

(November 1983)
(formerly 9-331C)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other actions on side)

Oil approved.
Budget Bureau No. 1004-05
Expires August 31, 1985

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

J.C. Williamson

3. ADDRESS OF OPERATOR

P.O. Box 16 Midland, Texas 79702

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

At surface

990' FSL & 2160' FEL

RECEIVED

MAY - 8 1992

At proposed prod. zone

same

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

13 miles NE of Carlsbad, NM

O. C. D.
REGIONAL OFFICE

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

990'

16. NO. OF ACRES IN LEASE

640

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.

1000'

19. PROPOSED DEPTH

5100'

20. ROTARY OR CABLE TOOLS

Rotary

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

3277.6' GR

22. APPROX. DATE WORK WILL START*

June 1, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	250'	circulate
14-1/2"	11-3/4"	42#	1200'	circulate
11"	8-5/8"	24# & 32#	2900'	cmt. back
7-7/8"	5-1/2"	15.5#	5100'	600' above pay

Please Note: The Archaeology report for the TOG #6 and alternate locations on file BLM - Reference: Cultural inventory report # 91-NM-067-123.

***This page re-submitted per telecon Adam Salamai/BLM 04-27-92 + Supplemental Drilling Data

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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 prevention program, if any.

24.

SIGNED

J.C. Williamson

TITLE

Owner

DATE

04/06/92

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APR 14 1992
CARLSBAD RESOURCE AREA

APPROVED BY

TITLE

DATE

5-7-92

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator J.C. Williamson			Lease T. O. G. Federal		Well No. 6
Unit Letter 0	Section 16	Township 20 South	Range 29 East	NMPM	County Eddy

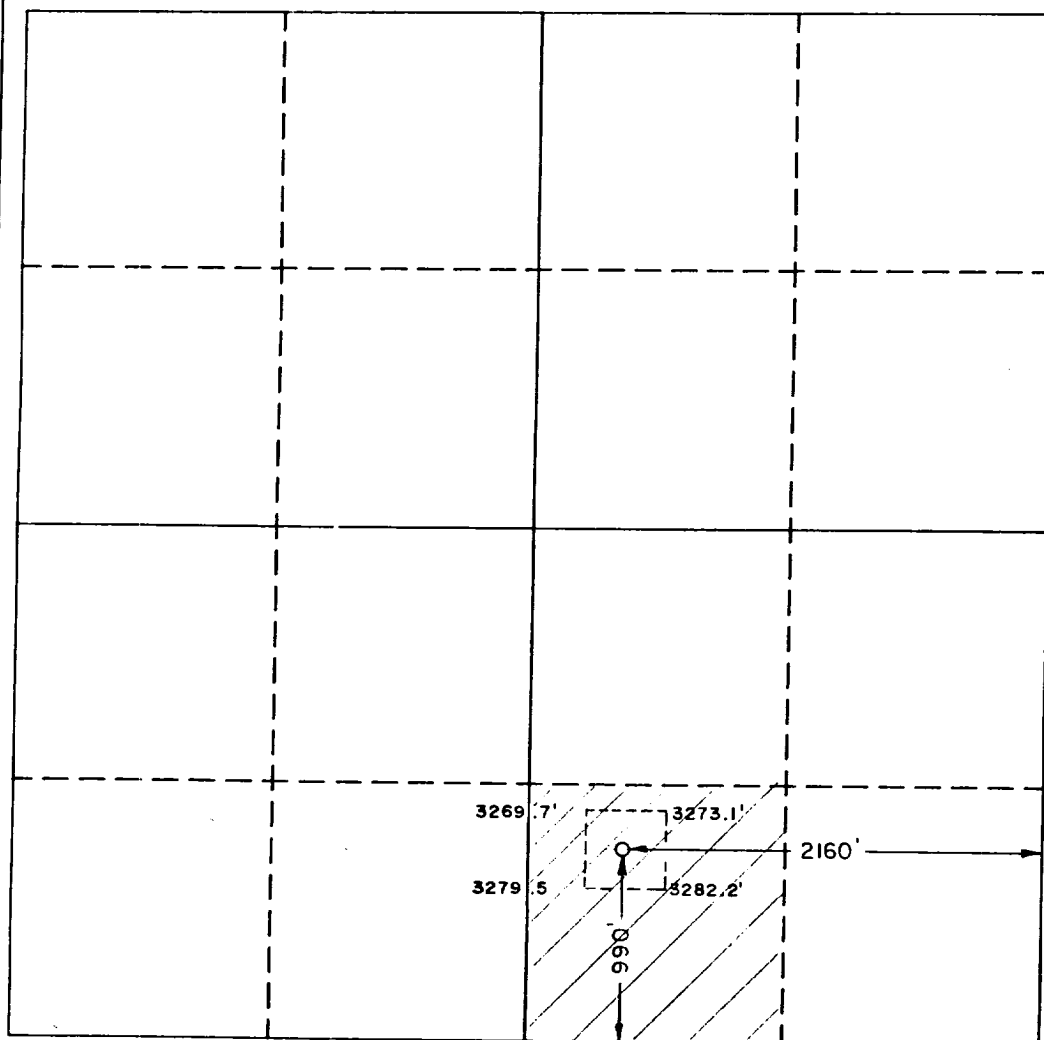
Actual Footage Location of Well:

990 feet from the south line and 2160 feet from the east line			
Ground Level Elev. 3277.6'	Producing Formation Delaware	Pool East Burton Delaware	Dedicated Acreage: 40 Acres

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 interest of all owners been consolidated by communization, unitization, force-pooling, e't.c.?
☐ Yes ☐ No If answer is "yes" type of consolidation N/A

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. N/A)

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



OPERATOR CERTIFICATION

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

Signature

Jan Pfister

Printed Name

Geological

Position

J.C. Williamson

Company

04/06/92

Date

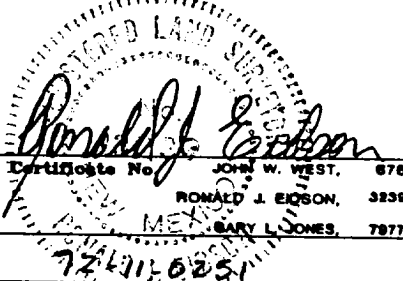
SURVEYOR CERTIFICATION

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

February 20, 1992

Signature & Seal of
Professional Surveyor



SUPPLEMENTAL DRILLING DATA

J. C. WILLIAMSON
TOG Federal #6

1. SURFACE FORMATION: Quaternary Alluvium

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	150'
Tansil	1050'
Yates	1200'
Goat Seep Reef	1400'
T/Delaware Sand series	3100'
T/Lower Delaware	5400'
T/Bone Springs Lime	5850'
T/First Bone Springs Sand	6050'

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	above 200'
Delaware Sand Oil	3350' - 5100'

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 3160-3.

Hole for surface casing will be drilled to 250'. 11-3/4" surface casing will be run to 1200' and will be cemented to the surface with 1000 sacks of Class "C" cement.

8-5/8" casing will be run and cemented at 2900', prior to entering Delaware section and will be cemented with 400 sacks of Class "C" cement at 2900', tying same back into surface casing.

5-1/2" casing will be run to total depth and will be cemented at 5100' if significant shows are encountered in the Delaware Sand formation.

5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of a 3000# double ram hydraulically controlled blow out preventer and a 3000# choke manifold.

6. CIRCULATING MEDIUM:

The circulating medium will be fresh water down to 1200' and fresh water down to 2900' if possible, and brine water below 2900'.

7. AUXILARY EQUIPMENT:

Not Applicable.

8. TESTING, LOGGING AND CORING PROGRAM:

Formation testing will be made by conventional drill stem test; however none are anticipated.

It is planned that a compensated neutron-density gamma ray and gamma ray dual laterolog will be run when total depth is reached, with a backup computer analysis utilizing these logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence on June 1, 1992, or as soon as application is approved.

SURFACE USE AND OPERATIONS PLAN

FOR

J. C. WILLIAMSON

TOG FEDERAL #6

990' FSL & 2160' FEL Sec. 16, T-20-S, R-29-E
EDDY COUNTY, NEW MEXICO

LOCATED: 13 air miles Northeast of Carlsbad, New Mexico

FEDERAL LEASE NUMBER: NM 0554771

LEASE ISSUED: September 1, 1964

RECORD LESSEE: TX0, et al

ACRES IN LEASE: 640

SURFACE OWNERSHIP: Federal

POOL: East Burton Flat Delaware

ATTACHMENTS:

- A. General Road Map
- B. Plat Showing existing well and existing roads
- C. Lease Plat
- D. Drilling Rig Layout
- E. BOP Diagram

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a road map showing the location of the proposed well. Access to the location will be gained by using an existing road.
- B. Exhibit "B" is a plat showing existing roads in the vicinity of a well site. Existing roads are shown by a double black line.
- C. The road east of the location is a well-improved road and will not need to be improved.

2. PLANNED ACCESS ROAD:

No new road is necessary since the location is 180' from the nearest improved road.

- A. SURFACING MATERIAL: Some surfacing material may be needed for the prepared location. If necessary, 4" caliche, watered and compacted will be used in those areas of the road where water might stand during a rain storm.
- B. MAXIMUM GRADE: One-half Percent.
- C. TURNOUTS: None required.
- D. DRAINAGE DESIGN: Old road has a drop of six inches from the center on each side.
- E. CULVERTS: None required.
- F. CUTS AND FILLS None necessary. Only clearing and minor leveling will be required on the location.
- G. GATES AND CATTLE GUARD: No fence will need to be cut in conjunction with drilling operations so no cattleguard will be needed.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells in the area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are no existing facilities on this 40 acres that may be used for production facilities for this well.
- B. If production is encountered, the needed production facilities will be located on the lease pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Fresh water necessary for drilling will be purchased and hauled to the well site over existing roads, brine water will be hauled for make up water of the 11" and 7-7/8" hole.

6. SOURCE OF CONSTRUCTION MATERIALS:

Material needed for road and location improvement will be obtained from an approved caliche pit located one mile east of the location along the main east/west road in the area.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of the drilling pit.
- B. Drilling fluid will be allowed to evaporate in the drilling pit until the pit is dry.
- C. Water produced during testing of this well will be disposed of in the drilling pit. Oil produced during test will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be hauled away. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "D"
- F. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

- A. None Required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, trash pit, and the location of major rig components.
- B. Only minor leveling of the well site will be required, No significant cut and fill will be necessary.
- C. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash, junk and all material hauled away so as to leave the well site in as an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special abandonment rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible. No location will be reclaimed and reseeded prior to well abandonment.

11. OTHER INFORMATION:

- A. TOPOGRAPHY: The land surface is relatively level. Regional slope is to the southwest.
- B. SOIL: The top soil at the well site is a gravelly, loamy sand.
- C. FLORA AND FAUNA: The vegetative cover is sparse and consists of mesquite, grease wood, yucca, weeds and range grasses, wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
- D. PONDS AND STREAMS: The Pecos River is approximately five and one-half miles West of the proposed well site.
- E. RESIDENCE AND OTHER STRUCTURES: There are no occupied dwellings or operating windmills within one mile of proposed well site.
- F. ARCHAEOLOGICAL, HISTORICAL, AND OTHER CULTURAL SITES: None observed in the area.
- G. LAND USE: Grazing and hunting in season.
- H. SURFACE OWNERSHIP: Federal.

12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan is:

J. C. Williamson
890 One First City Center
Midland, Texas 79701
Attention: J.C. Williamson
Office Phone: 915-682-1797
Home Phone: 915-682-8357

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by J. C. Williamson and its contractors and subcontractors in conformity with this plan and the term and conditions under which it is approved.

4-1-12
DATE

J. C. Williamson
J. C. WILLIAMSON, OPERATOR

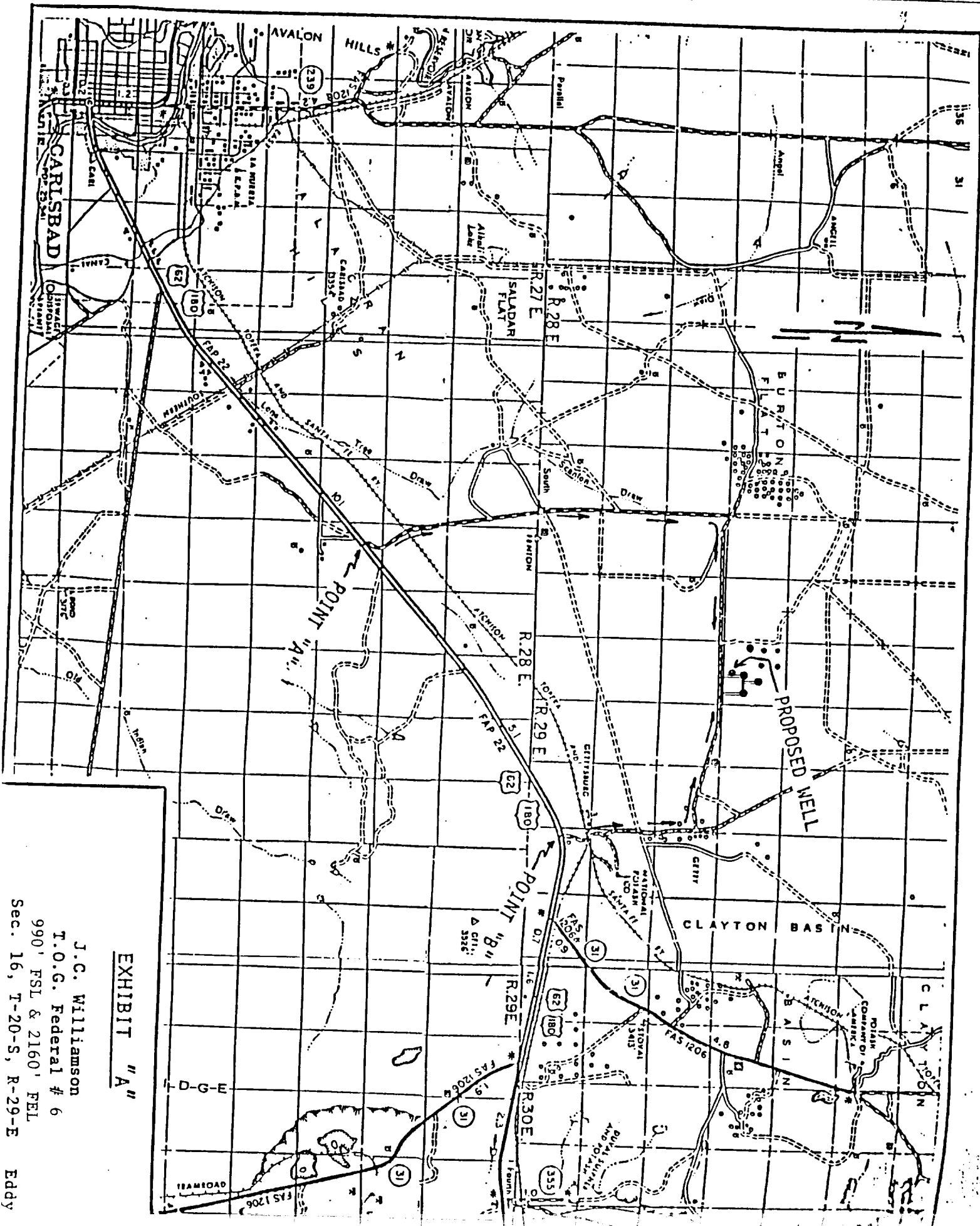


EXHIBIT "A"

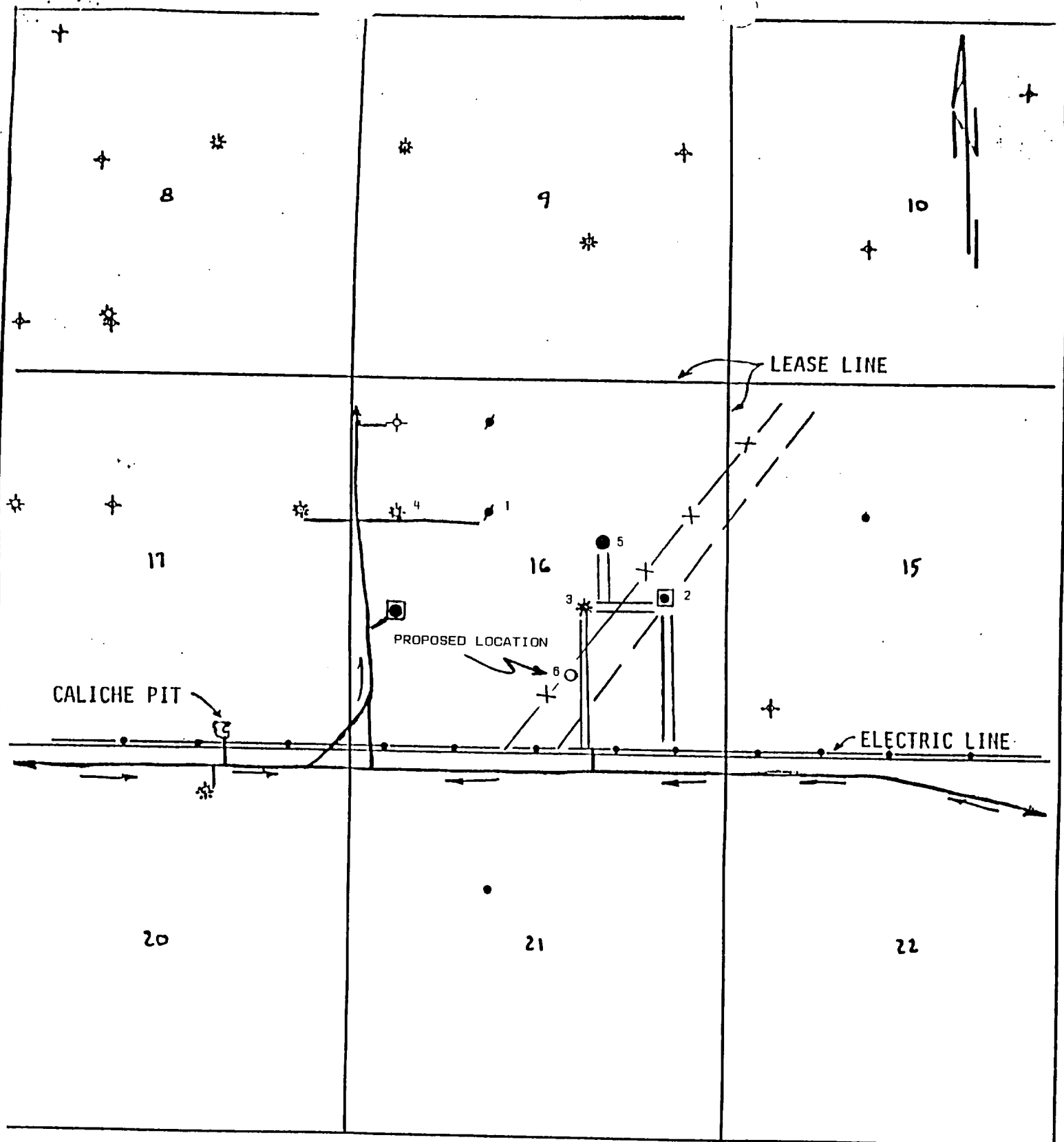
J.C. Williamson

T.O.G. Federal # 6

990' FSL & 2160' FEL

Sec. 16, T-20-S, R-29-E

Eddy



LEGEND:

- Oil Well
- ✱ Gas Well
- ⊕ Plugged Well
- ==== Existing Caliche Road
- Proposed New Road
- High pressure gas pipeline
- x-x- Barbed wire fence

EXHIBIT "B"

J.C. Williamson
T.O.G. Federal # 6
990' FSL & 2160' FEL
Eddy County, New Mexico

SCALE 4" = 1 MILE

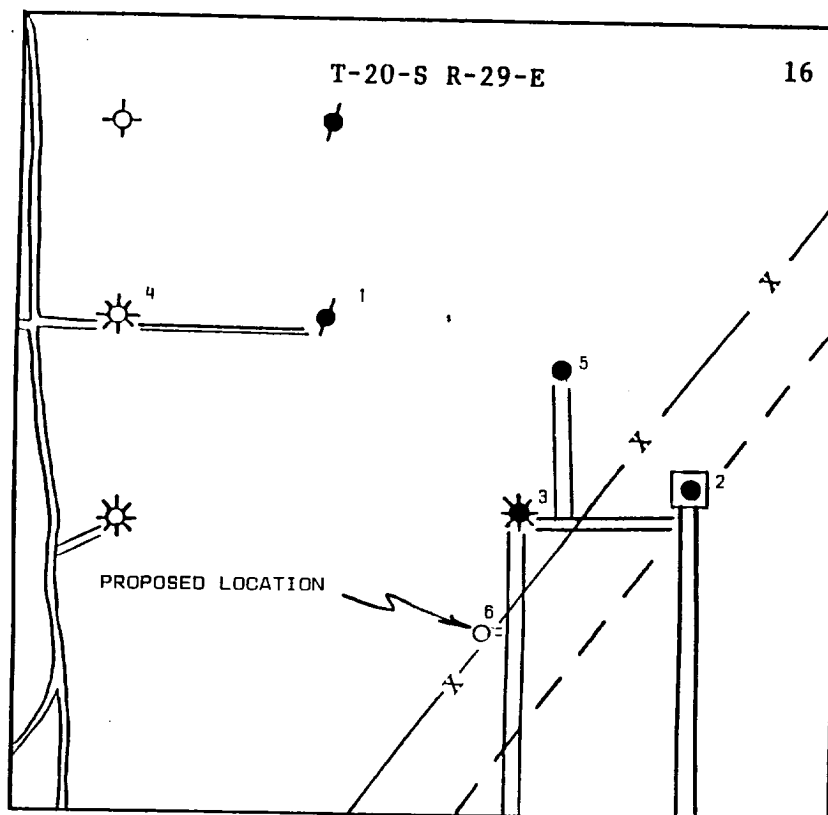


EXHIBIT "C"

J.C. WILLIAMSON
T.O.G. Federal # 6
Sec. 16 T-20-S, R-29-E
Eddy County, New Mexico

- Oil well
- ☼ Gas well
- Abandoned dry hole
- ⊗ Abandoned well
- ==== Existing caliche road
- Proposed new road
- High pressure gas pipeline
- x-x- Barbed wire fence



-- 200' --

WASTE PIT

RESERVE

PIT

TRASH
PIT

Pump

WORKING

PITS

Pump

RIG



PIPE
RACKS

-- 200' --

WATER
TANK

GENERATOR

ACCUMULATOR

TRAILER HOUSE

EXHIBIT "D"

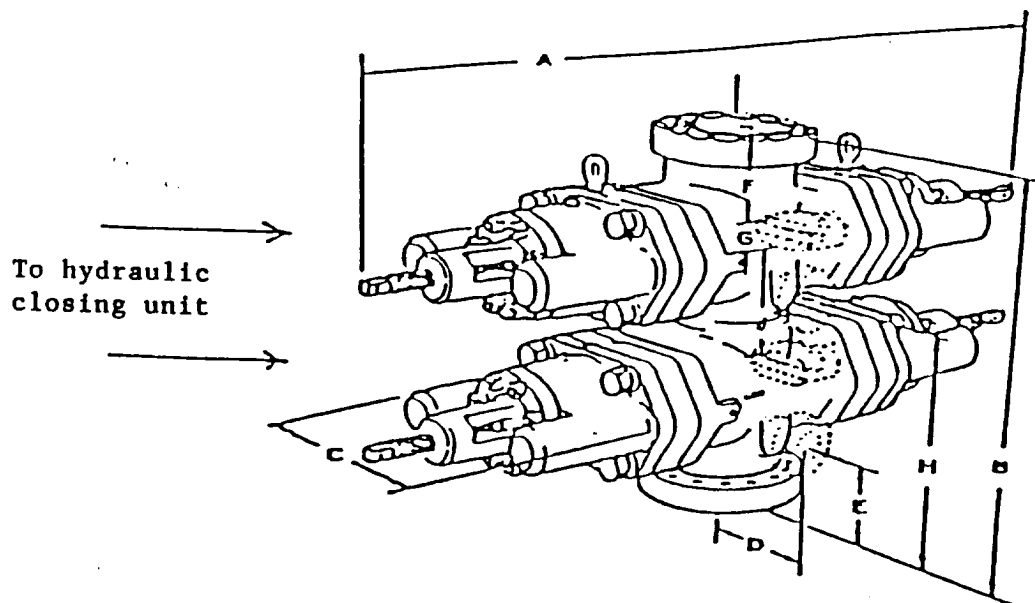
J.C. Williamson
T.O.G. Federal #6
Eddy County, New Mexico

EXHIBIT "E"

BOP Diagram

A flanger type Bell lead will be used on this well. After the 13-3/8" casing has been set and cemented, an 11" double ram BOP will be put on and kept in service for the life of this well.

After 8-5/8" intermediate casing has been set and cement placed around the bottom of this pipe, the 13-3/8" casing will be orange peeled into the 8-5/8" casing and then an 11" double ram BOP, as shown below will be put on the hole. This blowout preventer will be connected to a hydraulically controlled closing unit. The pressure rating on this BOP is 3000#, and will have blank and 5-1/2" pipe.



J.C. Williamson
T.O.G. Federal # 6
990' FSL & 2160' FEL
Sec. 16, T-20-S, R-29-E
Eddy County, New Mexico