

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

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 289, Farmington, NM 87401

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

At surface

1790'N, 815'W

At proposed prod. zone

same

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

11 miles south of Gobernador, NM

15. DISTANCE FROM PROPOSED*

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

815'

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

200'

16. NO. OF ACRES IN LEASE

2516.48 - unit

19. PROPOSED DEPTH

5330'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160.8 W/320.00

20. ROTARY OR CABLE TOOLS

Rotary

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

6512'GL

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.0#	200'	224 cu.ft. to circulate
8 3/4"	7"	20.0#	3615'	216 cu.ft. to cover Ojo Alamo
6 1/4"	4 1/2" liner	10.5#	3465-5330'	413 cu.ft. to circ. liner

Selectively perforate and sandwater fracture the Pictured Cliffs and Mesa Verde formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The W/2 of Section 34 is dedicated to this well.

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

D. G. Grisco

TITLE

Drilling Clerk

DATE

May 2, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

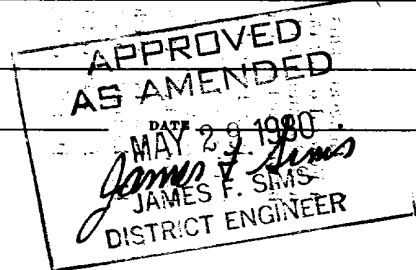
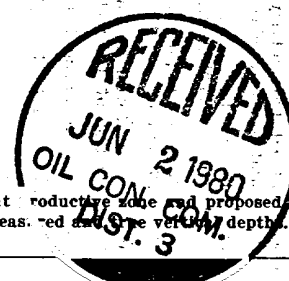
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"
*See Instructions On Reverse Side

NMOCC



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

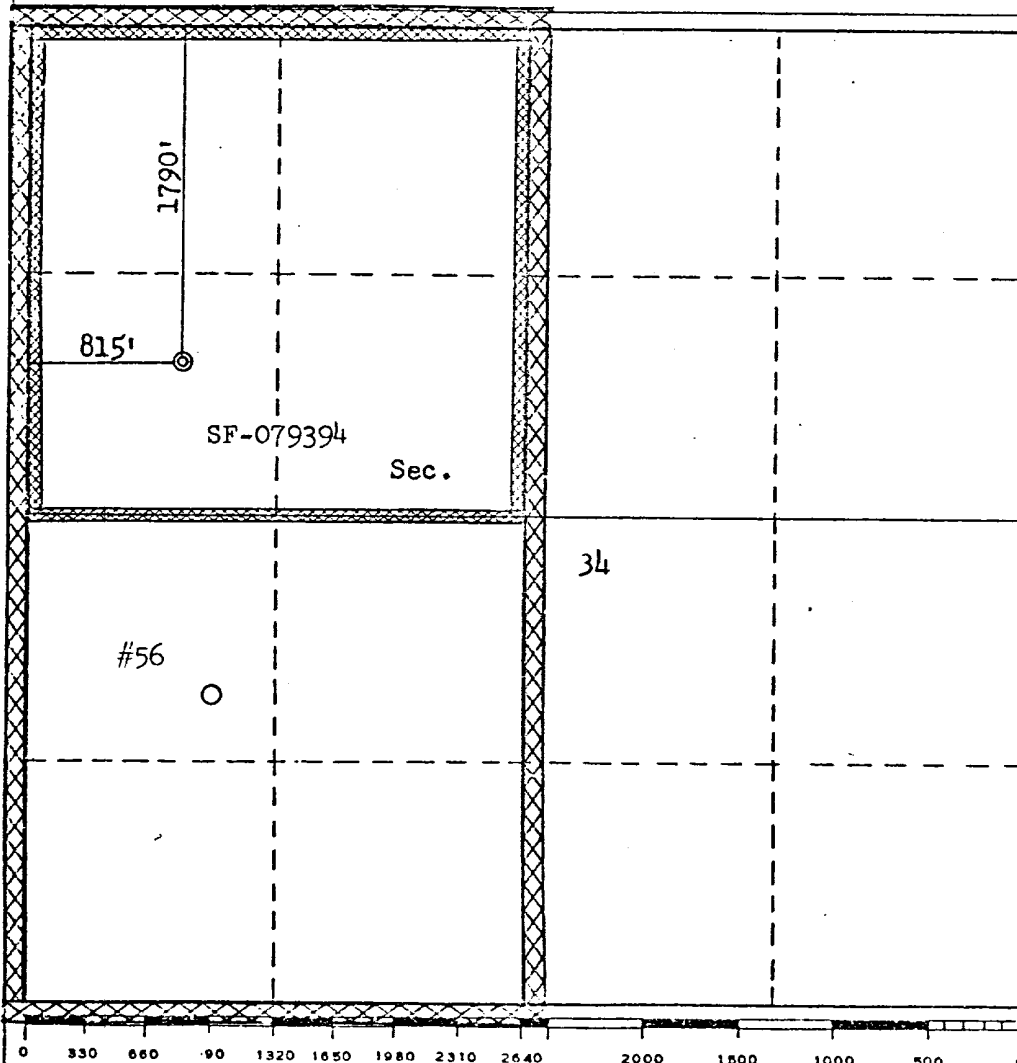
Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 27-5 UNIT (SF-079394)		Well No. 56-A
Unit Letter E	Section 34	Township 27N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1790 feet from the North line and 815 feet from the West line					
Ground Level Elev. 6512	Producing Formation Pictured Mesa Verde - Cliffs		Pool. Blanco Pictured Cliffs Ext. Blanco Mesa Verde		Dedicated Acreage: 160.00 & 320.00 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 Unitization

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.

D. G. Guisco

Name
Drilling Clerk

Position
El Paso Natural Gas Co.

Company
May 2, 1980

Date

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

April 1, 1980

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950

REHABILITATION AGREEMENT

Lease No.: SF-079394 ; Well Name & No.: San Juan 27-5 Unit #56 A
Location: SW 1/4 NW 1/4 Sec. 34, T. 27 N., R. 5 W.

El Paso Natural Gas Company intends to drill a well on surface owned by
Eulogia Candelaria c/o Fidel Candelaria. The lessee/operator
agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access roads and provide adequate drainage
to road

☒ Yes ☐ No Reshape and reseed any area in excess of the pump and
support facilities.

Other requirements: _____

The following work will be completed when the well is abandoned:

☐ Yes ☒ No Site will require reshaping to conform to existing
topography.

☒ Yes ☐ No Pit will be fenced until dry, then filled to conform
to topography.

☒ Yes ☐ No Entire disturbed area will be reseeded. If yes,
the following seed mixture will be used:

RECOMMENDED PROCEDURE AT TIME OF ABANDONMENT

☒ Yes ☐ No Access road will be rehabilitated and reseeded using
the same seed mixture as above.

☐ Yes ☐ No Access road will remain for landowner's use.

Other requirements: _____

Landowner
Name: Eulogia Candelaria
Address: c/o Fidel Candelaria
City: Blanco
State: New Mexico
Telephone: _____
Date: 4-2-80

Operator/Lessee
Name: EL PASO NATURAL GAS COMPANY
Address: P. O. Box 990
City: Farmington
State: New Mexico 87401
Telephone: (505) 325-2841
Date: 4-2-80

☒ Yes ☐ No I certify rehabilitation has been discussed with the
surface owner.

John A. Chalmers - Regional Land Manager

This agreement covers rehabilitation requirements only and does not affect any
other agreements between the lessee/operator and surface owner.

Multi-Point Surface Use Plan
San Juan 27-5 Unit #56A

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
 2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
 3. Location of Existing Wells - Please refer to Map No. 2.
 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
 5. Location and Type of Water Supply - Water for the proposed project will be obtained from Campanero Water Hole #1.
 6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.
 7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,
-

7. cont'd. will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
8. Ancillary Facilities - No camps or airstrips will be associated with this project.
9. Wellsite Layout - Please refer to the attached Plat No. 1.
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
11. Other Information - The terrain is rolling hills with sage growing. Deer and cattle are occasionally seen on the proposed project site.
12. Operator's Representative - W.D. Dawson, PO Box 990, Farmington, NM
13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



D. R. Read
Project Drilling Engineer

Operations Plan
San Juan 27-5 Unit #56A

I. Location: 1790'N, 815'W, Section 34, T-27-N, R-5-W, Rio Arriba County, NM

Field: Blanco MV & So. Blanco PC Ext. Elevation: 6512'GL

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3412'
	Ojo Alamo	2656'	Mesa Verde	4865'
	Kirtland	2795'	Menefee	4992'
	Fruitland	2961'	Point Lookout	5382'
	Pic. Cliffs	3233'	Total Depth	5830'

B. Logging Program: I-ES and GR-Density at 3615'
GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 4855', 4985', 5370' and at Total Depth.
Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3615'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>
	13 3/4"	200'	9 5/8"	36.0 K-55
	8 3/4"	3615'	7"	20.0# K-55
	6 1/4"	3465-5830'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff & PBR. Geyser shoe and plug latch-in collar assembly.

C. Tubing: 5830' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
3615' of 1 1/4", 2.33# J-55 IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.

D. Wellhead Equipment: 10" 2000 x 9 5/8" casing head. 10" 2000 x 6" 2000 dual tubing head.

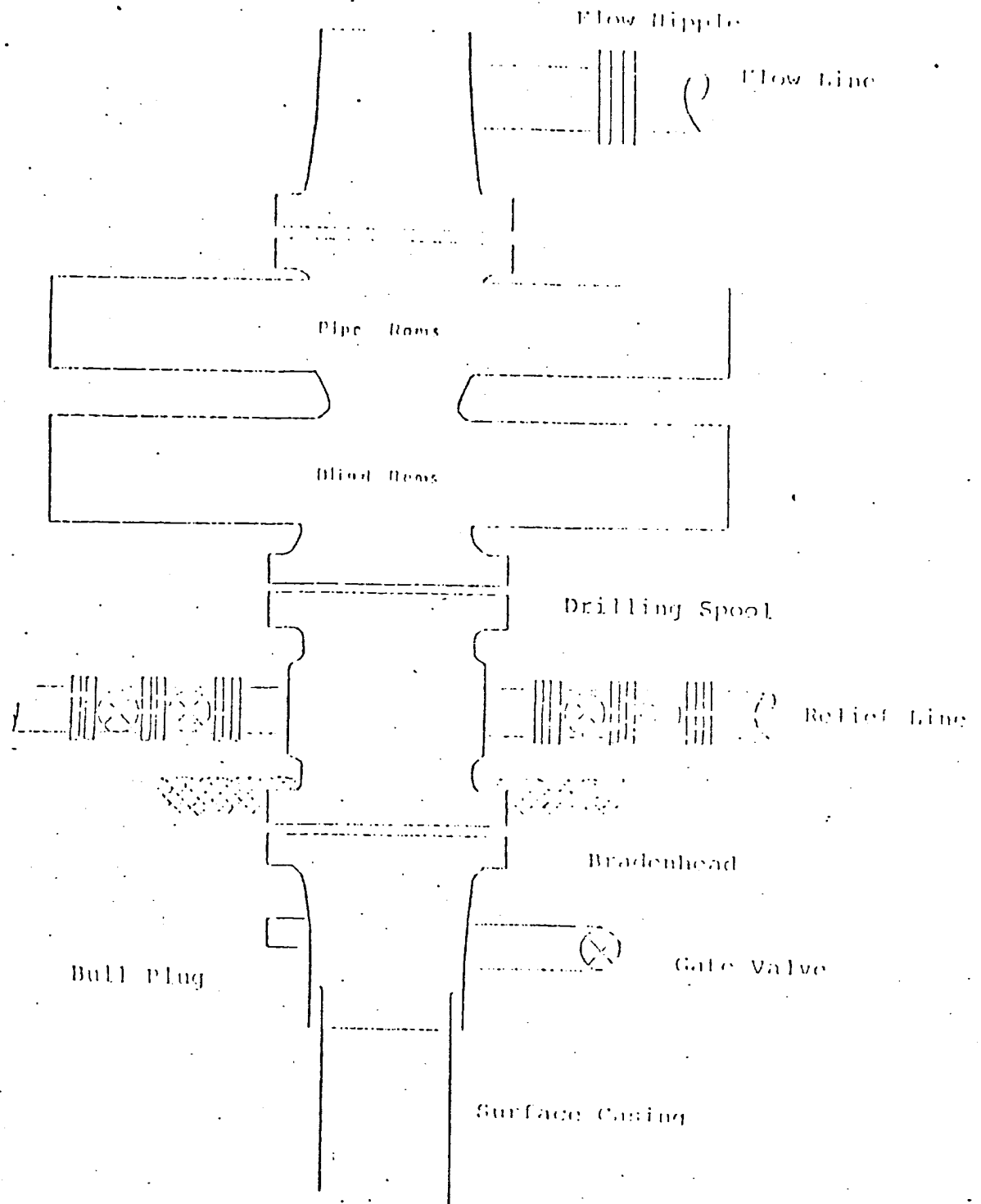
V. Cementing:

9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 61 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (216 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

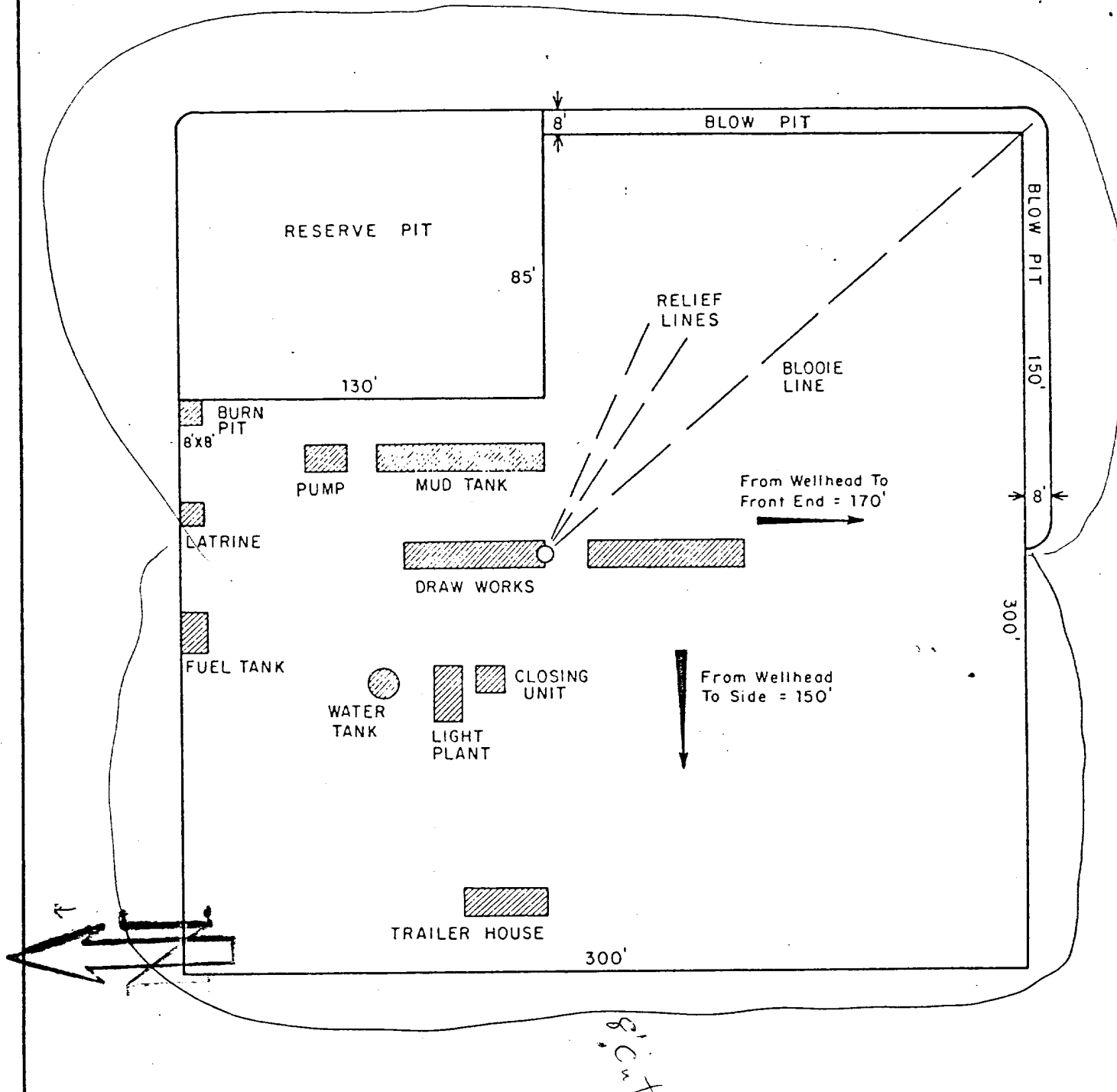
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 297 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (413 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

Typical R.O.P. Installation For Bona Verde Well




Series 900 Double Gate ROP, rated
at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50
or equivalent rotating head is installed on top of the
flow nipple and the flow line is converted into a blowie line

8' E, 11



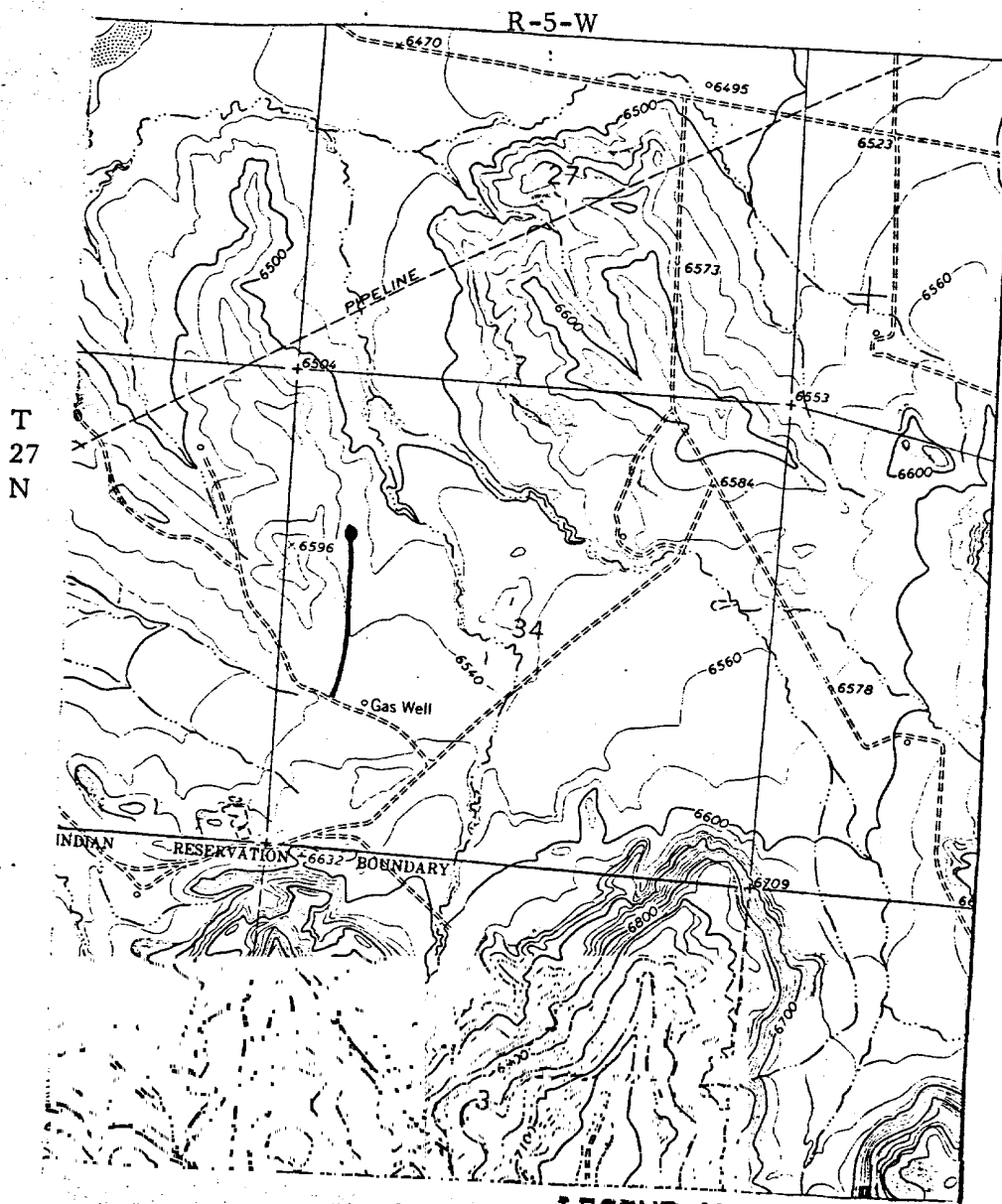
			ENG. REC.		DATE
PRT.	SEP.	DATE	DRAWN	J. L. H.	8-16-78
			CHECKED		
			CHECKED		
			PROJ. APP.		
			DESIGN		
PRINT RECORD			W.O.		


El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR
MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50'	DWG. NO.	REV
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El Paso Natural Gas Company
San Juan 27-5 Unit #56A
NW 34-27-5



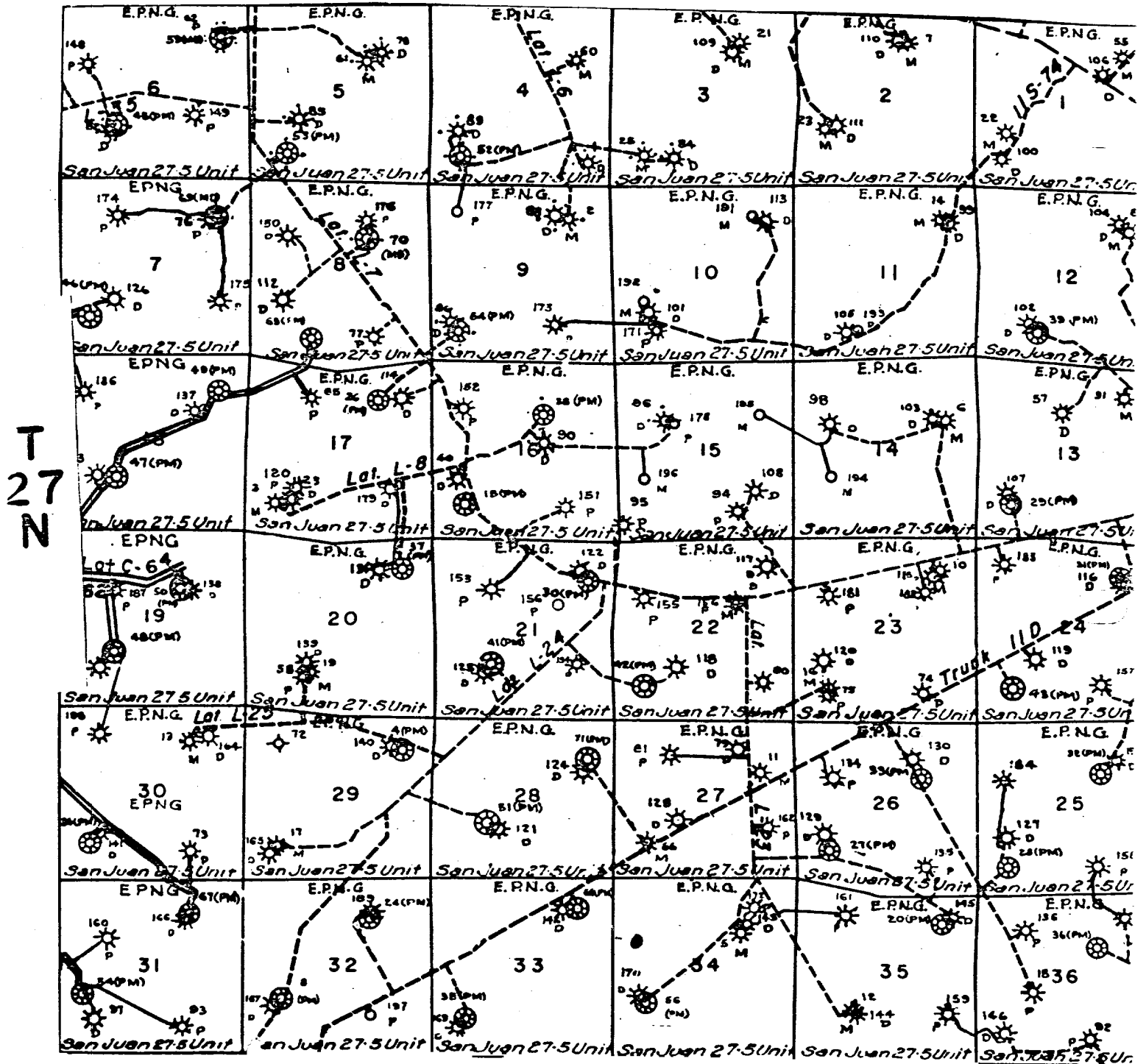
MAP 1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS	+	+	+
EXISTING PIPELINES	+	+	+
EXISTING ROAD & PIPELINE	+	+	+
PROPOSED ROADS	+	+	+
PROPOSED PIPELINES	+	+	+
PROPOSED ROAD & PIPELINE	+	+	+

El Paso Natural Gas Company
San Juan 27-5 Unit #56A
NW 34-27-5

R-5-W



MAP 2

Proposed Location

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
El Paso Natural Gas Company

3. ADDRESS OF OPERATOR
P.O. Box 289, Farmington, NM

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1790'N, 815'W
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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 checked="" 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) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
SF 079394

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 27-5 Unit

8. FARM OR LEASE NAME
San Juan 27-5 Unit

9. WELL NO.
56A

10. FIELD OR WILDCAT NAME
S. Blanco P.C. & Blanco MV

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 34, T-27-N, R-5-W
NMPM

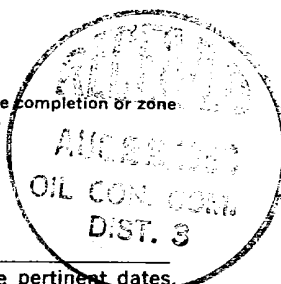
12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

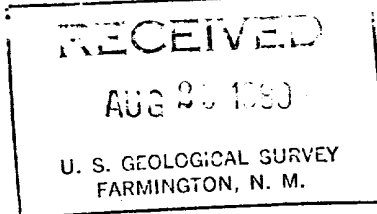
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6512' GL

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



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.)*

-17-80: Spudded well. Drilled surface hole. Ran 5 joints 9 5/8", 40#, K-55 surface casing 229' set at 231'. Cemented w/ 224 cu. ft. cement. Circulated to surface WOC 12 hours; held 600#/30 minutes.



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

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

SIGNED [Signature] TITLE Drilling Clerk DATE August 19, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL **ACCEPTED FOR RECORD**

AUG 21 1980

*See Instructions on Reverse Side

BY [Signature]
FARMINGTON DISTRICT

AMOCCH

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.)

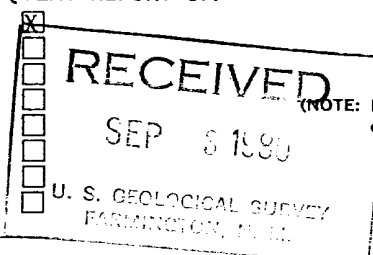
1. oil ☐ gas ☒ other ☐
well well
2. NAME OF OPERATOR
El Paso Natural Gas Company
3. ADDRESS OF OPERATOR
P.O. Box 289, Farmington, NM 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
1790'N, 815'W
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

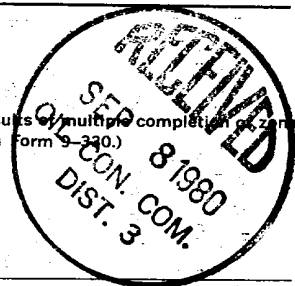
REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:



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



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.)*

8-24-80: TD 3581'. Ran 86 joints 7", 20#, K-55 intermediate casing 3570' set at 3581'. Cemented w/ 217 cu. ft. cement. WOC 12 hours; held 1200#/30 minutes. Top of cement at 2300'.

8-28-80: TD 5854'. Ran 59 joints 4 1/2", 10.5#, K-55 casing liner 2423' set at 5854'. Floa collar set at 5837'. Cemented w/ 413 cu. ft. cement. WOC 18 hours.

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

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

SIGNED [Signature] TITLE Drilling Clerk DATE Sept. 3, 1980

ACCEPTED FOR RECORD

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

FARMINGTON DISTRICT

BY [Signature]