

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

NM 8419

6. IF INDIAN, ALLOTTED OR TRIBE NAME

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

Inexco Oil Company

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7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Arroyo Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Morrow Wildcat

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

26 T21S-R22E

3. ADDRESS OF OPERATOR

308 Lincoln Tower Bldg., Denver, CO 80295

MAY 11 1977

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE 1/4 SW 1/4 Sec. 26, T21S, R22E

O. C. C.
ARTESIA. OFFICE

At proposed prod. zone

1980' FSL and 1980' FZ

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

From Carlsbad, 12 mi. N. on Hwy 285; 8.7 mi. W. on Hwy 137;
West 10.1 miles at fork, North 2 miles.15. DISTANCE FROM PROPOSED
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660

16. NO. OF ACRES IN LEASE

1120

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

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

19. PROPOSED DEPTH

9400

20. ROTARY OR CABLE TOOLS

Rotary

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

4224 GR

22. APPROX. DATE WORK WILL START*

April 20, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	± 200'	To Surface
12 1/4"	8 5/8"	24#	± 2000'	To Surface
7 7/8"	5 1/2"	17#	Thru deepest pay	350 sx

SEE ATTACHMENT "A"

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APR 11 1977

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Gas sales not dedicated

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

J. D. BUNDY

TITLE

Drilling Superintendent

DATE

March 31, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

DECLARED WATER BASIN
13 3/8"CEMENT BEHIND THE
CASING MUST BE CIRCULATED
DATE 8 3/8"

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE OPERATIONS

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES AUG - 1 1977

*See Instructions On Reverse Side

NOTIFY USGS IN SUFFICIENT TIME TO
WITNESS CEMENTING THE CASING.
8 3/8"

APPROVED

MAY - 9 1977

ACTING DISTRICT ENGINEER

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION AT

MAR 28 1977

All distances must be from the outer boundaries of the section

DRILLING DEPT. DENVER
1

INEXCO OIL COMPANY		ARROYO FED.	
K	26	21 South	22 East
1980		South	1980 West
4223.8	Morrow	Undesignated	320

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the owner(s) thereof (both as to working interest and royalty). All contained under Federal No. NM-8419
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc? Not applicable

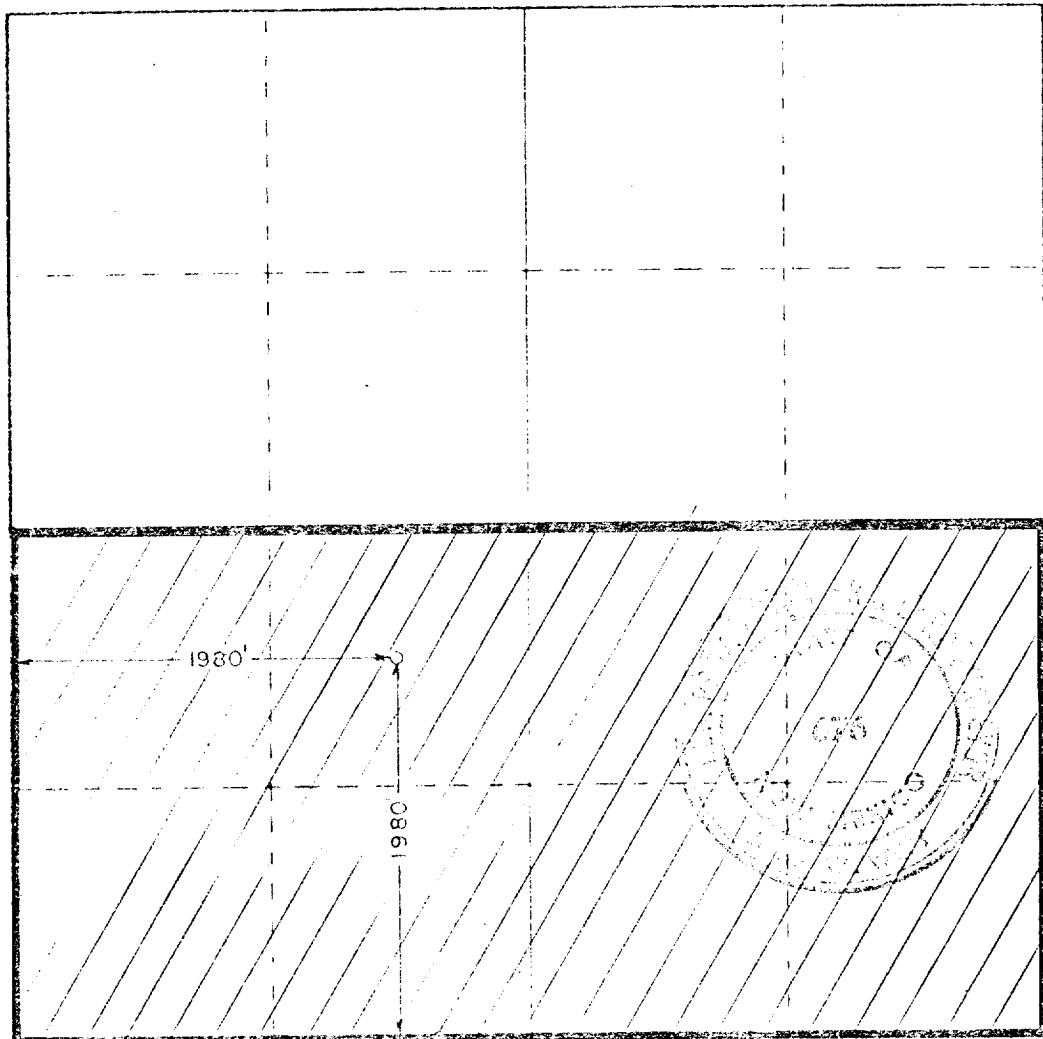
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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

☐ Yes ☐ No If answer is "yes," type of consolidation _____
If answer is "no," list the owners (and tract descriptions which have actually been consolidated) on the 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.

J. D. Bundy

J. D. Bundy

Drilling Superintendent

Inexco Oil Company

March 31, 1977

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.

March 25, 1977

Registration of this plat is required by law.

John W. West

ATTACHMENT "A"

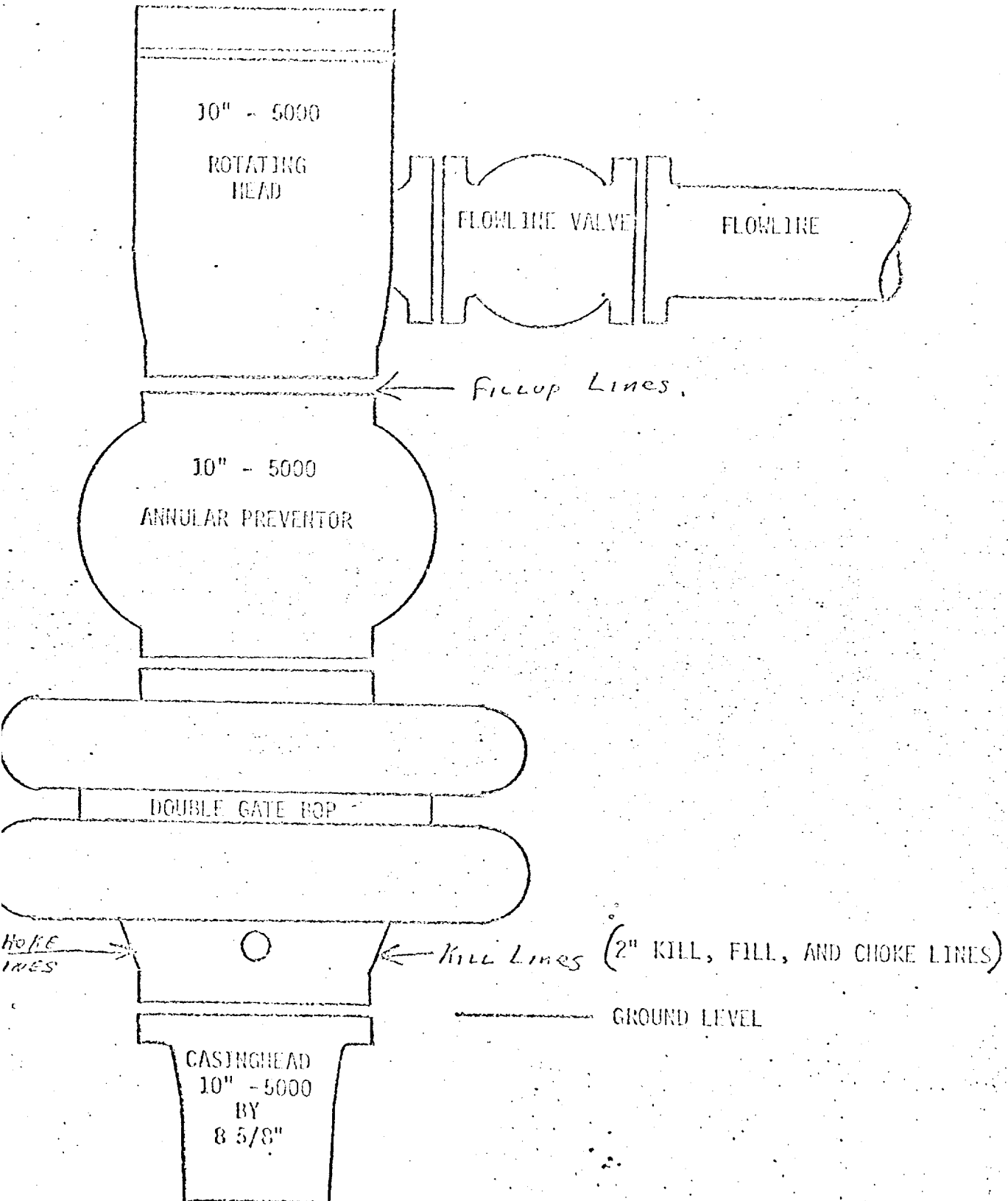
Arroyo Federal #1
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 26, T21S, R22E
Eddy County, New Mexico
NM 8419

1. Surface Formation: Greyburg
2. Estimated Formation Tops: San Andres-362' (+3861), Glorieta-1848' (+2375), Upr Abo-4523' (-300), Lwr. Abo-4693' (-470), U. Wolfcamp reef-5228' (-1005), M. Wolfcamp reef-6243' (-2020), Lwr. Wolfcamp det-6698' (-2475), basal Wolfcamp det-6873' (-2650), Cisco reef-7293-7373' (3070 to 3150), Canyon limestone 7613-7693' (-3390 to 3470), Lwr Strawn-8153-8233' (3930 to -4010), Atoka-8533-8613' (-4310 to -4390), Morrow limestone-8703-8783' (-4480 to -4560), Morrow A Zone-8818-8898' (-4595 to -4675), Morrow B limestone-8853-8933' (-4630 to -4710), Morrow C Zone 9048' 9128' (-4825 to -4905), TD in Miss.-9400' (-5177')
3. Estimated Depths at which oil, water, gas or other mineral bearing formations are expected to be encountered: Fresh Water 0-200', Water Sands 200-TD intermittent, Oil and Gas 200-TD intermittent.
Above to be evaluated while drilling.
4. Casing Program: Surface Casing in 17 $\frac{1}{2}$ " hole, 0-200', 13 3/8-48#-H40-ST&C
Intermediate Casing in 12 $\frac{1}{4}$ " hole, 0-2000', 8 5/8-24#-K55-ST&C
Production Casing in 7 7/8" hole, 0-7700', 5 $\frac{1}{2}$ -17#-K55-LT&C
7700-9400', 5 $\frac{1}{2}$ -17#-N80-LT&C
5. Pressure Control Equipment: 200' to 2000', 12"-900 Series. Double Hydraulic BOP Pressure Tested once with daily operational checks. 2000' to TD. 10"-5000psi WP Double Gate and Hydril. Pressure test will be done to 5000 psi on rams and 2500 psi on annular preventor. A 3" choke manifold will be installed and tested to 5000 psi at intermediate point.
6. Drilling Mud Program: 0-4800'-Fresh water with minimum weight and viscosity.
4800-TD-Brine water with sufficient viscosity to clean hole.
Weight 9.0-9.3 ppg with brine and 2-3% KCl.
7. Auxillary Equipment Required: (a) Kelly cocks will be used. (b) No drill pipe floats will be allowed at any time. (c) A full opening floor stabbing valve will be on the floor. (d) Mud system will be visually monitored at all times.
8. Logging, Testing, and Coring Program: DST's as warranted by drilling time and sample shows. Logs: Dual Induction Laterolog 200-TD (2 runs), BHC Acoustic DLL and RXO 2000-TD, GR-BHC Density-Neutron 200-TD (2 runs), Dipmeter 2000-TD
9. Abnormal Conditions: No extreme abnormalities of temperature, pressure, or H₂S are expected.
10. Anticipated starting date: April 20, 1977, Estimate 45 drilling days and 20 completion days.
11. Productive zones will be perforated, treated and tested. Gas will be flared during testing periods. Produced water during testing will be contained in the unlined drilling reserve pit. All possible oil will be stored and sold.

ANNULAR PREVENTOR SCHEMATICS

MEXCO OIL COMPANY

WELL NAME: Arroyo Federal #1
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 26 T21S R22E
Eddy County, New Mexico



BOP REQUIREMENTS

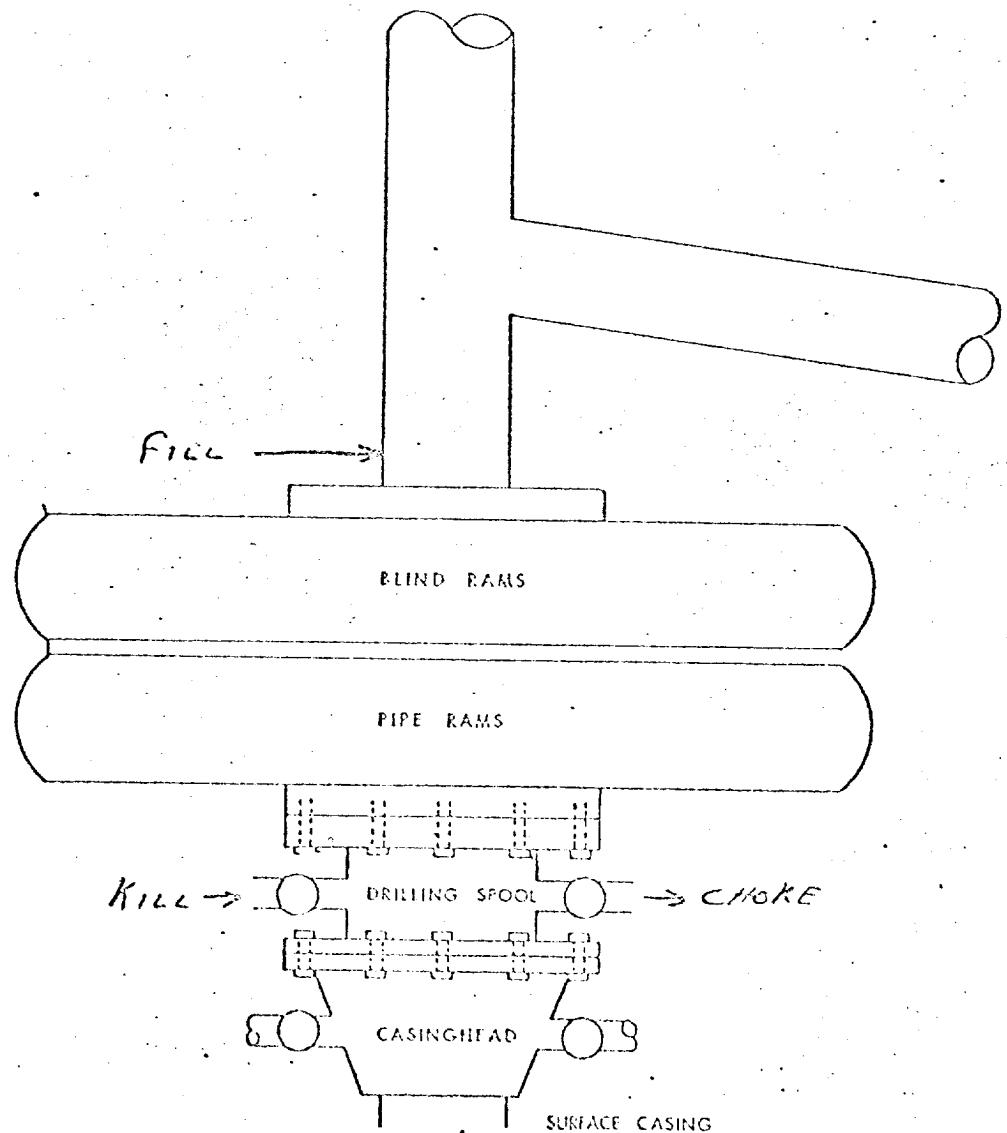
MINIMUM REQUIREMENTS

CASINGHEAD - 11000 CHOKE WITH
CONSIDERATION OF DEPTH & PRESSURE

DRILLING SPOOL - 12" 3000 PSI TOP & BOTTOM
WITH 2 - 2" - 3000 PSI OUTLETS W/ 2 - 2"
3000 PSI VALVES

BLOWOUT PREVENTOR - 12" - 3000 PSI W/ DOUBLE
GATE HYDRAULICALLY OPERATED WITH 2 REMOTE
STATIONS & HANDWHEELS

BLIND RAMS WILL BE ON TOP



FRONT
WALL

