

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

2. OPERATOR
EL PASO NATURAL GAS CO. *MCI*

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4990
FARMINGTON, NM 87499

4. LOCATION OF WELL
1630'S 1000'W

5. LEASE NUMBER
NM-0433

6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME
HUERFANO UNIT

8. FARM OR LEASE NAME
HUERFANO UNIT

9. WELL NO.
547

10. FIELD, POOL, OR WILDCAT
FRUITLAND COAL

11. SEC. T. R. M OR BLK.
SEC. 9 T26N R10W NMPM

12. COUNTY
SAN JUAN

13. STATE
NM

14. DISTANCE IN MILES FROM NEAREST TOWN
19 MILES FROM BLOOMFIELD

15. DISTANCE FROM
PROPOSED LOCATION 1000'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE
450

17. ACRES ASSIGNED TO WELL
320.00

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 900'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
1970'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
6635'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

ALL OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"WELL REQUIREMENTS".

24. AUTHORIZED BY: *[Signature]*
REGULATORY AFFAIRS

5-4-89
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

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., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator <u>El Paso Natural Gas</u>				Well No. <u>547</u>	
Unit Letter <u>L</u>	Section <u>9</u>	Township <u>26 North</u>	Range <u>10 West</u>	County <u>San Juan</u>	
Actual Footage Location of Well: <u>1630</u> feet from the <u>South</u> line and <u>1000</u> feet from the <u>West</u> line					
Ground level Elev. <u>6635</u>		Producing Formation <u>Fruitland Coal</u>		Pool <u>Basin</u>	
				Dedicated Acreage: <u>320</u>	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or lacquer 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 commutation, 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 commutation, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

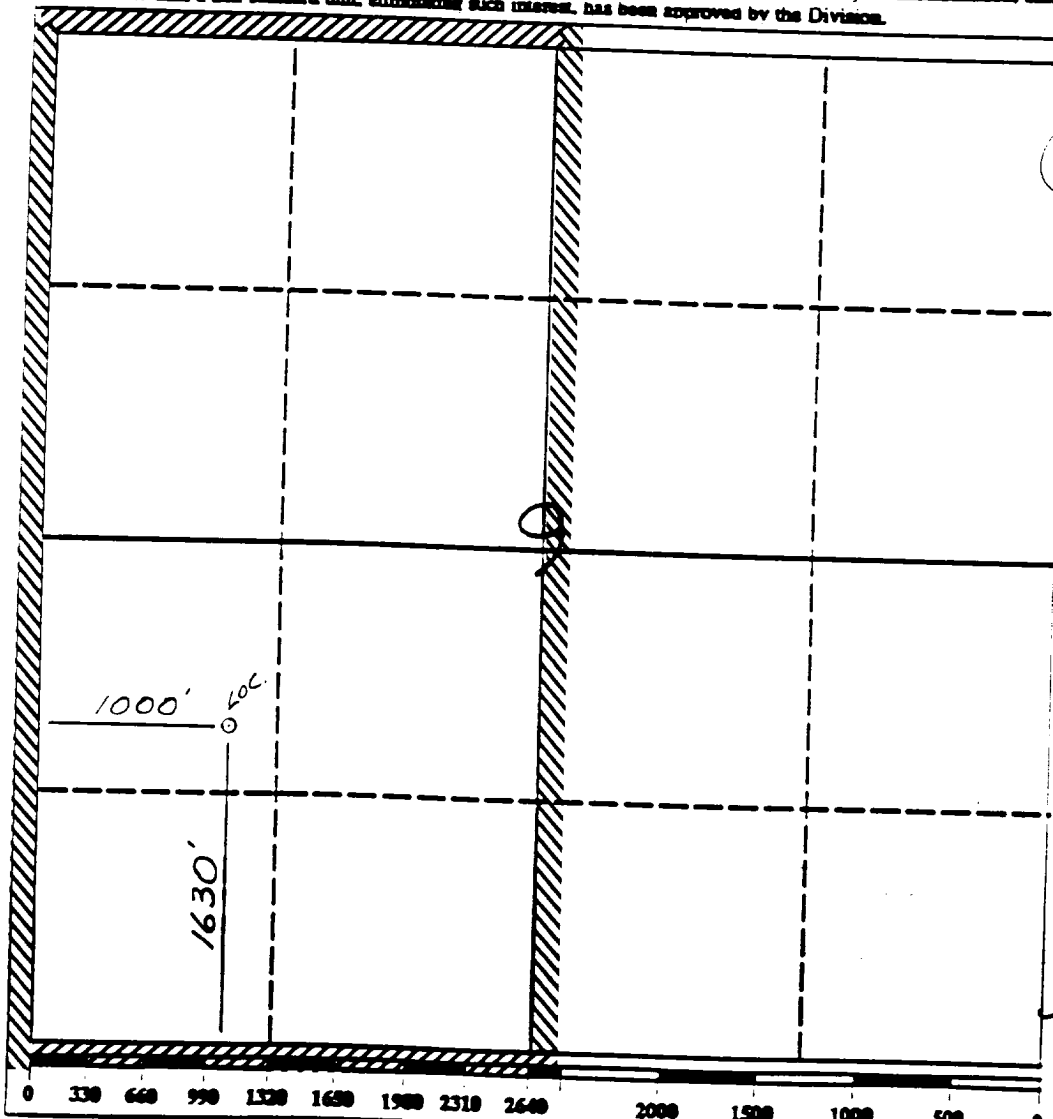
Signature
Peggy Bradfield
Printed Name
Regulatory Affairs
Position
El Paso Natural Gas
Company
5-4-89
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes, 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
4-10-89
Signature of Seal
Neale O. Edwards
Professional Surveyor
857

REGISTERED LAND SURVEYOR
Certificate No.
6857



Well Name: 547 HUERFANO UNIT 1630'S 1000'W
 Sec. 9 T26N R10W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6635'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 1181
 Kirtland- 1409
 Fruitland- 1958
 Fruitland Coal Top- 1990
 Fruitland Coal Base- 2158
 Intermediate TD- 1970
 Total Depth- 2159
 Pictured Cliffs- 2171

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no contro.
	200 - 1970	Non-dispersed	8.4 - 9.1	30-60	no contro.
	1970 - 2159	Formation Water	8.4		no contro.

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 1970	7"	20.0#	K-55
	6 1/4"	1920 - 2159	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2159	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe.

5 1/2" production casing - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

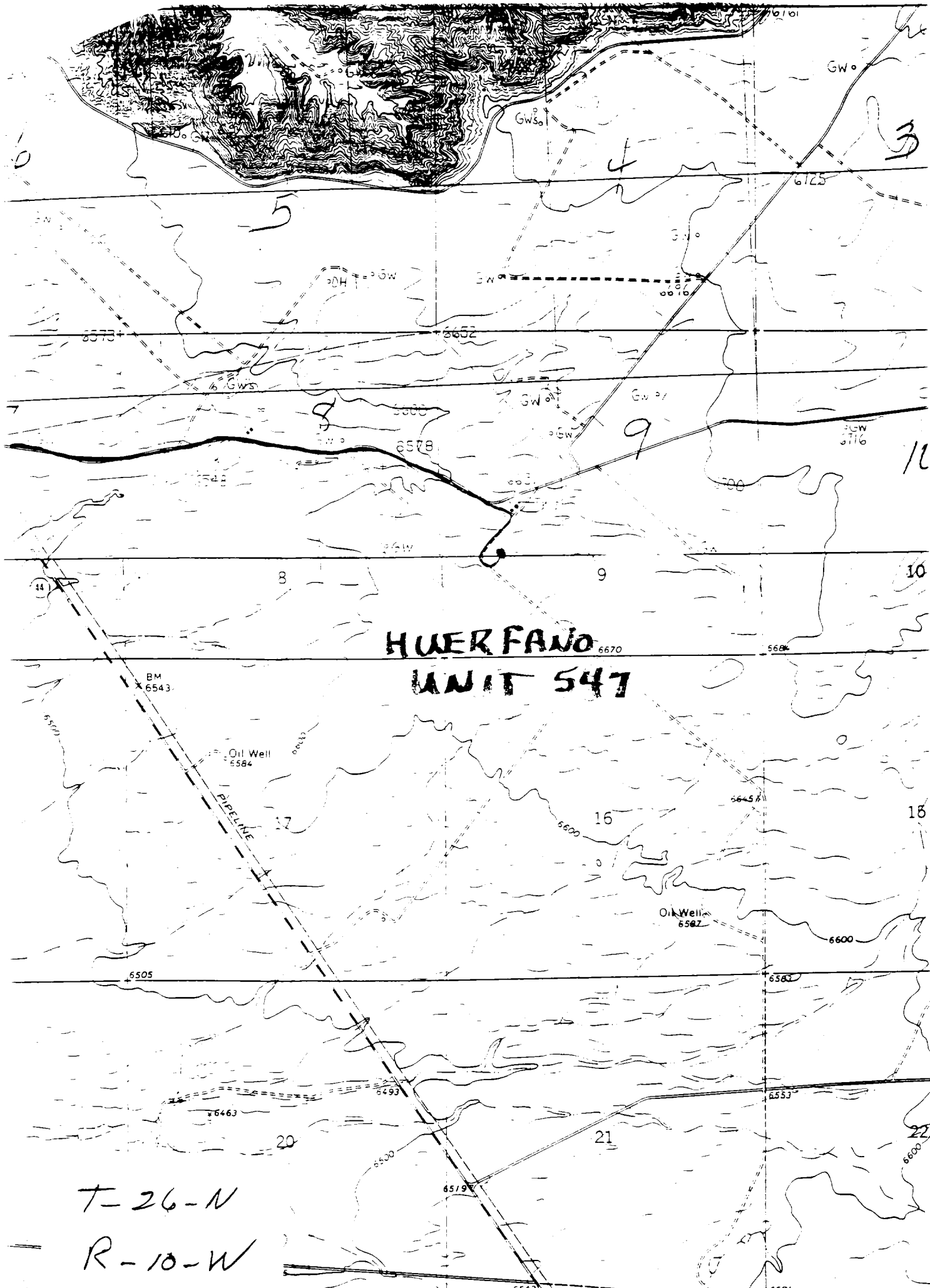
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 169 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 443 cu ft. of slurry, 50% excess to circulate to surface. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.



**HUERFANO
UNIT 547**

T-26-N
R-10-W