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: 660' FSL & 1980' FWL
AT TOP PROD. INTERVAL: ✓
AT TOTAL DEPTH: ✓

5. LEASE
NM-2512

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
NMFU

8. FARM OR LEASE NAME
Hawk B-1

9. WELL NO.
6

10. FIELD OR WILDCAT NAME
Fusselman

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9 T21S, R37E

12. COUNTY OR PARISH
Lea

13. STATE
N.M.

14. API NO.

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

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) Complete		

RECEIVED
AUG 13 1982
OIL & GAS
MINERALS MGMT. SERVICE
ROSWELL, NEW MEXICO

(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.)*

We propose to complete the subject well as an Abo oil well. See attachments for procedures and BOP specs.

No additional surface disturbance required.

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

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

SIGNED W. A. Buttingtier TITLE Administrative Supervisor DATE 8/12/82

(This space for Federal or State office use)

APPROVED
(Orig. Sgd.) PETER W. CHESTER
AUG 18 1982
FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

HAWK B-1 #6

ABO COMPLETION

WELL DATA

TD: 7530' PBD: ±7485' ELEVATION: 3512' DF ZERO: 10' AGL

LOCATION: 660' FSL & 1980' FWL of Section 9, T21S, R37E,
Lea County, New Mexico

CASING: 13-3/8", 48#, H-40 Surface String @ 230' w/200 sx.
9-5/8", 36#, H-40 Intermediate string @ 2779' w/550 sx.
7", 23#, J-55 & N-80 Production String @ 6680' w/950 sx.
5", 14.87#, Hydril FJ Liner @ 7528' w/115 sx (I.D.: 4.408", Drift: 4.283").

PERFORATIONS: 5600' - 5840' - Blinbry - Squeezed
6590' - 6673' - Drinkard - Squeezed
7342' - 7344' - Fusselman (24 Perfs)

MISC: Liner Top @ ±6406'.

RECOMMENDED PROCEDURE

1) Rig Up & if necessary, kill well w/2% KCL TFW w/1 gallon Adomall per 1000 gals.

2) POOH w/2-7/8" tubing & tally.

3) GIH w/6-1/8" bit, 7" casing scraper, & 2-7/8" tubing.
   a) Run bit to top of liner @ ±6406'.
   b) POOH w/2-7/8" tubing, 7" casing scraper, & 6-1/8" bit.

4) GIH w/4-1/4" bit, 5" casing scraper, & 2-7/8" tubing.
   a) Run bit to +7350'.
   b) POOH w/2-7/8" tubing, 5" casing scraper, & 4-1/4" bit.

5) Rig Up Wireline Services.
   a) GIH w/5" CIBP, setting tool, & wireline.
   b) Set CIBP @ ±7300'.
      Collars located @ 7279'-, 7318'+, 7362'-, 7403', & 7447'.
   c) POOH w/wireline & setting tool.

6) GIH w/cement bailer & wireline.
   a) Dump 4 sx class "H" cement on top of CIBP. (Slurry Volume: 1.18 ft 3/sx & Slurry Weight: 15.6 lbs/gal.)
   b) POOH w/wireline & bailer.

7) GIH w/2-7/8" tubing open-ended.
   a) Spot 84 gallons (2 bbls) 15% HCL-NE-FE (Inhibit acid for 48 hours @ 115°F) From +7239' to +7133'.
   b) POOH w/2-7/8" tubing.

8) GIH w/CBL-PDC-GR logging tool & wireline.
   a) Log from +7250 to +5400'.
   b) POOH w/wireline & logging tool.

9) GIH w/3-1/8" decentralized select-fire gun (0° phase, 1 JSPF, & 0.40" EHD), collar locator & wireline.

10) Perforate lower ABO horizon @ 7139', 7141', 7153', 7168', 7175', 7184', 7202', 7204', 7228', & 7239'. (Total: 10 Perfs).

Above perforating depths are base on Nuetron-Porosity Log & are to be correlated w/PDC-GR Log ran in step 8.

Note: Interval is to be perforated from top to bottom.

11) POOH w/wireline, collar locator, & 3-1/8" perforating gun.

12) GIH w/5" retrievable bridge plug, setting-releasing tool, 5" packer, S.N., & 2-7/8" tubing.
   a) Hydro-Test tubing w/5000 psi above slips.
   b) Set retrievable bridge plug @ ±7250'.
   c) Spot 5' sand on top of retrievable bridge plug.
   d) Set packer @ ±7000'.
   e) Load backside w/2% KCL TFW w/1 gallon Adomall per 1000 gallons.

13) Acidize lower ABO (7139-7239') through 2-7/8" tubing @ 4-6 BPM with a maximum surface treating pressure of 5000 psi as follows:

Note: Monitor backside during treatment.

   a) Pump 840 gallons (20 bbls) 15% HCL-NE-FE (inhibit acid for 24 hrs @ 115° F)
   b) Release 2 ball sealers after every 2 bbls acid pumped except after last 2 bbls acid pumped. (Total: 18 ball sealers).
   c) Pump 50 bbls 2% KCL-TFW w/1 gallon Adomall per 100 gals.
   d) Shut in for 1 hour.
   e) Swab back load (±120 bbls).

14) Release packer @ ±7000'.
   a) Release retrievable bridge plug @ ±7250'.
   b) Set retrievable bridge plug @ ±7100'.
   c) Pressure test retrievable bridge plug w/1000 psi via packer.
   d) Spot 5' sand on top of retrievable bridge plug.
   e) Spot 84 gallons (2 bbls) 15% HCL-NE-FE (inhibit acid for 48 hours @ 115° F) From ±7076 to ±6969'.
   f) POOH w/2-7/8" tubing, S.N., 5" packer, & setting-releasing tool.

15) GIH w/3-1/8" decentralized select-fire perforating gun (1 JSPF, 0° phase, 0.40" EHD), collar locator, & wireline.

16) Perforate middle ABO interval @ 6997', 7000', 7005', 7007', 7026', 7030', 7034', 7041', 7043', 7065', 7067', 7072', & 7076'. (Total: 13 Perfs.)

Above perforating depths are based on Nuetron-Porosty Log & are to be correlated w/PDC-GR Log.

Note: Interval is to be perforated from top to bottom.

17) POOH w/wireline, collar locator, & 3-1/8" perforating gun.

18) GIH w/setting-releasing tool, 5" packer, & 2-7/8" tubing.
   a) Set packer @ ±6850'.
   b) Load backside w/2% KCL TFW w/1 gallon Adomall per 1000 gallons.

19) Acidize middle ABO interval (6997'-7076') through 2-7/8" tubing @ 4-6 BPM with a maximum surface treating pressure of 5000 psi as follows:

Note: Monitor backside during treatment.

a) Pump 1092 gallons (26 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115° F).
b) Release 2 ball sealers after every 2 bbls acid pumped, except after last 2 bbls acid pumped. (Total: 24 ball sealers.)
c) Pump 45 bbls 2% KCL TFW w/1 gal Adomall per 1000 gals.
d) Shut in for 1 hour.
e) Swab back load (±116 bbls).

20) Release packer @ ±6850'.
a) Release retrievable bridge plug @ +7100'.
b) Set retrievable bridge plug @ +6900'.
c) Pressure test retrievalbe bridge plug w/1000 psi via packer.
d) Spot 5' sand on retrievable bridge plug.
e) Spot 84 gallons (2 bbls) 15% HCL-NE-FE (inhibit acid for 48 hours @ 115° F) from +6861' to +6755'.
f) POOH w/2-7/8" tubing, S.N., 5" packer, & setting-releasing tool.

21) GIH w/3-1/8" decentralized select-fire perforating gun (0° phase, 1 JSPF, & 0.40" EHD), collar locator, & wireline.

22) Perforate upper ABO horizon @ 6784', 6785', 6829', 6831', 6843', 6845', 6859', & 6861'. (Total: 8 Perfs.)

Above perforating depths are based on Nuetron-Porosity Log & are to be correlated w/PDC-GR Log.

Note: Interval is to be perforated from top to bottom.

23) POOH w/wireline, collar locator, & 3-1/8" perforating gun.

24) GIH w/setting-releasing tool, 5" packer, S.N., & 2-7/8" tubing.
a) Set packer @ +6600'.
b) Load backside w/2% KCL TFW w/1 gal Adomall per 1000 gallons.

25) Acidize upper ABO horizon (6784'-6861') through 2-7/8" tubing @ 4-6 BPM w/a maximum surface treating pressure of 5000 psi as follows:

Note: Monitor backside during treatment.

a) Pump 672 gallons (16 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115° F).
b) Release 2 ball sealers after every 2 bbls acid pumped, except after last 2 bbls acid pumped. (Total: 14 ball sealers.)
c) Pump 45 bbls 2% KCL TFW w/1 gallon Adomall per 1000 gallons.
d) Shut in for 1 hour.
e) Swab back load (±106).

26) Release packer @ +6600'.
a) Release retrievable bridge plug @ +6900'.
b) POOH w/2-7/8" tubing, S.N., 5" packer, setting-releasing tool, & 5" retrievable bridge plug.

27) GIH w/orange-peeled slotted mud anchor, S.N., 19 jts 2-7/8" tubing, 5" tubing anchor, & 2-7/8" tubing.
   a) Set tubing anchor @ ±6650'.
   b) GIH w/6' gas dip tube, pump, & rods.
   c) Hang well on & place on production.

Lee L. Sprague — PRODUCTION ENGINEER — 8-9-82 DATE

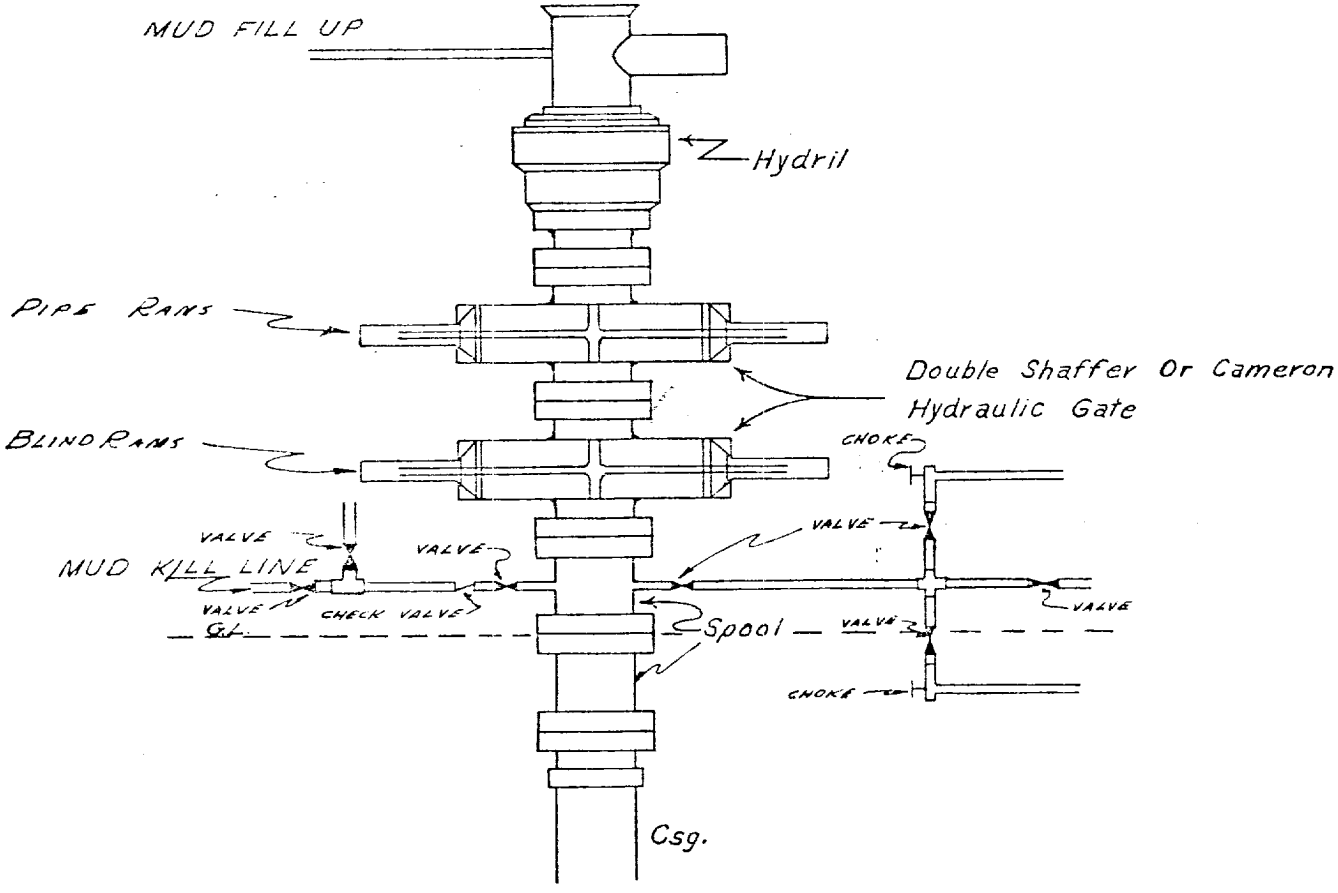
A.B. Ledbetter — SUPERVISING PRODUCTION ENGINEER — 8-10-'82 DATE

DIVISION ENGINEER — DATE

DRILLING SUPERINTENDENT — DATE

JLS/vm
cc: WELL FILE, DLW, HDM (4), LBD, FEP, CRP, JLS

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



API Series 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head. Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE, HYDRIL MAY OR MAY NOT BE USED.