

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-401 103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells) <u>30-041-20318</u>
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL ☐ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☒			7. Lease Name or Unit Agreement Name <u>Mc Grail</u>		
b. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐			8. Well No. <u>1</u>		
2. Name of Operator <u>Union Oil Company of California</u>			9. Pool name or Wildcat <u>Bluitt San Andres 1400</u>		
3. Address of Operator <u>P.O. Box 671 - Midland, TX 79702</u>					
4. Well Location Unit Letter <u>H</u> : <u>2130</u> Feet From The <u>north</u> Line and <u>660</u> Feet From The <u>east</u> Line Section <u>18</u> Township <u>8-S</u> Range <u>38-E</u> NMPM <u>Roosevelt</u> County					
10. Proposed Depth <u>4725'</u>			11. Formation <u>San Andres</u> 12. Rotary or C.T. <u>Milnesand</u>		
13. Elevations (Show whether DF, RT, GR, etc.) <u>3986.8' GR</u>		14. Kind & Status Plug Bond		15. Drilling Contractor <u>Unknown</u>	
				16. Approx. Date Work will start <u>ASAP</u>	
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<u>No Change in casing</u>					

See attached procedure & well bore schematic.
Change San Andres parts

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Charlotte Beeson TITLE Drilling Clerk DATE 6-13-95
TYPE OR PRINT NAME Charlotte Beeson TELEPHONE NO. (915) 685-7607

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE JUN 21 1995

CONDITIONS OF APPROVAL, IF ANY:

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3 1937

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300 1 S WIP

UNION OIL COMPANY OF CALIFORNIA
CENTRAL US BUSINESS UNIT
CONDITION OF HOLE & PROCEDURE

Approvals:

Res. Engr. _____
Oper. Engr. _____
Drig. Engr. _____

DATE: 23-May-95

FIELD: Levelland
LEASE: Mc Grail

AREA: N. Permian
WELL NO.: 1

REASON FOR WORK: To abandon the Todd and develop the Milnesand gas reserves

CONDITION OF HOLE:

TOTAL DEPTH: 4778 ETD: 4778 DRILLER'S
DATUM IS: 11.5 ABOVE: G.L.

CASING RECORD: 8-5/8" csg @ 345'. Cmt w/ 175 sx reg w/ 4% gel, 2% CaCl₂.Circ.

4-1/2" 9.5#, J-55 csg @ 4778'. Cmt w/ 150 sx w/ 4% gel + 4# salt/sx
followed by 150 sx "C" w/ 4# salt & 5# sd/sx.

PERFORATIONS: Todd : 4738 - 45; 4748-52; & 4757-61 w/ 1 spf

TUBING DETAIL:

4676.30	- 148 jts - 2-3/8", 4.7#, 8R, J-55, EUE tubing
2.50	- 4-1/2" X 2-3/8" Baker anchor catcher
63.54	- 2 jts - 2-3/8", 4.7#, 8R, J-55, EUE tubing
1.10	- Standard seating nipple
14.90	- 2-3/8" perforated mud anchor
4758.34	- 150 jts - Total tubing
11.00	B.K.D.B.
4769.34	Final Hanging Depth

ROD & PUMP DETAIL: 74 - 3/4" X 25' + 108 - 5/8" X 25' rods. 2" X 1-1/4" X 12' X 12' RHBC
Sargent pump @ 4753'.

REGULATORY RQMTS. None

COMPLETION PROCEDURE:

1. MIRU DDP. POH w/ rods and pump. Install and f-test BOP. POH.
2. PU 3-7/8" bit on 2-3/8" work string. TIH to ETD. Talley OH w/ tbg and bit.
3. TIH w/cast iron BP on WS. Set CIBP at +/- 4725'.
4. Spot & pickle w/ 750 gal 15% HCl w/ Ne & Fe additives, POH w/ tbg
5. RU wireline co. Run GR-CCL log to tie- in to Schlumberger SNP log 6-31-71 Perf San Andres Milnesand w/ 3-1/8" gun w/ 2spf 4612-27, 4636-48, 4670-74, & 4698-702' . RD wireline
6. TIH w/ treating pkr on 2-3/8" WS. Set Pkr @ +/-4550'. BD San Andres Milnesand perfs @ max 3000psi
7. Sand Frac San Andres Milnesand w/ 15,000 gal Spartan Frac 3000 + 30# linear gel w/ 30,000# 20/40 sd. as per stimulation recommendation by BJ Services dated May 25, 1995.

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8. Swab back to clean up after sand frac.
9. Unseat pkr. POH w/ treating pkr, laying down packer and WS.
10. RIH w/ Production Equip. Place well on production.

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JUN 19 1985
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UNOCAL 76
CENTRAL U.S. BUSINESS UNIT

ASSET GROUP: North Permian
FIELD: Levelland
LEASE/UNIT: Mc Grail
COUNTY: Roosevelt

DATE: May. 23, 1995
BY: M.A. Marinovich
WELL: 1 Before
STATE: New Mexico

SPUD DATE: 5/26/71
COMP. DATE: 6/26/71
CURRENT STATUS: Oil Producer
LOCATION: 2130' FNL & 660' FEL, Sec18, Tnshp 8 So., Rng 38 E.

KB = 3,896' (11.5' A.G.L.)
Elevation = 3,887' (G.L.)
TD = 4,778'
ETD = 4,778'

8-5/8" 24# 8R J-55 csg. @ 345'. Cmt w/ 175 sx reg w/ 4% gel 2% CaCl₂. Circ.

TUBING DETAIL

150 jts - 2-3/8" 4.7#, 8rd EUE tbg @ 4769'.
SN @ 4754' and TAC @ 4690'.

PUMP & ROD DETAIL:

74- 3/4" X 25' + 108 - 5/8" x 25' rods w/ 2" X 1-1/2" X 12' Sargent RHBC pump @ 4754'

San Andres
MILNE SAND PERFORATIONS

NONE

San Andres
TODD PERFORATIONS

4738' - 4745' ; 4748' - 4752'; 4757 - 4761 w 1/ spf Open

4-1/2" 9.5# J-55 csg @ 4778'. Cmt w/ 150 sx "C" w/ 4% gel + 4# salt/sx
followed by 150 sx "C" w/ 4# salt & 5# sd/ sx

TD = 4,778' ETD = 4,778'

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UNOCAL 76
CENTRAL U.S. BUSINESS UNIT

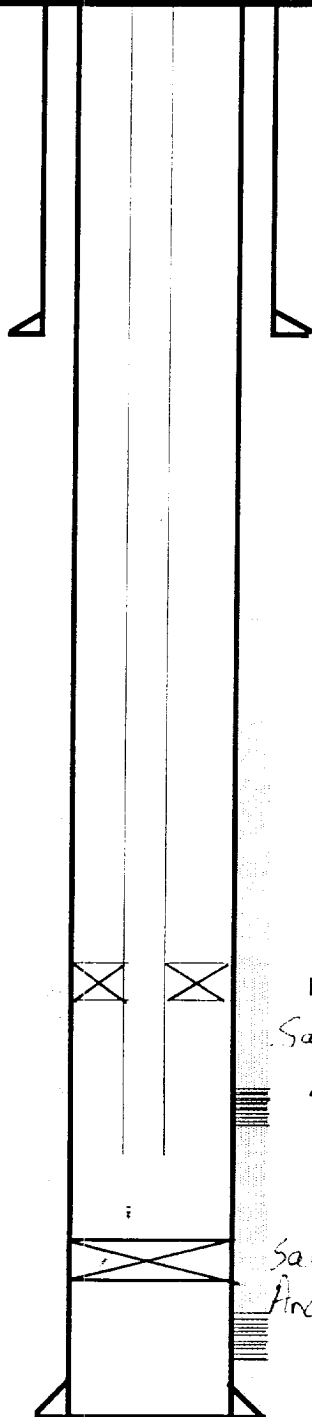
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TUBING DETAIL

150 jts - 2-3/8" 4.7#, 8rd EUE tbg @ 4769'.

Production Packer @ 4575' +/-

San Andres

MILNESAND PERFORATIONS

4612' - 4627' ; 4636' - 4648' ; 4670' - 4674; 4698 - 4705'

w/ 1jet shot per foot (open)

San Andres

C.I.B.P. @ 4725'

TODD PERFORATIONS

4738' - 4745' ; 4748' - 4752'; 4757 - 4761 w 1/ spf

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followed by 150 sx "C" w/ 4# salt & 5# sd/ sx

TD = 4,778' ETD = 4,778'

MGRAIL1.XLS

RECEIVED

JUL 11 1975
JULIUS ROBB
OFFICE