

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

3. ADDRESS OF OPERATOR

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

At surface

1050' FSL & 930' FEL OF SEC. 10

At proposed prod. zone

SAME

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

2559.16

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

5920'

20. ROTARY OR CABLE TOOLS

ROTARY

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

6892' GR

22. APPROX. DATE WORK WILL START*

5-25-77

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 1/2"	24#	500'	250 SX CIRC.
7 7/8"	5 1/2"	15.5#	5920'	950 SX.

IT IS Proposed to Drill A straight Hole To A
T.D. OF 5920' & complete AS A Blanco Mesa Verde
Gas well. SEE MUD PROGRAM (No. 1) ON ATTACHMENT
SEE ATTACHED FOR B.O.P. PROGRAM.
Acreage is Dedicated to A Gas Purchaser.

SEE ATTACHED PROPOSED WELL PLAN FOR
FORMATION TOPS, LOGGING, ETC.

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

TITLE

ADMIN. SUPR.

DATE

3-11-77

(This space for Federal or State official use)

PERMIT NO.

APPROVED

APPROVAL DATE

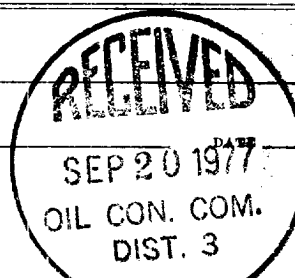
APPROVED BY

CONDITIONS OF APPROVAL JUN 13 1977

TITLE

CARL A. BARRICK
ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side



Durango (6), Gas co. N.M. (2), Exxon, MTH, BEA, F, 1, 2 (2)

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator CONTINENTAL OIL COMPANY				Lease AXI AP/CHE "K"		Well No. 5-A
Unit Letter P	Section 10	Township 26 NORTH	Range 5 WEST	County RIO ARriba		

Actual Footage Location of Well:
 1030 feet from the **SOUTH** line and 950 feet from the **EAST** line
 Drilled Level Elev. **6892** Fracturing Formation **MESA VERDE** Pool **BLANCO** Dedicated Acreage **320**

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 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, force-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

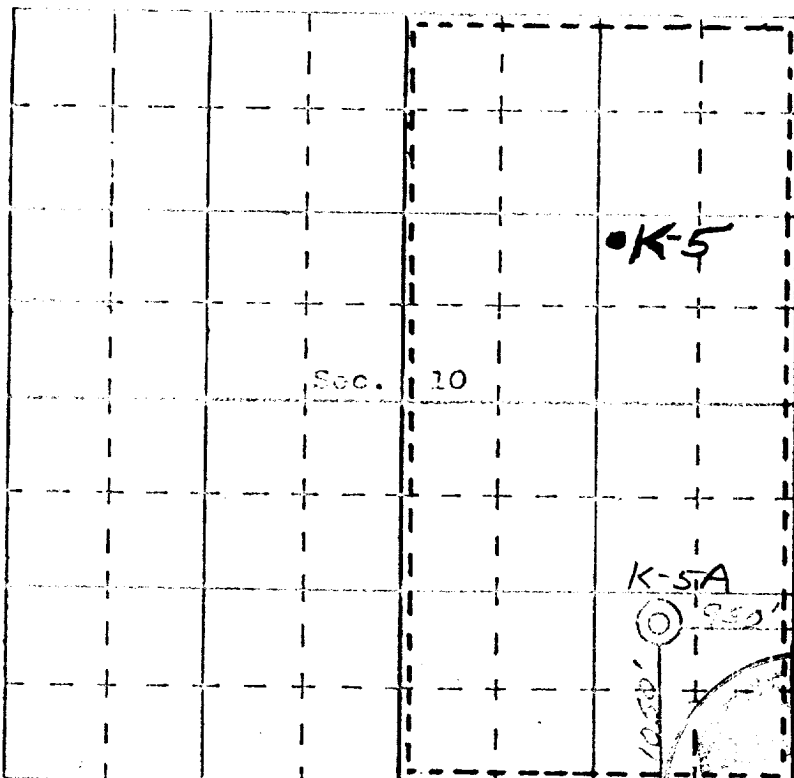
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **Wm. A. Tuller**
 Position **ADMIN. SUPERV**
 Company **CONTINENTAL OIL CO.**
 Date **3-11-77**
 INO. **1463**

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

2 February, 1977
 Date Surveyed

James P. Loose
 Registered Professional Engineer
 and/or Land Surveyor
James P. Loose
1463
 Certificate No.



Attachment To Form 9-331C
Application For Permit To Drill

Continental Oil Company, AXI Apache K No. 5-A
1050' FSL and 930' FEL of Section 10, T-26N, R-5W
Rio Arriba County, New Mexico

1. The geologic name of the surface formation is Cretaceous Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

Surface - new 8 5/8" 24# K-55 set at 500'
Production - new 5 1/2" 15.5# K-55 set at 5940'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-500' Fresh Water	8.5-9.0 pounds per gallon
500'-5940' Fresh Water Gel	9.0-9.5 pounds per gallon
7. The auxiliary equipment to be used is:
 - (1) Kelly cocks
 - (2) Floats at the bit
8. It is proposed to run SP-IES log from TD to surface, GR CAL FDC from TD to 3000' and PDC logs at selected intervals.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is May 25, 1977, with a duration date of approximately 2 1/2 weeks.

PROPOSED WELL PLAN

AXI Apache K 5-A

Rio Arr. 00, N. Mex.

Well Name 1050' FSL, 930' FEL

County & State

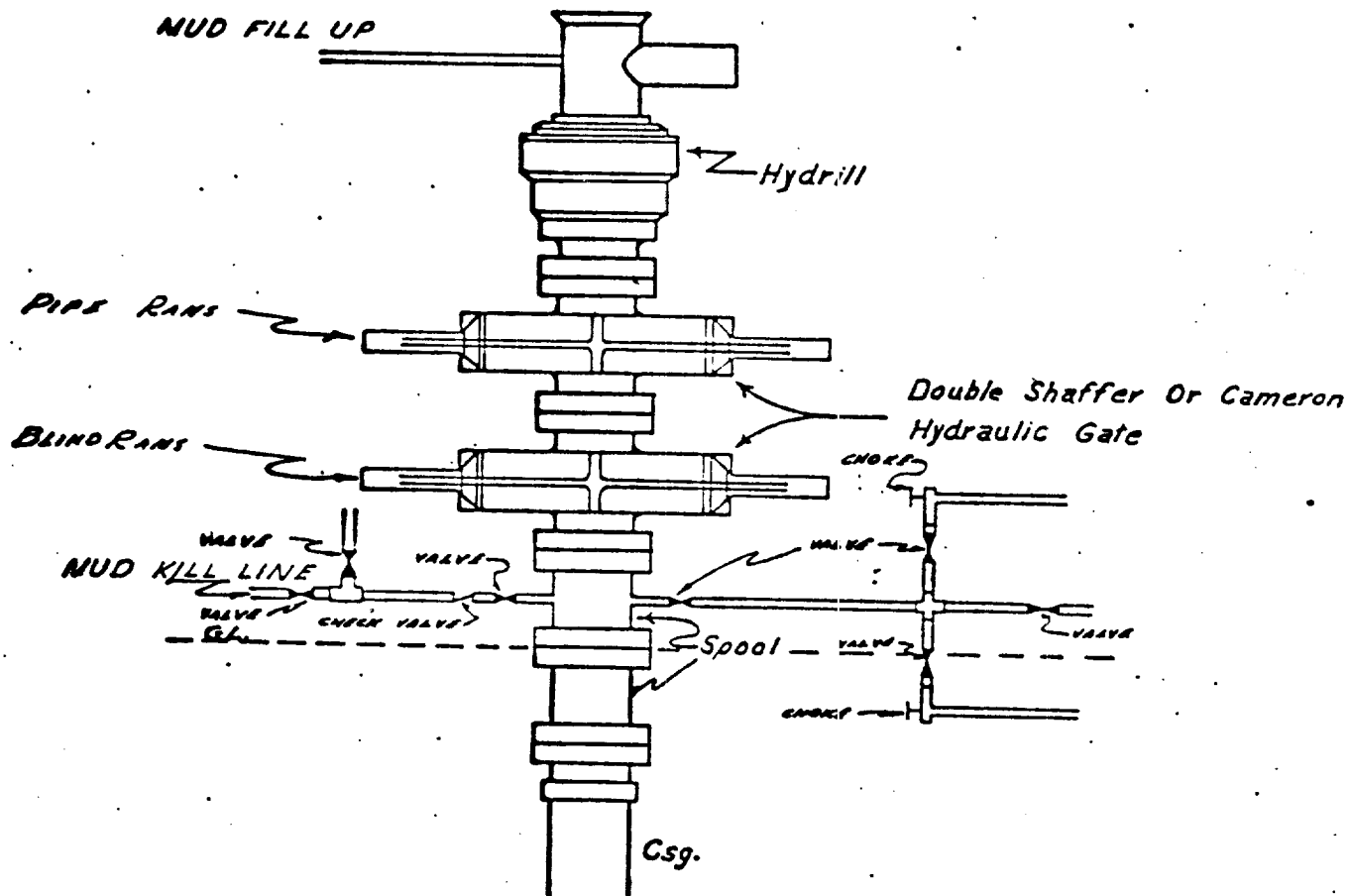
Location: Sec 10, T26N, 5W

Elev:

6882 KB

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	VOLUME
0-100	Potaceous									
0-100	Fresh - wh sl. o.s.w.			12 1/4	8 5/8	500			8.5-9	F
100-200	Kirtland 3070 shale		Well Logs							
200-300	Fruitland 3320 Gas		SP - IES							
300-400	Pic. Cliffs 3470 Gas		TD - SURFACE 2" & 5" SCALES							
400-500			GR-CAL-FDC							
500-600			TD - 3000' 2" & 5" SCALES							
600-700			PDC							
700-800	Cliffhouse 5160 Gas & Wt.		SELECTED INTERVALS							
800-900	Point Lookout 5670 Gas									
900-1000	TD 5920			7 7/8	5 1/2"	5920			8.5-9	F

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,
HYDRILL MAY OR MAY NOT BE USED.

AXI APACHE K No. 5-A