

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.
El Paso Natural Gas Co.

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499

4. LOCATION OF WELL
1025' FSL 1110' FWL

5. LEASE NUMBER
SF-080430-A

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.
412

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
SEC. 31 T28N R06W NMPM

12. COUNTY
RIO ARRIBA

13. STATE
NM

14. DISTANCE IN MILES FROM NEAREST TOWN
6 MILES SW OF GOVERNADOR

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.
1025'

16. ACRES IN LEASE
595.28

17. ACRES ASSIGNED TO WELL
268.99

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.
450'

19. PROPOSED DEPTH
3359'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
6599' GL

22. APPROX. DATE WORK WILL START

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

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

RECEIVED

24. AUTHORIZED BY:

REG. DRILLING ENGR.

JUL 23 1990

OIL CON. DIV.

DIST. 3

6/15/90
DATE

PERMIT NO.

APPROVAL DATE

APPROVED

APPROVED BY

TITLE

DATE

AS AMENDED

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

NMOCD

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

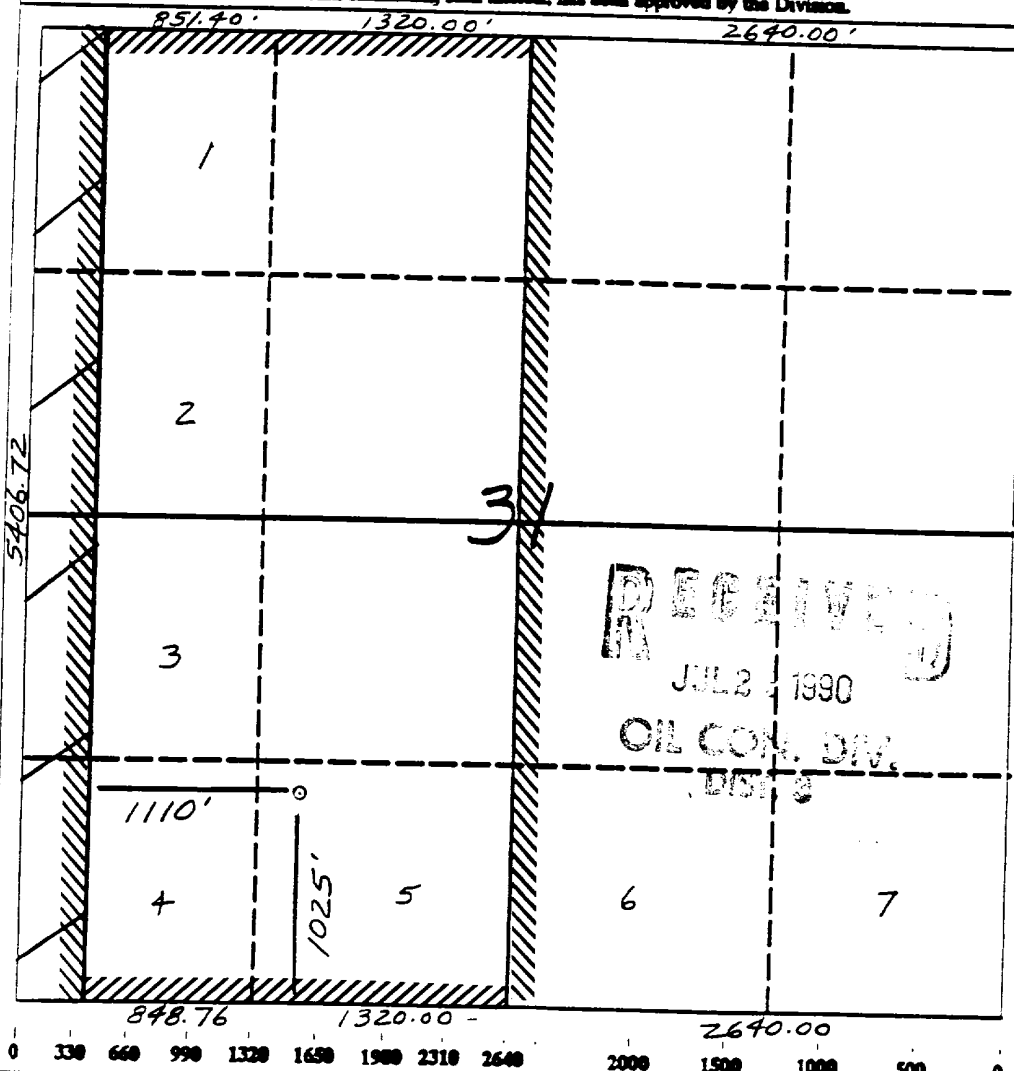
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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 (SF-080430A) <u>San Juan 28-6 Unit</u>		Well No. <u>412</u>
Unit Letter <u>N</u>	Section <u>31</u>	Township <u>28 North</u>	Range <u>6 West</u>	County <u>NMPM Rio Arriba</u>
Actual Footage Location of Well: <u>1025</u> feet from the <u>South</u> line and <u>1110</u> feet from the <u>West</u> line				
Ground level Elev. <u>6599'</u>		Producing Formation <u>Fruitland Coal</u>	Pool <u>Basin</u>	Dedicated Acreage: <u>268.99</u> Acres

- Outline the acreage dedicated to the subject well by colored pencil or hectare marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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
6-6-90

Date

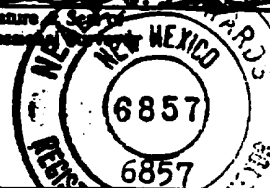
SURVEYOR CERTIFICATION

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.

3-28-90

Date Surveyed

Signature
Professional Surveyor



Certificate No.
Neale C. Edwards

Well Name: 412 SAN JUAN 28-6 UNIT
 Sec. 31 T28N R06W
 BASIN FRUITLAND COAL

1025'FSL 1110'FWL
 RIO ARRIBA NEW MEXICO
 Elevation 6599'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2522
 Kirtland- 2616
 Fruitland- 3059
 Fruitland Coal Top- 3181
 Fruitland Coal Base- 3318
 Pictured Cliffs- 3318

Total Depth- 3359

Logging Program: Mud logs from 3059 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 3359	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 - 3359	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3359	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.

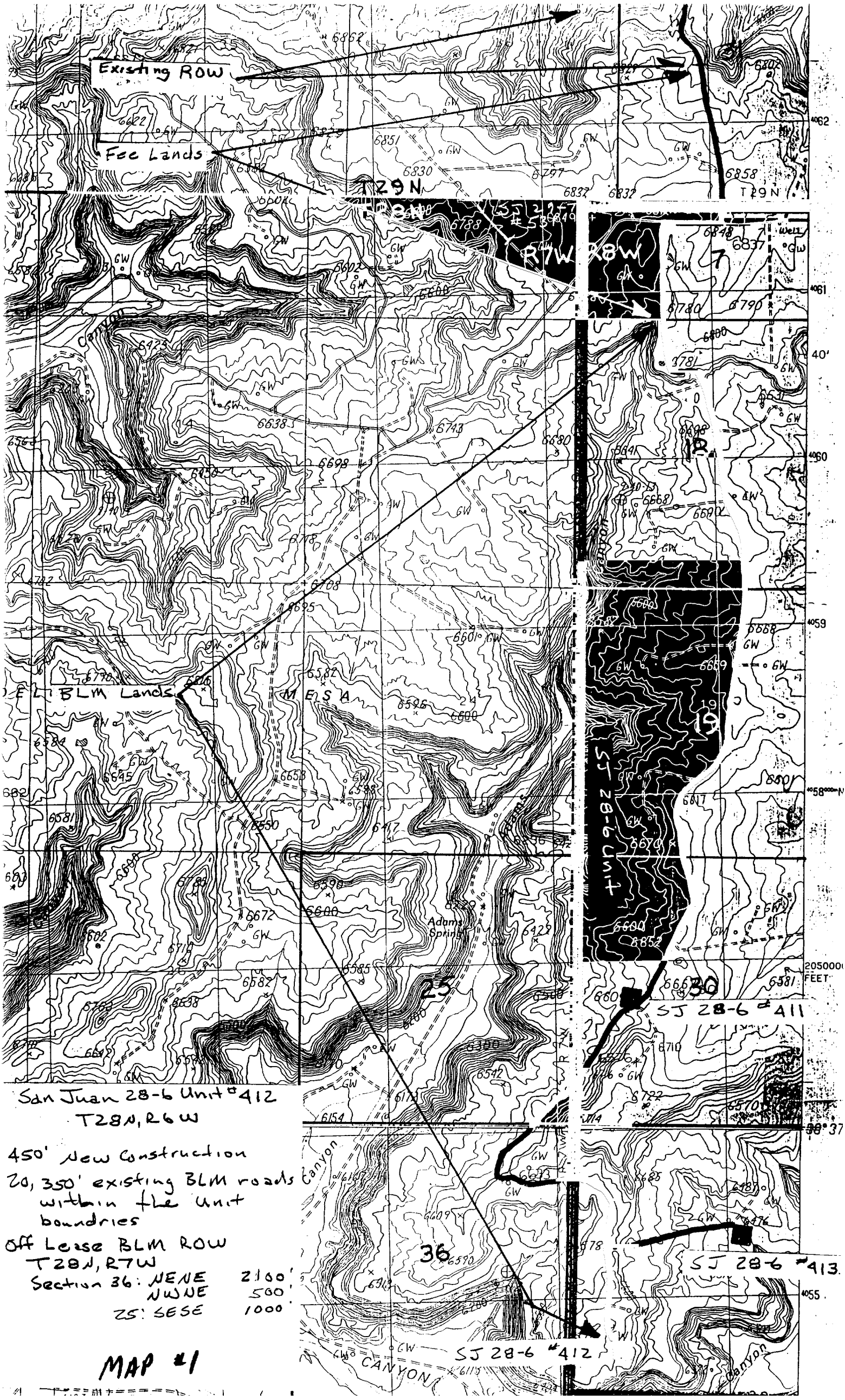
5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2616'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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 546 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. 1172 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 #412
T28N, R6W

450' New Construction
20, 350' existing BLM roads
within the unit
boundaries

Off Lease BLM ROW
T28N, R7W
Section 36: NENE 2100'
NWNE 500'
25: SESE 1000'

MAP #1