

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

API NO. (assigned by OCD on New Wells)

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 ☒

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☒

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

C.H. Kyte

2. Name of Operator

Union Oil Company of California

8. Well No.

1

3. Address of Operator

P.O. Box 671 - Midland, TX 79702

9. Pool name or Wildcat

House (Seven Rivers)

4. Well Location

Unit Letter

L : 3300 1980

Feet From The

North South

Line and

330

Feet From The

West

Line

Section

5

Township

20-5

Range

39-E

NMPM

Lea

County

10. Proposed Depth

4190' #

11. Formation

Seven Rivers

12. Rotary or C.T.

13. Elevations (Show whether DF, RT, GR, etc.)

14. Kind & Status Plug Bond

15. Drilling Contractor

16. Approx. Date Work will start

2-6-92

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE

SIZE OF CASING

WEIGHT PER FOOT

SETTING DEPTH

SACKS OF CEMENT

EST. TOP

See attached procedure.

*CIBP @ 4225' w/35' cmt/top

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 Drlg. Clerk

DATE 2-6-92

TYPE OR PRINT NAME Charlotte Beeson

TELEPHONE NO. (95) 662-9731

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

FEB 10 92

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Engineering *16*
District Eng *DSW*
Drilling Eng _____
Dist Drlg Supt _____

UNION OIL COMPANY OF CALIFORNIA
SOUTHWEST REGION
CONDITION OF HOLE & PROCEDURE

DATE: 12-10-91

FIELD: House (San Andres) **AREA:** Andrews

LSE/UNIT: C. H. Kyte **WELL NO.** 1

REASON FOR WORK: To recomplete in the Seven Rivers.

CONDITION OF HOLE:

TOTAL DEPTH: 7738' **ETD or PBTB:** 4410' **KB** **Drillers' DATUM IS** 13' **ABOVE:** G.L.

CASING RECORD: 11-3/4" 42# 8rd H-40 RT&C @ 312' w/225 sx (circ'd)
8-5/8" 28 & 32# J-55 & H-40 8rd RT&C @ 3066' w/400 sx
(TOC @ 9891' by calc).
5-1/2" 15.5# J-55 8rd RT&C @ 4275' w/200 sx (TOC @ 3132' by calc).
2875' @ 100%
3365' @ 65%
47
10328
@ 100%
1430 1400

PERFORATIONS: Open Hole (San Andres): 4275-4410'

TUBING DETAIL: 141 jts 2-3/8" 4.7# EUE 8rd w/SN @ 4339', perf'd sub @ 4343' & mud anchor Ind @ 4374'

ROD & PUMP DETAIL: 61 rods: 3/4" WCN
110 rods: 5/8" WCN
Pump: Highland RHBC 2" x 1-1/4" x 8' x 12'

REGULATORY AGENCY REQUIREMENTS: None

PROCEDURE:

1. MI RU DDP. POOH w/rods & pump.) NU BOP. POOH w/2-3/8" tbq. RU Computalog. Set CIBP @ 3700' to isolate San Andres. RIH w/dump bailer. Cap CIBP w/20' of cmt to meet New Mexico regulations. *4225'*
35 PRE TEST 1000#
2. Run CBL-CNL-GR @ ~~3600-1600~~ *4100* (2000' minimum) to determine TOC & obtain data for selecting perforations. *3100* *TOP CMT*
4100 → 2100
3. Perforate 4 squeeze holes in 5-1/2" csg w/4 JSPF @ 90° phasing @ 2900'. RD Computalog. - or pull 5 1/2" csg depending on CBL-
4. RIH w/5-1/2" pkr on 2-7/8" WS. SPA ±2890'. Squeeze 100 sx Class "C" cmt behind 5-1/2" csg to isolate the Seven Rivers. POOH w/WS & pkr. WOC.
5. RIH w/4-3/4" bit on 2-7/8" WS. D/O cmt. POOH w/bit & WS. RBIH w/2-7/8" WS. Swab fluid level down to 2500'. POOH w/WS.
6. RU Computalog. Perforate Seven Rivers zone underbalanced w/4" DP csg guns w/4 JSPF using 34 gram charges @ 90° phasing based on log indications, obtaining perforation depths from Reservoir Engineering (est to be 3000-3170'). POOH w/WL.
7. RIH w/5-1/2" pkr on 2-7/8" WS. SPA ±60' above top perf. Acidize Seven Rivers perms w/1000 gal 15% HCl w/NE, FE & LST using 1.3 SG BS's to divert (50% excess) @ 3 to 5 BPM & 3000 psi max. Swab/flow back load.

Condition of Hole and Procedure
C. H. Kyte Well No. 1
December 10, 1991
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8. POOH w/WS & pkr.
9. Run pkr on 2-3/8" tbg, hydrotesting tbg in hole to 5000 psi. Load backside w/pkr fluid. Return well to production as a flowing gas well.

ANDREWS DISTRICT ENGINEERING
TLC:ren

14C

1/27/92

UNOCAL

PREPARED BY <u>ILC</u>	CHECKED BY <u>ILC</u>	DATE <u>12-5-91</u>	PAGE 1 OF 1
SUBJECT <u>House (San Andres) Field</u>		C.H. Kyte #1	
		NO/A FE NO <u>622</u> County	

KB 3600'
DF 3599'
GL 3587'

TOC @ 489' —
By Calc

312' 11 3/4", 42, #8rd, H-40,
RT & C w/225 SX

Completed: 5-9-50

IP: 153 BOPD (San Andres)

3066' 8 5/8", 28 & 32, #J-55 &
H-40, 8rd, RT & C w/400 SX

3132' TOC By Calc (75.1.)
2 3/8, 4.7, #EUE 8rd w/Mud Anchor
Lnd @ 4374'

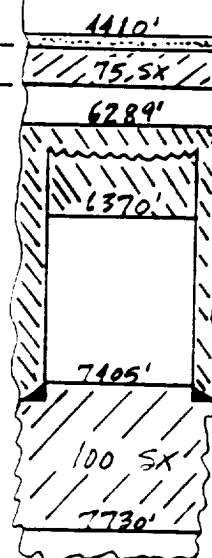
Open Hole 4275-4410'

4275' 5 1/2", 15.5, #J-55, 8rd, RT & C
w/200 SX

4338' 2 3/8" S.N.

4339' 2 3/8" Perf'd Sub

PBTD 4410' (Per Gravel) 4450' —
4639' —
TD 7738'



6321' Csg Cut

25 SX @ 6289-6370'

7509' 5 1/2", 15.5 & 17, #J-55,
8rd, RT & C w/150 SX