-5900
Reported by	OG30A, received 10/27/2005 signed by both parties	
Confirmed by	Same as above	
New operator new status PA	Designation of Agent Chris Williamson, Agent	
Old operator new status AB	Remarks Note: Operator Name Change. For further details see operator file (B6127) Brietburn Energy Company L.P.	

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor R. K. Baker	Signature Richard K. Baker, District Deputy																																				
<i>PA - Producing Active</i>	FORM AND RECORD CHECK LIST																																					
<i>NPA- No potential, Active</i>	Form or Record	Initials																																				
<i>PI- Potential Inactive</i>	Form or Record	Initials																																				
<i>NPI-No potential, Inactive</i>	Form or Record	Initials																																				
<i>AB-Abandoned or No More Wells</i>	Form or Record	Initials																																				
cc: Update; Envir Desk (2); File Conservation Committee Harold W. Bertholf, Inc. L.A. and Orange County Assessors Cypress, WellStats - District 1 Sacramento, WellStats, HQS	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Form or Record</th> <th style="width: 20%;">Initials</th> <th style="width: 20%;">Date</th> <th style="width: 30%;">Form or Record</th> <th style="width: 20%;">Initials</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr> <td>Form OGD121</td> <td></td> <td></td> <td>Map and Book</td> <td><i>Forward</i></td> <td><i>11/21/05</i></td> </tr> <tr> <td>Operator Card</td> <td><i>CB</i></td> <td><i>11-21-05</i></td> <td>Notice cancellations</td> <td><i>N/A</i></td> <td><i>CB</i></td> </tr> <tr> <td>Well Records</td> <td><i>CB</i></td> <td><i>11-21-07</i></td> <td>Bond Status</td> <td><i>CB</i></td> <td><i>11-21-05</i></td> </tr> <tr> <td>Log Records</td> <td><i>CB</i></td> <td><i>11-21-07</i></td> <td>EDP</td> <td><i>CB</i></td> <td><i>11-21-05</i></td> </tr> <tr> <td>Production Reports <i>N/A</i></td> <td><i>CB</i></td> <td><i>CB</i></td> <td>Data Base</td> <td><i>CB</i></td> <td><i>11-21-05</i></td> </tr> </tbody> </table>	Form or Record	Initials	Date	Form or Record	Initials	Date	Form OGD121			Map and Book	<i>Forward</i>	<i>11/21/05</i>	Operator Card	<i>CB</i>	<i>11-21-05</i>	Notice cancellations	<i>N/A</i>	<i>CB</i>	Well Records	<i>CB</i>	<i>11-21-07</i>	Bond Status	<i>CB</i>	<i>11-21-05</i>	Log Records	<i>CB</i>	<i>11-21-07</i>	EDP	<i>CB</i>	<i>11-21-05</i>	Production Reports <i>N/A</i>	<i>CB</i>	<i>CB</i>	Data Base	<i>CB</i>	<i>11-21-05</i>	
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Production Reports <i>N/A</i>	<i>CB</i>	<i>CB</i>	Data Base	<i>CB</i>	<i>11-21-05</i>																																	

WELL TRANSFER NOTICE

(NAME CHANGE)

BREITBURN ENERGY CORPORATION

CHANGED NAME TO

BREITBURN ENERGY COMPANY LLC

APRIL 1, 1997

(OG156 12-23-97)

OCCIDENTAL PETROLEUM CORP.

TRANSFERRED Beverly Hills wells (except S.E.A. #1) to

BREITBURN ENERGY CORP.

Effec. 1-1-92; OG156 4-13-93. See Operator File (Breitburn) for complete list.

WORK PERFORMED:

Drill _____ Redrill Deepen
Plug _____ Alter casing _____
Water flood _____ Water disposal _____
Abandon _____
Other _____

STATUS:

(Date)

Producing _____
Recomp. prod.
Water flood _____
Water disposal _____
Abandoned _____
Other _____
MAP AND BOOK NC

RECORDS FILED & DATE:

Clerk Scott

RECORDS & REQUIREMENTS CHECKED:

Eng. Re

Summary (dup.) _____

Log & Core (dup.) _____

History (dup.) 7/9/69

E-log 7516-9244 7/14/69

Radio log _____

D. Survey Aug-9250 7/14/69

Other _____

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Surface inspection *

Data needed None

Clerk:

Location _____ Notice states _____

Request records _____

F 170

Correct records _____

F 165

(Specify)

165A

CARDS _____

BOND: Blanket

Hold _____ Reason _____

Release _____ Date elig. _____

F 150b

End premium year _____

Release requested _____ (Check)

Bond superseded _____ (one)

Well abandoned _____

Production Reports _____

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

FINAL LETTER _____

F 159

and

FILE CLEARED _____

F 121

If stimulation or disposal well:

Form 121 _____ Folder _____

Form 19-A

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR OCCIDENTAL PETROLEUM CORPORATION FIELD Beverly HillsWell No. "West Pico" 12 - Redrill #1, Sec. 30, T. 1 S., R. 14 W., S.B. B. & M.Date June 18, 1969

Signed

D. W. Chenot

5000 Stockdale Highway

D. W. Chenot

Bakersfield, California 93309 (805) 327-7351

Title California Division Petroleum Engineer

(Address)

(Telephone Number)

~~XXXXXXXXXXXX~~ Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

CONDITION OF WELL BEFORE DOING WORK:

Total Depth: 8200'. Plugs: None. Junk: None.

Casing Record: 20" conductor cemented at 64.5'.
 13-3/8" 48#, H-40, seamless casing cemented at 1224'.
 8-5/8" 36#, N-80 and J-55, seamless casing cemented at 7512', W.S.O.
 at 7394' (four holes).
 6-5/8" 24#, J-55, seamless liner hung at 8125', top of Burns lead seal
 hanger at 7476.31'.
 Perforated from 8125' to 7981.63', 7961.63' to 7789.99' and 7747.97'
 to 7509.81' with 60 mesh, 24 rows, 2" slots, 6" centers, machine cut.

PRESENT CONDITION OF WELL:

Original Total Depth: 8200'. Plugged: 8120-7522'. Junk: (See Page 1A.)

Redrill #1 Total Depth: 9250'. Plugs: None. Junk: (See Page 1A.)

Casing Record: 20" conductor cemented at 64.5'.
 13-3/8" 48#, H-40, seamless casing cemented at 1224'.
 8-5/8" 36#, N-80 and J-55, seamless casing cemented at 7512', W.S.O.
 at 7394' (four holes).
 6-5/8" 28#, J-55, seamless liner hung at 9232', top of Burns plain type liner
 hanger at 7469.62'.
 Perforated from 9232' to 8977.51', 8956.39' to 8741.94' and 8698.04'
 to 8461.64' with 60 mesh, 24 rows, 2" straight slots, 6" centers (machin
 cut), 8164' to 8154', 8140' to 8120', 8110' to 7980', 7960' to 7925',
 7916' to 7884', 7876' to 7866', 7860' to 7826', 7820' to 7806', 7798'
 to 7788', 7746' to 7726', 7692' to 7630' and 7590' to 7512' with four
 Densi-jet XIX holes per foot.

6-5/8" Otis Perma-trieve packer set at 8166'.

DIVISION OF OIL AND GAS
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JUL 9 1969

INGLEWOOD, CALIFORNIA *52*

PRESENT CONDITION OF WELL: (Continued)

Junk (In Original Hole): 6-5/8" 24[#], J-55, seamless, perforated liner at 8125',
top at 7573.72'.

Junk (In Redrill Hole): 6-5/8" Baker Model "D" packer (damaged) at 8171'.
(Note: Packer found at 8171' instead of 8189'.)

20 joints, 592', of 2-3/8" 4.6[#], J-55, Security flushjoint
tubing below Model "D" packer.

All measurements corrected to original K.B. measurement which was 12.5' above ground (183.5' K.B.).

1968
9/5

(Occidental Petroleum Corporation Rig)

Moved in drilling equipment and rigged up. Bled off pressure. Rigged up and ran Go-Western jet perforator and perforated one 1/2" hole in 3-1/2" tubing at 7364'. Killed well with mud. Conditioned mud.

9/6

Installed back pressure valves. Removed Xmas tree. Installed B.O.P. equipment. Changed pipe rams to 2-3/8". Pulled #1 side string of 2-3/8" tubing. Commenced pulling #2 side string of 2-3/8" tubing.

9/7

Completed pulling #2 side string of 2-3/8" tubing. Removed donut. Circulated and conditioned mud. Changed rams in B.O.P. equipment to 3-1/2". Pulled and laid down 3-1/2" drill pipe. Laid down 2-3/8" tubing. Changed rams to 4".

9/8

Ran in hole with wash tool on 2-3/8" tubing and 4" drill pipe to 8125'. Circulated. Washed liner from 8125' to 7511'. Circulated hole clean. Pulled out of hole. Ran in with Baash-Ross spear, bumper sub and jars and hooked on to liner. Jarred for 1 hour, no movement. Commenced running in with McCullough free point indicator.

9/9

Completed running McCullough free point indicator and found liner stuck from 7600'. Pulled free point indicator. Released spear and pulled out of liner. Pulled out of hole. Laid down fishing tools. Ran in with inside cutter and cut 6-5/8" liner at 7572'. Pulled and laid down cutter. Ran Baash-Ross spear and latched on to liner. Pulled out and recovered 97.40' of liner. Top of liner at 7573.71'. Commenced running in hole with 650' of 2-3/8" tubing tail.

9/10

Completed running in hole with 2-3/8" tubing tail on 4" drill pipe to bottom. Circulated preparatory to setting cement plug.

Plug #1 (8120-7572'): With 650' of 2-3/8" tubing tail on 4" drill pipe hung at 8120', equalized 36 sacks of Permanente Class "G" cement and 36 cubic feet of Pozmix, 850# salt, 135# gel and 25# CFR-2 (105 cubic feet slurry). Cement in place at 9:45 a.m.

Pulled out. Ran in with 12" hole opener and opened hole to 12" from 7512' to 7572'. Circulated. Pulled out and laid down hole opener.

1968
9/11

Made up and ran in with 2 joints of 2-7/8" tubing with scratchers on 4" drill pipe and found top of cement plug at 7572'. Circulated and conditioned mud preparatory to setting cement plug.

Plug #2 (7572-7513'): With 2 joints of 2-7/8" tubing equipped with scratchers on 4" drill pipe hung at 7572', equalized 67 sacks of Class "G" cement plus 13 sacks of sand, 421# salt and 47# CFR-2 (85 cubic feet of slurry). Cement in place at 8:00 a.m. At 2:10 p.m. located top of cement plug at 7513'. Location and hardness of cement plug at 7513' witnessed and approved by a representative of the Division of Oil and Gas.

Pulled out and laid down tubing tail. Ran in with 7-5/8" bit to 7478' and circulated and conditioned mud.

9/12

Ran on in to 7513' and drilled out cement plug from 7513' to 7522'. Circulated and conditioned mud preparatory to running Dyna-Drill.

REDRILL #1:

Ran in with 7-5/8" bit with Dyna-Drill and oriented Dyna-Drill at 7522'. Directionally redrilled 7-5/8" hole from 7522' to 7590'. Pulled out. Laid down Dyna-Drill.

9/13

Ran in with 7-5/8" bit to 7590' and circulated. Directionally redrilled 7-5/8" hole from 7590' to 7655'. Pulled out. Ran in with 7-5/8" bit with Dyna-Drill to 7615' and found 40' fill. Washed out fill.

9/14

Bit plugged. Would not circulate. Pulled out bit and Dyna-Drill; pulled wet. Cleaned sand out of drill collar and Dyna-Drill. Ran in hole with 7-5/8" bit with Dyna-Drill to 7655'. Ran surveys. Survey stuck. Pulled survey loose. Bit sanded up. Pulled out wet. Laid down Dyna-Drill. Ran in hole with 7-5/8" bit to 7508' and circulated and conditioned mud.

9/15

Ran on in to 7625' and cleaned out 30' fill to 7655'. Directionally redrilled 7-5/8" hole from 7655' to 7687'. Pulled out. Ran in with 7-5/8" bit with Dyna-Drill and oriented Dyna-Drill at 7687'. Directionally redrilled 7-5/8" hole from 7687' to 7810'.

9/16

Directionally redrilled 7-5/8" hole from 7810' to 7895'. Installed Exploration Logging, Inc. unit at 7810'.

9/17

Directionally redrilled 7-5/8" hole from 7895' to 8021'. Pulled out and laid down Dyna-Drill. Commenced running in hole with 7-5/8" bit.

1968
9/18

Completed running in hole with 7-5/8" bit and directionally redrilled 7-5/8" hole from 8021' to 8160'. Pulled out. Ran in with 7-5/8" bit with Dyna-Drill and oriented Dyna-Drill at 8160'. Ran survey to check. Re-oriented Dyna-Drill.

9/19

Directionally redrilled 7-5/8" hole from 8160' to 8328'. Pulled out and laid down Dyna-Drill. Ran in with 7-5/8" bit to 8235' and cleaned out from 8235' to 8328'. Directionally redrilled 7-5/8" hole from 8328' to 8333'.

9/20

Directionally redrilled 7-5/8" hole from 8333' to 8568'.

9/21

Directionally redrilled 7-5/8" hole from 8568' to 8646'. Pulled out. Ran in with 7-5/8" bit with Dyna-Drill and oriented Dyna-Drill at 8646'. Directionally re-drilled 7-5/8" hole from 8646' to 8677'.

9/22

Directionally redrilled 7-5/8" hole from 8677' to 8713'. Pulled out and laid down Dyna-Drill. Ran in with 7-5/8" bit with new Dyna-Drill and oriented Dyna-Drill at 8713'. Directionally redrilled 7-5/8" hole from 8713' to 8800'.

9/23

Directionally redrilled 7-5/8" hole from 8800' to 8832'. Pulled out and laid down Dyna-Drill. Ran in with 7-5/8" bit and directionally redrilled 7-5/8" hole from 8832' to 8898'.

9/24

Directionally redrilled 7-5/8" hole from 8898' to 8998'. Pulled out.

9/25

Worked on brakes for 13 hours. Ran in with 7-5/8" bit and directionally redrilled 7-5/8" hole from 8998' to 9052'.

9/26

Directionally redrilled 7-5/8" hole from 9052' to 9156'.

9/27

Directionally redrilled 7-5/8" hole from 9156' to 9250' (T.D. of the redrill #1 hole). Circulated at total depth to clean hole.

9/28

Pulled up into 8-5/8" casing shoe. Ran to bottom, no fill. Circulated and conditioned mud preparatory to running logs. Pulled out.

Ran Schlumberger Induction-Neutron Log, recorded from 9244' to 7516', and Compensated Formation Density Log, recorded from 9253' to 7512' (Schlumberger's measurements).

Ran in with 7-5/8" bit with 6-point reamer to 7512' and reamed hole from 7512' to 9250'. Released Exploration Logging, Inc. unit.

1968
 9/29

Pulled to 8-5/8" casing shoe at 7512'. After 2 hours, ran back to 9250' and circulated and conditioned mud preparatory to running liner.

9/30

Circulated and conditioned mud preparatory to running liner. Pulled out.

Ran 42 joints, 1754.14', of 6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank and perforated liner and hung at 9232' with 2.70' port collar at 8416.29', 3.54' float collar at 8368.84', cement baskets at 8451' and 8441', Burns plain type liner hanger at 7469.62' and 45 B&W centralizers: No. 13667 V.R.C. centralizers (18)--one on every joint from 9232' to 8462' and No. 15667 centralizers with KK-6 bows (27)--one every 30' from 8462' to 8000' and one on every joint from 8000' to 7512' (total liner 1762.38').

Joints	Description	From	To	Footage
6	6-5/8" 28#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" straight slots, 6" centers. Bullnose on bottom.	9232.00'	8977.51'	254.49'
1	6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank	8977.51'	8956.39'	21.12'
5	6-5/8" 28#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" straight slots, 6" centers	8956.39'	8741.94'	214.45'
1	6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank	8741.94'	8698.04'	43.90'
6	6-5/8" 28#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" straight slots, 6" centers	8698.04'	8461.64'	236.40'
1	6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank*	8461.64'	8418.99'	42.65'
	Port Collar	8418.99'	8416.29'	2.70'
1	6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank	8416.29'	8372.38'	43.91'
	Latch-down Float Collar	8372.38'	8368.84'	3.54'
21	6-5/8" 28#, J-55, new, seamless, Security flushjoint, blank	8368.84'	7471.62'	897.22'
	Burns plain type liner hanger	7471.62'	7469.62'	2.00'
42	Total Liner Hung			1762.38'

*Cement baskets at 8451' and 8441'.

(Continued)

47

1968
9/30

(Continued)

Pumped in 100 cubic feet of 18% salt water. Cemented liner through port collar at 8416' with 75 sacks of Permanente Class "G" cement and 75 cubic feet of Pozmix D premixed with 2 sacks of gel, 53 pounds of CFR-2 and 15 sacks of salt followed with 50 sacks of Permanente Class "G" cement premixed with 24 pounds of CFR-2 and 4 sacks of salt. Total 166 cubic feet of slurry. Cement in place at 4:00 p.m. Backscuttled 70 cubic feet of cement. Pulled out.

Lost swab cups and one joint of tubing in the hole. Ran in with one joint of tubing on 4" drill pipe and attempted to recover fish.

10/1 Chain tonged out of hole. Did not recover fish. Ran in with Baash-Ross fishing tools and attempted to recover fish without success. Laid down fishing tools. Ran in with 5-5/8" bit and found top of cement at 7472'. Drilled out cement from 7472' to 7502'. Pushed fish to 8333'. Circulated and conditioned mud. Pulled out and laid down bit. Commenced running in hole with Baash-Ross fishing tools.

10/2 Completed running in hole with Baash-Ross fishing tools and attempted to recover fish. Pulled out. Did not recover fish. Checked socket. Reran socket, got over fish but slips failed to set. Pulled out. Changed sockets. Ran socket and found top of fish at 8276'. Worked up hole. Lost fish 90' before out of liner. Pulled out.

10/3 Ran in with washover mill and located top of fish at 8307'. Milled on fish at 8307'. Could not make any hole. Pulled out and laid down mill. Ran in with Bowen socket and latched on to fish. Pulled out. Recovered all of the fish. Laid down fishing tools. Ran in with 5-5/8" bit with 6-1/4" scraper to 8368', top of float collar. Drilled out rubber plug, float collar and cleaned out from 8368' to 8416', top of port collar.

10/4 Circulated at 8416'. Pulled out and laid down bit and scraper. Ran in with Halliburton RTTS tester and set tool at 7516'. Pressured to 2000 psi; no circulation. Pulled out and laid down tool.

Ran Go-Western Cement Bond Log. Tool functioned improperly; however, able to determine there was no cement.

Ran Go-Western jet perforator and perforated four holes at 7477' and four holes at 8400'. Pulled out and laid jet perforator.

(Continued)

46e

1968

10/4

(Continued)

Squeeze #1 (8400' and 7477'): Ran and set Baker Model "K" retainer at 8380'. Ran in with squeeze tool on 11 stands of 2-3/8" tubing on bottom of 4" drill pipe. Circulated through holes. Pumped in 100 cubic feet of 18% salt water followed with 75 sacks of Class "G" cement and 75 cubic feet of Pozmix "D" premixed with 2 sacks of gel, 53 pounds of CFR-2 and 15 sacks of salt followed with 50 sacks of Class "G" cement premixed with 24 pounds of CFR-2 and 4 sacks of salt. Displaced cement with 467 cubic feet of mud. Squeezed cement away. Minimum pressure 200 psi; maximum pressure 1800 psi. Circulating pressure 500 psi. Cement in place at 9:20 p.m. Backscuttled out 75 cubic feet of cement and 100 cubic feet of salt water.

10/5

Pulled out and laid down squeeze tools. Ran in with 5-5/8" bit with 6-5/8" scraper; bit plugged. Pulled out of hole. Unplugged bit. Ran in with 5-5/8" bit with 6-5/8" scraper and located top of cement at 8347'. Circulated and conditioned mud. Commenced pulling out of hole.

10/6

Completed pulling out of hole. Laid down bit and scraper.

Ran Go-Western Cement Bond Log; no cement. Ran Go-Western Neutron-Correlation Log and recorded from 8342' to 7300' (Go-Western's measurements).

Ran Go-Western jet perforator and perforated four holes at 8340' and four holes at 7480' in 6-5/8" liner.

Squeeze #2 (8340' and 7480'): Ran and set Baker Model "K" cement retainer at 8320'. Ran in with Baker stab-in tool on 1041' of 2-3/8" 4.6# tubing on 7284' of 4" drill pipe and stabbed into retainer. Circulated freely. Pumped in 100 cubic feet of 18% salt water followed by 75 sacks of Class "G" cement and 75 cubic feet of Pozmix "D" premixed with 2 sacks of gel, 53 pounds of CFR-2 and 15 sacks of salt followed by 50 sacks of Class "G" cement premixed with 24 pounds CFR-2 and 4 sacks of salt. Total slurry 255 cubic feet. Displaced cement with 464 cubic feet of mud. Cement in place at 7:15 p.m. Backscuttled out 180 cubic feet of cement.

10/7

Circulated at 8294'. Pulled out. Ran in with Go-Western Cement Bond Log and it stopped on top of liner. Pulled out. Ran in with 5-5/8" bit and scraper to 8300'. Reversed circulation to clean drill pipe. Drilled out cement from 8300' to 8320' and drilled on retainer at 8320'.

OCCIDENTAL PETROLEUM CORPORATION

"West Pico" 12 - Redrill #1

Section 30, T. 1 S., R. 14 W., S.B.B. & M.

Page 8

1968

10/8

Drilled on retainer at 8320' and cleaned out to 8340'. Circulated. Pulled and laid down bit and scraper.

Ran Go-Western Cement Bond Log with Sonic Spectrum and recorded from 8330' to 7450' (Go-Western's measurements). Cement bond did not look good.

Ran Go-Western jet perforator and perforated four holes at 8340'.

Squeeze #3 (8340'): Ran and set Baker Model "K" retainer at 8250'. Ran in with squeeze tool on 10 joints of tubing on bottom of 4" drill pipe. Pumped in 100 cubic feet of 18% salt water followed with 75 sacks of Class "G" cement premixed with 0.75% CFR-2 and 18% salt. Closed tool and trapped 50 cubic feet of water. Broke down with 2800 psi. Squeezed away 73 cubic feet of slurry with 2000 psi, broke back to 1600 psi. Staged 5 times. Final pressure 1950 psi and held. Cement in place at 5:30 p.m. Pulled out of retainer with pressure on drill pipe. Backscuttled drill pipe clean; no cement.

Pulled out and laid down squeeze tools.

10/9

Ran in with 5-5/8" bit to top of Model "K" retainer at 8250'. Drilled out retainer and cement from 8250' to 8378'. Cleaned out from 8378' to 8380', top of retainer. Circulated and conditioned mud. Pulled out. (Pulled tight. Junk above bit. Worked pipe up through casing.) Laid down bit.

Ran Go-Western Cement Bond Log with Sonic Spectrum and recorded from 8370' to 7450' (Go-Western's measurements). Log showed good bond from 7980' to 8340'.

Ran in with open-end drill pipe to 8380' and backscuttled hole clean.

10/10

Circulated and conditioned mud preparatory to running jet perforator. Pulled out.

Ran Go-Western jet perforated and perforated four holes at 7780'.

Squeeze #4 (7780'): Ran and set retainer at 7690'. Ran Baker stab-in tool on 3 stands of 2-3/8" tubing on 4" drill pipe and stabbed into retainer. Pressured to 4500 psi, no breakdown. Pulled out and laid down squeeze tools.

Ran in with 5-5/8" bit to 7690' and drilled out retainer. Cleaned out to 8380'. Circulated and conditioned mud.

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OCCIDENTAL PETROLEUM CORPORATION

"West Pico" 12 - Redrill #1

Section 30, T. 1 S., R. 14 W., S.B.B. & M.

1968

10/11

Circulated and conditioned mud. Displaced mud with 10% salt water. Pulled out.

Ran Go-Western jet perforator and commenced perforating 6-5/8" liner.

10/12

Completed jet perforating 6-5/8" liner with four Densi-jet XIX holes per foot from 8164' to 8154', 8140' to 8120', 8110' to 8020', 7940' to 7925', 7916' to 7884', 7876' to 7866', 7860' to 7826', 7820' to 7806', 7798' to 7788', 7692' to 7630' and 7590' to 7512'.

Ran in with 5-5/8" bit and scraper and scraped shot holes in 6-5/8" liner from 7512' to 8164' and cleaned out to 8318'. Circulated and conditioned mud. Pulled out and laid down bit and scraper.

CT #1 (8180-7980'): Ran Halliburton tester with Baker Model "C" retrievable bridge plug on 4" drill pipe. Set bridge plug at 8180'. Set 6-5/8" packer at 7980' with 4-3/4" tail extending to 7996'. Opened tool at 11:38 p.m. for a 3-minute initial flow. Blow in bucket hard. Closed tool at 11:41 p.m. for a 2-hour final shut-in.

10/13

Pulled tester loose at 1:41 a.m.

	<u>Top Recorder</u>	<u>Bottom Recorder</u>
Initial Hydrostatic Pressure	3187 psi	3186 psi
Initial Flowing Pressure	923 psi	925 psi
Final Flowing Pressure	891 psi	891 psi
Final Shut-in Pressure	2299 psi	2293 psi
Final Hydrostatic Pressure	3185 psi	3180 psi

Recorded Temperature 160° (calculated)

Dropped down to retrievable bridge.

CT #2 (7980-7750') - MISRUN: Pulled up and set bridge plug at 7980'. Set 5-1/2" packer at 7750' with 3-3/4" tail extending to 7766'. Opened tool and fluid dropped immediately. Packer rubber washed out. Pulled tester loose and backscuttled. Pulled out of hole with tester tools. Left bridge plug in the hole.

Checked tester tools, O.K. Ran wire line and located retrievable bridge plug at 7985'.

(Continued)

43

1968
 10/13

CT #3 (7985-7805'): Ran Halliburton tester on 4" drill pipe. Set 5-1/2" packer at 7805' with 3-3/4" tail extending to 7819'. Opened tool at 12:07 p.m. for a 3-minute initial flow. Had a very strong blow. Closed tool at 12:10 p.m. for a 2-hour final shut-in. Pulled tester loose.

	<u>Top Recorder</u>	<u>Bottom Recorder</u>
Initial Hydrostatic Pressure	3033 psi	3046 psi
Initial Flowing Pressure	1269 psi	1267 psi
Final Flowing Pressure	1056 psi	1058 psi
Final Shut-in Pressure	1914 psi	1914 psi
Final Hydrostatic Pressure	3012 psi	3046 psi
Recorded Temperature	150°F (estimated)	

CT #4 (7985-7491'): Reset Halliburton 5-1/2" packer at 7491' with 3-3/4" tail extending to 7505'. Bridge plug set at 7985'. Opened tool at 2:27 p.m. for a 3-minute initial flow. Had a strong blow for 3 minutes. Closed tool at 2:30 p.m. for a 2-hour final shut-in. Pulled tester loose. Backscuttled. Pulled tester out of the hole.

	<u>Top Recorder</u>	<u>Bottom Recorder</u>
Initial Hydrostatic Pressure	3033 psi	3046 psi
Initial Flowing Pressure	1330 psi	1317 psi
Final Flowing Pressure	1056 psi	1119 psi
Final Shut-in Pressure	1917 psi	1937 psi
Final Hydrostatic Pressure	3012 psi	3046 psi
Recorded Temperature	150°F (estimated)	

Commenced running in hole with Bowen socket.

10/14

Completed running in hole with Bowen socket to 7985' and attempted to retrieve bridge plug. Pulled out of hole slowly. Recovered top part of bridge plug ("J" tool assembly). Left body and slips in the hole. Ran in with socket to 7958' and displaced 10% salt water with salt-starch mud. Circulated and conditioned mud. Fished for Baker bridge plug. Pulled out of hole slowly; no recovery.

1968

10/15

Ran in with fishing tools and tools stopped at 7472'. Pulled out of hole slowly. Ran in with 5-1/2" x 3-5/8" mill and found top of fish at 7975'. Milled on fish. Made 1/2'. Pulled out. Ran in with #2 5-1/2" x 3-5/8" mill to 7975' and milled on bridge plug. Did not make any footage. Commenced pulling out of hole.

10/16

Completed pulling out of hole with mill. Laid down mill. Ran in hole with impression block. Showed 1" rod bent over into 2" hook. Laid down impression block. Ran in with socket; unable to get into liner. Pulled out. Ran in with 5-1/2" O.D. x 3-1/2" I.D. socket and worked over top of fish. Pulled out of hole. Did not recover fish. Ran in with 5-1/2" O.D. junk mill, worked into liner and ran in to 7946'. Circulated.

10/17

Ran on in to 7975' and milled on fish. Pulled out. Ran in with magnet on wire line and recovered some small pieces of metal. Ran in 5-1/2" mill and milled on fish at 7980'.

10/18

Milled on fish at 7980'. Pulled out. Recovered 4" x 3" nut and spring off bridge plug in mill. Laid down mill. Ran in with socket and found fish at 8000'. Took hold of fish and pulled very slowly out of hole. Recovered all of fish. Ran in hole with 5-5/8" bit and junk sub to 8380' and circulated and conditioned mud.

10/19

Drilled on retainer from 8380' to 8383'. Circulated and conditioned mud preparatory to perforating 6-5/8" liner.

Ran Go-Western jet perforator and perforated four Densi-jet XIX holes per foot in the 6-5/8" liner from 8020' to 7980', 7960' to 7940' and 7746' to 7726'.

Laid down jet perforator. Ran in with 5-5/8" bit and junk sub to 8383' and drilled on retainer and junk from 8383' to 8384'.

10/20

Drilled on retainer and junk from 8384' to 8410'.

10/21

Drilled on retainer and junk from 8410' to 8412'.

10/22

Drilled on retainer and junk from 8412' to 8416'. Drilled out port collar from 8416' to 8419'. Cleaned out from 8419' to 9202' and cleaned out fill from 9202' to 9232'. Circulated and conditioned mud. Pulled out. Laid down junk sub. Ran in with 5-5/8" bit with 6-5/8" casing scraper and scraped liner to 9232'. Pulled out and laid down bit and scraper. Ran in with open-end drill pipe to 9232'.

41

1968
 10/23

Reversed circulation with open-end drill pipe at 9232'. Pulled out. Laid down drill pipe. Rigged up to run tubing.

Commenced running 2-7/8" 6.4#, N-80, new, National seal-lock tubing.

10/24

Completed running 2-7/8" 6.4#, N-80, new, National seal-lock tubing with H-1 6-5/8" x 2-7/8" hydraulic production packer, sliding sleeve, safety joint, H-2 8-5/8" x 2-7/8" x 2-3/8" hydraulic production packer and two gas lift mandrels and landed at 9170.51'. Tubing was hydrotested to 5000 psi.

Ran 219 joints of 2-3/8" 4.6#, J-55, new, National seal-lock tubing with six gas lift mandrels and packer stab-in assembly on bottom and landed at 7445.59'. Tubing was hydrotested to 5000 psi.

TUBING DETAIL

Long String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
25	Perforated production nipple	9170.51'	9168.16'	2.35'
	2-7/8" 6.4#, N-80, new, National seal-lock tubing	9168.16'	8409.59'	758.57'
	Brown Oil Tool "Husky" H-1 6-5/8" x 2-7/8" Hydraulic production packer	8409.59'	8402.35'	7.24'
1	2-7/8" 6.4#, N-80, new, National seal-lock tubing	8402.35'	8372.11'	30.24'
	2-7/8" National seal-lock x 2-7/8" 8 round thread crossover	8372.11'	8371.69'	1.02'
	2-7/8" Otis "XO" sliding sleeve	8371.09'	8367.92'	3.17'
	2-7/8" 8 round thread x 2-7/8" National seal-lock crossover	8367.92'	8366.80'	1.12'
30	2-7/8" 6.4#, N-80, new, National seal-lock tubing	8366.80'	7453.22'	913.58'
	2-7/8" Brown Oil Tool, Type "CC", safety joint	7453.22'	7451.99'	1.23'
	Brown Oil Tool 8-5/8" x 2-7/8" x 2-3/8" "Husky" H-2 hydraulic, dual production packer	7451.99'	7445.59'	6.40'
1	2-7/8" 6.4#, N-80, new, National seal-lock tubing	7445.59'	7415.65'	29.94'
	2-7/8" KBM gas lift mandrel (975# HKB, 1/4" port valve)	7415.65'	7406.60'	9.05'

(Continued)

40

1968
 10/24

(Continued)

TUBING DETAIL (Continued)

Long String: (Continued)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
71	2-7/8" 6.4#, N-80, new, National seal-lock tubing	7406.60'	5417.18'	1989.42'
	2-7/8" Harold Brown Type "A" JR conventional gas lift mandrel (1000# B-JR, 1/4" port valve)	5417.18'	5411.96'	5.22'
175	2-7/8" 6.4#, N-80, new, National seal-lock tubing	5411.96'	18.80'	5393.16'
	K.B. to Tubing Head	18.80'	0'	18.80'
303		Total Tubing Landed		9170.51'

Short String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	2-3/8" Brown Oil Tool packer stab-in assembly	7445.59'	7444.33'	1.26'
2	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7444.33'	7381.03'	63.30'
	2-3/8" KBM gas lift mandrel (750# 1/4" port HKB)	7381.03'	7371.61'	9.42'
5	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7371.61'	7214.94'	156.67'
	2-3/8" KBM gas lift mandrel (645# 110 Diff. KE-1, 1/4" port 10/64)	7214.94'	7205.54'	9.40'
11	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7205.54'	6861.42'	344.12'
	2-3/8" KBM gas lift mandrel (645# 140 Diff. KE-1, 1/4" port 10/64)	6861.42'	6852.12'	9.30'
11	2-3/8" 4.6#, J-55, new, National seal-lock tubing	6852.12'	6511.84'	340.28'
	2-3/8" KBM gas lift mandrel (645# 160 Diff. KE-1, 1/4" port 10/64)	6511.84'	6502.44'	9.40'

(Continued)

39

1968
 10/24

TUBING DETAIL (Continued)

Short String: (Continued)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
15	2-3/8" 4.6#, J-55, new, National seal-lock tubing	6502.44'	6035.70'	466.74'
	2-3/8" KBM gas lift mandrel (645# 185 Diff. KE-1, 1/4" port 10/64)	6035.70'	6026.29'	9.41'
52	2-3/8" 4.6#, J-55, new, National seal-lock tubing	6026.29'	4410.19'	1616.10'
	2-3/8" KBM gas lift mandrel (655# 400 Diff. KE-1, 1/4" port 10/64)	4410.19'	4400.84'	9.35'
123	2-3/8" 4.6#, J-55, new, National seal-lock tubing	4400.84'	35.37'	4365.47'
	2-3/8" 4.6#, J-55, new, National seal-lock pup joints	35.37'	21.17'	14.20'
	Landing donut	21.17'	20.00'	1.17'
	Slack in tubing	20.00'	18.80'	1.20'
	K.B. to Tubing Head	18.80'	0'	18.80'
219		Total Tubing Landed		7445.59'

10/25

Ran Brown tubing plug on wire line in 2-7/8" tubing to H-1 packer, pressured tubing above plug and set packer at 8402.35', bottom at 8409.59'. Pulled out. Ran Brown tubing plug in 2-3/8" tubing to H-2 packer, pressured tubing above plug and set dual packer at 7445.59', bottom at 7451.99'. Pulled out.

Installed back pressure valves in tubing strings. Removed B.O.P. equipment. Installed Xmas tree and tested with 3000 psi for 30 minutes, O.K. Removed back pressure valves. Ran in with wire line and opened Otis "XO" sliding sleeve in 2-7/8" tubing string. Pulled out. Ran in with wire line and removed valve from gas lift mandrel at 7371.61' in 2-3/8" tubing string. Pulled out. Displaced drilling fluid from hole with lease crude oil by pumping down 2-7/8" tubing and taking returns from casing annulus until oil returned to surface. Closed casing annulus and took returns from 2-3/8" tubing until change over was completed.

1968

10/26

Ran in with wire line and closed Otis "XO" sliding sleeve in 2-7/8" tubing string. Pulled out. Ran in with wire line and set valve in gas lift mandrel at 7371.61' in 2-3/8" tubing string. Installed flow lines, valves, controls, and safety equipment. Released rig at 4:00 a.m., October 26, 1968.

10/27

Shortly after putting both the lower gas zone and the upper oil zone on production, it was apparent that communication existed between the two producing zones around the packer. As the drilling rig had moved and was drilling "West Pico" 20, preventing access to #12, the upper zone (oil) was shut-in and the gas zone was put on production.

Initial Production - Lower Zone:

13 hours: 484 B/D gross oil, 9.7% cut, 437 B/D net oil, 7764 Mcf per day gas, 18/64" bean, Tubing Pressure 1875 psi.

10/28 thru
1/5/1969

Well on production.

1969

1/6

Moved in and rigged up Blackwell & Sundae, Inc. well servicing rig.

1/7

Killed well with 78# per cubic foot solids free starch mud. Installed B.O.P. equipment and started pulling 2-3/8" short tubing string.

1/8

Finished pulling 2-3/8" tubing and laying down gas lift mandrels. Rigged up to pull 2-7/8" tubing. Unable to release Brown Oil Tool "Husky" H-2 packer.

1/9

Attempted to release packer without success.

1/10

Rigged up McCullough wireline truck. Ran free point indicator in 2-7/8" tubing but unable to get to bottom because of wax. Ran paraffin knives to 5000'. Ran free point but could not get below 2200'. Backscuttled.

1/11

Ran smaller McCullough free point indicator to 8400'. Tubing was free to packer at 7446'. Ran McCullough 2-1/8" chemical tubing cutter and shot tubing off at 7419'. Pulled 2-7/8" tubing and laid down gas lift mandrel. Ran Midway Fishing Tool 2-7/8" socket and bumper sub on 2-7/8" tubing.

1/12

Shut-in - Sunday.

1969

1/13

Took hold of fish. Moved fish up hole approximately 6' and slipped off. Pulled tubing and fishing tools. Found ball of wax or asphalt around socket.

1/14

Ran one joint of washpipe on 2-7/8" tubing to top of packer. Circulated hole. Used Dowell pump truck to spot 10 barrels of Toluene above packer. Worked washpipe up and down to agitate Toluene above packer.

1/15

Circulated mud around and pulled tubing. Laid down washpipe. Ran 2-7/8" socket, hydraulic jars and drill collars on 2-7/8" tubing. Caught fish and commenced jarring.

1/16

Jarred on packer without apparent success. Released socket and started out of hole.

1/17

Finished pulling out of hole. Had not released socket but had recovered 8-5/8" Brown H-2 packer and top half of safety joint. Ran Brown safety joint overshot and bumper sub on 2-7/8" tubing and took hold of fish. Unable to pull fish loose with 110,000#.

1/18

Rigged up McCullough wire line truck and ran 2-1/8" chemical tubing cutter but could not get below 8371'. Ran sinker bar, jars and paraffin knife to 8427'. Tools stuck in Otis sliding sleeve at 8371'. Worked loose and pulled out.

1/19

Shut-in - Sunday.

1/20

Ran McCullough 2-1/8" chemical tubing cutter but could not get below 8371'. Ran 65' of sinker bars with 2-3/16" gauge bar to 8400'. Reran 2-1/8" chemical tubing cutter and shot tubing off at 8387'.

1/21

Pulled tubing. Recovered 30 joints of 2-7/8" tubing plus 20' cut off. Ran bumper sub, 14' of washpipe and 6-5/8" positive casing scraper on 2-7/8" tubing. Worked over 12' stub and set on 6-5/8" Brown H-1 packer at 8402'. Used Dowell pump truck to spot 4 barrels of Toluene above packer.

1/22

Pulled tubing and tools. Ran Midway Fishing Tool Company's 2-7/8" tubing socket, hydraulic jars, bumper sub and 60' of drill collars and caught fish at 8387'. Jarred and worked fish with 120,000# pull.

1969
1/23

Packer drug slow until above 6-5/8" liner. Pulled out and laid down fishing tools. Recovered 6-5/8" packer and all 24 joints of 2-7/8" tubing tailpipe.

NOTE: A build up of asphalt or wax above the top packer and between packers was the cause of packers not releasing. Deposit was apparently caused by the leaching of the oil by the gas when commingled.

1/24

Ran bailer and found fill in liner at 8991'. Ran Midway 8-5/8" positive casing scraper to top of liner at 7472'. Pulled out and laid down 8-5/8" scraper. Ran 5-1/4" bit with Baker 6-5/8" casing scraper, bumper sub and drill collar on 2-7/8" tubing.

1/25

Circulated mud from top of liner to remove gas. Ran in to 8904' and circulated to condition mud.

1/26

Shut-in - Sunday.

1/27

Used Midway's power swivel and cleaned out liner from 8904' to bottom at 9232'.

1/28

Pulled tubing and laid down tools. Made up 2-7/8" tubing tailpipe and ran Brown Oil Tool 6-5/8" "Husky" H-1 and 8-5/8" "Husky" H-2 hydraulic packers on 2-7/8" tubing.

1/29

Landed 2-7/8" 6.4#, N-80, National seal-lock tubing at 9170' with H-1 packer at 8250' and H-2 packer at 7350'. Ran 2-3/8" 4.6#, J-55, National seal-lock tubing equipped with six 2-3/8" Camco gas lift mandrels. Landed 2-3/8" tubing in H-2 packer at 7350' with gas lift mandrels at 7312', 7206', 6852', 6502', 6026' and 4401'. Tore out B.O.P. equipment and installed Xmas tree.

1/30

Displaced mud from hole with crude oil. Set H-1 and H-2 packers hydraulically. Rigged down and moved out.

1/31

Flowing both Upper (oil) and Lower (gas) zones to clean up.

2/1

Initial Production:

Upper Zone: 6 hours gas lift, 440 B/D gross oil, 2.0% cut, 431 B/D net oil, 1220 Mcf per day gas, 2831 Gas-Oil Ratio, 40/64" bean, Tubing Pressure 250 psi, Casing Pressure 600 psi.

1969
2/5

Initial Production:

- Lower Zone: 4 hours flowed 8908 Mcf per day gas, 344 B/D gross oil, 8% cut, 317 B/D net oil, 28,200 Gas-Oil Ratio, Tubing Pressure 1140 psi.
- 2/6 thru 3/2 Both zones produced normally until March 3, 1969 when H-1 packer failed allowing communication between oil zone and gas zone.
- 3/3 Moved in and rigged up Blackwell and Sundae, Inc. well servicing rig. Circulated mud to kill well.
- 3/4 Removed Xmas tree and installed B.O.P. equipment. Worked 2-3/8" tubing to release from H-2 dual packer. Pulled 2-3/8" tubing and laid down gas lift mandrels. Attempted to release H-2 packer without success.
- 3/5 Rotated tubing to release packer and pulled to 140,000#. Packer pulled loose on second attempt at 130,000#. Pulled 2-7/8" tubing and recovered packer. Tubing had backed off at safety joint immediately below H-2 packer. Ran Brown safety joint overshot and caught fish. Pulled H-1 packer loose with 115,000#.
- 3/6 Pulled 2-7/8" tubing and laid down H-1 packer. Packer failure appeared to be caused by failure of top slips to set properly. No wear or dullness could be noted on the slips. When the differential pressure between gas zone and oil zone became sufficient to move the packer upward, the slips failed to hold and the packing elements ruptured.
- Ran Baker Model "D" 6-5/8" packer on Welex wire line and set packer at 8189'. Picked up 20 joints (611') of 2-3/8" 4.6#, J-55, Security flushjoint tubing.
- 3/7 Ran 2-3/8" flushjoint tailpipe, Baker seal nipples and locator sub, and Brown Oil Tool "Husky" H-2 packer on 2-7/8" 6.4#, N-80, National seal-lock tubing. Landed tubing with tailpipe at 8800', seal nipples in Model "D" packer at 8189' and H-2 packer, unseated, at 7265'. Ran 2-3/8" 4.6#, J-55, National seal-lock tubing equipped with five 2-3/8" Camco "KBM" gas lift mandrels. Spaced out and landed 2-3/8" tubing in H-2 packer at 7265' with gas lift mandrels at 7199', 6847', 6512', 6017' and 4419'. Removed B.O.P. equipment and installed Xmas tree.
- 3/8 Ran Brown Oil Tool setting plug in 2-3/8" tubing with Occidental's wire line equipment. Pressured 2-3/8" tubing to hydraulically set H-2 packer. Unable to retrieve setting plug after setting packer. Dropped McKinley wire line cutter, but failed to cut line. Ran sinker bars and jars on rig sandline. Tagged cutter at 6933' and stuck sandline tools. Unable to free tools. Pulled sandline in two. Removed Xmas tree and installed B.O.P. equipment.

MAY 18 1970

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INGLEWOOD, CALIFORNIA

OCCIDENTAL PETROLEUM CORPORATION
"West Pico" 12 - Redrill #1
Section 30, T. 1 S., R. 14 W., S.B.B. & M.

CORRECTED19693/9

Shut-in - Sunday.

3/10

Pulled 2-3/8" tubing and stripped out sandline and piano wire line in 60' lengths.

3/11

Ran two-prong wire line spear on 2-3/8" tubing to top of packer and rotated in attempt to retrieve any remaining piano wire and wire line tools. Pulled 2-3/8" tubing. No recovery. Rotated 2-7/8" tubing to release H-2 packer. Attempted to pull packer loose but tubing collar jumped pin just below tubing hanger.

3/12

Ran Johnston Oil Tool 2-7/8" socket and caught fish. Pulled tubing in two and recovered 6' sub. Reran socket, caught fish and pulled collar in two losing it in the hole. Reran socket, caught fish with solid hold. Attempted to release packer with rotation and pull without success.

3/13

Ran McCullough 2-1/8" chemical tubing cutter on wire line. Unable to get below 7171'. Cut 2-7/8" tubing at 7161'. Pulled tubing. Recovered 231 joints plus 10' cutoff. The joint above the cutoff was severely kinked. Ran 2-7/8" tubing socket, drill collars, hydraulic jars and accelerator on 2-7/8" tubing and took hold of fish at 7161'. Hydraulic jars would not operate. Released fish and pulled tubing.

3/14

Replaced hydraulic jars and reran tubing. Took hold of fish at 7161' and jarred with 100,000# without success. Unable to move fish. Released socket.

3/15

Pulled tubing. Reran socket with full opening bumper sub and took hold of fish at 7161'. Ran McCullough chemical tubing cutter on wire line to cut tubing below H-2 packer. Could not get below safety joint immediately below packer. Pulled cutter without shooting. Ran 6' of 80 grain per foot primer cord shot across packer while pulling 110,000# tension on tubing at the surface. Packer would not pull loose. Ran chemical cutter and shot in packer at 7264' in an attempt to cut packer mandrel to release packer. Pulled 120,000# on tubing but packer would not move. Shut well in for Sunday with 100,000# tension on tubing.

3/16

Shut-in - Sunday.

3/17

Pulled 125,000# without moving packer. Rotated and worked tubing without success. Ran McCullough chemical cutter and attempted to cut packer mandrel with no apparent success. Ran another chemical cutter and cut 2-7/8" tubing above packer at 7234'. Recovered 20' cutoff, one full joint and 10' cutoff. Ran 14' - 1-1/4" stinger, equipped with barbs to catch piano wire, on 2-7/8" tubing to top of packer. Rotated and circulated in an attempt to clean debris and wire off packer.

OCCIDENTAL PETROLEUM CORPORATION

"West Pico" 12 - Redrill #1

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3/18

Pulled tubing. No recovery on spear and no indication of having contacted wire or junk. Ran 2-7/8" tubing socket with Johnston Oil Tool Company's hydraulic liner puller on 2-7/8" tubing and took hold of fish at 7234'. Actuated hydraulic puller with pump pressure in progressive increments to the equivalent of 182,000# (at 100% efficiency). Tubing parted below hydraulic puller.

3/19

Pulled tubing and recovered 12' piece of 2-7/8" tubing necked down to uniform 2-3/16" I.D. at break. Ran 2-7/8" tubing socket and full opening bumper sub and took hold of fish at 7246'. Ran McCullough chemical cutter and made third cut in packer mandrel, but would not come loose. Ran another chemical cutter and cut 2-7/8" tubing at 7251' to obtain full opening clean cut on tubing.

3/20

Pulled tubing and recovered 5' of cut off tubing. Ran 2-7/8" tubing socket on 2-7/8" tubing and took hold of fish at 7251'. Ran McCullough chemical cutter and made fourth attempt to cut packer mandrel. Could not pull packer loose.

3/21

Ran McCullough chemical cutter equipped with 3-1/2" tubing cutting charge and made fifth attempt to cut packer mandrel. Worked pipe with 120,000# pull, but could not pull loose. Released from fish and pulled out of hole. Laid down all fishing tools and all damaged tubing.

3/22

Ran good 2-7/8" and 2-3/8" tubing back in well. Landed tubing hanging open-ended. Removed B.O.P. equipment and installed Xmas tree. Shut in awaiting drilling rig.

3/23

Rigged down well servicing rig and moved out.

3/24 thru
3/26

Well stood idle.

3/27

Moved drilling rig from "West Pico" 23 and rigged up on "West Pico" 12. Removed Xmas tree and installed B.O.P. equipment.

3/28

Pulled 2-3/8" and 2-7/8" tubing. Ran 2-7/8" overshot with jars and drill collars and took hold of fish at 7253'. Worked and jarred fish.

3/29

Pulled out with 3' piece of 2-7/8" tubing. Ran mill socket and milled over 2-7/8" tubing. Pulled out with no recovery. Ran Servco mill and milled on fish from 7257' to 7258'. Pulled out.

OCCIDENTAL PETROLEUM CORPORATION

"West Pico" 12 - Redrill #1

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3/30

Ran impression block. Ran Servco mill and milled from 7258' to 7259'. Ran socket but could not get over fish. Ran Servco mill and milled from 7259' to 7260'.

3/31

Ran impression block. Reran socket but could not get over fish. Ran 4-1/4" mill with 4" grapple socket. Took hold of fish.

4/1

Pulled out with no recovery. Ran 3-3/4" socket and took hold of fish. Jarred and pulled on fish. Pulled off with no recovery. Ran washover pipe and shoe. Circulated and conditioned mud to increase viscosity. Milled over fish from 7259' to 7263'.

4/2

Ran washover mill and washed over junk. Mill torqueing up. Could not mill below 7263'. Ran Cavins junk snatcher. Opened hydrostatic junk snatcher and pulled out. Ran 3-1/2" grapple overshot.

4/3

No recovery with overshot. Ran washover shoe but could not go below 7263'. Ran 7-5/8" Servco concave mill and junk sub. Milled from 7258' to 7263'.

4/4

Ran Cavins hydrostatic junk snatcher twice with good recovery each time.

4/5

Ran Cavins junk snatcher twice and cleaned off top of fish. Ran washover mill and milled from 7262' to 7265'. Changed washover mills.

4/6

Milled over packer from 7265' to 7267'.

4/7

Ran die collar and worked over fish. Pulled 20,000# and stripped off fish. Reran die collar and pulled off again with 15,000# pull. Ran 7-5/8" washover mill and milled approximately 4" before torqueing up. Pulled out.

4/8

Reran washover shoe and milled from 7267' to 7269'. Pulled out recovering H-2 packer and 29 joints of 2-7/8" tubing with Baker seal nipple assembly but left 20 joints (592') of 2-3/8" 4.6#, J-55, Security flushjoint tubing in hole below Baker Model "D" packer.

4/9

Ran 5-1/2" magnet and recovered small pieces of metal on top of Baker Model "D" packer at 8171'. Ran open-ended drill pipe to 8170' and backscuttled to clean hole. Ran bit and casing scraper and cleaned 8-5/8" casing. Ran 8-5/8" Halliburton packer on drill pipe. Set packer at 7350' and pressure tested casing above packer with 1000 psi for 15 minutes without loss. (*Found packer at 8171' instead of 8189'.)

1969

4/10

Ran 5.625" gauge ring and junk pusher on Welex wireline. Tools stopped on top of 6-5/8" liner at 7472'. Ran 5-5/8" bit, Reed junk sub and 6-5/8" casing scraper. Reran gauge ring again but stopped at top of liner. Ran 5-1/2" magnet and recovered small pieces of metal.

4/11

Ran 2-7/8" tubing stinger on drill pipe and stabbed into Model "D" packer at 8171'.* Pulled out. Ran casing scraper to top of liner. Circulated and conditioned mud. Ran 6-5/8" Otis Perma-trieve packer on Welex wireline and set at 8166' immediately above damaged Model "D" at 8171'. (*Packer found at 8171' instead of 8189'.)

4/12

Ran one joint of 2-3/8" 4.6#, J-55, National seal-lock tubing stinger, Otis seal nipple assembly, Otis 2-7/8" Type "XO" sliding sleeve, Brown Oil Tool 2-7/8" "CC" safety joint and Otis 8-5/8" Type "RDH" dual packer on 236 joints of 2-7/8" 6.4#, N-80, National seal-lock tubing and landed with tailpipe at 8198.69', seal nipple in packer at 8166', "XO" sleeve at 8125.71', safety joint at 7354.05' and "RDH" packer at 7343.22'.

Ran 2-3/8" 4.6#, J-55, National seal-lock tubing with six Camco "KBM" gas lift mandrels and Merla gas lift valves and landed in "RDH" packer at 7343.22' with mandrels 2723.64', 4500.92', 5594.18', 6377.42', 6976.59' and 7296.81'.

TUBING DETAIL

Long String: (Gas Zone)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
1	2-3/8" 4.6#, J-55, National seal-lock tubing with bottom 1/2' perforated and bullnosed	8198.69'	8168.40'	30.29'
	2-3/8" National seal-lock x 2-3/8" E.U. 8 round thread crossover	8168.40'	8167.75'	.65'
	Otis sealing assembly for Perma-trieve packer (5' seals)	8167.75'	8161.16'	6.59'
	2-7/8" E.U. 8 round thread x 2-7/8" National seal-lock crossover	8161.16'	8160.00'	1.16'
1	2-7/8" 6.4#, N-80, National seal-lock tubing	8160.00'	8129.73'	30.27'
	2-7/8" National seal-lock x 2-7/8" E.U. 8 round thread crossover	8129.73'	8128.73'	1.00'
	Otis Type "XO" sliding sleeve valve	8128.73'	8125.71'	3.02'
	2-7/8" E.U. 8 round thread x 2-7/8" National seal-lock crossover	8125.71'	8124.44'	1.27'
25	2-7/8" 6.4#, N-80, National seal-lock tubing	8124.44'	7356.06'	768.38'

(Continued)

30

1969
 4/12

(Continued)

TUBING DETAIL (Continued)

Long String: (Continued)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	2-7/8" National seal-lock x 2-7/8" E.U. 8 round thread crossover	7356.06'	7355.48'	.58'
	Brown Oil Tools "CC" safety joint	7355.48'	7354.05'	1.43'
	2-7/8" E.U. 8 round thread pup joint	7354.05'	7349.77'	4.28'
	Otis 8-5/8" "RDH" 2-7/8" x 2-3/8" hydraulic dual packer	7349.77'	7343.22'	6.55'
	2-7/8" E.U. 8 round thread x 2-7/8" National seal-lock pup joint cross- over	7343.22'	7340.27'	2.95'
236	2-7/8" 6.4#, N-80, National seal- lock tubing	7340.27'	75.55'	7264.72'
	2-7/8" 6.4#, N-80, National seal- lock pup joint	75.55'	67.39'	8.16'
	2-7/8" 6.4#, N-80, National seal- lock pup joint	67.39'	65.24'	2.15'
	2-7/8" 6.4#, N-80, National seal- lock pup joint	65.24'	61.08'	4.16'
	2-7/8" 6.4#, N-80, National seal- lock pup joint	61.08'	50.93'	10.15'
1	2-7/8" 6.4#, N-80, National seal- lock tubing	50.93'	20.50'	30.43'
	O.C.T. tubing hanger	20.50'	20.00'	.50'
	K.B. to Tubing Head	20.00'	0'	20.00'
264		Total Tubing Landed		8198.69'

Short String: (Oil Zone)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	Otis 2-3/8" Collet type latch stab-in	7343.22'	7338.22'	5.00'
	2-3/8" E.U. 8 round thread x 2-3/8" National seal-lock crossover	7338.22'	7337.15'	1.07'
1	2-3/8" 4.6#, J-55, National seal- lock tubing	7337.15'	7306.21'	30.94'
	2-3/8" KBM mandrel with Merla valve #6	7306.21'	7296.81'	9.40'
10	2-3/8" 4.6#, J-55, National seal- lock tubing	7296.81'	6985.85'	310.96'

(Continued)

1969
 4/12

(Continued)

TUBING DETAIL (Continued)

Short String: (Continued)

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	2-3/8" KBM mandrel with Merla valve #5	6985.85'	6976.59'	9.26'
19	2-3/8" 4.6#, J-55, National seal-lock tubing	6976.59'	6386.79'	589.80'
	2-3/8" KBM mandrel with Merla valve #4	6386.79'	6377.42'	9.37'
25	2-3/8" 4.6#, J-55, National seal-lock tubing	6377.42'	5603.48'	773.94'
	2-3/8" KBM mandrel with Merla #3	5603.48'	5594.18'	9.30'
35	2-3/8" 4.6#, J-55, National seal-lock tubing	5594.18'	4510.29'	1083.89'
	2-3/8" KBM mandrel with Merla valve #2	4510.29'	4500.92'	9.37'
57	2-3/8" 4.6#, J-55, National seal-lock tubing	4500.92'	2732.98'	1767.94'
	2-3/8" KBM mandrel with Merla valve #1	2732.98'	2723.64'	9.34'
86	2-3/8" 4.6#, J-55, National seal-lock tubing	2723.64'	55.04'	2668.60'
	2-3/8" 4.6#, J-55, National seal-lock tubing pup joint	55.04'	53.97'	1.07'
	2-3/8" 4.6#, J-55, National seal-lock tubing pup joint	53.97'	47.91'	6.06'
1	2-3/8" 4.6#, J-55, National seal-lock tubing	47.91'	16.39'	31.52'
	O.C.T. tubing hanger	16.39'	15.89'	.50'
	Slack in tubing	15.89'	20.00'	(-4.11')
	K.B. to Tubing Head	20.00'	0'	20.00'
234		Total Tubing Landed		7343.22'

Tubing was tested to 4000± psi with Delta External Hydraulic Tester.

(Note: Short string below packer as follows - bottom to top:
 Perforated and bullnosed pup joint (2-3/8") - 1.75'
 Otis ball catcher sub - .35'
 "N" nipple - .64'
 2-3/8" x 2-7/8" E.U. 8 round thread crossover) - .48'

(Continued)

28

1969
4/12

(Continued)

Removed B.O.P. equipment and installed Xmas tree.

4/13

Displaced drilling mud from hole with lease crude oil. Dropped ball into 2-3/8" tubing to hydraulically set "RDH" packer. Unable to set as 2-3/8" was not stabbed into "RDH" packer properly. Displaced oil from hole with mud. Removed Xmas tree and installed B.O.P. equipment. Restabbed 2-3/8" string into "RDH" packer and pressure tested with 500 psi. Removed B.O.P. equipment and installed Xmas tree.

4/14

Set "RDH" packer with hydraulic pressure. Ran wireline and closed "XO" sliding sleeve at 8126'. Displaced mud from well with lease crude.

4/15

Well on production at 2:30 a.m., April 15, 1969.

Production Tests:

Upper Zone: 4 hours flowing, 48/64" bean, 351 B/D gross oil, 3.4% cut, 339 B/D net oil, 961 Mcf/D gas, 2835 Gas-Oil Ratio, Tubing Pressure 480 psi, Casing Pressure 700 psi, 29.7° gravity.

Lower Zone: 4 hours flowing, 48/64" bean, 7332 Mcf/D gas, Tubing Pressure 1325 psi, Casing Pressure 700 psi.

5/13

Production After 28 Days:

Upper Zone: 24 hours flowing, 48/64" bean, 326 B/D gross oil, 0.6% cut, 324 B/D net oil, 27.0° gravity, 366 Mcf/D gas, Tubing Pressure 175 psi, 1130 Gas-Oil Ratio.

Lower Zone: 24 hours flowing, 48/64" bean, 7287 Mcf/D gas, Tubing Pressure 1200 psi, Packer.

MUD RECORD

WELL NO. "West Pico" 12 - Redrill #1

FIELD Beverly Hills

SECTION 30, T. 1 S., R. 14 W., S.B. B. & M.

COUNTY Los Angeles

DATE	DEPTH		WEIGHT LBS./CU. FT.		VISCOSITY SECONDS		WATER LOSS CC/30 MINUTES		SAND %		pH	SALINITY G/G	FILTER CAKE INCHES/32	OIL %
	FROM	TO	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH				
9- 7-68	--	8200	--	74	--	40	--	--	--	--	--	--	--	--
9- 9-68	--	8200	--	74	--	36	--	4.0	--	Trace	7.0	16,300	Film	12.0
9-10-68	--	8200	--	74	--	40	--	2.8	--	Trace	7.0	17,800	Film	10.0
9-11-68	--	8200	74	75	--	35	--	2.5	--	Trace	7.0	17,500	Film	8.0
REDRILL #1:														
9-12-68	7522	7590	--	75	--	37	--	3.6	--	Trace	7.0	17,500	Film	8.0
9-13-68	7590	7655	--	75	--	37	--	3.6	--	Trace	7.0	12,000	Film	8.0
9-14-68	--	7655	--	75.5	--	41	--	3.2	--	Trace	7.0	15,000	Film	8.0
9-15-68	7655	7810	74	75	40	60	--	3.0	--	Trace	7.0	15,000	Film	5.0
9-16-68	7810	7895	--	75	40	65	--	3.0	--	Trace	7.5	13,000	Film	8.0
9-17-68	7895	8021	--	75	40	45	--	3.5	--	Trace	7.5	12,500	Film	8.0
9-18-68	8021	8160	--	75	45	46	--	3.4	--	Trace	7.5	12,500	Film	8.0
9-19-68	8160	8333	75	76.5	45	46	--	3.0	--	Trace	7.5	12,500	1	8.0
9-20-68	8333	8568	76	76.5	45	50	--	3.5	--	Trace	7.5	12,500	1	13.0
9-21-68	8568	8677	75	76	45	50	--	3.4	--	Trace	7.5	12,000	1	10.0
9-22-68	8677	8800	--	75	46	48	--	3.5	--	Trace	7.0	12,000	1	9.0
9-23-68	8800	8898	--	75	46	47	--	3.0	--	Trace	7.0	12,000	1	10.0
9-24-68	8898	8998	75	76	45	46	--	2.0	--	Trace	7.0	11,500	Film	8.0
9-25-68	8998	9052	--	76	--	46	--	2.0	--	Trace	7.0	10,000	1	8.0
9-26-68	9052	9156	--	76	47	48	--	2.6	--	Trace	7.0	10,000	1	10.0
9-27-68	9156	9250	76	77	43	46	--	2.6	--	Trace	7.0	10,000	Film	10.0
9-28-68	--	9250	--	77	45	46	--	3.2	--	Trace	7.0	9,500	Film	9.0
9-29-68	--	9250	--	77	--	46	--	3.0	--	Trace	7.0	9,500	Film	7.0
9-30-68	--	9250	--	76	--	50	--	3.0	--	Trace	7.0	10,500	1	8.0
10- 1-68	--	9250	--	77	45	46	--	--	--	--	--	--	--	--
10- 2-68	--	9250	--	77	45	46	--	--	--	--	--	--	--	--
10- 3-68	--	9250	--	77	45	50	--	--	--	--	--	--	--	--
10- 5-68	--	9250	--	77	45	47	--	4.0	--	Trace	7.0	10,500	--	7.0

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MUD RECORD

WELL NO. "West Pico" 12 - Redrill #1

FIELD Beverly Hills

SECTION 30, T. 1 S., R. 14 W., S.B. B. & M.

COUNTY Los Angeles

DATE	DEPTH		WEIGHT LBS./CU. FT.		VISCOSITY SECONDS		WATER LOSS CC/30 MINUTES		SAND %		pH	SALINITY G/G	FILTER CAKE INCHES/32	OIL %
	FROM	TO	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH				
10-7-68	--	9250	--	74	--	40	--	4.0	--	Trace	7.0	--	11,000	7.0
10-8-68	--	9250	--	75	--	50	--	--	--	--	--	--	--	--
10-9-68	--	9250	--	75	48	50	--	--	--	--	--	--	--	--
10-10-68	--	9250	--	75	35	40	--	--	--	--	--	--	--	--
10-11-68	--	9250	--	75	--	40	--	--	--	--	--	--	--	--
10-12-68	--	9250	--	68	(Salt water)		--	--	--	--	--	--	--	--
10-13-68	--	9250	--	69	(Salt water)		--	--	--	--	--	--	--	--
10-14-68	--	9250	69	74	--	55	(Salt water)		--	--	--	--	--	--
10-17-68	--	9250	--	75	45	50	--	4.0	--	Trace	7.0	7,500	1	8.0
10-18-68	--	9250	--	75	--	45	--	4.0	--	Trace	7.0	7,500	1	8.0
10-19-68	--	9250	75	77	45	55	--	4.2	--	Trace	7.0	7,500	1	7.0
10-20-68	--	9250	--	76	--	50	--	4.0	--	Trace	7.0	7,500	1	7.0
10-21-68	--	9250	--	76	50	65	--	4.0	--	Trace	7.0	7,500	1	6.0
10-22-68	--	9250	75	77	65	70	--	4.0	--	Trace	7.0	7,500	1	6.0

Original Total Depth: 8200'.

Plugged: 8120-7522'.

Redrill #1 Total Depth: 9250'.

Plugs: None.

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BIT RECORD

Well No. "West Pico" 12 - Redrill #1

Field Beverly Hills

Section 30, T. 1 S., R. 14 W., S.B. B.&M.

County Los Angeles

Date	No. Run	Size	Make	Type	Regular	Jet Sizes	From	To	Footage	Hours Run	Condition
9-10-68	H.O. 1	12"	Hole Opener				7512	7572	60		Opened hole.
9-11-68	1	7-5/8"	Globe	SS3J		1/2" (3)	7513	7522	9	1/2	Drilled out cement plug.
REDRILL #1:											
9-12-68	1 RR	7-5/8"	Globe	SS3J		1/2" (3)	7522	7590	68	7	Dull
9-13-68	2	7-5/8"	Globe	SS3J		1/2" (3)	7590	7655	65	2-3/4	Medium dull
9-14-68	3	7-5/8"	Globe	SS3J		1/2" (3)	7655	7655	0		Locked cone.
9-15-68	4	7-5/8"	Globe	SS3J		1/2" (3)	7655	7687	32	1-1/4	Good
9-16-68	2 RR	7-5/8"	Globe	SS3J		1/2" (3)	7687	7810	123	6	
9-16-68	5	7-5/8"	Globe	SS3J		1/2" (3)	7810	7895	85	7	Dull
9-17-68	6	7-5/8"	Reed	YT3J		1/2" (3)	7895	8021	126	9	Dull
9-18-68	7	7-5/8"	Security	S3TJ		1/2" (3)	8021	8160	139	5-1/4	Dull
9-19-68	8	7-5/8"	Hughes	OSC3J		1/2" (3)	8160	8328	168	7-1/2	Dull
9-20-68	9	7-5/8"	Smith	DTJ		1/2" (3)	8328	8568	240	16	Dull
9-21-68	10	7-5/8"	Globe	SS3J		1/2" (3)	8568	8646	78	6-1/4	Dull
9-22-68	11	7-5/8"	Security	S4TJ		1/2" (3)	8646	8713	67	6-1/2	Dull
9-23-68	12	7-5/8"	Hughes	OSC-1GJ		1/2" (3)	8713	8832	119	8-1/4	Dull
9-23-68	13	7-5/8"	Security	S4TJ		1/2" (3)	8832	8898	66	8-1/4	Dull
9-24-68	14	7-5/8"	Smith	DTJ		1/2" (3)	8898	8998	100	12-3/4	Dull
9-26-68	15	7-5/8"	Globe	ST3J		1/2" (3)	8998	9068	70	11-1/2	Dull
9-27-68	16	7-5/8"	Hughes	OSC3J		1/2" (3)	9068	9177	109	13-1/2	Dull
9-28-68	17	7-5/8"	Reed	YT3J		1/2" (3)	9177	9250	73	11-1/2	Dull
9-29-68	17 RR	7-5/8"	Reed	YT3J		1/2" (3)	7512	9250	1738		Reamed hole and circulated and conditioned mud.
10- 1-68	18	5-5/8"	Hughes	OSC-1GJ		1/2" (3)	7472	7502	30		Drilled out cement.
10- 3-68	Mill #1	5-5/8"	Baash-Ross				8307	8307	0		Milled on fish.

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BIT RECORD

Well No. "West Pico" 12 - Redrill #1

Field Beverly Hills

Section 30, T. 1 S., R. 14 W., S.B. B.&M.

County Los Angeles

Date	No. Run	Size	Make	Type	Regular	Jet Sizes	From	To	Footage	Hours Run	Condition
10- 4-68	19	5-5/8"	Hughes	OSC-1G			8368	8416	48		Drilled out plug, float collar and cleaned out. Circulated.
10- 5-68	18 RR	5-5/8"	Hughes	OSC-1G		1/2" (3)	Located top of cement at 8347'				and circulated and conditioned mud.
10- 8-68	20	5-5/8"	Reed	YTL	Regular		8320	8340	20		Drilled out retainer and cleaned out.
10- 9-68	21	5-5/8"	Hughes	OSC-1G	Regular		8250	8380	130		Drilled out retainer, cement and cleaned out.
10-11-68	22	5-5/8"	Hughes	OSC-1G	Regular		7690	8380	690		Drilled out retainer, cleaned out and circulated and conditioned mud.
10-12-68	22 RR	5-5/8"	Hughes with scraper	OSC-1G	Regular		7512	8318	806		Scraped shot holes and cleaned out
10-15-68	Mill #2	5-1/2" x 3-5/8"	Midway	Mill			7975	7975-1/2	1/2	3	Milled on fish
10-15-68	Mill #3	5-1/2" x 3-5/8"	Midway	Mill			7975	7975	0	2	Milled on fish. Did not make any footage.
10-17-68	Mill #4	5-1/2"	Junk Mill				Milled on fish at 7975'.				
10-18-68	Mill #5	5-1/2"	Junk Mill				Milled on fish at 7980'.				
10-18-68	Mill #6	5-1/2"	Junk Mill				Milled on fish at 7980'.				
10-19-68	23	5-5/8"	Hughes	OSC-1G	Regular		8380	8383	3		Cleaned out, drilled on retainer and circulated and conditioned mud.
10-20-68	23 RR	5-5/8"	Hughes	OSC-1G	Regular		8383	8384	1	5	Drilled on retainer.
10-20-68	24	5-5/8"	Hughes	OSC-1G	Regular		8384	8385	1	5-1/2	Drilled on retainer.
10-20-68	25	5-5/8"	Smith	V2	Regular		8385	8410	25	5	Drilled on retainer & junk
10-21-68	26	5-5/8"	Reed	YTL	Regular		8410	8411	1	6-1/4	Drilled on retainer & junk
10-21-68	27	5-5/8"	Smith	V2	Regular		8411	8412	1	7	Drilled on retainer & junk
10-22-68	28	5-5/8"	Hughes	OWC	Regular		8412	9232	820		Drilled on retainer and junk, drilled out port collar, cleaned out and circulated and conditioned mud.

037-20146

10/16/68

JOB NO.

SHEET NO. 1

Pacific Coast Energy Company L.P.

Directional Log/Re-drill

COM

ADDRESS

(037-20146)

WELL "West Pico" 12-Redrill LOCATION Beverly Hills

COUNTY Los Angeles

STATE California

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE	VERTICAL DEPTH		COURSE DEVIATION	DIRECTION OF DEVIATION	COURSE				TOTAL					
			COURSE	TOTAL			LATITUDE		DEPARTURE		LATITUDE		DEPARTURE			
							NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		
✓ 7526		3 30		6113 25		S 81 E					4,133	547 28	4,173	3062 30		
7563	43	4 00	42 90	6156 15	3 00	S 85 E		26	2 99			547 02		3065 31		
7624	61	4 15	60 83	6216 98	4 52	S 58 E		240	3 83			544 62		3069 14		
7655	31	4 45	30 89	6247 87	2 57	S 33 E		216	1 40			542 46		3070 54		
7715	60	6 00	59 67	6307 54	6 27	S 43 E		459	4 27			537 87		3074 81		
7746	31	6 00	30 83	6338 37	3 24	S 52 E		200	2 55			535 87		3077 36		
7778	32	6 00	31 82	6370 19	3 34	S 65 E		141	3 03			534 46		3080 39		
7810	32	6 15	31 81	6402 00	3 48	S 75 E		92	3 36			533 56		3083 75		22A
7842	32	7 30	31 73	6433 73	4 18	S 79 E		79	4 11			532 77		3087 86		
7893	53	8 45	52 38	6486 11	8 06	S 86 E		56	8 04			532 21		3095 90		
7926	31	9 45	30 55	6516 66	5 25	N 86 E	37		5 24			532 58		3101 14		
7957	31	10 45	30 46	6547 12	5 78	N 78 E	120		5 65			533 75		3106 79		
8033	76	11 45	74 41	6621 53	15 48	N 70 E	529		14 55			539 07		3121 34		
8065	32	11 45	31 33	6652 86	6 52	N 67 E	254		6 00			541 61	1	3127 34		
8096	31	13 00	30 21	6683 07	6 91	N 63 E	316		6 21			544 77		3133 55		
8160	64	15 30	61 67	6744 74	17 10	N 62 E	803		15 10			552 80		3148 65		
8177	27	15 30	26 02	6770 76	7 22	N 57 E	393		6 05			556 73		3154 70		
8219	32	16 00	30 76	6801 52	8 82	N 53 E	530		7 04			562 03		3161 74		

OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1 (037-20146)

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50
LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	V E R T I C A L		D E P T H SUB SEA	D E V I A T I O N		T O T A L C O O R D I N A T E S				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL		COURSE	BEARING	NORTH	SOUTH	EAST	WEST		
9,230	53		63.06	7,789.50	7,606.00-	3.48		1,101.18		3,626.00		1,135.74-	/ /
9232 9,240	63	02 45	62.93	7,799.49	7,615.99-	3.02	N15 00E	1,101.65	1100, 3626	3,626.13		1,136.21-	10/16/68
										N 4,133,723.24	E 4,173,278.77		
										3,626.25		1,136.67-	10/16/68
9,250TD	10	02 45	9.99	7,809.48	7,625.98-	.48	N15 00E	1,102.11		N 4,133,723.71	E 4,173,278.90		
										N 4,133,724.17	E 4,173,279.02		

CLOSURE 3,790.03 N73 00E

BOTTOM HOLE LAMBERT COORDINATES N 4,133,724.17 E 4,173,279.02

FINISH DATE 10/16/68

11/11

108215

OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	COURSE	BEARING	NORTH	SOUTH	EAST	WEST		
9,030	32		54.32	7,590.40	7,406.90-	7.17		1,084.77		3,618.42	1,119.33-	/ /
9,040	42		58.31	7,600.32	7,416.82-	7.53		1,085.87		N 4,133,706.83 3,618.94	E 4,173,271.19 1,120.43-	/ /
9,050	52		62.30	7,610.25	7,426.75-	7.88		1,086.98		N 4,133,707.93 3,619.45	E 4,173,271.71 1,121.54-	/ /
9,060	62		66.29	7,620.17	7,436.67-	8.24		1,088.08		N 4,133,709.04 3,619.96	E 4,173,272.22 1,122.64-	/ /
9,068	70	07 00	69.48	7,628.12	7,444.62-	8.53	N25 00E	1,088.97		N 4,133,710.14 3,620.38	E 4,173,272.73 1,123.53-	10/16/68
9,070	2		68.38	7,630.10	7,446.60-	8.38		1,089.17		N 4,133,711.03 3,620.48	E 4,173,273.15 1,123.73-	/ /
9,080	12		62.88	7,640.04	7,456.54-	7.62		1,090.18		N 4,133,711.23 3,620.99	E 4,173,273.25 1,124.74-	/ /
9,090	22		57.38	7,649.97	7,466.47-	6.85		1,091.18		N 4,133,712.24 3,621.50	E 4,173,273.76 1,125.74-	/ /
9,100	32		51.87	7,659.91	7,476.41-	6.09		1,092.19		N 4,133,713.24 3,622.02	E 4,173,274.27 1,126.75-	/ /
9,110	42		46.37	7,669.84	7,486.34-	5.32		1,093.20		N 4,133,714.25 3,622.53	E 4,173,274.79 1,127.76-	/ /
9,113	45	06 30	44.71	7,672.83	7,489.33-	5.09	N27 00E	1,093.51		N 4,133,715.26 3,622.69	E 4,173,275.30 1,128.07-	10/16/68
9,120	7		46.79	7,679.80	7,496.30-	5.17		1,094.08		N 4,133,715.57 3,622.98	E 4,173,275.46 1,128.64-	/ /
9,130	17		49.76	7,689.75	7,506.25-	5.29		1,094.89		N 4,133,716.14 3,623.39	E 4,173,275.75 1,129.45-	/ /
9,140	27		52.73	7,699.71	7,516.21-	5.41		1,095.71		N 4,133,716.95 3,623.81	E 4,173,276.16 1,130.27-	/ /
9,150	37		55.70	7,709.67	7,526.17-	5.53		1,096.52		N 4,133,717.77 3,624.22	E 4,173,276.58 1,131.08-	/ /
9,160	47		58.67	7,719.63	7,536.13-	5.65		1,097.34		N 4,133,718.58 3,624.64	E 4,173,276.99 1,131.90-	/ /
9,170	57		61.64	7,729.58	7,546.08-	5.77		1,098.15		N 4,133,719.40 3,625.05	E 4,173,277.41 1,132.71-	/ /
9,177	64	05 15	63.73	7,736.56	7,553.06-	5.86	N27 00E	1,098.73		N 4,133,720.21 3,625.35	E 4,173,277.82 1,133.29-	10/16/68
9,180	3		63.70	7,739.55	7,556.05-	5.73		1,098.86		N 4,133,720.79 3,625.38	E 4,173,278.12 1,133.42-	/ /
9,190	13		63.57	7,749.54	7,566.04-	5.28		1,099.33		N 4,133,720.92 3,625.51	E 4,173,278.15 1,133.89-	/ /
9,200	23		63.44	7,759.53	7,576.03-	4.83		1,099.79		N 4,133,721.39 3,625.63	E 4,173,278.28 1,134.35-	/ /
9,210	33		63.32	7,769.52	7,586.02-	4.38		1,100.25		N 4,133,721.85 3,625.75	E 4,173,278.40 1,134.81-	/ /
9,220	43		63.19	7,779.51	7,596.01-	3.93		1,100.72		N 4,133,722.31 3,625.88	E 4,173,278.52 1,135.28-	/ /
										N 4,133,722.78	E 4,173,278.65	

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL		DEPTH SUB SEA	DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE	
			COURSE	TOTAL		COURSE	BEARING	NORTH	SOUTH	EAST	WEST			
8,840	8		32.44	7,403.11	7,219.61-	6.45		1,055.36		3,607.01		1,089.92-	/ /	
8,850	18		33.77	7,412.92	7,229.42-	6.71		1,057.21		N 4,133,677.42	E 4,173,259.78	3,607.65	1,091.77-	/ /
8,860	28		35.09	7,422.73	7,239.23-	6.98		1,059.05		N 4,133,679.27	E 4,173,260.42	3,608.28	1,093.61-	/ /
8,869	37	11 15	36.29	7,431.56	7,248.06-	7.22	N19 00E	1,060.72		N 4,133,681.11	E 4,173,261.05	3,608.86	1,095.28-	10/16/68
8,870	1		36.02	7,432.54	7,249.04-	7.17		1,060.90		N 4,133,682.78	E 4,173,261.63	3,608.92	1,095.46-	/ /
8,880	11		33.32	7,442.34	7,258.84-	6.63		1,062.74		N 4,133,682.96	E 4,173,261.69	-3,609.55	1,097.30-	/ /
8,885								1063		N 4,133,684.80	E 4,173,262.32			
8,890	21		30.61	7,452.15	7,268.65-	6.10		1,064.59		N 4,133,686.65	E 4,173,262.96	3,610.19	1,099.15-	/ /
8,898	29	11 15	28.44	7,460.00	7,276.50-	5.66	N19 00E	1,066.07		N 4,133,688.13	E 4,173,263.47	3,610.70	1,100.63-	10/16/68
8,900	2		29.42	7,461.96	7,278.46-	5.82		1,066.40		N 4,133,688.46	E 4,173,263.59	3,610.82	1,100.96-	/ /
8,910	12		34.36	7,471.80	7,288.30-	6.62		1,068.07		N 4,133,690.13	E 4,173,264.20	3,611.43	1,102.63-	/ /
8,920	22		39.29	7,481.64	7,298.14-	7.42		1,069.74		N 4,133,691.80	E 4,173,264.80	3,612.03	1,104.30-	/ /
8,930	32		44.23	7,491.48	7,307.98-	8.23		1,071.42		N 4,133,693.48	E 4,173,265.41	3,612.64	1,105.98-	/ /
8,940	42		49.17	7,501.32	7,317.82-	9.03		1,073.09		N 4,133,696.82	E 4,173,266.63	3,613.25	1,107.65-	/ /
8,950	52		54.10	7,511.16	7,327.66-	9.83		1,074.76		N 4,133,697.83	E 4,173,267.00	3,613.86	1,109.32-	/ /
8,956	58	10 15	57.07	7,517.07	7,333.57-	10.32	N20 00E	1,075.77		N 4,133,698.35	E 4,173,267.24	3,614.23	1,110.33-	10/16/68
8,960	4		55.60	7,521.02	7,337.52-	9.92		1,076.29		N 4,133,699.65	E 4,173,267.85	3,614.47	1,110.85-	/ /
8,970	14		51.91	7,530.92	7,347.42-	8.89		1,077.59		N 4,133,700.95	E 4,173,268.45	3,615.08	1,112.15-	/ /
8,980	24		48.22	7,540.82	7,357.32-	7.87		1,078.89		N 4,133,702.25	E 4,173,269.06	3,615.68	1,113.45-	/ /
8,990	34		44.53	7,550.72	7,367.22-	6.85		1,080.19		N 4,133,703.30	E 4,173,269.55	3,616.29	1,114.75-	/ /
8,998	42	08 15	41.57	7,558.64	7,375.14-	6.03	N25 00E	1,081.24		N 4,133,704.62	E 4,173,270.16	3,616.78	1,115.80-	10/16/68
9,000	2		42.36	7,560.62	7,377.12-	6.10		1,081.46		N 4,133,705.72	E 4,173,270.68	3,616.88	1,116.02-	/ /
9,010	12		46.35	7,570.55	7,387.05-	6.45		1,082.56				3,617.39	1,117.12-	/ /
9,020	22		50.34	7,580.47	7,396.97-	6.81		1,083.66				3,617.91	1,118.22-	/ /

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	COURSE	BEARING	NORTH	SOUTH	EAST	WEST		
8,646	78	13 15	75.92	7,213.17	7,029.67-	17.88	N46 00E	1,022.63		3,585.88	1,057.19-	10/16/68
8,650	4		74.76	7,217.07	7,033.57-	17.58		1,023.28		N 4,133,644.69	E 4,173,238.65	/ /
8,660	14		71.86	7,226.82	7,043.32-	16.80		1,024.92		3,586.47	1,057.84-	/ /
8,670	24		68.96	7,236.57	7,053.07-	16.03		1,026.56		N 4,133,645.34	E 4,173,239.24	/ /
8,680	34		66.06	7,246.33	7,062.83-	15.26		1,028.20		3,587.94	1,059.48-	/ /
8,690	44		63.16	7,256.08	7,072.58-	14.48		1,029.84		N 4,133,646.98	E 4,173,240.71	/ /
8,700	54		60.26	7,265.83	7,082.33-	13.71		1,031.48		3,589.42	1,061.12-	/ /
8,706	60	12 45	58.52	7,271.69	7,088.19-	13.24	N42 00E	1,032.47		N 4,133,648.62	E 4,173,242.19	/ /
8,710	4		58.72	7,275.60	7,092.10-	13.20		1,033.13		3,590.90	1,062.76-	/ /
8,720	14		59.23	7,285.40	7,101.90-	13.09		1,034.78		N 4,133,650.26	E 4,173,243.67	/ /
8,730	24		59.74	7,295.20	7,111.70-	12.99		1,036.43		3,592.37	1,064.40-	/ /
8,740	34		60.25	7,305.00	7,121.50-	12.88		1,038.08		N 4,133,651.90	E 4,173,245.14	/ /
8,750	44		60.76	7,314.80	7,131.30-	12.77		1,039.74		3,593.85	1,066.04-	/ /
8,760	54		61.27	7,324.60	7,141.10-	12.66		1,041.39		N 4,133,653.54	E 4,173,246.62	/ /
8,769	63	11 30	61.73	7,333.42	7,149.92-	12.56	N34 00E	1,042.88		3,594.74	1,067.03-	10/16/68
8,770	1		60.73	7,334.40	7,150.90-	12.35		1,043.04		N 4,133,654.53	E 4,173,247.51	/ /
8,780	11		50.64	7,344.22	7,160.72-	10.16		1,044.70		3,595.18	1,067.69-	/ /
8,790	21		40.55	7,354.05	7,170.55-	7.97		1,046.36		N 4,133,655.19	E 4,173,247.95	/ /
8,800	31	10 45	30.46	7,363.88	7,180.38-	5.78	N27 00E	1,048.03		3,596.30	1,069.34-	/ /
8,810	10		30.75	7,373.68	7,190.18-	5.92		1,049.86		N 4,133,656.84	E 4,173,249.07	/ /
8,820	20		31.04	7,383.49	7,199.99-	6.06		1,051.69		3,597.41	1,070.99-	/ /
8,830	30		31.33	7,393.30	7,209.80-	6.21		1,053.52		N 4,133,658.49	E 4,173,250.18	/ /
8,832	32	11 15	31.39	7,395.27	7,211.77-	6.24	N20 00E	1,053.89		3,598.52	1,072.64-	/ /
										N 4,133,660.14	E 4,173,251.29	/ /
										3,599.64	1,074.30-	/ /
										N 4,133,661.80	E 4,173,252.41	/ /
										3,600.75	1,075.95-	/ /
										N 4,133,663.45	E 4,173,253.52	/ /
										3,601.76	1,077.44-	10/16/68
										N 4,133,664.94	E 4,173,254.53	/ /
										3,601.84	1,077.60-	/ /
										N 4,133,665.10	E 4,173,254.61	/ /
										3,602.68	1,079.26-	/ /
										N 4,133,666.76	E 4,173,255.45	/ /
										3,603.53	1,080.92-	/ /
										N 4,133,668.42	E 4,173,256.30	/ /
										3,604.38	1,082.59-	10/16/68
										N 4,133,670.09	E 4,173,257.15	/ /
										3,605.04	1,084.42-	/ /
										N 4,133,671.92	E 4,173,257.81	/ /
										3,605.71	1,086.25-	/ /
										N 4,133,673.75	E 4,173,258.48	/ /
										3,606.37	1,088.08-	/ /
										N 4,133,675.58	E 4,173,259.14	/ /
										3,606.51	1,088.45-	10/16/68
										N 4,133,675.95	E 4,173,259.28	/ /

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	SUB SEA	COURSE	BEARING	NORTH	SOUTH	EAST		
8,440	44		83.91	7,013.49	6,829.99-	24.05		986.17		3,550.91	1,020.73-	/ /
8,450	54		84.92	7,023.13	6,839.63-	24.08		988.13		N 4,133,608.23 3,552.67	E 4,173,203.68 1,022.69-	/ /
8,460	64		85.93	7,032.78	6,849.28-	24.11		990.08		N 4,133,610.19 3,554.43	E 4,173,205.44 1,024.64-	/ /
8,470	74		86.94	7,042.43	6,858.93-	24.14		992.04		N 4,133,612.14 3,556.19	E 4,173,207.20 1,026.60-	/ /
8,480	84		87.95	7,052.08	6,868.58-	24.17		993.99		N 4,133,614.10 3,557.95	E 4,173,208.96 1,028.55-	/ /
8,488	92	15 15	88.76	7,059.80	6,876.30-	24.20	N42 00E	995.56		N 4,133,616.05 3,559.36	E 4,173,210.72 1,030.12-	10/16/68
8,490	2		88.48	7,061.73	6,878.23-	24.10		995.92		N 4,133,617.62 3,559.70	E 4,173,212.13 1,030.48-	/ /
8,500	12		87.07	7,071.41	6,887.91-	23.58		997.75		N 4,133,617.98 3,561.40	E 4,173,212.47 1,032.31-	/ /
8,510	22		85.65	7,081.09	6,897.59-	23.06		999.58		N 4,133,619.81 3,563.11	E 4,173,214.17 1,034.14-	/ /
8,520	32		84.24	7,090.78	6,907.28-	22.54		1,001.42		N 4,133,621.64 3,564.82	E 4,173,215.88 1,035.98-	/ /
8,530	42		82.83	7,100.46	6,916.96-	22.02		1,003.25		N 4,133,623.48 3,566.53	E 4,173,217.59 1,037.81-	/ /
8,540	52		81.41	7,110.14	6,926.64-	21.49		1,005.08		N 4,133,625.31 3,568.23	E 4,173,219.30 1,039.64-	/ /
8,550	62		80.00	7,119.82	6,936.32-	20.97		1,006.91		N 4,133,627.14 3,569.94	E 4,173,221.00 1,041.47-	/ /
8,560	72		78.59	7,129.50	6,946.00-	20.45		1,008.74		N 4,133,628.97 3,571.65	E 4,173,222.71 1,043.30-	/ /
8,568	80	14 30	77.45	7,137.25	6,953.75-	20.03	N43 00E	1,010.21		N 4,133,630.80 3,573.02	E 4,173,224.42 1,044.77-	10/16/68
8,570	2		77.42	7,139.19	6,955.69-	19.98		1,010.52		N 4,133,632.27 3,573.34	E 4,173,225.79 1,045.08-	/ /
8,580	12		77.22	7,148.93	6,965.43-	19.70		1,012.12		N 4,133,632.58 3,574.99	E 4,173,226.11 1,046.68-	/ /
8,590	22		77.02	7,158.66	6,975.16-	19.43		1,013.71		N 4,133,634.18 3,576.64	E 4,173,227.76 1,048.27-	/ /
8,600	32		76.83	7,168.39	6,984.89-	19.15		1,015.30		N 4,133,635.77 3,578.29	E 4,173,229.41 1,049.86-	/ /
8,610	42		76.63	7,178.13	6,994.63-	18.88		1,016.89		N 4,133,637.36 3,579.94	E 4,173,231.06 1,051.45-	/ /
8,620	52		76.43	7,187.86	7,004.36-	18.60		1,018.49		N 4,133,638.95 3,581.59	E 4,173,232.71 1,053.05-	/ /
8,630	62		76.24	7,197.59	7,014.09-	18.33		1,020.08		N 4,133,640.55 3,583.24	E 4,173,234.36 1,054.64-	/ /
8,640	72		76.04	7,207.33	7,023.83-	18.05		1,021.67		N 4,133,642.14 3,584.89	E 4,173,236.01 1,056.23-	/ /
										N 4,133,643.73	E 4,173,237.66	/ /

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	COURSE	BEARING	NORTH	SOUTH	EAST	WEST		
8,240	21		30.03	6,821.62	6,638.12-	8.89		944.04		3,513.48	978.60-	/ /
8,250	31	16 45	29.68	6,831.20	6,647.70-	8.93	N48 00E	945.97		N 4,133,566.10 3,515.63	E 4,173,166.25 980.53-	10/16/68
8,260	10		29.69	6,840.78	6,657.28-	8.89		948.01		N 4,133,568.03 3,517.60	E 4,173,168.40 982.57-	/ /
8,270	20		29.70	6,850.37	6,666.87-	8.85		950.05		N 4,133,570.07 3,519.57	E 4,173,170.37 984.61-	/ /
8,280	30		29.71	6,859.96	6,676.46-	8.81		952.09		N 4,133,572.11 3,521.54	E 4,173,172.34 986.65-	/ /
8,281	31	16 30	29.72	6,860.92	6,677.42-	8.80	N44 00E	952.30		N 4,133,574.15 3,521.74	E 4,173,174.31 986.86-	10/16/68
8,290	9		29.97	6,869.53	6,686.03-	8.91		954.25		N 4,133,574.36 3,523.44	E 4,173,174.51 988.81-	/ /
8,300	19		30.26	6,879.11	6,695.61-	9.04		956.43		N 4,133,576.31 3,525.33	E 4,173,176.21 990.99-	/ /
8,310	29		30.55	6,888.68	6,705.18-	9.18		958.60		N 4,133,578.49 3,527.22	E 4,173,178.10 993.16-	/ /
8,313	32	16 45	30.64	6,891.56	6,708.06-	9.22	N41 00E	959.26		N 4,133,580.66 3,527.79	E 4,173,179.99 993.82-	10/16/68
8,320	7		34.75	6,898.26	6,714.76-	10.45		960.80		N 4,133,581.32 3,529.08	E 4,173,180.56 995.36-	/ /
8,330	17		40.64	6,907.83	6,724.33-	12.23		963.01		N 4,133,582.86 3,530.94	E 4,173,181.85 997.57-	/ /
8,340	27		46.52	6,917.41	6,733.91-	14.00		965.21		N 4,133,585.07 3,532.79	E 4,173,183.71 999.77-	/ /
8,350	37		52.41	6,926.99	6,743.49-	15.77		967.42		N 4,133,587.27 3,534.64	E 4,173,185.56 1,001.98-	/ /
8,360	47		58.29	6,936.56	6,753.06-	17.54		969.63		N 4,133,589.48 3,536.49	E 4,173,187.41 1,004.19-	/ /
8,370	57		64.18	6,946.14	6,762.64-	19.31		971.84		N 4,133,591.69 3,538.35	E 4,173,189.26 1,006.40-	/ /
8,380	67		70.06	6,955.71	6,772.21-	21.08		974.04		N 4,133,593.90 3,540.20	E 4,173,191.12 1,008.60-	/ /
8,390	77		75.94	6,965.29	6,781.79-	22.85		976.25		N 4,133,596.10 3,542.05	E 4,173,192.97 1,010.81-	/ /
8,396	83	16 45	79.48	6,971.04	6,787.54-	23.92	N40 00E	977.58		N 4,133,598.31 3,543.17	E 4,173,194.82 1,012.14-	10/16/68
8,400	4		79.88	6,974.89	6,791.39-	23.93		978.36		N 4,133,599.64 3,543.87	E 4,173,195.94 1,012.92-	/ /
8,410	14		80.89	6,984.54	6,801.04-	23.96		980.31		N 4,133,600.42 3,545.63	E 4,173,196.64 1,014.87-	/ /
8,420	24		81.90	6,994.19	6,810.69-	23.99		982.27		N 4,133,602.37 3,547.39	E 4,173,198.40 1,016.83-	/ /
8,430	34		82.90	7,003.84	6,820.34-	24.02		984.22		N 4,133,604.33 3,549.15	E 4,173,200.16 1,018.78-	/ /
										N 4,133,606.28	E 4,173,201.92	

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	SUB SEA	COURSE	BEARING	NORTH	SOUTH	EAST		
8,050	17		51.53	6,638.17	6,454.67-	10.72		918.36		3,471.76	952.92-	/ /
8,060	27		38.07	6,647.96	6,464.46-	7.92		919.16		N 4,133,540.42 3,473.64	E 4,173,124.53 953.72-	/ /
8,065	32	11 45	31.33	6,652.86	6,469.36-	6.52	N67 00E	919.56		N 4,133,541.22 3,474.58	E 4,173,126.41 954.12-	10/16/68
8,070	5		31.15	6,657.73	6,474.23-	6.59		920.06		N 4,133,541.62 3,475.58	E 4,173,127.35 954.62-	/ /
8,080	15		30.79	6,667.47	6,483.97-	6.73		921.08		N 4,133,542.12 3,477.58	E 4,173,128.35 955.64-	/ /
8,090	25		30.43	6,677.22	6,493.72-	6.88		922.10		N 4,133,543.14 3,479.58	E 4,173,130.35 956.66-	/ /
8,096	31	13 00	30.21	6,683.07	6,499.57-	6.97	N63 00E	922.72		N 4,133,544.16 3,480.79	E 4,173,132.35 957.28-	10/16/68
8,100	4		32.17	6,686.92	6,503.42-	7.60		923.22		N 4,133,544.78 3,481.73	E 4,173,133.56 957.78-	/ /
8,110	14		37.09	6,696.56	6,513.06-	9.18		924.47		N 4,133,545.28 3,484.09	E 4,173,134.50 959.03-	/ /
8,120	24		42.00	6,706.19	6,522.69-	10.76		925.73		N 4,133,546.53 3,486.45	E 4,173,136.86 960.29-	/ /
8,130	34		46.92	6,715.83	6,532.33-	12.35		926.98		N 4,133,547.79 3,488.81	E 4,173,139.22 961.54-	/ /
8,140	44		51.83	6,725.46	6,541.96-	13.93		928.24		N 4,133,549.04 3,491.17	E 4,173,141.58 962.80-	/ /
8,150	54		56.75	6,735.10	6,551.60-	15.51		929.49		N 4,133,550.30 3,493.53	E 4,173,143.94 964.05-	/ /
8,160	64	15 30	61.67	6,744.74	6,561.24-	17.10	N62 00E	930.75		N 4,133,551.55 3,495.89	E 4,173,146.30 965.31-	10/16/68
8,170	10		48.47	6,754.37	6,570.87-	13.45		932.20		N 4,133,552.81 3,498.13	E 4,173,148.66 966.76-	/ /
8,180	20		35.27	6,764.01	6,580.51-	9.79		933.66		N 4,133,554.26 3,500.37	E 4,173,150.90 968.22-	/ /
8,187	27	15 30	26.02	6,770.76	6,587.26-	7.22	N57 00E	934.68		N 4,133,555.72 3,501.95	E 4,173,153.14 969.24-	10/16/68
8,190	3		26.46	6,773.64	6,590.14-	7.37		935.17		N 4,133,556.74 3,502.61	E 4,173,154.72 969.73-	/ /
8,200	13		27.94	6,783.25	6,599.75-	7.87		936.83		N 4,133,557.23 3,504.81	E 4,173,155.38 971.39-	/ /
8,210	23		29.42	6,792.86	6,609.36-	8.37		938.49		N 4,133,558.89 3,507.01	E 4,173,157.58 973.05-	/ /
8,219	32	16 00	30.76	6,801.52	6,618.02-	8.82	N53 00E	939.99		N 4,133,560.55 3,508.99	E 4,173,159.78 974.55-	10/16/68
8,220	1		30.73	6,802.47	6,618.97-	8.82		940.18		N 4,133,562.05 3,509.20	E 4,173,161.76 974.74-	/ /
8,230	11		30.38	6,812.05	6,628.55-	8.85		942.11		N 4,133,562.24 3,511.34	E 4,173,161.97 976.67-	/ /
										N 4,133,564.17	E 4,173,164.11	

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	SUB SEA	COURSE	BEARING	NORTH	SOUTH	EAST		
7,860	18		38.74	6,451.51	6,268.01-	5.49		910.52	3,437.83		944.34-	/ /
7,870	28		42.63	6,461.40	6,277.90-	6.22		910.42	N 4,133,532.58	E 4,173,090.60	944.44-	/ /
7,880	38		46.53	6,471.28	6,287.78-	6.96		910.31	3,439.34	N 4,133,532.48	E 4,173,092.11	/ /
7,890	48		50.43	6,481.16	6,297.66-	7.69		910.21	3,440.86	N 4,133,532.37	E 4,173,093.63	/ /
7,895	53	08 45	52.38	6,486.11	6,302.61-	8.06	S86 00E	910.15	3,442.38	N 4,133,532.27	E 4,173,095.15	10/16/68
7,900	5		48.86	6,491.03	6,307.53-	7.61		910.20	3,443.14	N 4,133,532.21	E 4,173,095.91	/ /
7,910	15		41.82	6,500.89	6,317.39-	6.71		910.32	3,443.98	N 4,133,532.26	E 4,173,096.75	/ /
7,920	25		34.78	6,510.74	6,327.24-	5.80		910.44	3,445.67	N 4,133,532.38	E 4,173,098.44	/ /
7,926	31	09 45	30.55	6,516.66	6,333.16-	5.25	N86 00E	910.52	3,447.36	N 4,133,532.50	E 4,173,100.13	10/16/68
7,930	4		30.54	6,520.59	6,337.09-	5.31		910.67	3,448.38	N 4,133,532.58	E 4,173,101.15	/ /
7,940	14		30.51	6,530.41	6,346.91-	5.48		911.06	3,449.10	N 4,133,532.73	E 4,173,101.87	/ /
7,950	24		30.49	6,540.24	6,356.74-	5.66		911.44	3,450.93	N 4,133,533.12	E 4,173,103.70	/ /
7,957	31	10 45	30.46	6,547.12	6,363.62-	5.78	N78 00E	911.72	3,452.75	N 4,133,533.50	E 4,173,105.52	10/16/68
7,960	3		32.19	6,550.05	6,366.55-	6.16		911.92	3,454.03	N 4,133,533.78	E 4,173,106.80	/ /
7,970	13		37.97	6,559.84	6,376.34-	7.43		912.62	3,454.60	N 4,133,533.98	E 4,173,107.37	/ /
7,980	23		43.76	6,569.63	6,386.13-	8.71		913.32	3,456.51	N 4,133,534.68	E 4,173,109.28	/ /
7,990	33		49.54	6,579.42	6,395.92-	9.99		914.01	3,458.43	N 4,133,535.38	E 4,173,111.20	/ /
8,000	43		55.32	6,589.22	6,405.72-	11.26		914.71	3,460.34	N 4,133,536.07	E 4,173,113.11	/ /
8,010	53		61.10	6,599.01	6,415.51-	12.54		915.40	3,462.26	N 4,133,536.77	E 4,173,115.03	/ /
8,020	63		66.89	6,608.80	6,425.30-	13.82		916.10	3,464.17	N 4,133,537.46	E 4,173,116.94	/ /
8,030	73		72.67	6,618.59	6,435.09-	15.09		916.80	3,466.09	N 4,133,538.16	E 4,173,118.86	/ /
8,033	76	11 45	74.41	6,621.53	6,438.03-	15.48	N70 00E	917.01	3,468.00	N 4,133,538.86	E 4,173,120.77	10/16/68
8,040	7		64.99	6,628.38	6,444.88-	13.52		917.56	3,468.58	N 4,133,539.07	E 4,173,121.35	/ /
									3,469.89	N 4,133,539.62	E 4,173,122.66	/ /

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	SUB SEA	COURSE	BEARING	NORTH	SOUTH	EAST		
7,670	15		38.08	6,262.78	6,079.28-	3.49		919.26		3,418.85	935.60-	/ /
7,680	25		42.88	6,272.73	6,089.23-	4.11		918.49		N 4,133,541.32 3,419.56	E 4,173,071.62 936.37-	/ /
7,690	35		47.67	6,282.67	6,099.17-	4.72		917.73		N 4,133,540.55 3,420.27	E 4,173,072.33 937.13-	/ /
7,700	45		52.47	6,292.62	6,109.12-	5.34		916.96		N 4,133,539.79 3,420.99	E 4,173,073.04 937.90-	/ /
7,710	55		57.27	6,302.56	6,119.06-	5.96		916.20		N 4,133,539.02 3,421.70	E 4,173,073.76 938.66-	/ /
7,715	60	06 00	59.67	6,307.54	6,124.04-	6.27	S43 00E	915.81		N 4,133,538.26 3,422.06	E 4,173,074.47 939.05-	10/16/68
7,720	5		55.02	6,312.51	6,129.01-	5.79		915.49		N 4,133,537.87 3,422.47	E 4,173,074.83 939.37-	/ /
7,730	15		45.72	6,322.45	6,138.95-	4.81		914.85		N 4,133,537.55 3,423.29	E 4,173,075.24 940.01-	/ /
7,740	25		36.42	6,332.40	6,148.90-	3.83		914.21		N 4,133,536.91 3,424.11	E 4,173,076.06 940.65-	/ /
7,746	31	06 00	30.83	6,338.37	6,154.87-	3.24	S52 00E	913.82		N 4,133,536.27 3,424.61	E 4,173,076.88 941.04-	10/16/68
7,750	4		30.95	6,342.34	6,158.84-	3.25		913.65		N 4,133,535.88 3,424.98	E 4,173,077.38 941.21-	/ /
7,760	14		31.26	6,352.29	6,168.79-	3.28		913.21		N 4,133,535.71 3,425.93	E 4,173,077.75 941.65-	/ /
7,770	24		31.57	6,362.23	6,178.73-	3.31		912.77		N 4,133,535.27 3,426.88	E 4,173,078.70 942.09-	/ /
7,778	32	06 00	31.82	6,370.19	6,186.69-	3.34	S65 00E	912.41		N 4,133,534.83 3,427.64	E 4,173,079.65 942.45-	10/16/68
7,780	2		31.82	6,372.17	6,188.67-	3.34		912.36		N 4,133,534.47 3,427.85	E 4,173,080.41 942.50-	/ /
7,790	12		31.82	6,382.11	6,198.61-	3.39		912.08		N 4,133,534.42 3,428.90	E 4,173,080.62 942.78-	/ /
7,800	22		31.82	6,392.05	6,208.55-	3.43		911.80		N 4,133,534.14 3,429.95	E 4,173,081.67 943.06-	/ /
7,810	32	06 15	31.81	6,402.00	6,218.50-	3.48	S75 00E	911.51		N 4,133,533.86 3,431.00	E 4,173,082.72 943.35-	10/16/68
7,820	10		31.79	6,411.91	6,228.41-	3.69		911.26		N 4,133,533.57 3,432.28	E 4,173,083.77 943.60-	/ /
7,830	20		31.76	6,421.83	6,238.33-	3.91		911.01		N 4,133,533.32 3,433.56	E 4,173,085.05 943.85-	/ /
7,840	30		31.74	6,431.74	6,248.24-	4.13		910.76		N 4,133,533.07 3,434.84	E 4,173,086.33 944.10-	/ /
7,842	32	07 30	31.73	6,433.73	6,250.23-	4.18	S79 00E	910.71		N 4,133,532.82 3,435.10	E 4,173,087.61 944.15-	10/16/68
7,850	8		34.84	6,441.63	6,258.13-	4.76		910.63		N 4,133,532.77 3,436.31	E 4,173,087.87 944.23-	/ /
										N 4,133,532.69	E 4,173,089.08	

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OCCIDENTAL PETROLEUM CORP

WELL NUMBER W-P12RD1

DIRECTIONAL SURVEY DATA
COMPLETED WELLS

START DATE 10/16/68

K.B. ELEVATION 183.50

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH		DEVIATION		TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE		
			COURSE	TOTAL	SUB SEA	COURSE	BEARING	NORTH	SOUTH	EAST			WEST	
7,470	141		167.35	6,063.34	5,879.84-	10.70		925.70		3,406.54		929.16-	/ /	
7,480	151		172.01	6,073.32	5,889.82-	10.89		925.61		N 4,133,547.76	E 4,173,059.31	3,407.14	929.25-	/ /
7,490	161		176.66	6,083.30	5,899.80-	11.08		925.51		N 4,133,547.67	E 4,173,059.91	3,407.75	929.35-	/ /
7,500	171		181.32	6,093.28	5,909.78-	11.27		925.42		N 4,133,547.57	E 4,173,060.52	3,408.35	929.44-	/ /
7,510	181		185.98	6,103.26	5,919.76-	11.46		925.32		N 4,133,547.48	E 4,173,061.12	3,408.95	929.54-	/ /
7,520	191	03 30	190.64	6,113.25	5,929.75-	11.66	S81 00E	925.22		N 4,133,547.38	E 4,173,061.72	3,409.56	929.64-	10/16/68
7,530	10		156.29	6,123.22	5,939.72-	9.65		925.16		N 4,133,547.28	E 4,173,062.33	3,410.25	929.70-	/ /
7,540	20		121.93	6,133.20	5,949.70-	7.64		925.10		N 4,133,547.22	E 4,173,063.02	3,410.95	929.76-	/ /
7,550	30		87.57	6,143.18	5,959.68-	5.62		925.04		N 4,133,547.16	E 4,173,063.72	3,411.64	929.82-	/ /
7,560	40		53.21	6,153.15	5,969.65-	3.61		924.98		N 4,133,547.10	E 4,173,064.41	3,412.34	929.88-	/ /
7,563	43	04 00	42.90	6,156.15	5,972.65-	3.00	S85 00E	924.96		N 4,133,547.04	E 4,173,065.11	3,412.55	929.90-	10/16/68
7,570	7		44.95	6,163.13	5,979.63-	3.17		924.69		N 4,133,547.02	E 4,173,065.32	3,412.98	930.17-	/ /
7,580	17		47.89	6,173.10	5,989.60-	3.42		924.30		N 4,133,546.75	E 4,173,065.75	3,413.61	930.56-	/ /
7,590	27		50.83	6,183.07	5,999.57-	3.67		923.90		N 4,133,546.36	E 4,173,066.38	3,414.24	930.96-	/ /
7,600	37		53.77	6,193.04	6,009.54-	3.92		923.51		N 4,133,545.96	E 4,173,067.01	3,414.87	931.35-	/ /
7,610	47		56.71	6,203.01	6,019.51-	4.17		923.12		N 4,133,545.57	E 4,173,067.64	3,415.50	931.74-	/ /
7,620	57		59.65	6,212.99	6,029.49-	4.42		922.72		N 4,133,545.18	E 4,173,068.27	3,416.12	932.14-	/ /
7,624	61	04 15	60.83	6,216.98	6,033.48-	4.52	S58 00E	922.56		N 4,133,544.78	E 4,173,068.89	3,416.38	932.30-	10/16/68
7,630	6		55.04	6,222.95	6,039.45-	4.15		922.15		N 4,133,544.62	E 4,173,069.15	3,416.65	932.71-	/ /
7,640	16		45.38	6,232.92	6,049.42-	3.52		921.45		N 4,133,544.21	E 4,173,069.42	3,417.10	933.41-	/ /
7,650	26		35.72	6,242.88	6,059.38-	2.89		920.75		N 4,133,543.51	E 4,173,069.87	3,417.55	934.11-	/ /
7,655	31	04 45	30.89	6,247.87	6,064.37-	2.57	S33 00E	920.40		N 4,133,542.81	E 4,173,070.32	3,417.78	934.46-	10/16/68
7,660	5		33.28	6,252.84	6,069.34-	2.87		920.02		N 4,133,542.46	E 4,173,070.55	3,418.13	934.84-	/ /
										N 4,133,542.08	E 4,173,070.90			

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30-1s-14w

"West Pico" 12 (037-20146)

~~ACCIDENTAL PETROLEUM CORP~~

WELL NUMBER W-P12RD1

Beverly Hills

DIRECTIONAL SURVEY DATA COMPLETED WELLS

Redrill

START DATE 10/16/68

K.B. ELEVATION 183.50

Do NOT correspond To Loc. of WP21

LAMBERT COORDINATES N 4,132,622.06 E 4,169,652.77

SECTION BEARING 00 00

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL COURSE	DEPTH SUB SEA	DEVIATION COURSE	BEARING	TOTAL COORDINATES				TOTAL DISTANCE IN SECTION	READING DATE
							NORTH	SOUTH	EAST	WEST		
7,250	23		96.19	5,843.85	5,660.35-	8.54	927.04		3,391.84		927.82-	/ /
7,260	33		96.89	5,853.81	5,670.31-	8.47	927.04		N 4,133,549.10	E 4,173,044.61	927.82-	/ /
7,270	43		97.58	5,863.78	5,680.28-	8.40	927.04		3,392.62		927.82-	/ /
7,280	53		98.28	5,873.75	5,690.25-	8.34	927.04		N 4,133,549.10	E 4,173,045.39	927.82-	/ /
7,290	63		98.97	5,883.72	5,700.22-	8.27	927.04		3,393.41		927.82-	/ /
7,300	73		99.67	5,893.69	5,710.19-	8.20	927.04		N 4,133,549.10	E 4,173,046.18	927.82-	/ /
7,310	83		100.36	5,903.66	5,720.16-	8.13	927.04		3,394.19		927.82-	/ /
7,320	93		101.06	5,913.63	5,730.13-	8.07	927.04		N 4,133,549.10	E 4,173,046.96	927.82-	/ /
7,329	102	04 30	101.69	5,922.61	5,739.11-	8.00	X90 00E	927.04	3,394.98		927.82-	10/16/68
7,330	1		102.15	5,923.60	5,740.10-	8.01	927.04		N 4,133,549.10	E 4,173,047.75	927.82-	/ /
7,340	11		106.81	5,933.58	5,750.08-	8.21	926.94		3,395.76		927.82-	/ /
7,350	21		111.46	5,943.57	5,760.07-	8.40	926.84		N 4,133,549.10	E 4,173,048.53	927.82-	/ /
7,360	31		116.12	5,953.55	5,770.05-	8.59	926.75		3,396.54		927.82-	/ /
7,370	41		120.78	5,963.53	5,780.03-	8.78	926.65		N 4,133,549.10	E 4,173,049.31	927.82-	/ /
7,380	51		125.44	5,973.51	5,790.01-	8.97	926.56		3,397.33		927.82-	/ /
7,390	61		130.09	5,983.49	5,799.99-	9.16	926.46		N 4,133,549.10	E 4,173,050.10	927.82-	/ /
7,400	71		134.75	5,993.47	5,809.97-	9.36	926.37		3,398.04		927.82-	/ /
7,410	81		139.41	6,003.45	5,819.95-	9.55	926.27		N 4,133,549.10	E 4,173,050.81	927.82-	/ /
7,420	91		144.06	6,013.43	5,829.93-	9.74	926.18		3,398.10		927.82-	/ /
7,430	101		148.72	6,023.41	5,839.91-	9.93	926.08		N 4,133,549.10	E 4,173,050.87	927.82-	/ /
7,440	111		153.38	6,033.40	5,849.90-	10.12	925.99		3,398.70		927.82-	/ /
7,450	121		158.04	6,043.38	5,859.88-	10.31	925.89		N 4,133,549.00	E 4,173,051.47	928.02-	/ /
7,460	131		162.69	6,053.36	5,869.86-	10.51	925.80		3,399.30		928.02-	/ /
									N 4,133,548.90	E 4,173,052.07	928.11-	/ /
									3,399.90		928.11-	/ /
									N 4,133,548.81	E 4,173,052.67	928.21-	/ /
									3,400.51		928.21-	/ /
									N 4,133,548.71	E 4,173,053.28	928.30-	/ /
									3,401.11		928.30-	/ /
									N 4,133,548.62	E 4,173,053.88	928.40-	/ /
									3,401.71		928.40-	/ /
									N 4,133,548.52	E 4,173,054.48	928.49-	/ /
									3,402.32		928.49-	/ /
									N 4,133,548.43	E 4,173,055.09	928.59-	/ /
									3,402.92		928.59-	/ /
									N 4,133,548.33	E 4,173,055.69	928.68-	/ /
									3,403.52		928.68-	/ /
									N 4,133,548.24	E 4,173,056.29	928.78-	/ /
									3,404.13		928.78-	/ /
									N 4,133,548.14	E 4,173,056.90	928.87-	/ /
									3,404.73		928.87-	/ /
									N 4,133,548.05	E 4,173,057.50	928.97-	/ /
									3,405.33		928.97-	/ /
									N 4,133,547.95	E 4,173,058.10	929.06-	/ /
									3,405.94		929.06-	/ /
									N 4,133,547.86	E 4,173,058.71		

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

SEC. 3606 WELL

No. T 168-931

Mr. Eugene F. Reid, Agent
OCCIDENTAL PETROLEUM CORPORATION
5000 Stockdale Highway
~~Los Angeles~~ Bakersfield, California 93309

Inglewood, Calif.
September 17, 1968

DEAR SIR:

(037-20146)

Operations at well No. "West Pico" 12, Sec. 30, T. 1 S, R. 14 W, S.B. B & M.
Beverly Hills Field, in Los Angeles County, were witnessed
on September 11, 1968. Mr. G. Ledingham, Engineer, representative of the supervisor was present
from 2:45 p.m. to 3:00 p.m. There were also present N. Donoghue, Drilling Foreman

Present condition of well: 20" cem. 40'; 13-3/8" cem. 1224'; 8-5/8" cem. 7512', perf.
7394' WSO; 6-5/8" ld. 7476'-8125', perfs. 7572'-7962' & 7982'-8125', cut & pulled
fr. 7572'. TD 8200', plugged w/cem. 8120'-7513'.

The operations were performed for the purpose of testing the location and hardness of a cement
plug placed from 7572' to 7513' in the process of plugging back to redrill.

Mr. Donoghue reported:

1. The 6-5/8" casing was shot at 7572' and was pulled out of the hole.
2. On September 10, 1968, 36 sacks of cement mixed with 36 cubic feet of pozzolan D, 18% salt, 4% gel and 0.75% CFR-2 was pumped into the hole through 4" drill pipe hanging at 8120', filling to 7564'.
3. Cement was drilled out of the hole to 7572'.
4. On September 11, 1968, 67 sacks of cement mixed with 13 sacks of sand, 15% salt and 0.75% CFR-2 was pumped into the hole through 4" drill pipe hanging at 7572'.

THE ENGINEER NOTED THAT the cement plug at the reported depth of 7513' supported 1/4 of the weight of the drill pipe.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 7513' ARE APPROVED.

GL:nw

cc Company

E. E. KASLINE

E. R. MURPHY

State Oil and Gas Supervisor

By W. C. Bailey Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 168-1164

SEC. 3606 WELL

Mr. Eugene F. Reid, Agent
OCCIDENTAL PETROLEUM CORPORATION
5000 Stockdale Highway
~~XXXXXX~~ Bakersfield, California 93309

Inglewood, Calif.
August 29, 1968

(037-20146)

DEAR SIR:

Your proposal to redrill & deepen Well No. "West Pico" 12,
Section 30, T. 1 S, R. 14 W, S.B. B. & M., Beverly Hills Field, Los Angeles County,
dated Aug. 23, 1968, received Aug. 27, 1968, has been examined in conjunction with records filed in this office.
~~Present records show that the records and the proposal are as follows:~~

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
20" cem. 40'.

With reference to your notice our decision is as follows:

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS
the location and hardness of the cement plug.

RC:nw

cc Company

Blanket Bond

F. E. KASLINE, State Oil and Gas Supervisor

By Wm. C. Bailey Deputy
21

DIVISION OF OIL AND GAS

AUG 27 1968

Notice of Intention to ~~Deepen, Redrill, Plug or Alter Casing in~~ Well

This notice must be given before work begins; one copy only

INGLEWOOD, CALIFORNIA

Bakersfield, Calif. August 23, 19 68

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or altering casing in~~ Well No. "West Pico" 12 (037-20146)
(Cross out unnecessary words)

Sec. 30, T. 1 S., R. 14 W., S.B. B. & M.
Beverly Hills Field, Los Angeles County.

The present condition of the well is as follows:

- 1. Total depth. 8200'.
- 2. Complete casing record, including plugs:
 - 13-3/8" cemented at 1224'.
 - 8-5/8" 36# cemented at 7512'. W.S.O. 7394'.
 - 6-5/8" 24#, J-55, SFJ liner hung 7476' to 8125'.
 - Burns lead seal hanger. 60 mesh perforations.

Redrill and Deepen

MAP	MAP BOOK	CARDS	BOND	FORMS	
			B	114 ARG	121 ARG

3. Last produced. August 22, 1968 (Date) 521 (Oil, B/D) 0.2% ~~Water Cut~~ 696 (Gas Mcf/D)

The proposed work is as follows:

- 1. Kill well and install B.O.P.E.
- 2. Pull and lay down tubing.
- 3. Pull liner as deep as possible. Mill off top of liner if necessary so that at least 60' of open hole is below casing shoe.
- 4. Run tubing stinger to bottom and plug to shoe of 8-5/8" casing.
- 5. Wipe off top of plug. Division of Oil and Gas to witness location and hardness of cement plug.
- 6. Directionally redrill 7-5/8" hole to 9500'±.
- 7. Run 6-5/8" blank and perforated liner and cement to 8-5/8" shoe.

5000 Stockdale Highway
Bakersfield, California 93309

(Address)
805 327-7351

(Telephone No.)

OCCIDENTAL PETROLEUM CORPORATION

(Name of Operator)

By *[Signature]*
Vice President

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

CONFIDENTIAL DIVISION OF OIL AND GAS

ORIGINAL

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

Operator OCCIDENTAL PETROLEUM CORPORATION Well No. "West Pico" 12

Sec. 30, T. 1 S., R. 14 W., S.B. B. & M. Beverly Hills Field Los Angeles County.

Location From the intersection of the center lines of Pico Boulevard and Oakhurst, 106' North along the center

(Give location from property or section corner, or street center lines)

line of Oakhurst, thence 81' East at 90° angle. Elevation of ground above sea level 171 feet.

All depth measurements taken from top of Kelly Bushing (183.5' K.B.) which is 12.5 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date August 11, 1967

Signed Eugene F. Reid
Eugene F. Reid
Title Vice President and Agent
~~XXXXXXXXXXXX~~ Agent)

Charles C. Horace
(Engineer ~~XXXXXX~~)

W. R. Higdon
(Superintendent)

Commenced drilling May 23, 1967

GEOLOGICAL MARKERS

DEPTH

Completed drilling June 30, 1967

Total depth 8200' Plugged depth None

Junk None

DIVISION OF OIL AND GAS
RECEIVED

AUG 22 1967

INGLEWOOD, CALIFORNIA

Geologic age at total depth: Miocene

Commenced producing 6/29/67 Flowing/~~XXXXXX~~
(Date) (Cross out unnecessary words)

Name of producing zone Main Sand

Initial production
Production after 30 days

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	1431	28.5°	0.1%	614	625 psi	125 psi
Production after 30 days	1049	28.5°	0.2%	866	370 psi	1160 psi

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
20"	64.5'	Surface	Conductor						
13-3/8"	1224'	Surface	48#	New	Seamless	H-40	17-1/2"	700	
8-5/8"	7512'	Surface	36#	New	Seamless	N-80 & J-55	12-1/4"	700	
6-5/8"	8125'	7476.31'	24#	New	Seamless	J-55	7-5/8"	Hung	

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

6-5/8", 7476.31' to 8125'. Perforated from 8125' to 7981.63', 7961.63' to 7789.99' and 7747.97' to 7509.81' with 60 mesh, 24 rows, 2" slots, 6" centers. Machine cut.

Was the well directionally drilled? Yes Electrical Log Depths 1224' to 8208' (Schlumberger's measurements) (Attach Copy of Log)

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR OCCIDENTAL PETROLEUM CORPORATION, FIELD Beverly Hills

Well No. "West Pico" 12, Sec. 30, T. 1 S., R. 14 W., S.B. B. & M.

Date August 3, 19 67
 5000 Stockdale Highway
 Bakersfield, California 327-7351
(Address) (Telephone Number)

Signed *Eugene F. Reid*
 Eugene F. Reid
 Title Vice President and Agent
XXXXXXXXXXXX Agent

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

Gene Reid Drilling, Inc., Contractor

All measurements taken from K.B. which is 12.5' above ground (183.5' K.B.).

1967

5/23

Spudded at 10:15 a.m. Drilled 12-1/4" hole to 616'.

5/24

Drilled 12-1/4" hole from 616' to 790'. Pulled out. Ran in with 12-1/4" spud bit and oriented spud bit at 790'. Directionally drilled 12-1/4" hole from 790' to 1224'. Pulled out. Ran in with 17-1/2" hole opener and opened 12-1/4" hole to 17-1/2" to 147'.

5/25

Opened 12-1/4" hole to 17-1/2" from 147' to 1224'. Circulated and conditioned mud preparatory to running casing.

Ran 30 joints (including cut-off), 1226.00' on hook, of 13-3/8" 48#, H-40, new, seamless casing with Baker guide shoe at 1224', baffle plate at 1200' and ten B&W centralizers--two on shoe joint and one every 40' from shoe joint to 800'.

Joints	Description	From	To	Footage
	Baker guide shoe	1224.00'	1222.58'	1.42'
Short Joint	13-3/8" 48#, H-40, new, seamless, short T&C	1222.58'	1198.41'	24.17'
29	13-3/8" 48#, H-40, new, seamless,	1198.41'	+2.00'	1200.41'
30	Total Run			1226.00'
	Feet Above K.B.			2.00'
	Landing Point			1224.00'

Cemented with 600 sacks of Permanente Class "G" cement premixed with 4% gel followed by 100 sacks of neat Class "G" cement treated with 2% calcium chloride. Used one top and one bottom rubber plugs. Displaced cement with 1000 cubic feet of mud. Did not bump plugs. Had good cement returns to the surface. Cement in place at 7:00 p.m.

Landed 13-3/8" casing at 1224'.

1967

5/26

Welded O.C.T. 12" series 900 casing flange and tested weld with 650# for 30 minutes, O.K. Installed B.O.P. equipment. Tested C.S.O. with 1500# for 30 minutes, O.K. Ran in with 12-1/4" bit and located top of plug at 1070'. Tested drill pipe rams with 1500#, O.K. Drilled out plugs, baffle, cement and shoe from 1070' to 1224'. Drilled 12-1/4" hole from 1224' to 1280'. Pulled out. Ran in with 12-1/4" spud bit and oriented spud bit at 1280'. Directionally drilled 12-1/4" hole from 1280' to 1512'.

5/27

Directionally drilled 12-1/4" hole from 1512' to 2324'. Pulled out and laid down spud bit. Ran in with 12-1/4" bit and directionally drilled 12-1/4" hole from 2324' to 2515'.

5/28

Directionally drilled 12-1/4" hole from 2515' to 3704'. Pulled out.

5/29

Ran in with 12-1/4" bit with Dyna-Drill and oriented Dyna-Drill at 3704'. Directionally drilled 12-1/4" hole from 3704' to 3754'. Pulled out and laid down Dyna-Drill. Ran in with 12-1/4" bit and directionally drilled 12-1/4" hole from 3754' to 4115'. Lost 850' of wire line and survey tool in the hole. Commenced pulling out of hole.

5/30

Completed pulling out of hole. Bumper sub broke. Left two 7" drill collars, two 7" monels, float sub, 12-1/4" Driltrol and 12-1/4" bit in the hole. Total fish: 116'. Top of fish at 3999'. Bottom of fish at 4115'. Ran in with Baash-Ross overshot, bumper sub and jars and took hold of fish. Pulled out. Recovered all of the fish. Ran in with 12-1/4" bit to 3984' and circulated. Ran on in to 4115' and directionally drilled 12-1/4" hole from 4115' to 4352'.

5/31

Directionally drilled 12-1/4" hole from 4352' to 4905'.

6/1

Directionally drilled 12-1/4" hole from 4905' to 5418'. Installed Exploration Logging Unit at 5390'. Stuck pipe while switching pumps and preparing to pull. Bit 20' off bottom; pipe stretch indicated stuck at about 4000'.

6/2

Spotted oil and staged every 3 hours. Worked pipe. Did not come free. Ran free point indicator. Pipe stuck from 4325' to 1330'. Pulled out. Ran string shot and backed off at 1211'. Pulled out and recovered 12-3/4 stands of 4" drill pipe.

6/3

Ran in with Shaffer Wagner bumper sub and hydraulic jars and screwed onto fish. Circulated briefly but jumped pin on sub. Pulled out. Ran in with 7-5/8" Bowen socket with 9-1/4" lip guide, 5-1/4" grapple, packoff rubber, bumper sub and 5-1/16" drill collar. Got over fish and packed off. Circulated. Mixed 50 gallons mud lube and conditioned mud. Ran Dia-Log free point indicator and string shot and backed off at 4885'. Shot failed. Pulled out.

1967

6/4

Ran string shot and backed off at 4880' (one single above drill collars). Pulled out and recovered 3665' of drill pipe and 7-5/8" key seat wiper. Ran in with bumper sub and jars and screwed onto fish at 4880'. Jarred on fish and fish came loose. Pulled out. Recovered all of the fish. Ran in with 12-1/4" bit and reamed tight hole from 5288' to 5418'. Circulated and conditioned mud. Directionally drilled 12-1/4" hole from 5418' to 5462'.

6/5

Directionally drilled 12-1/4" hole from 5462' to 5979'.

6/6

Directionally drilled 12-1/4" hole from 5979' to 6268'. Pulled out and found bumper sub had parted. Left in the hole 12-1/4" bit, monel collar, Driltrol, three drill collars and mandrel off bumper sub.

6/7

Ran in with fishing tools and found top of fish at 5970'. Attempt to recover fish unsuccessful. Pulled out. Ran in with Baash-Ross socket with extension and worked over fish. Pulled out. Recovered all of the fish. Ran in with 12-1/4" bit to 6268' and circulated for 30 minutes; hole tight. Directionally drilled 12-1/4" hole from 6268' to 6348'.

6/8

Directionally drilled 12-1/4" hole from 6348' to 6738'.

6/9

Directionally drilled 12-1/4" hole from 6738' to 7012'.

6/10

Directionally drilled 12-1/4" hole from 7012' to 7290'. Commenced pulling out of hole. Worked pipe through tight spot at 4912'. Pipe pulling tight.

6/11

Continued pulling pipe out of hole. Pipe pulling tight. Worked pipe through tight hole at 1800'. Pipe pulled tight to 1575'. Worked pipe to 1563' and pipe stuck. Spotted oil and worked pipe without success. Ran in with Dia-Log free point indicator and string shot and backed off at 1072'. Pulled out. Ran in with seven 6" drill collars, bumper sub and jars and screwed into fish. Jarred on fish for 4-1/2 hours.

6/12

Jarred on fish. Pulled out and recovered four 6" x 30' drill collars. Ran in with Dia-Log free point indicator and string shot and backed off at 1204'. Pulled out. Ran in with Bowen jars and safety joint and screwed into fish at 1204'. Jarred on fish.

6/13

Jarred on fish. Fish did not come free. Pulled out. Ran in with 9" washpipe and washed over fish. Fish came free. Pulled out and recovered all of the fish. Ran in with 12-1/4" bit to 3627' and circulated.

6/14

Circulated at 3627'. Ran on in to 6950' and hit bridges. Cleaned out bridges and reamed continuously from 6950' to 7290'. Circulated and conditioned mud. Directionally drilled 12-1/4" hole from 7290' to 7526'.

1967
 6/15

Circulated. Pulled slowly out of tight hole. Pulled slowly into 13-3/8" casing. Ran back in to 7526' and circulated and conditioned mud preparatory to running logs. Pulled out.

Ran Schlumberger Induction-Electrical Log and recorded from 7524' to 1224' (Schlumberger's measurements).

Ran in with 12-1/4" bit to 7526' and circulated.

6/16

Circulated and conditioned mud preparatory to running casing. Pulled out.

Ran 176 joints, 7517.67' on hook, of 8-5/8" 36#, N-80 and J-55, new, seamless casing with Larkin guide shoe at 7512', Larkin differential collar at 7465.62', one B&W centralizer with KK-6 bows on shoe and one on each joint to 6300', one B&W centralizer with KK-6 bows every 30' from 6300' to 5700' and one B&W centralizer with KK-2 bows on collar of each joint from 5700' to 3900'. Total of 113 centralizers used.

Joints	Description	From	To	Footage
	Larkin guide shoe	7512.00'	7510.80'	1.20'
1	8-5/8" 36#, N-80, new, seamless, 8 round thread, long T&C, sand blasted	7510.80'	7467.65'	43.15'
	Larkin differential collar	7467.65'	7465.62'	2.03'
16	8-5/8" 36#, N-80, new, seamless, 8 round thread, long T&C, sand blasted	7465.62'	6787.42'	678.20'
109	8-5/8" 36#, N-80, new, seamless, 8 round thread, long T&C	6787.42'	2124.33'	4663.09'
50	8-5/8" 36#, J-55, new, seamless, 8 round thread, long T&C	2124.33'	+5.67'	2130.00'
176		Total Run		7517.67'
		Feet Above K.B.		5.67'
		Landing Point		7512.00'

Pumped in 250 cubic feet of Halliburton MF-1. Cemented with 700 sacks of Permanent Class "G" cement premixed with 0.75% CFR-2: First 500 sacks 117# slurry; last 200 sacks 125# slurry. Used one top and one bottom rubber plugs. Displaced cement with 2600 cubic feet of mud. Bumped plugs. Pressure range during displacement was 2000# to 2100#. Final pressure 2000#. Mixing time: 14 minutes. Displacing time: 45 minutes. Cement in place at 4:05 p.m.

Landed 8-5/8" casing at 7512'. Installed O.C.T. tubing head and tested with 1200#, O.K.

OCCIDENTAL PETROLEUM CORPORATION

"West Pico" 12

Section 30, T. 1 S., R. 14 W., S.B.B. & M.

1967
6/17

Re-installed B.O.P. equipment. Ran Sperry-Sun Gyro Survey to 2400'. Tested B.O.P. equipment with 1500#, O.K. Ran in with 7-5/8" bit to top of cement plugs and circulated and conditioned mud preparatory to running log.

Ran Go-Western Cement Bond Log with Sonic Spectrum and recorded from 7462' to 5950' (Go-Western's measurements). (Cement not set up.)

Stood cemented 5 hours.

6/18

Stood cemented 8 hours. Reran Go-Western Cement Bond Log; tool would not go to bottom. Pulled out. Ran in with 7-5/8" bit to top of cement plugs and circulated and conditioned mud. Pulled out. Reran Go-Western Cement Bond Log and tool failed to work. Pulled out.

Ran Go-Western Gamma Ray Log and recorded from 7465' to 7000' (Go-Western's measurements).

Ran Go-Western jet gun perforator and perforated four holes at 7394'. Pulled out.

W.S.O. (7394'): Ran Halliburton tester on dry 4" F.H. drill pipe. Set 7-3/8" packer at 7364' with 2-7/8" tail extending to 7381'. Opened tool at 11:00 p.m. on 5/8" bottom hole bean for 1 hour test. Had a light blow for 3 minutes, dead for 28 minutes, then a puff blow for 29 minutes. Closed tool at 12:00 Midnight.

6/19

Pulled tester. Recovered 80' of slightly gas-cut drilling mud. W.S.O. test witnessed and approved by a representative of the Division of Oil and Gas.

	<u>Top Recorder</u>	<u>Bottom Recorder</u>
Initial Hydrostatic Pressure	3115 psi	3131 psi
Initial Flowing Pressure	42 psi	47 psi
Final Flowing Pressure	63 psi	63 psi
Final Hydrostatic Pressure	3106 psi	3124 psi
Recorded Temperature	177°F at 7380'	

Ran in with 7-5/8" bit to top of cement plugs and displaced Baroid CQ Aktaflo-S (ligno-sulfonate) drilling mud with Baroid Invermul inverted oil emulsion mud. Drilled out plugs, differential collar, cement and shoe to 7512' and cleaned out from 7512' to 7526'. Directionally drilled 7-5/8" hole from 7526' to 7630'.

14

1967
 6/24

Ran in with 7-5/8" bit with Security 6-point reamer and reamed hole to 8200'.
 Circulated and conditioned mud preparatory to running liner.

Ran 17 joints, 645.19', of 6-5/8" 24#, J-55, Security flushjoint, blank and perforated
 liner plus 3.50' Burns lead seal hanger (648.69') and hung liner at 8125'. Top of hanger
 at 7476.31'. Perforated from 8125' to 7981.63', 7961.63' to 7789.99' and 7747.97'
 to 7509.81'.

Joints	Description	From	To	Footage
1	6-5/8" 24#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" slots, 6" centers	8125.00'	8115.82'	9.18'
3	6-5/8" 24#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" slots, 6" centers	8115.82'	7991.85'	123.97'
1	6-5/8" 24#, J-55, new, seamless, Security flushjoint: Perforated with 60 mesh, 24 rows, 2" slots, 6" centers	7991.85'	7981.63'	10.22'
	Blank	7981.63'	7961.63'	20.00'
	Perforated with 60 mesh, 24 rows, 2" slots, 6" centers	7961.63'	7951.73'	9.90'
4	6-5/8" 24#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" slots, 6" centers	7951.73'	7789.99'	161.74'
1	6-5/8" 24#, J-55, new, seamless, Security flushjoint, blank	7789.99'	7747.97'	42.02'
6	6-5/8" 24#, J-55, new, seamless, Security flushjoint, perforated with 60 mesh, 24 rows, 2" slots, 6" centers	7747.97'	7519.35'	228.62'
1	6-5/8" 24#, J-55, new, seamless, Security flushjoint: Perforated with 60 mesh, 24 rows, 2" slots, 6" centers	7519.35'	7509.81'	9.54'
	Blank	7509.81'	7479.81'	30.00'
	Burns Lead seal hanger	7479.81'	7476.31'	3.50'
17		Total Liner		648.69'

1967
 6/25

Commenced running 3-1/2" 9.2#, J-55, National seal-lock tubing.

6/26

Completed running 3-1/2" 9.2#, J-55, National seal-lock tubing with Kobe pump housing, safety joint, side-door valve and tubing tail and landed at 7944.34'. Tubing was hydro tested to 6000 psi.

TUBING DETAIL

First String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
16	3-1/2" 9.2#, J-55, new, National seal-lock tubing	7944.34'	7454.31'	490.03'
	Crossover (National seal-lock to 3-1/2" 8 round thread)	7454.31'	7453.31'	1.00'
	Crossover (3-1/2" 8 round thread to 2-7/8" 8 round thread)	7453.31'	7452.25'	1.06'
	Safety joint	7452.25'	7450.92'	1.33'
	Side-door valve	7450.92'	7448.08'	2.84'
	Collar	7448.08'	7447.68'	.40'
	Kobe pump housing	7447.68'	7423.72'	23.96'
	Crossover (3-1/2" 8 round thread to 3-1/2" National seal-lock)	7423.72'	7422.72'	1.00'
242	3-1/2" 9.2#, J-55, new, National seal-lock tubing	7422.72'	18.00'	7404.72'
	K.B. to Tubing Head	18.00'	0'	18.00'
258		Total Tubing Landed		7944.34'

Commenced running 2-3/8" 4.6#, J-55, National seal-lock tubing.

6/27

Completed running 2-3/8" 4.6#, J-55, National seal-lock tubing and landed at 7428.59'. Tubing was hydro tested to 5000 psi.

Second String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	Stinger	7428.59'	7426.57'	2.02'
	Pup joint	7426.57'	7420.22'	6.35'
238	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7420.22'	22.50'	7397.72'
	Pup joint	22.50'	18.50'	4.00'
	Pup joint	18.50'	17.50'	1.00'
	K.B. to Tubing Head	17.50'	0'	17.50'
238		Total Tubing Landed		7428.59'

1967
6/27

(Continued)

Ran 2-3/8" 4.6#, J-55, National seal-lock tubing and landed at 7416.15'. Tubing was hydro tested to 5000 psi.

TUBING DETAIL

Third String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	Stinger	7416.15'	7414.15'	2.00'
	Pup joint	7414.15'	7403.95'	10.20'
237	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7403.95'	41.50'	7362.45'
	Pup joint	41.50'	29.50'	12.00'
	Pup joint	29.50'	23.50'	6.00'
	Pup joint	23.50'	17.50'	6.00'
	K.B. to Tubing Head	17.50'	0'	17.50'
237	Total Tubing Landed			7416.15'

Picked up second string of tubing; would not seat. Commenced pulling second string of tubing.

6/28

Completed pulling second string of tubing. Found worn collar. Replaced collar. Reran 2-3/8" 4.6#, J-55, National seal-lock tubing and landed at 7428.59'. Tubing was hydro tested to 5000 psi.

TUBING DETAIL

Second String:

<u>Joints</u>	<u>Description</u>	<u>From</u>	<u>To</u>	<u>Footage</u>
	Stinger	7428.59'	7426.57'	2.02'
	Pup joint	7426.57'	7420.22'	6.35'
238	2-3/8" 4.6#, J-55, new, National seal-lock tubing	7420.22'	22.50'	7397.72'
	Pup joint	22.50'	18.50'	4.00'
	Pup joint	18.50'	17.50'	1.00'
	K.B. to Tubing Head	17.50'	0'	17.50'
238	Total Tubing Landed			7428.59'

Spaced and landed #1 side string. Spaced and landed #2 side string. Dropped standing valve. Bundle tested tubing to 1500 psi, O.K. Retrieved standing valve.

OCCIDENTAL PETROLEUM CORPORATION
"West Pico" 12
Section 30, T. 1 S., R. 14 W., S.B.B. & M.

Page 11

1967
6/29

Removed B.O.P. equipment. Installed Xmas tree. Hookup lines. Displaced Baroid Invermul inverted oil emulsion mud with crude oil. Well came in flowing. Flowed displacement oil. Placed well on production at 1:00 p.m., June 29, 1967.

6/30

Released rig at 8:00 a.m., June 30, 1967.

MUD RECORD

WELL NO. "West Pico" 12

FIELD Beverly Hills

SECTION 30, T. 1 S., R. 14 W., S.B. B. & M.

COUNTY Los Angeles

DATE	DEPTH		WEIGHT LBS./CU. FT.		VISCOSITY SECONDS		WATER LOSS CC/30 MINUTES		SAND %		pH	SALINITY G/G	FILTER CAKE INCHES/32	OIL %
	FROM	TO	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH				
5-23-67	0	616	--	72	38	40	--	--	--	--	--	--	--	--
5-24-67	616	1224	72	74	40	45	--	--	--	--	--	--	--	--
5-25-67	--	1224	--	74	--	45	--	--	--	--	--	--	--	--
5-26-67	1224	1512	--	74	--	50	--	10.2	--	1.5	11.5	94	2	Trace
5-27-67	1512	2515	73	74	48	50	--	9.0	--	2.0	9.0	98	2	4.5
5-28-67	2515	3704	74	75	44	50	--	9.0	--	2.0	9.1	98	2	4.0
5-29-67	3704	4115	74	76	38	50	--	8.0	--	1.25	9.0	96	2	4.0
5-30-67	4115	4352	--	76	--	45	--	6.6	--	1.25	8.8	90	2	4.0
5-31-67	4352	4905	75	79	39	45	--	6.6	--	1.25	8.6	80	2	4.5
6- 1-67	4905	5418	78	80	40	45	6.4	6.6	1.0	1.25	8.6	80	2	4.5
6- 2-67	--	5418	Fishing.											
6- 3-67	--	5418	Fishing.											
6- 4-67	5418	5462	78	78.5	45	48	--	5.4	--	.50	8.8	88	2	9.0
6- 5-67	5462	5979	78	78.5	42	45	--	5.4	--	.50	9.0	90	2	7.5
6- 6-67	5979	6268	75.5	78	41	48	--	5.4	--	.50	8.5	71	2	6.0
6- 7-67	6268	6348	--	76	--	40	--	5.4	--	.50	8.8	70	2	5.0
6- 8-67	6348	6738	75.5	77	40	41	5.4	6.4	Trace	.50	9.0	80	2	6.0
6- 9-67	6738	7012	75	76	42	48	5.2	5.4	Trace	.50	9.0	70	2	6.0
6-10-67	7012	7290	--	75	45	48	5.2	6.0	Trace	.75	9.0	70	2	4.0
6-11-67	--	7290	Fishing.											
6-12-67	--	7290	--	74	--	45	--	5.7	--	1.00	8.5	70	2	11.0
6-13-67	--	7290	--	76	--	49	--	7.0	--	1.00	9.0	70	2	5.0
6-14-67	7290	7526	75	76	45	49	--	5.8	--	.75	8.5	50	2	5.0
6-15-67	--	7526	--	76	--	50	--	5.5	--	1.00	9.0	55	2	5.0
6-16-67	--	7526	--	76	--	50	--	--	--	--	--	--	--	--
6-17-67	--	7526	--	75	--	48	--	5.7	--	.75	8.5	55	2	5.0
6-18-67	--	7526	Made W.S.O. test.											
6-19-67	7526*	7630	--	76	--	60	--	4.0	--	1.00	--	--	2	73.5

*Displaced CQ Aktaflo-S (lignosulfonate) drilling mud with Baroid Invermul inverted oil emulsion mud.

MUD RECORD

WELL NO. "West Pico" 12

FIELD Beverly Hills

SECTION 30 , T. 1 S. , R. 14 W. , S.B. B. & M.

COUNTY Los Angeles

DATE	DEPTH		WEIGHT LBS./CU. FT.		VISCOSITY SECONDS		OIL LOSS CC/30 MINUTES		SAND %		pH	SALINITY G/G	FILTER CAKE INCHES/32	OIL %	
	FROM	TO	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH					
6-20-67	7630	8015	76	77	--	60	--	--	--	--	--	--	2	68.5	
6-21-67	8015	8200	77	78	60	62	--	5.3	--	--	--	--	2	68.5	
6-22-67	--	8200	77	78	60	62	--	--	--	--	--	--	--	--	
6-23-67	--	8200	--	77	--	60	--	--	--	--	--	--	--	--	
6-24-67	--	8200	--	78	62	72	--	5.3	--	--	--	--	2	74.0	
					TOTAL DEPTH: 8200'.										
					PLUGS: None.										

BIT RECORD

Well No. "West Pico" 12

Field Beverly Hills

Section 30, T. 1 S., R. 14 W., S.B.B.&M.

County Los Angeles

Date	No. Run	Size	Make	Type	Regular	Jet Sizes	From	To	Footage	Hours Run	Condition
5-24-67	1	12-1/4"	Hughes	4-Cone	Regular		0	790	790	10-3/4	
5-24-67	2	12-1/4"	Globe	SS-2	Spud bit	w/1 - 5/8" jet	790	1224	434	3-1/4	Good
5-25-67	H.O. 1	17-1/2"	Smith	Hole Opener			0	1224	1224	12-1/4	Opened hole
5-27-67	2 RR	12-1/4"	Globe	SS-2		5/8" (1)	1224	2324	1100	17-1/4	Dull
5-28-67	3	12-1/4"	Hughes	OSC-3A		1/2" (3)	2324	3704	1380	22-3/4	Medium dull
5-31-67	4	12-1/4"	Globe	SS3J		1/2" (3)	3704	4718	1014	23-1/4	Dull
6- 1-67	5	12-1/4"	Security	S3J		1/2" (3)	4718	5418	700	22-1/2	Left in hole. Recovered.
6- 6-67	6	12-1/4"	Globe	SS3J		1/2" (3)	5418	6056	638	24-1/4	Dull
6- 7-67	7	12-1/4"	Smith	DTJ		1/2" (3)	6056	6268	212	7	Left in hole. Recovered.
6- 9-67	8	12-1/4"	Reed	T3J		1/2" (3)	6268	6812	544	27-3/4	Dull
6-10-67	9	12-1/4"	Hughes	OSC3A		1/2" (3)	6812	7290	478	26	Left in hole. Recovered.
6-15-67	10	12-1/4"	Smith	DTJ		1/2" (3)	7290	7526	236	13	
6-16-67	10 RR	12-1/4"	Smith	DTJ		1/2" (3)	Circulated and conditioned mud.				
6-17-67	11	7-5/8"	Reed	T3J		1/2" (3)	Circulated and conditioned mud.				
6-20-67	11 RR	7-5/8"	Reed	T3J		1/2" (3)	7526	7811	285	14-1/2	Drilled out plugs, float collar, cmt. and shoe and drld. ahead. Dull
6-21-67	12	7-5/8"	Security	S3J		1/2" (3)	7811	8038	227	12-3/4	Dull
6-22-67	13	7-5/8"	Smith	DT2GJ		1/2" (3)	8038	8200	162	10-1/2	Dull
6-24-67	13 RR	7-5/8"	Smith	DT2GJ		1/2" (3)	Reamed hole.				

TOTAL DEPTH: 8200'.

PLUGS: None.

DIVISION OF OIL AND
 RECEIVED
 AUG 24 1967
 CALIFORNIA

CONFIDENTIAL

037-20146

7/6/67

Directional Log

**REPORT
and
PLAN
of
SUB-SURFACE
SURVEY**

DIVISION OF OIL AND GAS
RECEIVED

AUG 22 1967

INGLEWOOD, CALIFORNIA

Pacific Coast Energy Company L.P.

PETROLEUM *Corp*

" WEST PICO *"* (037-20146)
Sec 30-1 S-14 W
WEST L.A.
Beverly Hills

JOB NO. B 100

DATE 7-6-67

DIRECTIONAL DRILLING, INC.

BAKERSFIELD

Phone: 324-3574

59

DIRECTIONAL DRILLING, INC.

SURVEY DATA SHEET

SHEET NO. 1

JOB NO. BIU



COMPANY Occidental Petroleum Corp.

ADDRESS _____

(037-20146)

WELL West Pico #12

FIELD West L.A.

COUNTY _____

STATE Calif.

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE	VERTICAL DEPTH		COURSE DEVIATION	DIRECTION OF DEVIATION			COURSE				TOTAL							
			COURSE	TOTAL		N	E	W	LATITUDE		DEPARTURE		LATITUDE		DEPARTURE					
									NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST				
101	101	0 15	101 00	101 00	0 44	S	27	W			0 39			0 20			0 39			0 20
194	93	0 15	93 00	194 00	0 41	N	78	W	0 09					0 40			0 30			0 60
288	94	0 30	94 00	288 00	0 82	N	51	W	0 52					0 64	0 22					1 24
383	95	0 30	95 00	383 00	0 83	N	60	W	0 42					0 72	0 64					1 96
476	93	0 30	93 00	476 00	0 81	N	74	W	0 22					0 78	0 86					2 74
570	94	0 30	94 00	570 00	0 82	N	46	W	0 57					0 59	1 43					3 33
664	94	0 30	94 00	664 00	0 82	N	16	W	0 79					0 23	2 22					3 56
790	126	--	126 00	790 00			--								2 22					3 56
817	27	1 15	26 99	816 99	0 59	N	56	E	0 33				0 49		2 55					3 07
880	63	3 15	62 90	879 89	3 57	N	57	E	1 94				2 99		4 49					0 08
911	31	4 15	30 91	910 80	2 30	N	57	E	1 25				1 93		5 74				1 85	
943	32	5 45	31 84	942 64	3 21	N	62	E	1 51				2 83		7 25				4 68	
974	31	7 00	30 77	973 41	3 78	N	60	E	1 89				3 27		9 14				7 95	
1006	32	8 45	31 63	1005 04	4 87	N	60	E	2 44				4 22		11 58				12 17	
1037	31	10 00	30 53	1035 57	5 38	N	67	E	2 10				4 95		13 68				17 12	
1098	61	12 30	59 55	1095 12	13 20	N	77	E	2 97				12 86		16 65				29 98	
1224	126	15 00	121 70	1216 82	32 61	N	82	E	4 54				32 29		21 19				62 27	
1311	87	17 15	83 09	1299 91	25 80	N	80	E	4 48				25 41		25 67				87 68	
1406	95	20 30	88 98	1388 89	33 27	N	76	E	8 05				32 28		33 72				119 96	

TYPE OF SURVEY: _____

CALCULATED BY _____

E. K.

CHECKED BY _____

L. S.

DIRECTIONAL DRILLING, INC.

SURVEY DATA SHEET

SHEET NO. 2
JOB NO. B 100



COMPANY Occidental Petroleum Corp. ADDRESS _____
WELL West Pico #12 FIELD West L. A. COUNTY _____ STATE Calif.

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE		VERTICAL DEPTH				COURSE DEVIATION		DIRECTION OF DEVIATION			COURSE				TOTAL			
				COURSE		TOTAL							LATITUDE		DEPARTURE		LATITUDE		DEPARTURE	
				NORTH	SOUTH	EAST	WEST						NORTH	SOUTH	EAST	WEST				
1500	94	22	30	86	84	1475	73	35	97	N	75	E	9	31	34	74	43	03	154	70
1596	96	25	15	86	83	1562	56	40	95	N	76	E	9	91	39	73	52	94	194	43
1691	95	28	15	83	68	1646	24	44	97	N	78	E	9	35	43	99	62	29	238	42
1785	94	31	15	80	36	1726	60	48	76	N	78	E	10	14	47	69	72	43	286	11
1880	95	34	30	78	29	1804	89	53	81	N	78	E	11	19	52	63	83	62	338	74
1974	94	38	00	74	07	1878	96	57	87	N	78	E	12	03	56	60	95	65	395	34
2073	99	41	30	74	15	1953	11	65	60	N	79	E	12	52	64	39	108	17	459	73
2170	97	44	30	69	19	2022	30	67	99	N	79	E	12	97	66	74	121	14	526	47
2232	62	46	00	43	07	2065	37	44	60	N	76	E	10	79	43	28	131	93	569	75
2326	94	49	15	61	36	2126	73	71	21	N	78	E	14	80	69	65	146	73	639	40
2386	60	51	15	37	56	2164	29	46	79	N	78	E	9	73	45	77	156	46	685	17
2512	126	51	15	78	86	2243	15	98	27	N	78	E	20	43	96	12	176	89	781	29
2669	157	51	15	98	27	2341	42	122	44	N	78	E	25	46	119	76	202	35	901	05
2827	158	51	15	98	89	2440	31	123	22	N	78	E	25	62	120	52	227	97	1021	57
2984	157	51	45	97	20	2537	51	123	29	N	78	E	25	63	120	59	253	60	1142	16
3075	91	51	45	56	34	2593	85	71	46	N	79	E	13	63	70	15	267	23	1212	31
3232	157	51	45	97	20	2691	05	123	29	N	79	E	23	52	121	02	290	75	1333	33
3391	159	51	45	98	44	2789	49	124	86	N	80	E	21	68	122	96	312	43	1456	29
3548	157	51	45	97	20	2886	69	123	29	N	80	E	21	40	121	42	333	83	1577	71

TYPE OF SURVEY: _____

CALCULATED BY E. K.

CHECKED BY L. S.

DIRECTIONAL DRILLING, INC.

SURVEY DATA SHEET

SHEET NO. 3

JOB NO. B 100



COMPANY Occidental Petroleum Corp.

ADDRESS _____

WELL West Pico #12

FIELD West L. A.

COUNTY _____

STATE Calif.

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE		VERTICAL DEPTH				COURSE DEVIATION		DIRECTION OF DEVIATION		COURSE				TOTAL										
				COURSE		TOTAL						LATITUDE		DEPARTURE		LATITUDE		DEPARTURE								
												NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST							
3704	156	51	45	96	58	2983	27	122	50	N	80	E	21	27			120	64			355	10			1698	35
3755	51	50	45	32	27	3015	54	39	49	N	78	E	8	21			38	63			363	31			1736	98
3799	44	48	00	29	44	3044	98	32	70	N	74	E	9	01			31	43			372	32			1768	41
3895	96	51	15	60	09	3105	07	74	87	N	68	E	28	05			69	42			400	37			1837	83
3990	95	51	45	58	81	3163	88	74	61	N	68	E	27	95			69	18			428	32			1907	01
4115	125	55	00	71	70	3235	58	102	40	N	68	E	38	36			94	95			466	68			2001	96
4247	132	54	00	77	59	3313	17	106	79	N	68	E	40	00			99	02			506	68			2100	98
4341	94	53	30	55	91	3369	08	75	56	N	68	E	28	30			70	06			534	98			2171	04
4436	95	53	00	57	17	3426	25	75	87	N	68	E	28	42			70	35			563	40			2241	39
4531	95	52	15	58	16	3484	41	75	12	N	68	E	28	14			69	65			591	54			2311	04
4622	91	51	30	56	65	3541	06	71	22	N	68	E	26	68			66	04			618	22			2377	08
4717	95	50	30	60	43	3601	49	73	30	N	69	E	26	27			68	43			644	49			2445	51
4822	105	48	00	70	26	3671	75	78	03	N	69	E	27	97			72	85			672	46			2518	36
4917	95	46	00	65	99	3737	74	68	34	N	70	E	23	37			64	22			695	83			2582	58
5010	93	45	00	65	76	3803	50	65	76	N	70	E	22	49			61	79			718	32			2644	37
5103	93	43	30	65	46	3870	96	64	02	N	71	E	20	84			60	53			739	16			2704	90
5201	98	42	45	71	96	3942	92	66	52	N	72	E	20	55			63	27			759	71			2768	17
5297	96	41	00	72	45	4015	37	62	98	N	72	E	19	46			59	90			779	17			2828	07
5391	94	39	00	73	05	4088	42	59	16	N	72	E	18	28			56	27			797	45			2884	34

TYPE OF SURVEY: _____

CALCULATED BY E. K.

CHECKED BY L. S.

5d

DIRECTIONAL DRILLING, INC.

SURVEY DATA SHEET

SHEET NO. 2
JOB NO. B 100



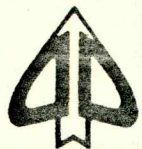
COMPANY Occidental Petroleum Corp. ADDRESS _____
WELL West Pico #12 FIELD West L. A. COUNTY _____ STATE Calif.

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE		VERTICAL DEPTH				COURSE DEVIATION		DIRECTION OF DEVIATION			COURSE				TOTAL			
				COURSE		TOTAL							LATITUDE		DEPARTURE		LATITUDE		DEPARTURE	
				NORTH	SOUTH	EAST	WEST						NORTH	SOUTH	EAST	WEST				
1500	94	22	30	86	84	1475	73	35	97	N	75	E	9	31	34	74	43	03	154	70
1596	96	25	15	86	83	1562	56	40	95	N	76	E	9	91	39	73	52	94	194	43
1691	95	28	15	83	68	1646	24	44	97	N	78	E	9	35	43	99	62	29	238	42
1785	94	31	15	80	36	1726	60	48	76	N	78	E	10	14	47	69	72	43	286	11
1880	95	34	30	78	29	1804	89	53	81	N	78	E	11	19	52	63	83	62	338	74
1974	94	38	00	74	07	1878	96	57	87	N	78	E	12	03	56	60	95	65	395	34
2073	99	41	30	74	15	1953	11	65	60	N	79	E	12	52	64	39	108	17	459	73
2170	97	44	30	69	19	2022	30	67	99	N	79	E	12	97	66	74	121	14	526	47
2232	62	46	00	43	07	2065	37	44	60	N	76	E	10	79	43	28	131	93	569	75
2326	94	49	15	61	36	2126	73	71	21	N	78	E	14	80	69	65	146	73	639	40
2386	60	51	15	37	56	2164	29	46	79	N	78	E	9	73	45	77	156	46	685	17
2512	126	51	15	78	86	2243	15	98	27	N	78	E	20	43	96	12	176	89	781	29
2669	157	51	15	98	27	2341	42	122	44	N	78	E	25	46	119	76	202	35	901	05
2827	158	51	15	98	89	2440	31	123	22	N	78	E	25	62	120	52	227	97	1021	57
2984	157	51	45	97	20	2537	51	123	29	N	78	E	25	63	120	59	253	60	1142	16
3075	91	51	45	56	34	2593	85	71	46	N	79	E	13	63	70	15	267	23	1212	31
3232	157	51	45	97	20	2691	05	123	29	N	79	E	23	52	121	02	290	75	1333	33
3391	159	51	45	98	44	2789	49	124	86	N	80	E	21	68	122	96	312	43	1456	29
3548	157	51	45	97	20	2886	69	123	29	N	80	E	21	40	121	42	333	83	1577	71

TYPE OF SURVEY: _____

CALCULATED BY E. K.

CHECKED BY L. S.



DIRECTIONAL DRILLING, INC.

SURVEY DATA SHEET

SHEET NO. 5JOB NO. B 100COMPANY Occidental Petroleum Corp.

ADDRESS _____

WELL West Pico #12FIELD West L. A.

COUNTY _____

STATE Calif.

MEASURED DEPTH	COURSE LENGTH	DEVIATION ANGLE		VERTICAL DEPTH				COURSE DEVIATION		DIRECTION OF DEVIATION		COURSE				TOTAL						
				COURSE		TOTAL						LATITUDE		DEPARTURE		LATITUDE		DEPARTURE				
												NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST			
7329	102	4	30	101	68	5922	59	8	01	EAST				8	01	926	98	3398	06			
7509 7530 7526	197	3	30	196	63	6119	22	12	02	S	81	E		1	88	11	87	925	10	3409	93	3498
7621	95	3	15	94	85	6214	07	5	39	S	67	E		2	11	4	96	922	99	3414	89	
7740	119	2	15	118	90	6332	97	4	68	S	66	E		1	90	4	28	921	09	3419	17	
7880	140	2	45	139	83	6472	80	6	72	S	41	E		5	07	4	41	916	02	3423	58	
8029	149	2	30	148	85	6621	65	6	50	S	52	E		4	00	5	12	912	02	3428	70	3429
8125 8200	171	2	15	170	86	6792	51	6	72	S	08	E		6	65	0	94	905	37	3429	64	
Closure:				3547.05'				N 75°		13' E												

56

TYPE OF SURVEY: _____

CALCULATED BY E. KCHECKED BY L. S.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 167-549

SEC. 3606 WELL

Mr. Eugene F. Reid
5000 Stockdale Highway
Bakersfield, California
 Agent for OCCIDENTAL PETROLEUM CORP.

Inglewood, Calif.
June 21, 1967

DEAR SIR: (037-20146)

Your well No. "West Pico" 12, Sec. 30, T. 1 S, R. 14 W, S.B. B & M.
Beverly Hills Field, in Los Angeles County, was tested for water shut-off
 on June 19, 1967. Mr. R. Rothermel, Engineer, designated by the supervisor was present
 from 3:00 a.m. to 4:00 a.m. as prescribed by law; there were also present J. Weaver, Drilling Foreman

Shut-off data: 8-5/8 36 lb. casing was --cemented at 7512 ft.
 on June 25, 1967 in 12-1/4 in. hole with 600 ~~XXXX~~ sacks of cement
premixed w/4% gel followed by 100 sacks of cement

calculated to fill behind casing to 5000 ft. below surface.
 Casing record of well: 20" cem. 40'; 13-3/8" cem. 1226'; 8-5/8" cem. 7512', perf. 7394' WSO
1224

Present depth 7526 ft. cmt. bridge 7512 ft. to 7468 ft. Cleaned out cmt. ---- ft. to ---- ft. for test.
 A Halliburton tester was run into the hole on 4 in. drill pipe ~~XXXX~~
 with --- ft. of water-mud cushion, and packer -- set at 7364 ft. with tailpiece to 7381 ft.
 Tester valve, with 3/4 in. bean, was open for 1 hr. and ---- min. During this interval there was a
light blow for 3 minutes & no blow thereafter.

Mr. Weaver reported:

1. A 12-1/4" hole was drilled from 1224' to 7526'.
2. The 8-5/8" casing was cemented as noted above.
3. The 8-5/8" casing was jet-perforated with four, 1/2" holes at 7394'.

THE ENGINEER NOTED:

1. When the drill pipe was removed, 80' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE 8-5/8" SHUT-OFF AT 7394' IS APPROVED.

RR:nw

cc Company

E. R. MURRAY-AARON
 State Oil and Gas Supervisor

By 

Deputy

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

**Special Report on Operations Witnessed
SEC. 3606 WELL**

No. T 167-505

Mr. Eugene F. Reid
5000 Stockdale Highway
Bakersfield, California
Agent for OCCIDENTAL PETROLEUM CORP.

Inglewood, Calif.
June 9, 1967

DEAR SIR: (037-20146)

Operations at well No. "West Pico" 12, Sec. 30, T. 1 S, R. 14 W, S.B. B & M.
Beverly Hills Field, in Los Angeles County, were witnessed
on May 29, 1967. Mr. R. Rothermel, Engineer, representative of the supervisor was present
from 2:00 p.m. to 2:30 p.m.. There were also present L. Conell, Drilling Foreman

Present condition of well: 20" cem. 40'; 13-3/8" cem. 1226'. TD 3800' drilling

The operations were performed for the purpose of inspecting the blowout prevention equipment and installation.

Mr. ----- reported:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

RR:nw

cc Company

W/S

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By *Wm Bailey* Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 167-545

SEC. 3606 WELL

Mr. Eugene F. Reid
5000 Stockdale Highway
Bakersfield, California
 Agent for OCCIDENTAL PETROLEUM CORP.
121
Inglewood, Calif.
May 22, 1967

DEAR SIR:

(037-20146)

Your proposal to drill Well No. "West Pico" 12,
 Section 30, T. 1 S, R. 14 W, S.E. B. & M., Beverly Hills Field, Los Angeles County,
 dated May 16, 1967, received May 18, 1967, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES

"Legal description of mineral-right lease, consisting of 1.1 acres, is as follows:
 Tract 6380, Lots 884, 885, 886 and 887 as recorded in Book of Maps, Book 69, Pages
 11 through 20, on file in the Office of the Recorder, Los Angeles County; as per
 attached plat.

Do mineral and surface leases coincide? Yes No

Location of Well: From the intersection of the center lines of Pico Boulevard and
 Oakhurst, 106' North along the center line of Oakhurst, thence 81' East at 90°
 angle.

Elevation of ground above sea level 171 feet datum.

All depth measurements taken from top of Kelly Bushing which is 12.5 feet above ground."

PROPOSAL

"PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade and Type	Top	Bottom	<u>K.B. = 183.5 feet</u> Cementing Depths
20"	--	Conductor	Surface	40'	Cement to surface.
13-3/8"	48#	H-40, Smls.	Surface	1200'	Cement to surface.
8-5/8"	(Weight, grade and depth to be determined)				
6-5/8"	24# (Grade and depths to be determined)				

Intended zone of completion: Miocene 7550 feet to 8250 feet Estimated total depth 8250 feet.

It is understood that if changes in this plan become necessary we are to notify you immediately."

DECISION

THE PROPOSAL IS APPROVED PROVIDED:

1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. The provisions of Sec. 3606 relating to derricks and subsurface spacing shall be followed.
4. A directional survey shall be made and filed with this Division.
5. **THIS DIVISION SHALL BE NOTIFIED:**
 - a. To inspect the installed blowout prevention equipment before drilling below 2000'.
 - b. To witness a test of the effectiveness of the 8-5/8" shut-off.

WLI:nw

cc Company

Blanket Bond
① T OSP

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By Wm. C. Bailey Deputy

D

DIVISION OF OIL AND GAS MAY 18 1967 *SEC 3606 WELL*
Notice of Intention to Drill New Well Blanket Bond No. SY-292007
037-20146
This notice and surety bond must be filed before drilling begins
INGLEWOOD, CALIFORNIA

Bakersfield, Calif. May 16, 19 67

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. *(037-20146)* "West Pico" 12, Sec. 30, T. 1 S., R. 14 W., S.B. B. & M., Beverly Hills Field, Los Angeles County.

Legal description of mineral-right lease, consisting of 1.1 acres, is as follows: Tract 6380, Lots 884, 885, 886 and 887 as recorded in Book of Maps, Book 69, Pages 11 through 20, on file in the Office of the Recorder, Los Angeles County; as per attached plat.

Do mineral and surface leases coincide? Yes No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of Well: -- feet -- along section line and -- feet -- at right angles to said line from the -- corner of section --

From the intersection of the center lines of Pico Boulevard and Oakhurst, 106' North along the center line of Oakhurst, thence 81' East at 90° angle. *or Approx 3206' N & 1632' E from SW Cor of Sec.*

Elevation of ground above sea level 171 feet datum.

All depth measurements taken from top of Kelly Bushing which is 12.5 feet above ground. (Derrick Floor, Rotary Table or Kelly Bushing)

K.B. = 183.5 feet

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
20"	--	Conductor	Surface	40'	Cement to surface.
13-3/8"	48#	H-40, Smls.	Surface	1200'	Cement to surface.
8-5/8"	(Weight, grade and depth to be determined)				
6-5/8"	24# (Grade and depths to be determined)				

Intended zone(s) of completion: Miocene 7550 feet to 8250 feet Estimated total depth 8250 feet. (Name) (Depth, top and bottom)

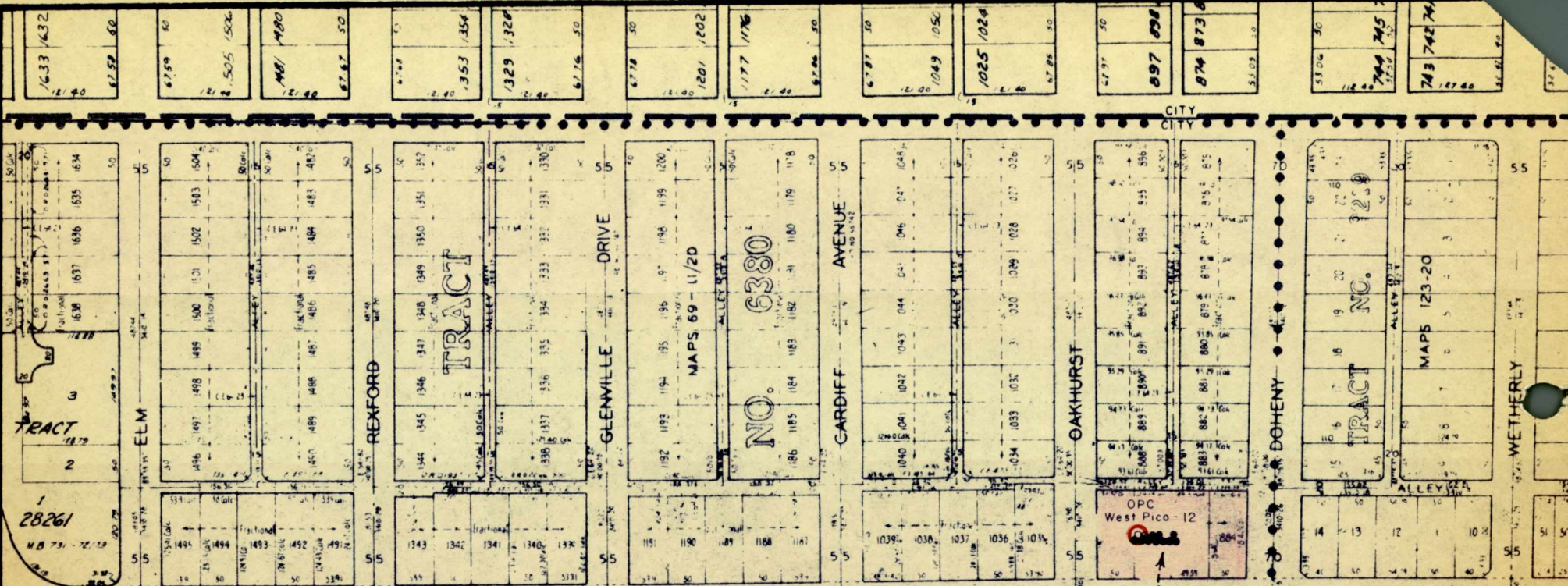
*Bo PP
Card made*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
<i>W1-3 RU</i>	<i>7-18-67</i>	<i>as</i>	<i>Blanket</i>	<i>as</i>	<i>as</i>

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 5000 Stockdale Highway Bakersfield, California 93309 Telephone Number 327-7351

OCCIDENTAL PETROLEUM CORPORATION
By *E. J. Reed* (Name of Operator) Vice President Corporation
Type of Organization Corporation
(Corporation, ~~Partnership, Sole Proprietorship, or Trust~~)



PROPOSED LOCATION

T. 1 S. - R. 14 W.

DETAIL

SCALE 1" = 20'

OCCIDENTAL PETROLEUM CORP.

WEST PICO AREA
LOS ANGELES COUNTY, CALIFORNIA

PROPOSED LOCATION
WEST PICO-12

DATE May 17, 1957	DRAFTSMAN R M
AUTHOR	SCALE 1" = 200'

ALCOTT

7580

7580

TRACT NO. 4089

4

CE