Form 9-331
Dec. 1973

N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☑ other

2. NAME OF OPERATOR
CONOCO INC.

3. ADDRESS OF OPERATOR
P. O. Box 460, Hobbs, N.M. 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FSL & 1980' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
LC-032581 (B)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
NMFU

8. FARM OR LEASE NAME
SHOLES B-19 Com

9. WELL NO.
4

10. FIELD OR WILDCAT NAME
JALMAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 19, T-25S, R-37E

12. COUNTY OR PARISH
LEA

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

RECEIVED
DEC 22 1983
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☑		☐
ABANDON*	☐		☐
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLEASE SEE ATTACHED PROCEDURE.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Administrative Supervisor DATE 12/20/83

APPROVED

(This space for Federal or State office use)

APPROVED BY (Orig. Sgd.) PETER W. CHESTER TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JAN 11 1984

*See Instructions on Reverse Side

SHOLES B-19 NO. 4

JALMAT RECOMPLETION

TD: 13,500' PBD: 10,335' ELEVATION: 3086' DF ZERO: 16' AGL

LOCATION: 1980' FSL & 1980' FWL, Sec. 19, T-25S, R-37E Lea County, NM

CASING: 20", 94#/ft, K-55 Conductor @ 40' w/5 CY Concrete
13-3/8", 54.5#/ft, K-55 @ 1050' w/1685 sxs
9-5/8", 43.5#/ft, C-75 @ 4360' w/1490 sxs
7", 29#/ft, C-75 & L-80 @ 13,500' w/1973 sxs circ.

PERFORATIONS: (Strawn) 8742', 46', 49', 55', 58', 63', 66', 68', 72', 8804', and 8814' w/1 JSPF Total: 11 Perforations

RECOMMENDED PROCEDURE:

1. MIRU, kill well if necessary w/clean 9.0# brine w/1:1000 Adomall and install BOP.

2. GIH w/6" drill bit, 7" casing scraper and 2-7/8" tubing, clean out to ±8720'.

3. POOH w/2-7/8" tubing, 7" casing scraper and 6" drill bit.

4. Rig up wireline services.
   A. GIH w/7" cement retainer, CCL and wireline.
   B. Set cement retainer @ ±8700'.
   NOTE: Casing collars @ 8633, 8675±, 8716±, 8759 and 8801. DV tool @ 8590'.
   C. POOH w/wireline and CCL.

5. GIH w/stinger sub and 2-7/8" tubing to ±8700'.
   A. Circulate hole clean with 9.0# brine w/1:1000 Adomall.
   B. Sting into cement retainer @ ±8700' and pressure up on backside to ±500 psi.
   C. Establish pump in rate and squeeze Strawn perforations from 8742'-8814' w/100 sacks class H neat cement (1.18 ft^3/sk yield), squeeze pressure not to exceed 2000 psi.
   D. Sting out of retainer and dump ±11' (2 sxs) on top of 7" cement retainer.
   E. Circulate excess cement out and displace well bore w/gelled 9.0# brine (25 sxs gel/100 bbls).

6. Spot ±24 sxs class C cement w/2% $CaCl_2$ from ±5700' to 5550' (150').

7. Spot ±24 sxs class C cement w/2% $CaCl_2$ from 4450' to 4300' (150').

8. NOTE: Allow a minimum of 12 hrs. curing time for cement plugs prior to proceeding.
   NOTE: All completion water from this stage on, shall be filtered.

9. Tag top of cement plug @ ±4300' and circulate hole clean w/9.0# brine w/1:1000 Adomall and 1:1000 Claymaster 3.

10. Spot ±168 gals (4.0 bbls) 15% NE-FE-HCl acid inhibited for 48 hours @ 90°F from ±2853' to ±2745', POOH w/2-7/8" tubing and stinger sub.

11. Rig up perforating services.
    A. GIH w/GR-CCL log and wireline.
    B. Log from ±3100' to 2600'.
    C. POOH w/wireline and logging tools.
    D. GIH w/4" decentralized hollow carrier casing gun loaded select fire as follows: (0° phasing, 0.50" EHD and 13.0# TTP minimum, 1 JSPF) CCL & wireline.
    E. Perforate from top to bottom as follows: 2766, 2772, 2776, 2786, 2800+, 2805, 2811, 2816, 2840, 2846, and 2850 w/1 JSPF. (Total: 11 Perforations)
    F. POOH w/wireline and casing gun.

12. GIH w/5-1/2" treating packer, SN and 2-7/8" tubing.
    A. Hydrotest tubing in hole to 6000 psi above the slips.
    B. Load backside w/9.0# brine w/1:1000 Adomall and Claymaster 3.
    C. Pressure up on backside to 1000 psi.

13. Rig up acidizing services to acidize w/±924 gals (22 bbls) 15% NE-FE-HCl acid inhibited for 24 hours @ 90°F as follows:
    NOTE: Monitor backside pressures during acidizing.
    Maximum surface pressures not to exceed attached chart.

    A. Pump in 924 gals (22 bbls) acid @ 8-10 BPM dropping 2 each 7/8" RCN ballsealers (1.3 Sg) after each 2 barrels acid pumped (Total: 22 ballsealers). Attempt ballout.
    B. Flush to perforations w/±24 bbls 9.0# brine w/1:1000 Adomall and Claymaster 3.
    C. Shut well in 1 hour minimum.

14. Release packer @ 2660'.
    A. GIH w/packer knocking off ballsealers.
    B. POOH w/2-7/8" tubing and 7" treating packer.
    C. Lay down 2-7/8" tubing.

15. GIH w/SN, 2-3/8" tubing and blast joint, set SN @ ±2760'. (Blast joint dimensions - 3.062" OD - 1.995" OD).

16. Swab well down as low as possible and load tubing w/100% CO_2.

17. Fracture treat interval 2766'-2850' w/gelled 2% KCL TFW, methanol and CO_2 down casing-tubing annulus @ 23 BPM as follows:

NOTE: Anticipated surface pressure @ 23 BPM is 1400 psi.

Maximum allowable surface treating pressure - 6528 psi.

A. Pump in 4,000 gals frac fluid * pad.
B. Pump in 500 gals frac fluid * w/1.0 ppg 20/40 sand.
C. Pump in 500 gals frac fluid * w/1.5 ppg 20/40 sand.
D. Pump in 2,000 gals frac fluid * w/2.0 ppg 20/40 sand.
E. Pump in 4,500 gals frac fluid * w/2.5 ppg 20/40 sand.
F. Pump in 10,000 gals frac fluid * w/3.0 ppg 20/40 sand.
G. Pump in 2500 gals frac fluid * w/3.0 ppg 10/20 sand.
H. Flush w/3,815 gals (16.1 tons) 100% CO_2.

NOTE: Sand concentrations at blender will be twice the amount shown above.

*FRAC FLUID COMPOSITION PER 1000 GALS (HALLIBURTON OR EQUIVALENT)

2% KCL TFW	--	350 gals	
Methanol	--	150 gals	
CO_2 (10,000 gals = 42.2 tons)	--	500 gals	
WG-11 (50# system TFW & methanol only)	--	25 lbs	
Adomite Aqua (TFW & methanol only)	--	25 lbs	
Frac flow CS (TFW only)	--	.35 gal	
Bactericide (Not Adomall - TFW only)	--	.35 gal	
Clay Sta II (TFW only)	--	.35 gal	
CW-1 (TFW only)	--	3.5 lbs	
2 hr. breaker	--As Recommended		
Total TFW	--	8400 gals	
Total Methanol	--	3600 gals	
Total CO_2	--	12,000 gals	51 Tons
Total Gals Frac Fluid w/Pad		24,000 gals	
Additional CO_2 - Load Tbg, Flush & Cool Down			25 Tons
Total CO_2			76 Tons
Total 20/40 Sand	--	46,500 lbs	
Total 10/20 Sand	--	7,500 lbs	

NOTE: ABOVE QUANTITIES ARE MINIMUM REQUIRED

18. Shut well in for 2 hours and proceed to Step 19.
(NOTE: Do not shut in well overnight).

19. Install choke, open well and bleed well slowly to pit.
    A. If well continues to flow, do not shut in.

20. Swab back remaining load if necessary.

21. Report results to Engineering.