

30 037-2484

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. <i>Union Oil Co. Inc.</i> 3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499 4. LOCATION OF WELL 1655' FSL 1125' FWL 14. DISTANCE IN MILES FROM NEAREST TOWN 3 MILES SW OF GOBERNADOR 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 1125' 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 450' COMPL., OR APPLIED FOR ON THIS LEASE. 21. ELEVATIONS (DF, FT, GR, ETC.) 6469' GL	5. LEASE NUMBER NM-013678 6. IF INDIAN, ALL. OR TRIBE NAME 7. UNIT AGREEMENT NAME SAN JUAN 28-6 UNIT 8. FARM OR LEASE NAME SAN JUAN 28-6 UNIT 9. WELL NO. 410 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 13 T28N R06W NMPM 12. COUNTY RIO ARRIBA 13. STATE NM 16. ACRES IN LEASE 280 17. ACRES ASSIGNED TO WELL w/ 320.00 19. PROPOSED DEPTH 3350' 20. ROTARY OR CABLE TOOLS ROTARY DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". 22. APPROX. DATE WORK WILL START
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23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *[Signature]*
REG. DRILLING ENGR.

RECEIVED

JUL 18 1990

6/4/90
DATE

OIL CON. DIV
DIST. 3

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

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

NM000

[Signature]

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

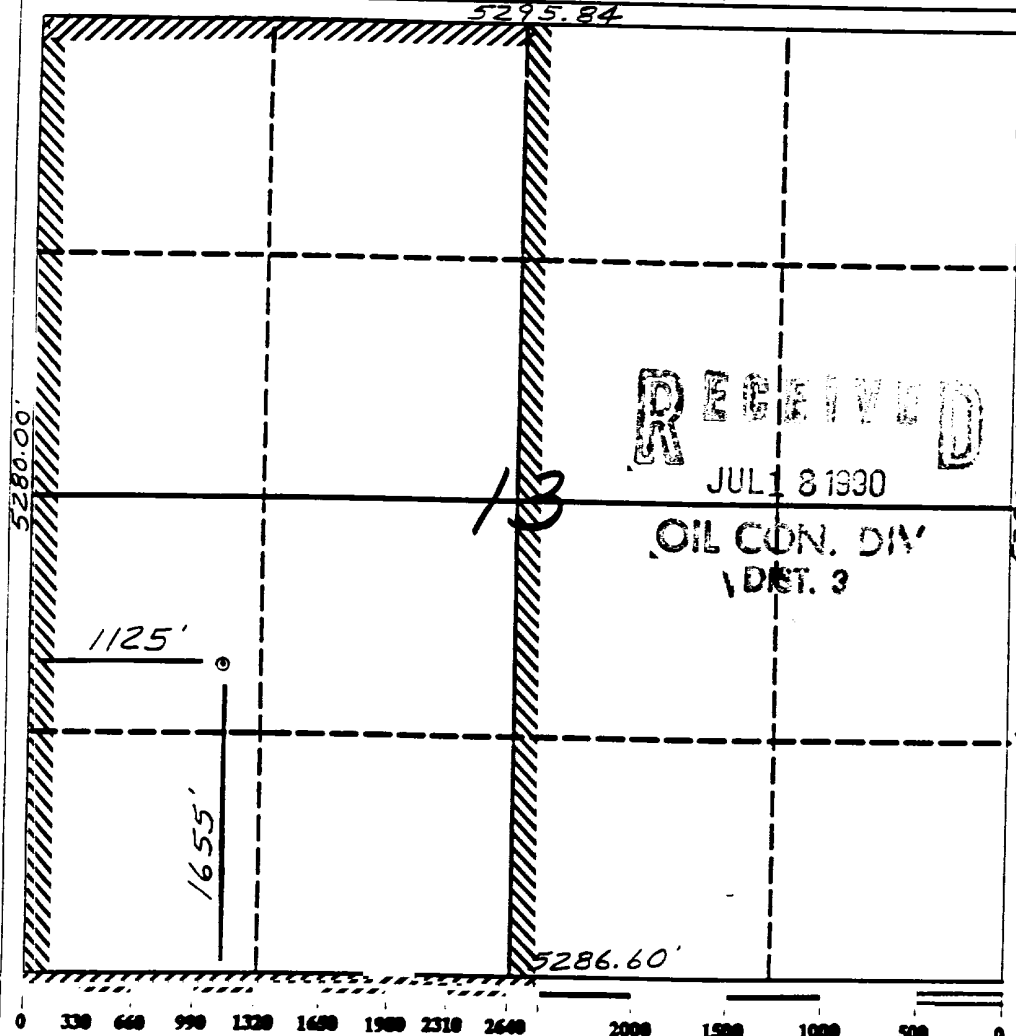
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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>San Juan 28-6 Unit</u> (NM-013678)		Well No. <u>410</u>
Unit Letter <u>L</u>	Section <u>13</u>	Township <u>28 North</u>	Range <u>6 West</u>	County <u>NMPM Rio Arriba</u>
Actual Footage Location of Well: <u>1655</u> feet from the <u>South</u> line and <u>1125</u> feet from the <u>West</u> line				
Ground level Elev. <u>6469'</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 lecture 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

6-4-90
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Well Name: 410 SAN JUAN 28-6 UNIT
 Sec. 13 T28N R06W
 BASIN FRUITLAND COAL

1655' FSL 1125' FWL
 RIO ARRIBA NEW MEXICO
 Elevation 6469' GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2550

Kirtland- 2723

Fruitland- 2950

Fruitland Coal Top- 3171

Fruitland Coal Base- 3349

Pictured Cliffs- 3349

Total Depth- 3350

Logging Program: Mud logs from 2950 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 3350	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-40
	7 7/8"	0 - 3350	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3350	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

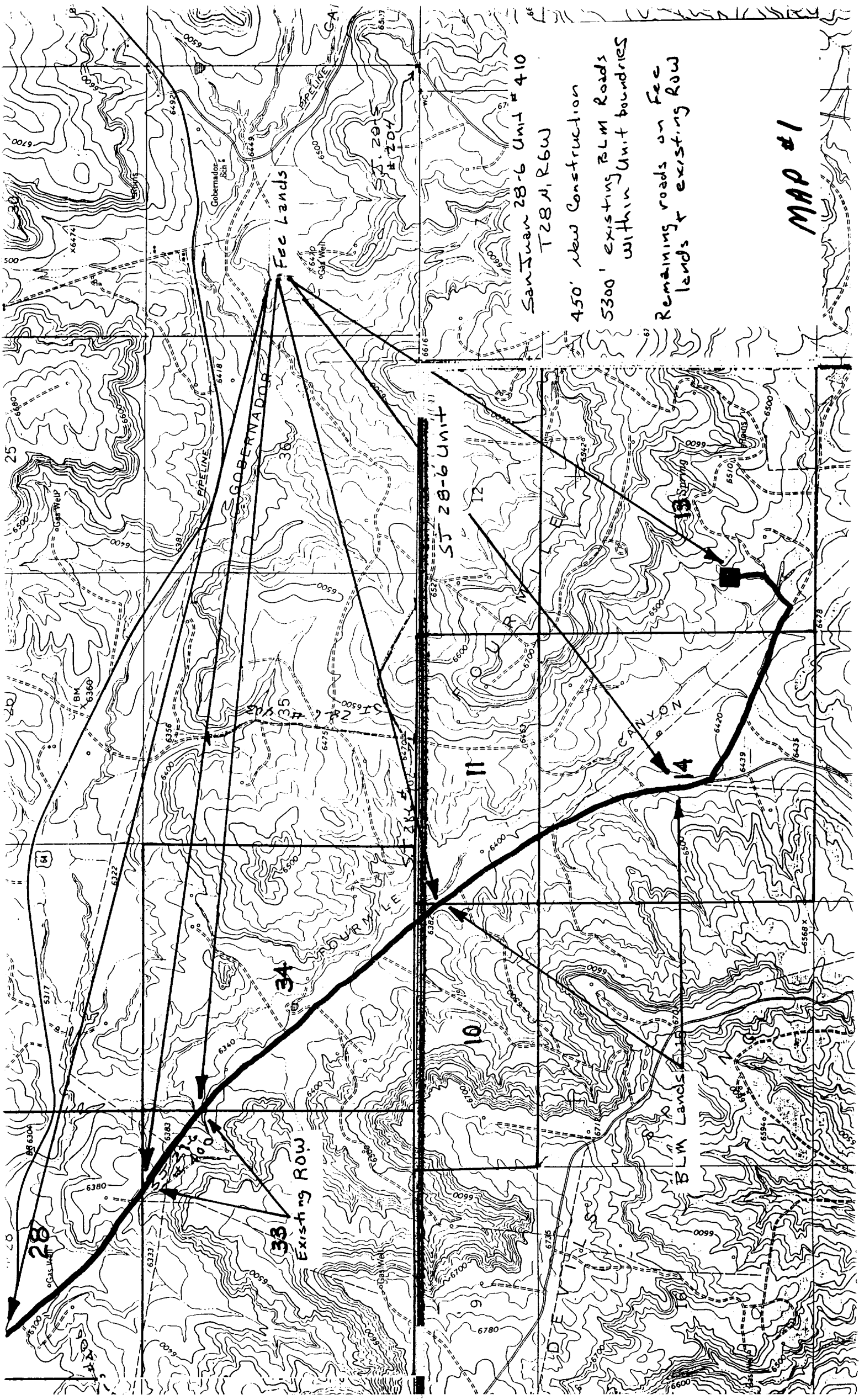
5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2723'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly

Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 544 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. 1168 cu ft. of slurry, 100% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.



San Juan 28-6 Unit # 410
T28N, R6W
450' New Construction
5300' existing BLM Roads
within Unit boundaries
Remaining roads on Fee
lands & existing ROW

MAP #1