NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

Form 9-331 C
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-24130

C/SF

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM-24155

RECEIVED
APR 9 1982
O. C. D.
ARTESIA, OFFICE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Allen Federal

9. WELL NO.: 1

2. NAME OF OPERATOR: Exxon Corporation ✓

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, TX 79702

10. FIELD AND POOL, OR WILDCAT: Undesig. East Red Lake-Queen-Grayburg

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FEL and 860' FNL of Section
At proposed prod. zone: 660' FEL and 860' FNL of Section

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25, T16S, R28E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 10 miles NW from Loco Hills

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

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
460' / 460'	40	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**
None	2300'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 3664'

22. APPROX. DATE WORK WILL START*: March 20, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	225 sx CIRCULATE
7 7/8"	5 1/2"	14#	2300'	600 sx

BOP - Type II-C, 2000 WP

RECEIVED
MAR 1 1982
OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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 Melba Knipling TITLE Unit Head DATE February 26, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
(Orig. Sgd.) GEORGE H. STEWART
APR 7 1982
FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

Exxon Lse. No. _____ NEW MEXICO OIL CONSERVATION COMMISSION

State Lse. No. _____ WELL LOCATION AND ACREAGE DEDICATION PLAT

Federal Lse. No. _____

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
Exxon Corporation	Allen Federal	1

Unit Letter	Section	Township	Range	County
A	25	16 S	28 E	Eddy

Actual Footage Location of Well:
860 feet from the North line and 660 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3664	Penrose & Premier	Undesig. - East Red Lake - Queen - Grayburg	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

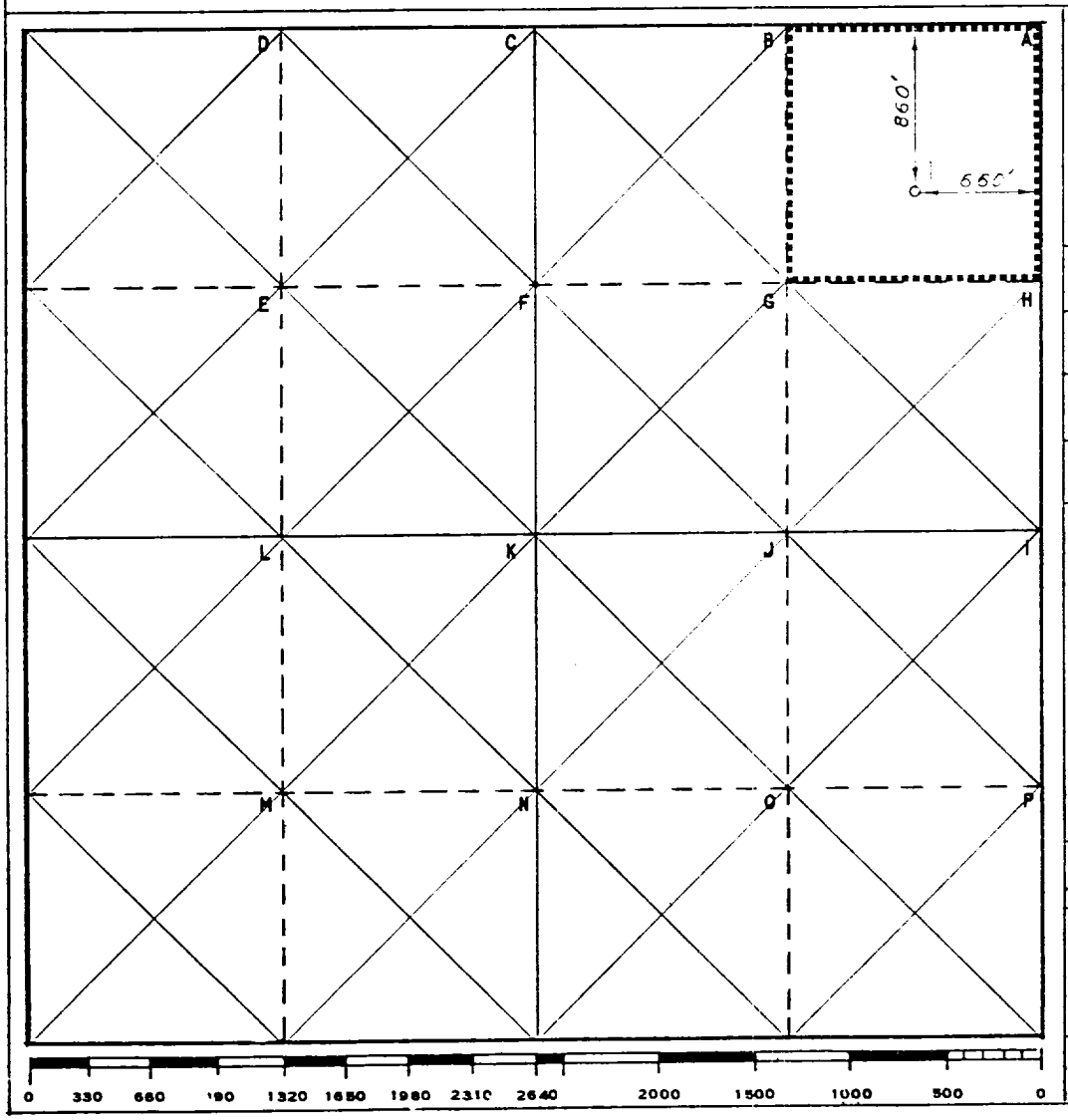
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name Melba Knipling

Position UNIT HEAD

Company Exxon Corporation

Box 1600 Midland, Texas

Date 2-24-82

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed 2-24-82

Registered Professional Engineer and/or Land Surveyor

Certificate No. 1382

10 NW Loco Hills NM-A-7587

ALLEN FEDERAL #1
EDDY COUNTY, NEW MEXICO
FEDERAL LEASE NO. NM-24155

1. The geologic name of the surface formation: Recent.

2. The estimated tops of important geologic markers:

Salado	280'
Yates	700'
Seven Rivers	920'
Queen	1675'
Grayburg	1830'
Premier Sd.	2190'

3. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to occur:

Water	280'
Oil & Gas	1675'
Oil	920'

4. Proposed Casing Program:

String	Size	Weight/Grade	Condition	Depth Interval
Surface	8-5/8"	24#/K-55	New or Used	0-350'
Production	5-1/2"	14#/K-55	New or Used	0-2300'

5. Minimum specifications for pressure control equipment.

a. Wellhead Equipment - Threaded type 2000 psi WP for 8-5/8" x 5-1/2" casing program and 2-7/8" tubing.

b. Blowout Preventers - Refer to attached drawing and list of equipment titled "type II-C" for description of BOP stack and choke manifold.

c. BOP Control Unit - Unit will be hydraulically operated and have at lease 4 control stations.

d. Testing - When installed on 8-5/8" surface casing the BOP stack will be tested to a low pressure (200-300 psi) and to 2000 psi. Casing rams will be tested in like manner when installed prior to running production casing. An operational test of the blowout preventers will be preformed on each round trip (but not more than once each day); the annular and pipe ram preventers will be closed on drill pipe, and the blind rams will be closed while pipe is out of the hole.

6. Type and Anticipated Characteristics of Drilling Fluid:

Depth Intervals (Feet)	Mud Type	Weight (ppg)	Funnel Visc. (Sec/Qt)	WL (cc)	pH
0- 350'	FW Mud	8.5-8.8	40-60	-	11.0
350-2300'	Cut Brine	8.6-9.2	20	10	11.0

7. Auxiliary Control Equipment:

   a. Kelly Cocks: Upper and lower installed on kelly.

   b. Safety Valve: Full opening ball type to fit each type and size of drill pipe in use will be available on rig floor at all times, in open position for stabbing into drill pipe when kelly is not in the string.

   c. Trip tank to insure that hole is full and takes proper amount of fluid on trips. Will be used during drilling of production hole.

   d. Mud system monitoring equipment and floats at the bit will not be used unless conditions dictate.

8. Testing, Logging, and Completion Programs:

   a. Logging: Surface casing to TD. DLL-HSFL-GR-FDC-CNL-GR-CAL

   b. Completion - Formation: Queen 1675' - 1830'

      Proposed Completion Procedure: *

   c. Production Method: Run packer on 2-7/8" tubing and set above Queen perforations. Produce Queen oil up the tubing.

9. Abnormal Pressure or Other Possible Hazards:

   a. No abnormal pressure anticipated.

   b. No. H_2S problem is expected.

10. It is anticipated that the drilling and completion operations will begin about March 15, 1982 and be finished in approximately 3 weeks.

* See attached completion procedure.

LLA/drh

RECOMMENDED COMPLETION PROCEDURE

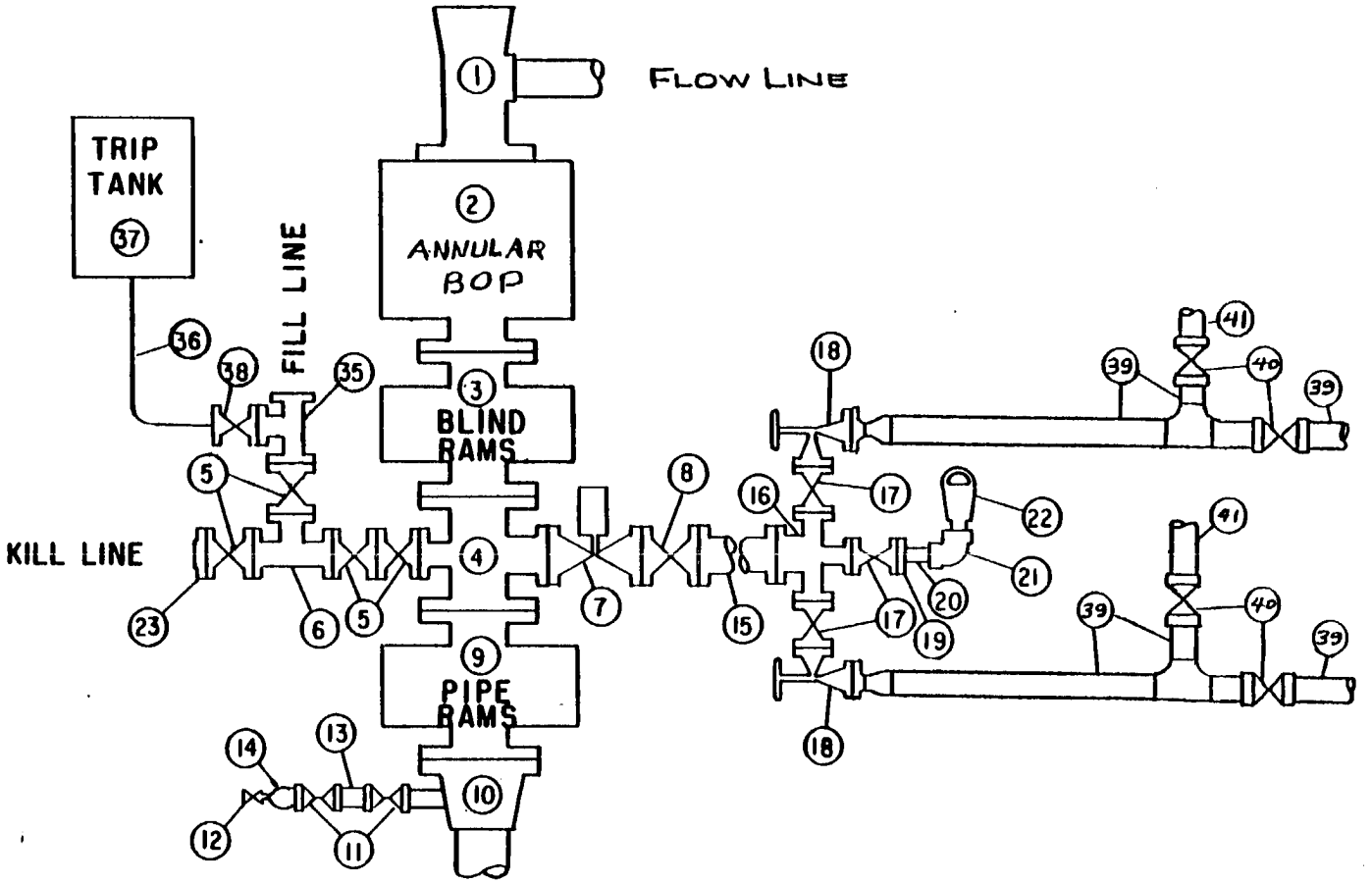
1. Run in hole with bit and scraper. Clean to TD.
2. Run GR/CCL log from TD to above pay zone.
3. Perforate about 1720'-1750' with approximately 60 shots.
4. RIH with bridge plug and packer.
5. Spot 500 gals 15% HCL across the perforations.
6. Sand-water frac with 15,000 gals gelled 2% KCL water and 80,000# sand.
7. Pull treating equipment out of hole.
8. Run tubing, rods and pump, as needed. Drop 5 gals of corrosion inhibitor down the tubing while running rods and pump.

LLA/drh
2/17/82

MIDLAND DRILLING ORGANIZATION

BLOWOUT PREVENTER SPECIFICATION

TYPE II - C



9/15/73

BLOWOUT PREVENTER SPECIFICATION
EQUIPMENT DESCRIPTION

TYPE II-C

All equipment should be at least 2000 psi WP or higher unless otherwise specified.

1. Bell nipple.
2. Hydril or Shaffer bag type preventer.
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5. 2-inch (minimum) flanged plug or gate valve.
6. 2-inch by 2-inch by 2-inch (minimum) flanged tee.
7. 4-inch pressure operated gate valve.
8. 4-inch flanged gate or plug valve.
9. Ram type pressure operated blowout preventer with pipe rams.
10. Flanged type casing head with one side outlet (furnished by Exxon).
11. 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon). Flanged on 5000# WP, threaded on 3000# WP or less.
12. Needle valve (furnished by Exxon).
13. 2-inch nipple (furnished by Exxon).
14. Tapped bull plug (furnished by Exxon).
15. 4-inch flanged spacer spool.
16. 4-inch by 2-inch by 2-inch by 2-inch flanged cross.
17. 2-inch flanged plug or gate valve.
18. 2-inch flanged adjustable choke.
19. 2-inch threaded flange.
20. 2-inch XXH nipple.
21. 2-inch forged steel 90° Ell.
22. Cameron (or equal.) threaded pressure gage.
23. Threaded flange.

35. 2-inch flanged tee.
36. 3-inch (minimum) hose. (Furnished by Exxon).
37. Trip tank. (Furnished by Exxon).
38. 2-inch flanged plug or gate valve.
39. 2-1/2-inch pipe, 300' to pit, anchored.
40. 2-1/2-inch SE valve.
41. 2-1/2-inch line to steel pit or separator.

NOTES:

1. Items 3, 4 and 9 may be replaced with double ram type preventer with side outlets between the rams.

2. The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.

3. Kill line is for emergency use only. This connection shall not be used for filling.

4. Replacement pipe rams and blind rams shall be on location at all times.

5. Only type U, LWS and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.

6. Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.