

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		RECEIVED JUN 16 1982 O. C. D. ARTESIA OFFICE	5. LEASE DESIGNATION AND SERIAL NO. NM-32335
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR TRANSWESTERN GAS SUPPLY COMPANY			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. BOX 2521, Houston, Texas 77001			8. FARM OR LEASE NAME Antelope Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1980' FNL & 1980' FWL, Sec. 29 At proposed prod. zone Same 660'			9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 33 miles northwest of Roswell, New Mexico			10. FIELD AND POOL OR WILDCAT Undesignated-Abo
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1980'		16. NO. OF ACRES IN LEASE 2555.70	11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T4S, R22E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	12. COUNTY OR PARISH Chaves
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4462' GR		19. PROPOSED DEPTH 3800'	13. STATE N.M.
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START* July 1, 1982	

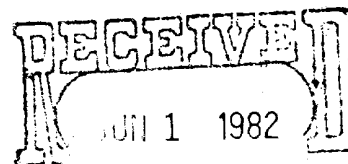
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	700'	920 sx (Circulate)
12 1/4"	8 5/8"	24.0#	1500'	990 sx (Circulate)
7 7/8"	4 1/2"	10.5#	TD.	350 sx

Propose to drill to approximately 3800' to test for possible commercial production in the Abo and intermediate formations.

BOP diagram is attached.

Gas is dedicated.

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROS WELL, 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 <u>Jerry W. Franklin</u> TITLE <u>Agent</u> DATE <u>May 31, 1982</u>	
(This space for permit or state office use)	
PERMIT NO. <u>(Orig. Sgd.) GEORGE H. STEWART</u>	APPROVAL DATE
APPROVED BY <u>JUN 7 1982</u>	TITLE
FOR <u>JAMES A. GILLHAM</u>	DATE
DISTRICT SUPERVISOR	

*See Instructions On Reverse Side

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

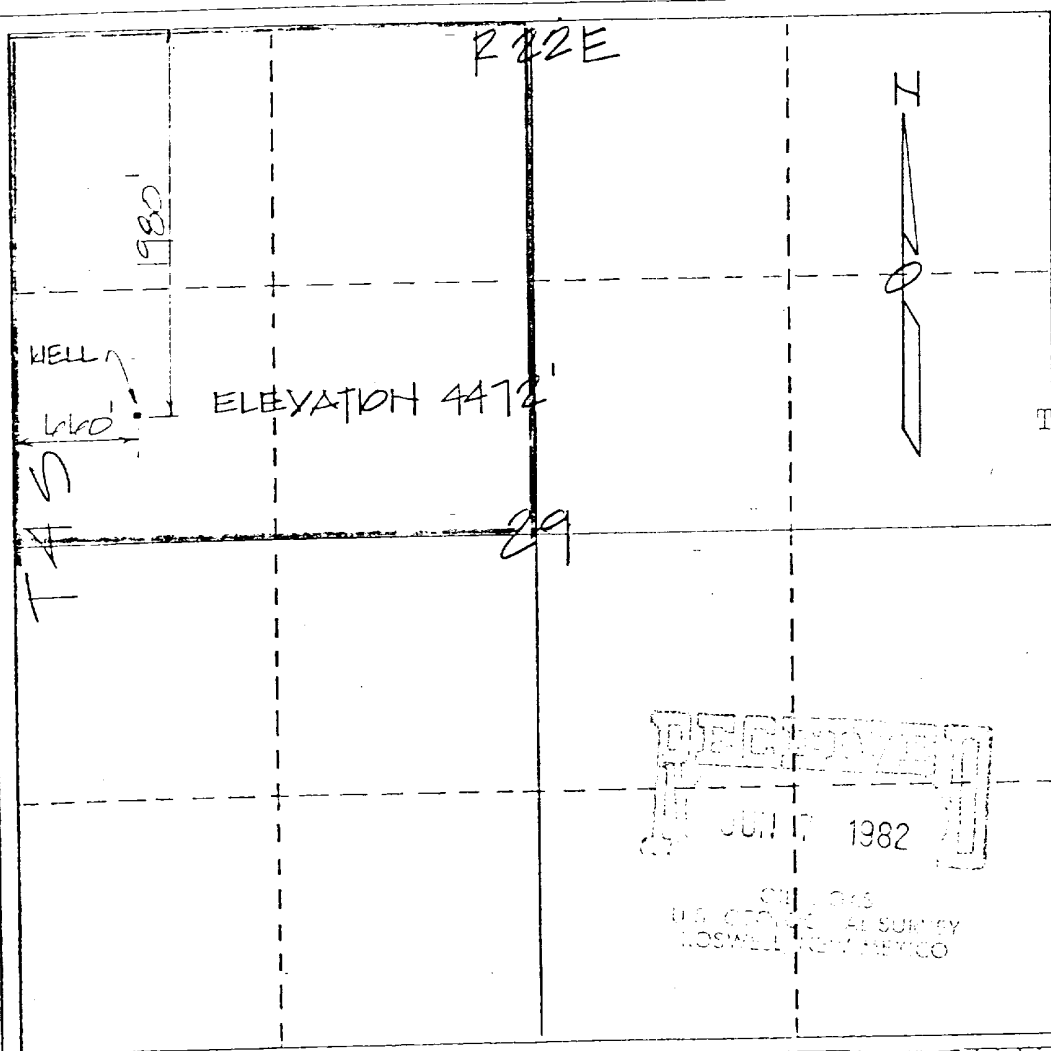
Operator TRANSWESTERN GAS SUPPLY COMPANY			Lease ANTELOPE FEDERAL		Well No. 1
Unit Letter E	Section 29	Township T-4-S	Range R-22-E	County Chaves	
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line					
Ground Level Elev. 4472	Producing Formation ABO	Pool UNDESIGNATED	Dedicated Acreage: 160 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 Division.



CERTIFICATION

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

Name
Gerry W. Frandl
Position
AGENT

Company

TRANSWESTERN GAS SUPPLY

Date **6/7/82** CO.

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.

4 June 1982

Date Surveyed
Gordon J. Douglas
Registered Professional Engineer
and/or Land Surveyor

Gordon J. Douglas, P.L.S.

N.M. License 6054

Certified No. **DOUGLAS**

U.S. GEOLOGICAL SURVEY
NOSWELL, NEW MEXICO

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
TRANSWESTERN GAS SUPPLY COMPANY
3. ADDRESS OF OPERATOR
P.O. Box 2521, Houston, Texas 77001
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 660' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

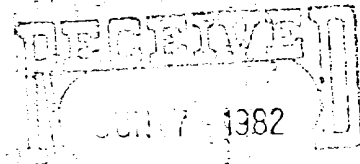
- REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
- | | | |
|----------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON* | <input type="checkbox"/> | <input type="checkbox"/> |
- (other) Amended location

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Change of location from 1980' FNL & 1980' FWL to 1980' FNL & 660' FWL on request of the Bureau of Land Mgt due to archaeological reasons.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
NM-32335
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Antelope Federal
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Undesignated-Abo
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T4S, R22E
12. COUNTY OR PARISH
Chaves
13. STATE
N.M.
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
4472 GR



U.S. GEOLOGICAL SURVEY
CIVIL ENGINEERING DIVISION

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Harry W. Franklin TITLE Agent DATE 6/7/82

APPROVED BY (This space for Federal or State office use)
Wes. Sgd. GEORGE H. STEWART
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

JUN 7 1982
FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions on Reverse Side

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

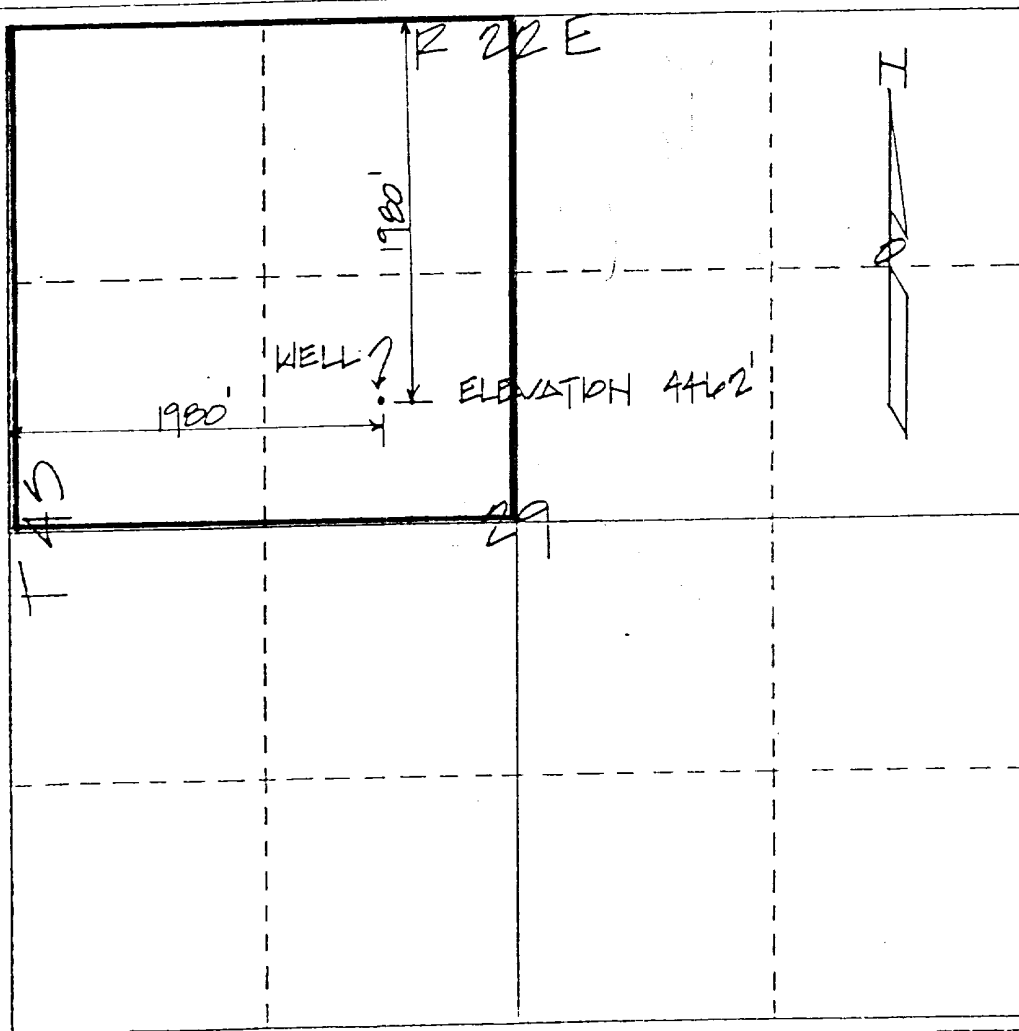
Operator TRANSWESTERN GAS SUPPLY CO.			Lease Antelope Federal		Well No. 1
Unit Letter F	Section 29	Township T-4-S	Range R-22-E	County Chaves	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1980 feet from the NORTH line and 1980 feet from the WEST line </div>					
Ground Level Elev. 4462'	Producing Formation ABO	Foot UNDESIGNATED		Dedicated Acreage: 160 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 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 Division.



CERTIFICATION

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

Name *Jerry W. Franklin*
Position _____

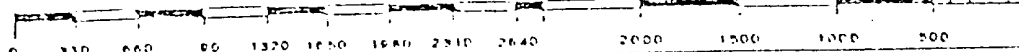
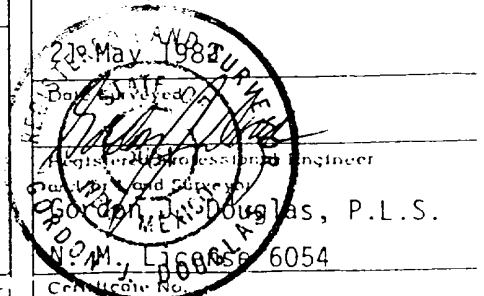
AGENT

Company _____

TRANSWESTERN GAS SUPPLY CO.

Date **June 1, 1982**

I hereby certify that the well location shown on this plot 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.



APPLICATION TO DRILL

TRANSWESTERN GAS SUPPLY COMPANY
Antelope Federal No. 1
1980' FNL & 1980' FWL
Section 29, T4S, R22E
Chaves County, N.M.

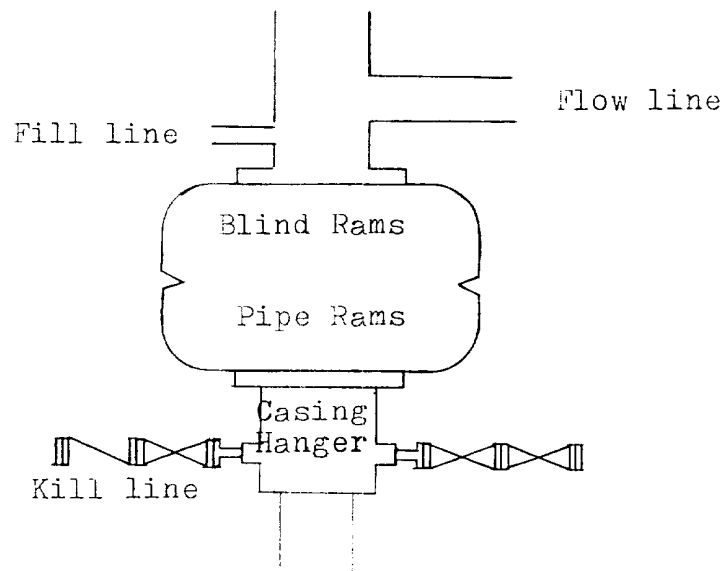
The following answers are provided for your consideration in response to your outline under Section II of Bulletin NTL-6:

1. Location: 1980' FNL & 1980' FWL, Section 29, T4S, R22E, Chaves County, New Mexico.
2. Elevation Above Sea Level: 4462'
3. Geologic Name of Surface Formation: Permian
4. Drilling Tools and Associated Equipment: Conventional rotary drilling tools using mud for the circulation medium.
5. Proposed Drilling Depth: 3800'.
6. Estimated Geological Marker Tops:

Glorietta	1125'
Tubb	2285'
Abo	2728'
7. Mineral Bearing Formation: Gas bearing at 3450'.
8. Casing Program:

20" Casing	- Set 60' of 20" conductor pipe with rat hole machine. Grout to surface.
13 3/8" Casing	- Set at 700' and cement with an estimated 920 sx of cement to circulate to surface.
8 5/8" Casing	- Set at 1500' and cement with an estimated 990 sx of cement to circulate cement to surface.
4 1/2" Casing	- Set to total depth and cement with an estimated 350 sx of cement to isolate all water, oil and gas zones.
9. Pressure Control Equipment: Blowout preventer stack will consist of double-ram blowout preventer rated to 3000psi WP. BOP sketch is attached.

10. Proposed Circulation Medium: Mud will be used for circulation for all depths in this well. Hole conditions will dictate mud additives.
11. Testing, Logging, and Coring Programs:
 - Testing: All testing will be commenced after the well has been drilled and casing has been set and cemented.
 - Logging: Compensated Neutron Formation Density with Gamma Ray and Caliper, and Dual Laterolog-RXO.
 - Coring : None anticipated.
12. Potential Hazards: No abnormal pressure or temperature zones are anticipated.
13. Anticipated Starting Date: Drilling will commence Approximately July 1, 1982. Drilling should be completed within 9 days. Completion operations will commence following drilling operations.



Blowout Preventer
3000 psi working pressure