

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW MEXICO 88240

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

LEASE DESIGNATION AND SERIAL NO.

RECEIVED 794

IF INDIAN, ALLOTTEE OR TRIBE NAME

ADDITIONAL NAME
May 10 12 37 PM '90

Maduro Federal Unit

Maduro Federal Unit

WELL NO.

4

FIELD AND POOL, OR WILDCAT

Gem Morrow Gas

SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 29, T-19-S, R-33-E

COUNTY OR PARISH

Lea

STATE

NM

ELEVATION (DF. RKB. RT. GR. ETC.)

3600.6' GR

ELEV. CASINGHEAD

0-13,750'

WAS DIRECTIONAL SURVEY MADE

No

WAS WELL CORRED

No

AMOUNT PULLED

Cl "C" 400 sxs

Cl "C" (1st stage-775 sxs) DV @ 2903'

(2nd stage-Cl "C" 1630 sxs)

Cl "H" 1460 sxs-cmt'd thru perfs (See Summary)

ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

13,634-38'

13,262'-349'

600 gals 7.5% HCl & 750 SCF/bbl N2

3500 gals 7.5% w/750 SCF/bbl N2

WELL STATUS (Producing or shut-in)

S.I.

GAS-OIL RATIO

27,604

OIL GRAVITY-API (CORR.)

55.4°

TEST WITNESSED BY

Jim Bilbrey

DATE 5-7-90

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other ☐

3. NAME OF OPERATOR

Union Oil Company of California

4. ADDRESS OF OPERATOR

P. O. Box 671 - Midland, TX 79702

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 460' FNL & 1980' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

API#30-025-308400

DATE ISSUED

3-23-90

15. DATE SPUNDED

12-28-89

16. DATE T.D. REACHED

2-11-90

17. DATE COMPL. (Ready to prod.)

4-19-90

18. TOTAL DEPTH, MD & TVD

13,750'

19. PLUG. BACK T.D., MD & TVD

CIBP @ 13,250' w/20' cmt on top (EID/13,230')

20. IF MULTIPLE COMPL. HOW MANY*

21. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

22. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

13,052 - 13,062' Upper Morrow

23. TYPE ELECTRIC AND OTHER LOGS RUN

GR - CNL - DLL - LDT - CBL

24. CASING RECORD (Report all strings set in well)

CASING SIZE

WEIGHT, LB./FT.

DEPTH SET (MD)

HOLE SIZE

13 3/8"

48# & 54.5#

465'

9 5/8"

40#

4,943'

5 1/2"

17#

13,750'

8 3/4"

Cl "C" 400 sxs

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

File 16 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.

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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	6105'	6155'	Sandstone, silty, 14% porosity-slight show oil, no test	Rustler	1237'	
Bone Spring	9910'	9945'	Sandstone, silty, 10% porosity-fair oil show, no test	Salado	1590'	
Wolfcamp	11320'	11330'	Limestone, tan-light gray, white, slight show gas, no test	Base Salt	2185'	
Strawn	12332'	12342'	ls, cherty, 2% porosity, good gas & oil show, no test	Yates	3005'	
Atoka	12500'	12520'	Sandstone, fine grained-6% porosity-good gas show no test	Delaware	5156'	
Upper Morrow	13052'	13064'	Sandstone, coarse to fine, fair gas show. Gas producing zone. Sidewall cored.	Bone Springs	7852'	
Middle Morrow	13198'	13534'	Sandstone, shale, limestone .57 net feet porous sandstone. Gas shows porosity 5-11% Tested non-commercial gas. Sidewall cored.	Wolfcamp Chert	10941'	
Lower Morrow	13633'	13639'	Sandstone, coarse grained, gas show 8% porosity. Tested non-productive. Sidewall cored.	Strawn	12105'	
				Atoka	12412'	
				Atoka ls	12812'	
				Morrow	12956'	
				Middle Morrow	13198'	
				Lower Morrow	13534'	

38. GEOLOGIC MARKERS

MAY 21
HOBBS