Form 3160-3
(July 1989)
(formerly 9-331C)

CONTACT BLM SURFACE MANAGEMENT AGENCY OFFICE FOR NUMBER OF COPIES REQUIRED

(Other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☐ PLUG BACK ☒

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER — SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: Conoco Inc.

3a. Area Code & Phone No.:

3. ADDRESS OF OPERATOR: 10 Desta Drive West, Midland, TX 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FSL & 660' FWL
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: NM 0557686

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: SEMU

8. FARM OR LEASE NAME:

9. WELL NO.: 115

10. FIELD AND POOL, OR WILDCAT: Weir Drinkard

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 23, T20S, R37E

12. COUNTY OR PARISH: Lea

13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*:

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any):

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH:

20. ROTARY OR CABLE TOOLS:

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3523' G.L.

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5 lb	K-55	STC	1264'	1225 SX circ
12 1/4"	8 5/8"	32	K-55	STC	2780'	1233 Sx circ
7 7/8"	5 1/2"	15.5	K-55	STC	6987'	2547 Sx circ.

It is proposed to plug back from the Drinkard formation and recomplete this wellbore in the Tubb formation as outlined by the attached procedure and wellbore diagram.

RECEIVED
AUG 1 1990
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ARTESIA, OFFICE

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Jerry W Hoover TITLE Regulatory Coordinator DATE 7/26/90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 8-2-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly

Procedure Summary:

1. MIRU. POOH with production equipment.

2. RIH with 2-7/8" workstring and a 5-1/2"-17# scraper to 6625'. POOH and lay down scraper.

3. RIH w/CIBP and set at ±6600'. Spot 2 sacks Class "C" neat cement on bridge plug (17' plug).

4. Selectively perforate Tubb from 6370' to 6565'.

5. Perform acid breakdown.

6. Swab/flow back load and obtain production test.

7. Perform foam acid frac.

8. Swab/flow back load and obtain production test.

9a) If well is commercial, RIH w/production equipment required and place on production.

9b) If uneconomical, set CIBP at 6350'. A plug and abandonment procedure will follow.

SEMU NO. 115

Plug and Abandon Drinkard and Recomplete to Monument Tubb

Procedure

1. MIRU.

2. POOH w/production equipment.

3. Pick up and RIH with 5-1/2" - 17# casing scraper and 2-7/8" workstring to 6625'. POOH and lay down scraper.

4. RIH w/CIBP on wireline and set it at ±6600'. With a bailer, dump 2 sacks (17') cement on top of CIBP.

5. Pressure test casing to 1000 psig.

6. Run a base Gamma Ray-Temperature-CCL from 6583' (PBTD) to 6200'. This will be used for a comparison with a second log run after breakdown to determine degree of channeling.

7. RIH w/2-7/8" workstring to 6565'.

   a. Pickle tubing.

      1. Pump 750 gals 15% HCl-NE-FE acid followed by 20.0 bbls of completion fluid.
      2. Reverse out two tubing volumes (76 bbls) with completion fluid.
      3. Spot 5 bbls of 15% HCl-NE-FE from 6565' to 6370'.
      4. POOH w/workstring.

8. GIH w/4" hollow carrier select fire casing gun with CCL, loaded with 2 JSPF, 180 degree phasing, centralized gun, premium charge (>22 gram, min EHD = 0.44") and perforate the Tubb from top down as follows:

6370	6411	6428	6483
6372	6415	6443	6531
6374	6418	6447	6537
6376	6420	6455	6539
6401	6422	6465	6545
6409	6424	6480	6565

Total Holes = 48

9. RIH w/treating packer and workstring. Set packer at 6320'. Test backside to 500 psig.

10. Open the bypass and pump 2500 gallons 15% HCl-NE-FE (inhibited for 48 hours at 110°F and tagged with Cardinal's Tagmaster system) acid dropping

a total of 72 each 7/8" balls to divert the acid. Flush with 1800 gallons of 2% KCl water.

11. Rig up wireline company with 3000 psig lubricator and run Gamma Ray-Temperature-CCL post acid log.

12. Flow/swab back load and test well's productivity.

13. Pressure up casing to 500 psig and hold.

14. Acid frac Tubb at 15 BPM as follows:

    A. Pump 5000 gals 15% gelled HCl plus 2142 gal CO_2.
    B. Drop 8 7/8" ball sealers.
    C. Pump 5000 gallons 15% gelled HCl plus 2142 gallons CO_2.
    D. Drop 8 7/8" ball sealers.
    E. Pump 5000 gallons 15% gelled HCl plus 2142 gallons CO_2.
    F. Flush with 1800 gallons 2% KCl water plus 770 gallons CO_2.
    G. Obtain 0 min, 5 min, 10 min, and 15 min shut-in pressures.

15. Shut-in for two hours.

16. Flow/swab back load and test productivity.

    A. If commercial, place on production.
    B. If uneconomical, P&A procedure to follow.

Acid Specifications per 1000 Gallons
(BJ Titan Products or Equivalent)

Acid Breakdown:	15% HCl		
	1 gallon	CI-23	Inhibitor
	1 gallon	NE-2	Non Emulsifier
	5 gallons	FE-300L	Iron Sequesterant
Acid Frac:	15% HCl		
	1 gallon	CI-23	Inhibitor
	1 gallon	NE-2	Non Emulsifier
	5 gallons	FE-300L	Iron Sequesterant
	30 gallons	AG-11	Gel
	3 gallons	FAW-16	Foaming Agent

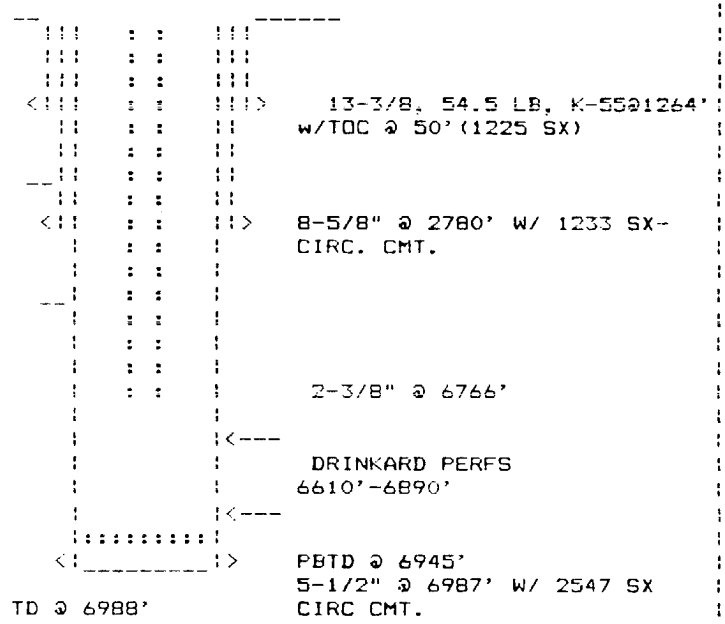
JFM:mjm
SEMU115.PRO

WELL: SEMU No. 115

PREPARED BY: JFMc
DATE: 3/27/90

LOCATION: 1980' FSL & 660' FWL SECTION: 23 TOWNSHIP: 20 SOUTH RANGE: 37 EAST
COUNTY: LEA STATE: NM
DATUM: 3535 GROUND LEVEL: 3523 TD: 6988 PBTD: 6945

CURRENT WELLBORE DIAGRAM



PROPOSED WELLBORE DIAGRAM