Form 3160-4
(November 1983)
(formerly 9-330)

* Pool change

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

API No. 30-039-23904

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Jicarilla Contract No. 500

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Apache

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jicarilla (H9)

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat Fruitland

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 9, T.29N., R.2W.

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [X] DRY [ ] Other Shut In

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

CONFIDENTIAL INFORMATION

2. NAME OF OPERATOR: Union Oil Company of California

3. ADDRESS OF OPERATOR: P. O. Box 2620 - Casper, WY 82602-2620

RECEIVED
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BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2250' FNL & 510' FEL (SE SE NE)
At top prod. interval reported below: 2250' FNL & 510' FEL
At total depth: 2250' FNL & 510' FEL

14. PERMIT NO. / DATE ISSUED

12. COUNTY OR PARISH: Rio Arriba
13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-13-86	9-23-86	Rel Unit & SI 11-17-86	7457' GR (Ungraded)	7457'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
10,130'	7530' PBTD 3660' ETD		→	0 - TD	- - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None - (Will re-evaluate well next spring.)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-MSFL w/GR & SP, LSS w/GR, LDT-CNL w/NGT & CAL, DIL, CET-CCL, CBL-VDL-GR, SHDT, SLTLSGT, TL

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	452'	17-1/2"	555 sx	- - -
10-3/4"	60.7#	6906'	12-1/4"	1410 sx	- - -
				(See Details on Page 3)	

DEC 22 1986
OIL CON. DIV.
DIST. 3

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7-5/8"	6602.74'	8015.54'	825	(Junked)
7-5/8"	5905.50'	7730.75'	1250 ~~1000~~	- - -

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	3541.07'	- - -

31. PERFORATION RECORD (*Interval, size and number*)
3687-3700'-Pictured Cliffs-4 spf w/4" csg gun - squeezed w/100 sx cmt.
3612-3628'-Fruitland-2 spf w/4" csg gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3687-3700'	1500 gals 15% FE acid with 2 ball sealers per bbl. acid
3687-3700' (Cont'd on Pg 3)	47,500 gals 70% Quality Foam & 67,500# 20/40 sand

ACCEPTED FOR RECORD
DEC 10 1986
FARMINGTON RESOURCE AREA
BY

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
N.A.	N.A.	Shut In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
(Fruitland) 11-17-86	3-1/2		→	0	TSTM	Trace	- -

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
- - -	- - -	→	0	TSTM	Trace	- - -

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): N.A.
P.C. test (11-7-86) - No oil or water w/max 10 MCF gas on 1" ch. while bleeding press to 0# after SION.
TEST WITNESSED BY: Jim Benson

35. LIST OF ATTACHMENTS: Pages 3 & 4
Drld to 8054' on 7-22-86. Stuck 7-5/8" liner. Drld sidetrack hole from 6,491-10,130'. Twisted off. Plugged back to 7530'. Set CIBP at 6000'.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R. G. Ladd, Jr. TITLE District Drilling Supt. DATE 11-26-86

*(See Instructions and Spaces for Additional Data on Reverse Side)

CONFIDENTIAL

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Niobrara	7360'	7409'	Core #1: Cored 49'. Rec. 23.75' Blk Shale
"	7435'	7494'	Core #2: Cored 59'. Rec. 22.75' Blk Shale
"	7494'	7511'	Core #3: Cored 17'. Rec. 15.75' Blk Shale
"	7610'	7640'	Core #4: Cored 30'. Rec. 27.25' Blk Shale
"	7680'	7710'	Core #5. Cored 30'. Rec. 29.00' Blk Shale
"	7735'	7765'	Core #6: Cored 30'. Rec. 30.11' Blk Shale
Mesaverde	6179'	6204'	DST No. 1 Opened tool for 10 mins. with weak blow. Shut in 75 mins. Opened for 60 mins. on final flow with weak blow for 45 mins., decreasing to very weak blow for 15 mins. Shut in 120 mins. Rec. 20' mud. Top Chart IHP 3120#, IPFP 53#, ISIP 79#, FFP 53#, FSIP 53#, FHP 3094#. Temp. 152° F. Bottom Chart IHP 3143#, IPFP 27#, ISIP 54#, FFP 27#, FSIP 27#, FHP 3116# Note BOP's tested daily in accordance with Union Oil Company policy and reported by drilling contractor personnel on tour sheets.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Nacimiento	1089'	+6392'
Ojo Alamo	3309'	+4172'
Kirtland	3552'	+3929'
Pictured Cliffs	3686'	+3795'
Lewis	3814'	+3667'
Mesaverde	5887'	+1594'
Mancos	6242'	+1239'
Niobrara	7084'	+397'
Greenhorn	8152'	-671'
Graneros	8211'	-730'
Dakota	8352'	-871'
Morrison	8601'	-1120'
Todilto	9324'	-1843'
Entrada	9417'	-1936'

No. 28 - Cementing Record Details - Continued:

13-3/8" Casing @ 452'
555 sacks (654.90 cu. ft.) of class "B" cement with 2% $CaCl_2$, 1/4# Cello-Seal/sack. Circulated 160 sacks (188.80 cu. ft.) of cement to surface with good returns throughout. Top of cement at surface.

10-3/4" Casing @ 6905.96'
910 sacks (1,310.40 cu. ft.) light-weight cement with 5# Hi-Seal/sack, 0.4% CS-10, 0.1/gal./sack foamer, 0.05 gals. WF-11/sack, and 470 scf N_2/bbl. of slurry, with 130 bbls. slurry away; followed by 300 sacks (354 cu. ft.) of class "B" cement with 0.6% CF-10, 5# Hi-Seal/sack cement. Had no fluid returns to surface. Top of cement at 550-600'. Cemented from surface to 550' with 100 sacks (118 cu. ft.) of class "B" cement with 2% $CaCl_2$, 1/4#/sack Cello-Seal, and 5#/sack Hi-Seal; followed by 100 sacks (118 cu. ft.) of class "B" cement with 2% $CaCl_2$, 5#/sack Hi-Seal. Top of cement at surface.

7-5/8" Casing Liner from 6602.74' to 8015.54' - (Junked)
7-5/8" liner has a possible 100' of cement, 25 sacks (28.50 cu. ft.) behind liner due to liner setting tool and pack-off failing. Set cement retainer #1 at 7979'. Squeezed perforations at 8030' with 100 sacks (114 cu. ft) of class "H" cement with 2% gel, 2% KCl, and 0.65% CF-10. Set cement retainer No. 2 at 7350' and attempted to circulate 265 sacks (302.10 cu. ft.) of class "H" cement with 2% gel, 2% KCl, and 0.65% CF-10 through perfs at 7400' and back into casing through perfs at 6850'. Set packer at 6719' and squeezed leaking perfs at 6850' with 100 sacks (118 cu. ft.) of class "H" cement with 1/4#/sack Cello-Seal. Could not release packer.

Note: Set retainer at 6514' and squeezed Niobrara formation through perforations at 6850' with 100 sacks (118 cu. ft.) of class "H" cement with 1/4# Cello-Seal. Set whipstock at 6477.9'.

7-5/8" Casing Liner from 5905.5-7730.75' - (In Sidetrack Hole)
7-5/8" liner was not cemented with a primary cement job because liner stuck and could not break circulation. Set cement retainer #1 at 5748' and squeezed liner with 450 sacks (531 cu. ft.) of class "H' cement with 1% Flo-Loc, 3#/sack Hi-Seal. Set cement retainer #2 at 7714', attempting to squeeze liner shoe with 300 sacks (354 cu. ft.) of class "H" cement with 2% KCl and 0.3% WR15. Displaced 50 sacks of cement below retainer. Set cement retainer #3 at 7600' and squeezed perfs 7702-7703' with 300 sacks (354 cu. ft.) class "H" cement with 2% KCl & 0.55% CF-10. Set cement retainer #4 at 6800' and squeezed casing leak from 6917-6948' with 200 sacks (236 cu. ft.) of class "H" cement with 2% KCl and 0.55% CF-10. Top of cement by Bond Log at 6140'.

No. 32 - Acid, Shot, Fracture, Cement Squeeze, Etc. - Continued

Depth Interval	Amount and Kind of Material Used
3612-3628'	1500 gals. 15% HCl with 80 ball sealers in last 2 stages

Drilled sidetrack hole to 10,130' and twisted off. Spotted 60 sacks (90 cu. ft.) of class "H" cement with 35% silica flour, 0.2% HR7 and 1/4# flocele/sack cement from 9566-9250' (Plug No. 1). Spotted 300 sacks (450 cu. ft.) of class "H" cement with 35% silica flour, 0.2% HR7 and 1/4# flocele/sack cement from 8030-7530' (Plug No. 2). Set cast-iron bridge plug on wire line at 6000'. Spotted 110 sacks (129.80 cu. ft.) of class "B" cement from 6000-5698'. Perforated Pictured Cliffs from 3687-3700' with 4 jspf with 4" casing gun. Tested Pictured Cliffs. Set cement retainer at 3660'. Squeezed Pictured Cliffs perforations 3687-3700' with 100 sacks (132 cu. ft.) of class "B" cement with 2% gel, 0.6% D-60.