

San Juan 28-5 Unit #200

H-14-23N-5W

Meridian Oil, Inc.

F

30-039-24540

8-31-89

NSL-2689

F. Loc. 1475/N; 490/E

Elev. 7382 GL

Spd.

Comp.

TD

PB

Casing S. @ W Sx. Int. @ W Sx. Pr.

Cu. ft.

Cu. ft.

Cu. ft.

Csg. Perf.

Prod. Stim.

T Gas

R
A
N
S
 I.P. 80/D MCF/D After Hrs. SICP PSI After Days GOR Grav. 1st Del. Gas
 1st Del. Oil

TOPS		NITD	X	Well Log	TEST DATA						
Ojo Alamo		C-103		Plot X	Schd.	PC	Q	PW	PD	D	Ref. No.
Kirtland		C-104		Electric Log							
Fruitland				C-122							
Pictured Cliffs		Ditr		Dfa							
Chacra		Datr		Dac							
Cliff House		NSL-2689 N/320 Acres									
Menefee											
Point Lookout											
Mancos											
Gallup											
Greenhorn											
Dakota											
Entrada											

 P
 o
 o
 BasinFrCoalCo. RA

S 14

T 28N R 5W

UH Oper. Meridian Oil Inc.

Loc. San Juan 28-5 Unit No. 200



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington Resource Area
1235 Laplata Highway
Farmington, New Mexico 87401



IN REPLY REFER TO:

SF-077842 et al. (WC)
3162.3-1.0 (019)

SEP. 24 1991

RECEIVED
SEP 25 1991
OIL CON. DIV.
(DIST. 3)

Meridian Oil Inc.
P.O. Box 4289
Farmington, NM 87499

Gentlemen:

Enclosed are your Applications for Permit to Drill well Nos:

1. 724 Trigg, sec. 25, T. 31 N., R. 9 W., San Juan Co., N.M., lease SF-080876.
2. 200 SJ 28-5 Unit, sec. 14, T. 28 N., R. 5 W., Rio Arriba Co., N.M., lease SF-079250.
3. 100 Thompson, sec. 27, T. 31 N., R. 12 W., San Juan Co., N.M., lease NM-01614.
4. 520 SJ 29-7 Unit, sec. 8, T. 29 N., R. 7 W., Rio Arriba Co., N.M., lease SF-078423.
5. 204 SJ 28-4 Unit, sec. 19, T. 28 N., R. 4 W., Rio Arriba Co., N.M., lease NM-03862.
6. 508 SJ 29-7 Unit, sec. 15, T. 29 N., R. 7 W., Rio Arriba Co., N.M., lease SF-077842.
7. 710 Lackey B, sec. 27, T. 28 N., R. 9 W., San Juan Co., N.M., lease SF-077107A.

As discussed with John Caldwell of your company on, September 20, 1991, the subject APDs are rescinded and returned due to drilling not being commenced within the approved period of time.

ABANDONED LOCATION

You are required to request surface rehabilitation instructions from this office if construction activities occurred on the referenced drill site. If this office does not receive comment within 30 days, we will presume that no construction occurred and proceed accordingly. Later discovery that construction activities have in fact occurred, may result in assessment of liquidated damages.

Sincerely,

/s/ John L. Keller

John L. Keller
Chief, Branch of Mineral Resources

Enclosures

cc:

~~NEW Mexico Oil Conservation Division~~ 1000 Rio Brazos Rd., Aztec, NM 87410

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-079250
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR EL PASO NATURAL GAS CO. 14538	7. UNIT AGREEMENT NAME SAN JUAN 28-5 UNIT
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME SAN JUAN 28-5 UNIT
4. LOCATION OF WELL 1475'N 490'E	9. WELL NO. 200
10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	11. SEC. T. R. M OR BLK. SEC. 14 T28N R05W NMPM
12. COUNTY RIO ARRIBA	13. STATE NM
14. DISTANCE IN MILES FROM NEAREST TOWN 8 MILES FROM GOVERNADOR	15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 490'
16. ACRES IN LEASE 320.00	17. ACRES ASSIGNED TO WELL 320.00
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 1600' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 4328'
20. ROTARY OR CABLE TOOLS ROTARY	21. ELEVATIONS (DF, FT, GR, ETC.) 7382'GL
22. APPROX. DATE WORK WILL START	

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

DENLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLETION OF THE FOLLOWING
AND APPEAL PURSUANT TO BLM 3160.4.

24. AUTHORIZED BY: [Signature]
REGULATORY AFFAIRS

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

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

APPROVED

APR 28 1993

[Signature]

AREA MANAGER
FARMINGTON RESOURCE AREA

1126-2689

1000

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Submit to Assessor
District Office
For Lease, NM 88240
DISTRICT
Bureau, NM 88210
Ad. Assoc. NM 87410

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

Section		Township		Range		Lease		Well No.	
14		28 North		5 West		San Juan 28-5 Unit		200	
SF-079250		NMPM		County		Rio Arriba			
feet from the		East		line		Dedicated Acreage:		Act	
490						320			
Age Location of Well:		North		line and		Pool		Basin	
1475		feet from the		Producing Formation					
7382				Fruitland Coal					

1. Outline the acreage dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
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, force-pooling, etc.? ☒ Yes ☐ No If answer is "yes" type of consolidation unitization. (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.

* Note: This location is non-standard due to terrain & archeology.

Reissued to show moved location 3-26-89

OPERATOR CERTIFICATE

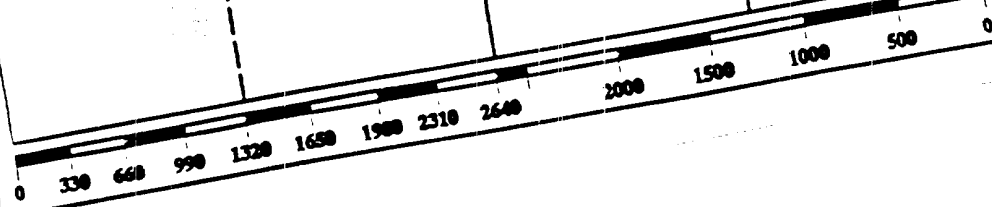
I hereby certify that contained herein is true and best of my knowledge and belief.

Signature
Peggy Bradfield
Printed Name
Regulatory A
Position
El Paso Natl
Company
6-7-
Date

SURVEYOR CERTIFICATE

I hereby certify that on this plat was actual surveys made supervision, and correct to the best of my belief.

Date Surveyed
Noble
Signature of State Professional Surveyor



Well Name: 200 SAN JUAN 28-5 UNIT
 Sec. 14 T28N R05W
 BASIN FRUITLAND COAL

1475'N 490'E
 RIO ARriba NEW MEXICO
 Elevation 7382'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 3675
 Kirtland- 3818
 Fruitland- 4086
 Fruitland Coal Top- 4229
 Fruitland Coal Base- 4327
 Intermediate TD- 4209
 Total Depth- 4328
 Pictured Cliffs- 4331

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 - 4209	Non-dispersed	8.4 - 9.1	30-60	no control
	4209 - 4328	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 - 4209	7"	20.0#	K-55
	6 1/4"	4159 - 4328	5 1/2"	15.5#	K-55
Tubing Program:		0 - 4328	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.

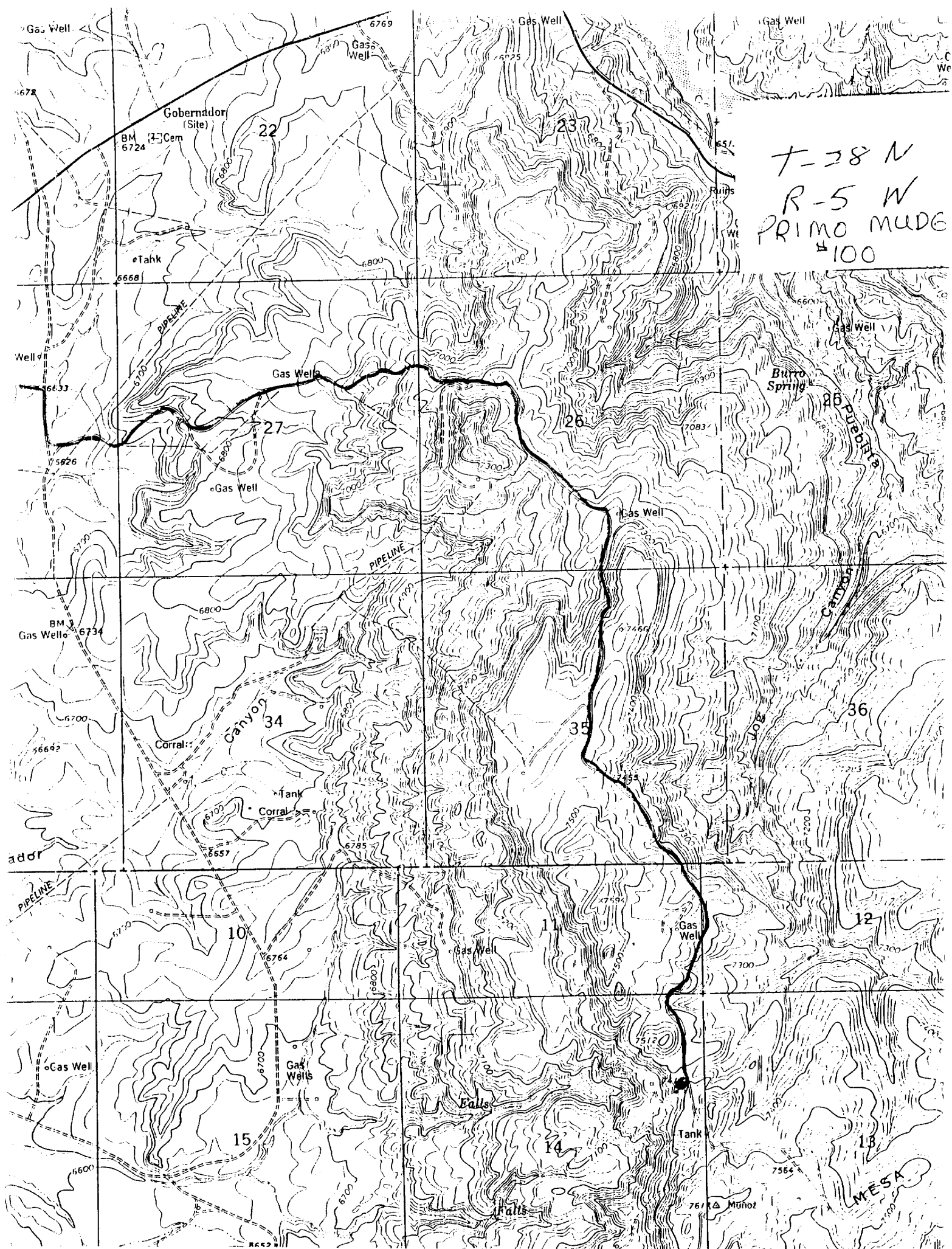
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

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 22 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. 161 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

August 23, 1989

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Meridian Oil, Inc.
P.O. Box 4289
Farmington, NM 87499-4289

Attention: Peggy Bradfield

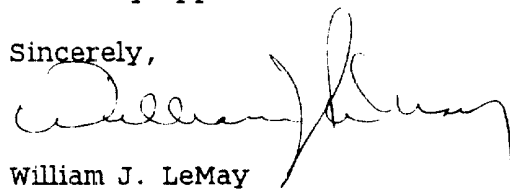
Administrative Order NSL-2689

Dear Ms. Bradfield:

Reference is made to your application of June 8, 1989 for a non-standard coal gas well location for your San Juan Unit 28-5 Well No. 200 to be located 1475 feet from the North line and 490 feet from the East line (Unit H) of Section 14, Township 28 North, Range 5 West, NMPM, Basin Fruitland Coal (Gas) Pool, Rio Arriba County, New Mexico. The N/2 of said Section 14 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool as promulgated by Division Order No. R-8768, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,



William J. LeMay
Director

WJL/MES/ag

cc: Oil Conservation Division - Aztec
New Mexico Oil & Gas Engineering Committee - Hobbs
US Bureau of Land Management - Farmington



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 7-11-89

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Re: Proposed MC _____
Proposed DHC _____
Proposed NSL X _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 6-7-89
for the Midland Oil Inc. S.S. 2254200
Operator Lease & Well No.

H-14-28N-S10 and my recommendations are as follows:
Unit, S-T-R

Approve

Yours truly,

Sam H. Bruch

MERIDIAN OIL

June 6, 1989

Mr. William LeMay
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

Dear Mr. LeMay:

This is a request for administrative approval for an unorthodox gas well location in the Basin Fruitland Coal Pool.

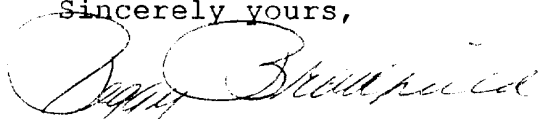
It is intended to locate the El Paso Natural Gas Company San Juan 28-5 Unit #200 at 1475' from the North line and 490' from the East line of Section 14, T-28-N, R-5-W, Rio Arriba County, New Mexico.

This non-standard location is necessary because of archaeology and terrain.

El Paso Natural Gas Company is the operator of the San Juan 28-5 Unit.

Plats showing the proposed well location and the terrain in Section 14, along with an ownership plat, are attached.

Sincerely yours,



Peggy Bradfield

encl.

RECEIVED
JUN 17 1989
OIL CON. DIV.
DMT 9

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

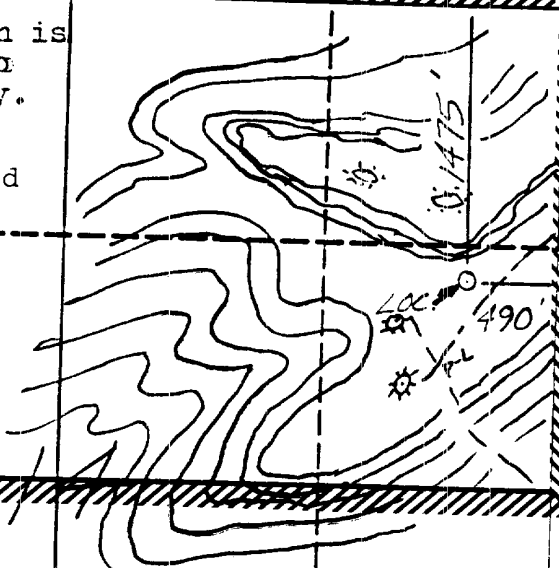
WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator El Paso Natural Gas			Lease SF-079250		Well No. 200
Unit Letter H	Section 14	Township 28 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 1475 feet from the North line and 490 feet from the East line					
Ground level Elev. 7382'		Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 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.

* Note: This location is non-standard due to terrain & archology.

Reissued to show moved location 5-26-89



OPERATOR CERTIFICATION

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

Signature
Peggy Bradfield
Printed Name
Regulatory Affairs
Position
El Paso Natural Gas
Company

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
NEALE C. EDWARDS
Signature of Sealer
Professional Surveyor

Certificate No.
6857

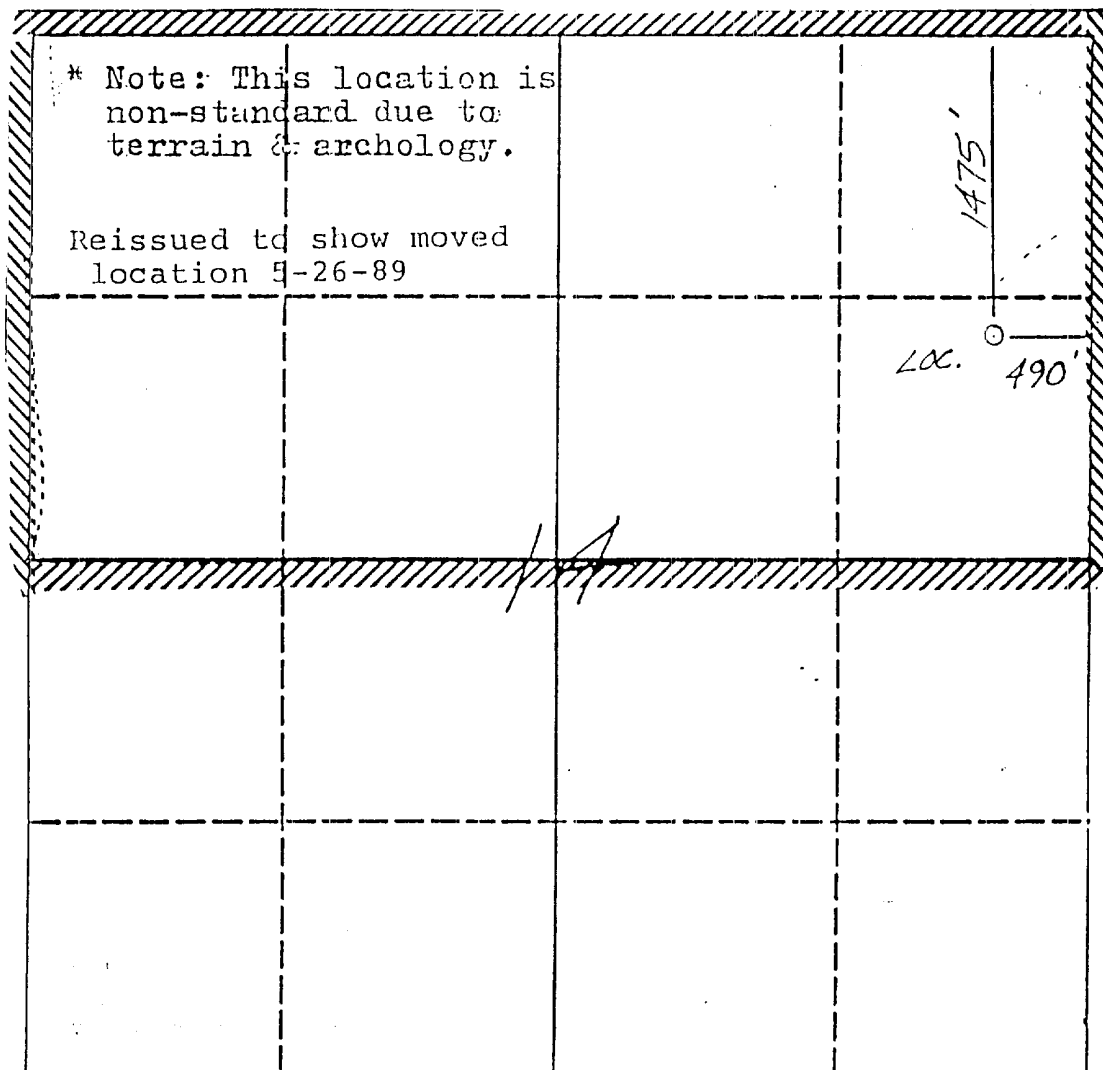
EL PASO NATURAL GAS COMPANY

Well Name San Juan 28-5 Unit #200, Fruitland Coal

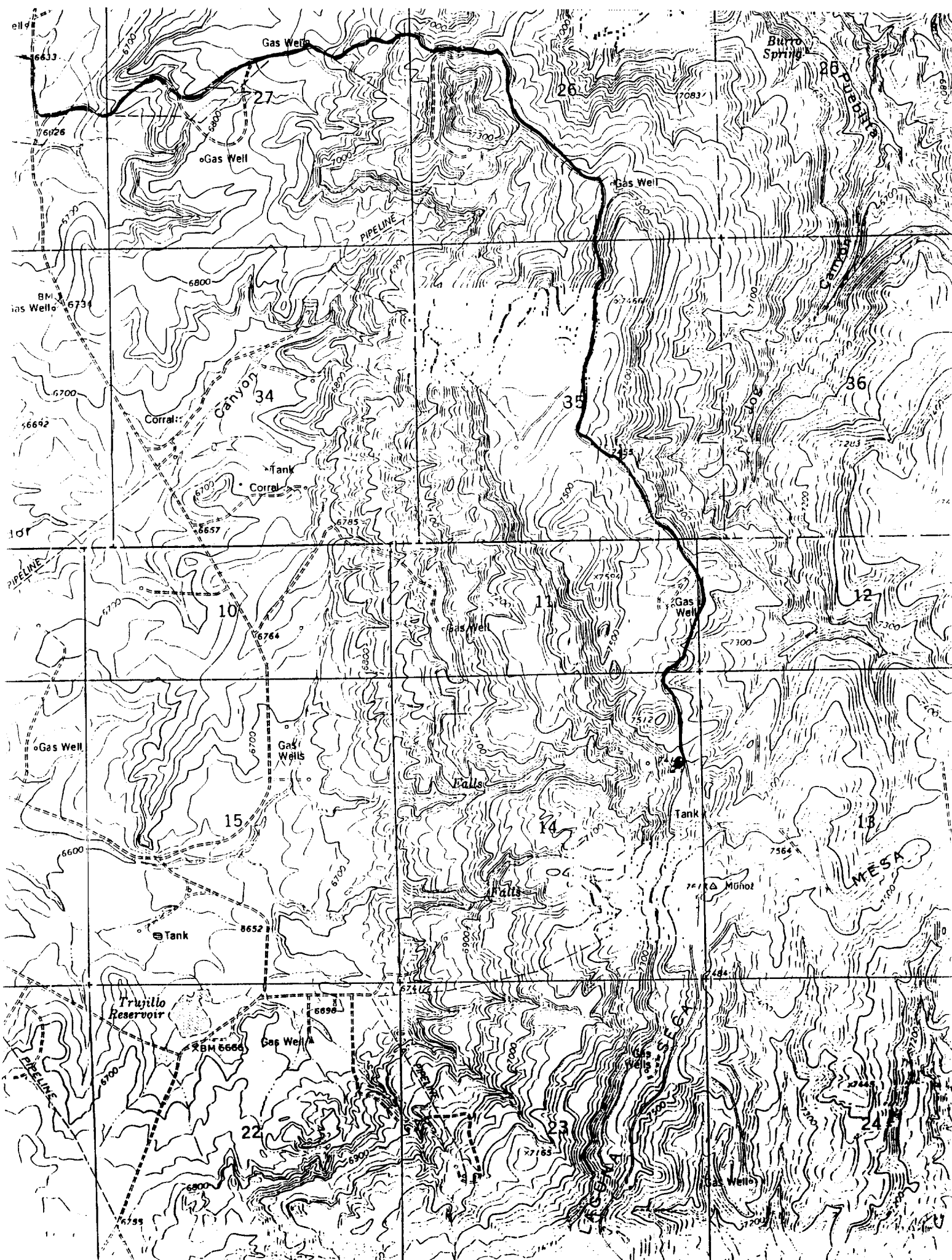
Footage----- 1475' FNL; 490' FEL

APPLICATION FOR NON-STANDARD LOCATION

County Rio Arriba State New Mexico Section 14 Township 28N Range 5W



REMARKS: All lands surrounding this proration are within the San Juan 28-5 Unit
Boundaries -- El Paso Natural Gas Company, Operator



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. TYPE OF WELL GAS	5. LEASE NUMBER SF-079250
2. OPERATOR <i>Meridian</i> EL PASO NATURAL GAS CO.	6. IF INDIAN, ALL. OR TRIBE NAME
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	7. UNIT AGREEMENT NAME SAN JUAN 28-5 UNIT
4. LOCATION OF WELL 1475'N 490'E	8. FARM OR LEASE NAME SAN JUAN 28-5 UNIT
	9. WELL NO. 200
	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. SEC. 14 T28N R05W NMPM
14. PERMIT NO.	15. ELEVATIONS 7382'GL
	12. COUNTY RIO ARRIBA
	13. STATE NM
16. NOTICE OF INTENTION TO: Change Plans	
17. Describe proposed or completed operations	

Attached is a revised operations plan, BOPE diagram and anticipated production facilities diagram on the subject well.

RECEIVED

MAR 23 1990

OIL CON. DIV.

DIST. 3

18. AUTHORIZED BY:

JO Zi
REGULATORY AFFAIRS

9/9/89

DATE

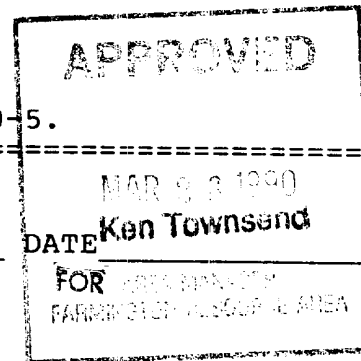
NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITION OF APPROVAL, IF ANY:



Well Name: 200 SAN JUAN 28-5 UNIT 1475'N 490'E
 Sec. 14 T28N R05W RIO ARriba NEW MEXICO
 BASIN FRUITLAND COAL Elevation 7382'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 3675
 Kirtland- 3818
 Fruitland- 4086
 Fruitland Coal Top- 4229
 Fruitland Coal Base- 4327
 Total Depth- 4328
 Pictured Cliffs- 4331

Logging Program: Mud logs from 4086 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no contro.
	200 - 4328	Non-dispersed	8.4 - 9.5	30-60	no contro.

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 - 4328	5 1/2"	15.5#	K-55
Tubing Program:		0 - 4328	2 3/8"	4.7#	J-55

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

5 1/2" production casing - float shoe on bottom.

Three centralizers run every other joint above shoe.

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 140 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 56 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. 226 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

BOP and Tests:

Surface to TD - 11" 2000 psi(minimum) double gate BOP stack

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. A kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Addition Information:

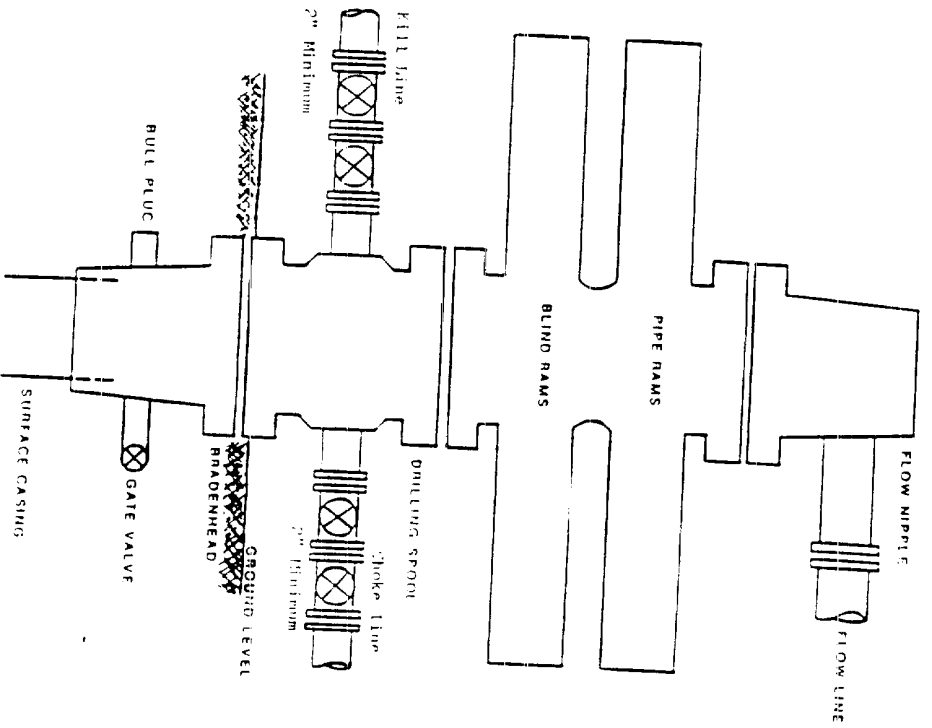
The Fruitland coal formation will be completed.

This gas is dedicated.

The N/2 of Section 14 is dedicated to this well.

LONG STRING FRUITLAND COAL

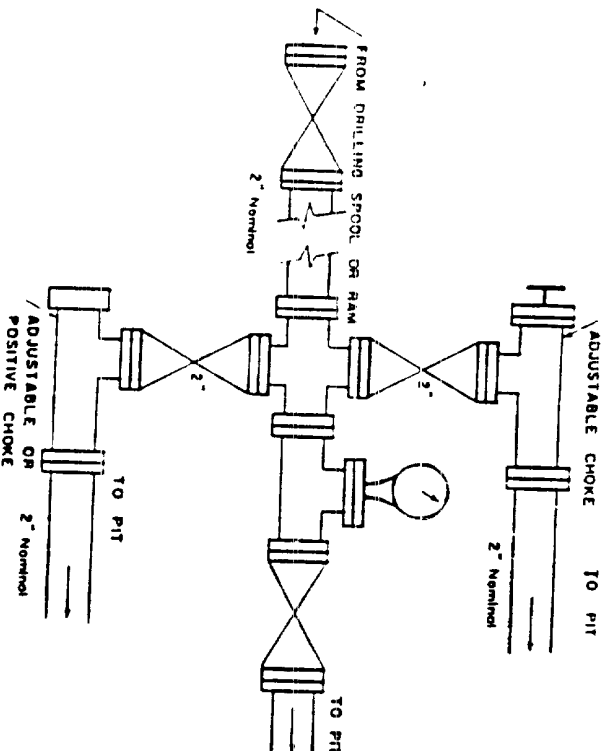
FIGURE #1



Minimum POPE Installation for a typical Fruitland Coal well from surface to Total Depth, 11", 2000 psi working pressure double gate BOP equipped with blind and pipe rams.

LONG STRING FRUITLAND COAL

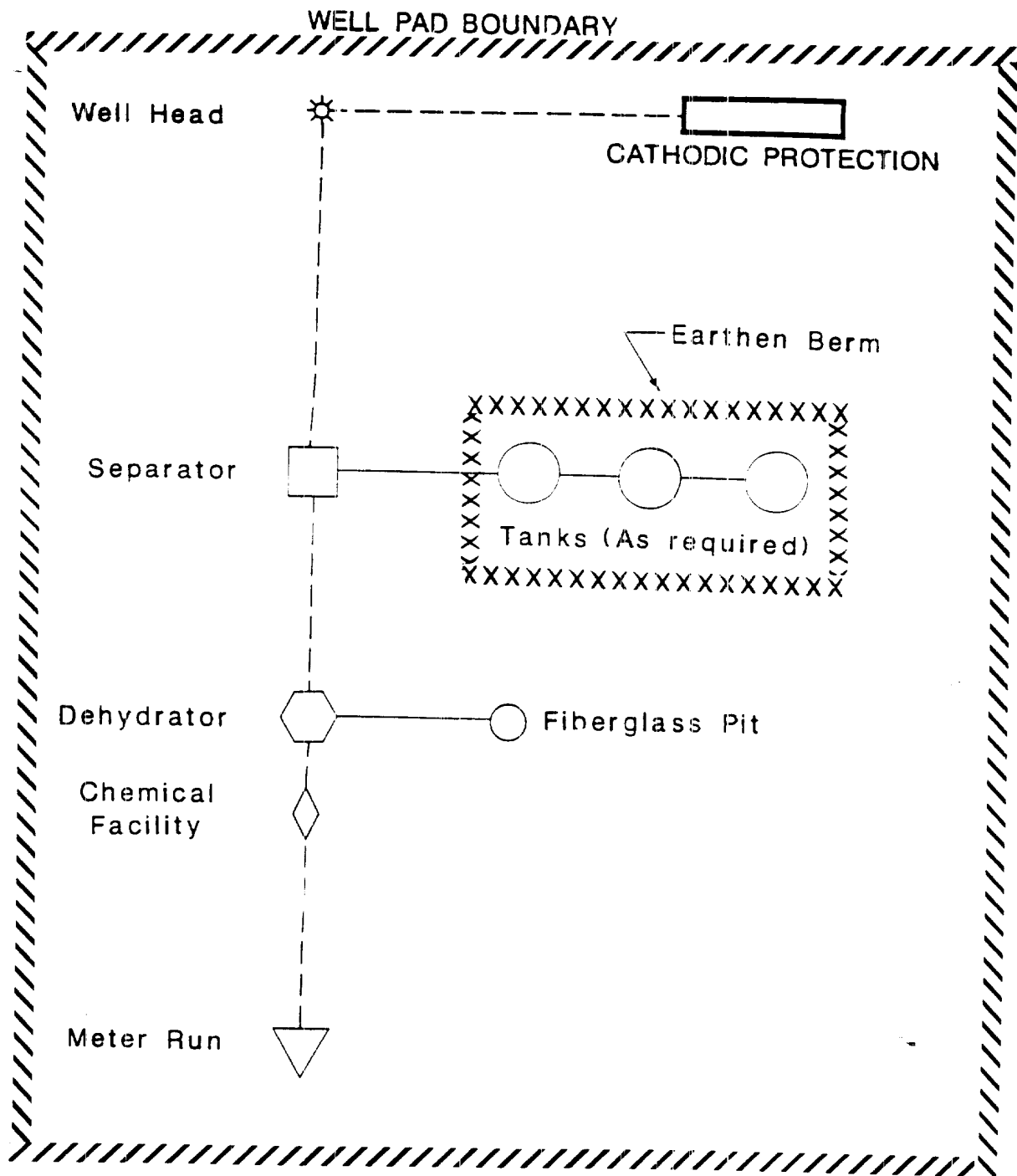
FIGURE #3



Minimum choke manifold configuration for a typical Fruitland Coal well from surface to TD, 2", 2000 psi working pressure equipment with two chokes.

LONG STRING FCCU BOP

UP04ZG0 9/8/89



MERIDIAN OIL
ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL
J. Falconi 4/28/89

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. TYPE OF WELL GAS		5. LEASE NUMBER SF-079250	
2. OPERATOR EL PASO NATURAL GAS CO.		6. IF INDIAN, ALL. OR TRIBE NAME	
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499		7. UNIT AGREEMENT NAME SAN JUAN 28-5 UNIT	
4. LOCATION OF WELL 1475'FNL 490'FEL		8. FARM OR LEASE NAME SAN JUAN 28-5 UNIT	
		9. WELL NO. 200	
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. T. R. M OR BLK. SEC. 14 T28N R05W NMPM	
14. PERMIT NO.	15. ELEVATIONS 7382'GL	12. COUNTY RIO ARRIBA	13. STATE NM
16. OTHER: Permit to Drill Extension			

It is anticipated that the Permit to Drill will expire on 08-28-90 before this well can be spudded, therefore an extension is requested.

RECEIVED

AUG 17 1990

OIL CON. DIV
DIST. 3

18. AUTHORIZED BY: [Signature]
REGIONAL DRILLING ENGINEER

7/27/90
DATE

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

=====
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE [Signature]
CONDITION OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

SUNDRY NOTICES AND REPORTS ON WELLS

1. TYPE OF WELL GAS		5. LEASE NUMBER SF-079250	
2. OPERATOR EL PASO NATURAL GAS CO.		6. IF INDIAN, ALL. OR TRIBE NAME	
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499		7. UNIT AGREEMENT NAME SAN JUAN 28-5 UNIT	
4. LOCATION OF WELL 1475'FNL 490'FEL		8. FARM OR LEASE NAME SAN JUAN 28-5 UNIT	
		9. WELL NO. 200	
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. T. R. M OR BLK. SEC. 14 T28N R05W NMPM	
14. PERMIT NO.	15. ELEVATIONS 7382'GL	12. COUNTY RIO ARRIBA	13. STATE NM
16. OTHER: APD EXTENSION			

It is anticipated that the Permit to Drill will expire on 02-28-91 before this well can be spudded, therefore an extension is requested.

THIS APPROVAL EXPIRES

MAR 28 1991

18. AUTHORIZED BY:

REGIONAL DRILLING ENGINEER

1/30/91
DATE

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITION OF APPROVAL, IF ANY:

APPROVED

FEB 11 1991

AREA MANAGER
FARMINGTON RESOURCE AREA