

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-080712A
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR <i>Mendenhall, Paul Inc.</i> EL PASO NATURAL GAS CO.	7. UNIT AGREEMENT NAME SAN JUAN 30-6 UNIT
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME SAN JUAN 30-6 UNIT
4. LOCATION OF WELL 2510'S 790'W	9. WELL NO. 475
14. DISTANCE IN MILES FROM NEAREST TOWN 10 mi.N. of Gobernador	10. FIELD, POOL, OR WILDCAT FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 790'	11. SEC. T. R. M OR BLK. L SEC. 27 T30N R06W NMPM
16. ACRES IN LEASE 1866.9	12. COUNTY RIO ARRIBA
17. ACRES ASSIGNED TO WELL 320.00	13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 800' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 3362'
20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (DF, FT, GR, ETC.) 6426'GL	22. APPROX. DATE WORK WILL START

*SEE OPERATIONS PLAN

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

24. AUTHORIZED BY: *Paul Bradfield*
REGULATORY AFFAIRS

5-18-89

APPROVED
AS AMENDED

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE JUN 28 1989
AREA MANAGER

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

OK

WOOD

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 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

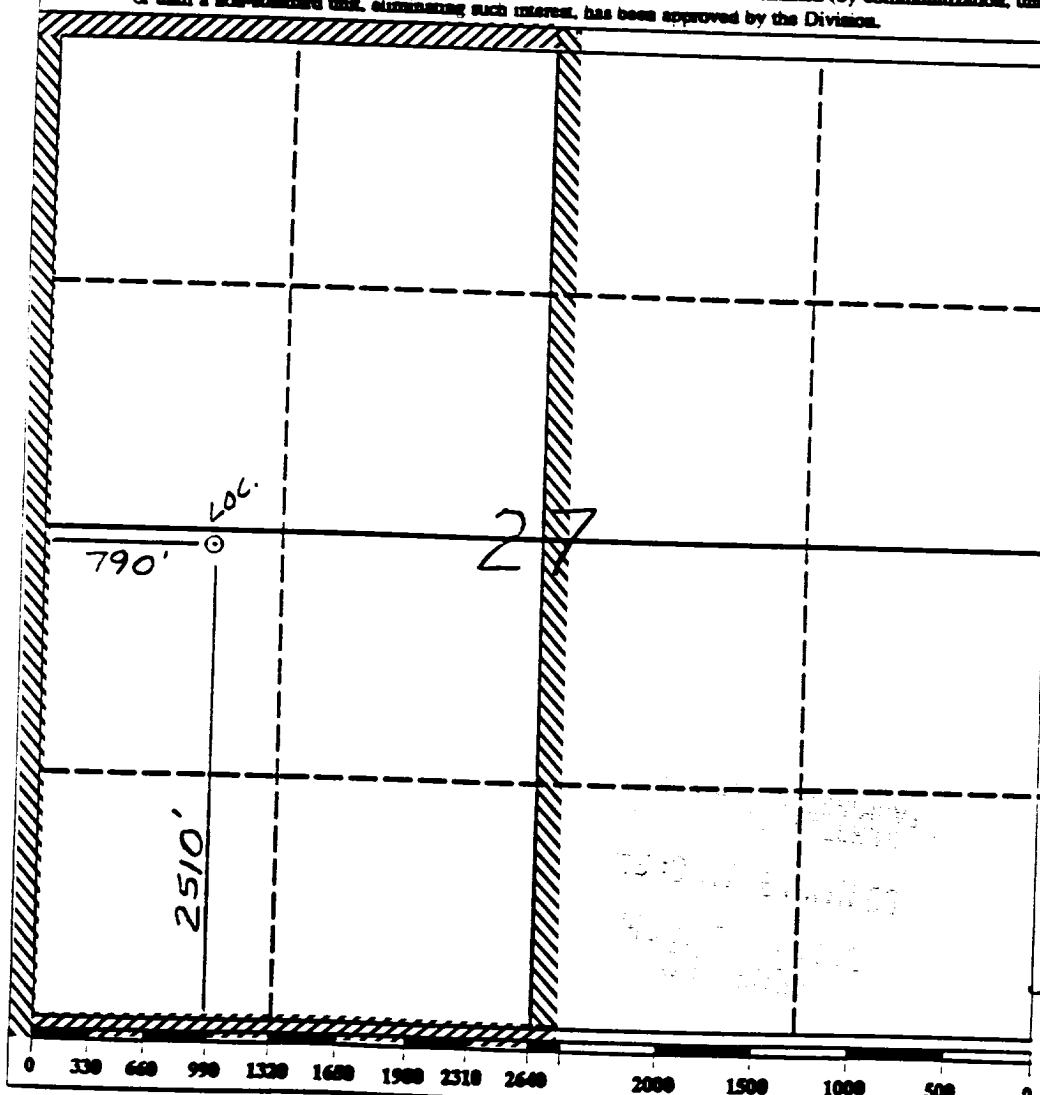
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <u>El Paso Natural Gas</u>			Lease <u>(SF-080712A)</u>		Well No. <u>475</u>
Unit Letter <u>L</u>	Section <u>27</u>	Township <u>30 North</u>	Range <u>6 West</u>	County <u>Rio Arriba</u>	
Actual Footage Location of Well: <u>2510</u> feet from the <u>South</u> line and <u>790</u> feet from the <u>West</u> line					
Ground level Elev. <u>5426</u>	Producing Formation <u>Fruitland Coal</u>		Pool <u>Basin</u>	Dedicated Acreage: <u>320.00</u> 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 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, 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.

Peggy Bradfield
Signature

Peggy Bradfield
Printed Name

Regulatory Affairs
Position

El Paso Natural Gas
Company

5-18-89
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.

4-27-89
Date Surveyed

Neale C. Edwards
Signature of Surveyor

857
Professional Surveyor

REGISTERED LAND SURVEYOR

Neale C. Edwards

857

6857
Certificate No.

Well Name: 475 SAN JUAN 30-6 UNIT
 Sec. 27 T30N R06W
 FRUITLAND COAL

2510'S 790'W
 RIO ARRIBA NEW MEXICO
 Elevation 6426'GL

Formation tops: Surface- San Jose
 Ojo Alamo- 2392
 Kirtland- 2588
 Fruitland- 2963
 Fruitland Coal Top- 3155
 Fruitland Coal Base- 3361
 Intermediate TD- 3135
 Total Depth- 3362
 Pictured Cliffs- 3374

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 control
	200 - 3135	Non-dispersed	8.4 - 9.1	30-60	no control
	3135 - 3362	Formation Water	8.4		no control

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 - 3135	7"	20.0#	K-55
	6 1/4"	3085 - 3362	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3362	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 183 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. 471 cu ft. of slurry, of sufficient volume to circulate to surface. As necessary, run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.

BOP and Tests:

Surface to intermediate TD - 11" 3000 psi double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test rams to 2500 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning.

Addition Information:

The Fruitland coal formation will be completed.

This gas is dedicated.

The W/2 of Section 27 is dedicated to this well.

