

27633
30-645-27633

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	RECEIVED MAR 07 1990	5. LEASE NUMBER SF-077085
1b. TYPE OF WELL GAS		6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	OIL CON. DIV. DIST. 3	7. UNIT AGREEMENT NAME
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499		8. FARM OR LEASE NAME OMLER
4. LOCATION OF WELL 1670'S 1200'W		9. WELL NO. 501
14. DISTANCE IN MILES FROM NEAREST TOWN 6 MILES S. OF BLANCO	12. COUNTY SAN JUAN	13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION 1200' TO NEAREST PROPERTY OR LEASE LINE.	16. ACRES IN LEASE	17. ACRES ASSIGNED TO WELL w/ 320.00
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 200' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 1912'	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5903'GL	22. APPROX. DATE WORK WILL START not later than 11/15/90 held in order to apply for a permit or this to be done.	
23. PROPOSED CASING AND CEMENTING PROGRAM		

*SEE OPERATIONS PLAN

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

2/10/90
DATE

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____
APPROVED AS AMENDED

MAR 02 1990

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

[Signature]
AREA MANAGER

Submit to Assegrante
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, Artesa, 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 Meridian Oil Inc.			Lease Omler			Well No. 501		
Unit Letter L	Section 36	Township 28 North	Range 10 West	County San Juan		NMPM		
Actual Footage Location of Well: 1670 feet from the South line and 1200 feet from the West line						Dedicated Acreage: 320.00 Acres		
Ground level Elev. 5903'		Producing Formation Fruitland Coal		Pool Basin Fruitland Coal				

- Outline the acreage dedicated to the subject well by colored pencil or fracture 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 _____
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, forced-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
Peggy Bradfield

Position
Regulatory Affairs

Company
Meridian Oil

Date
1-10-90

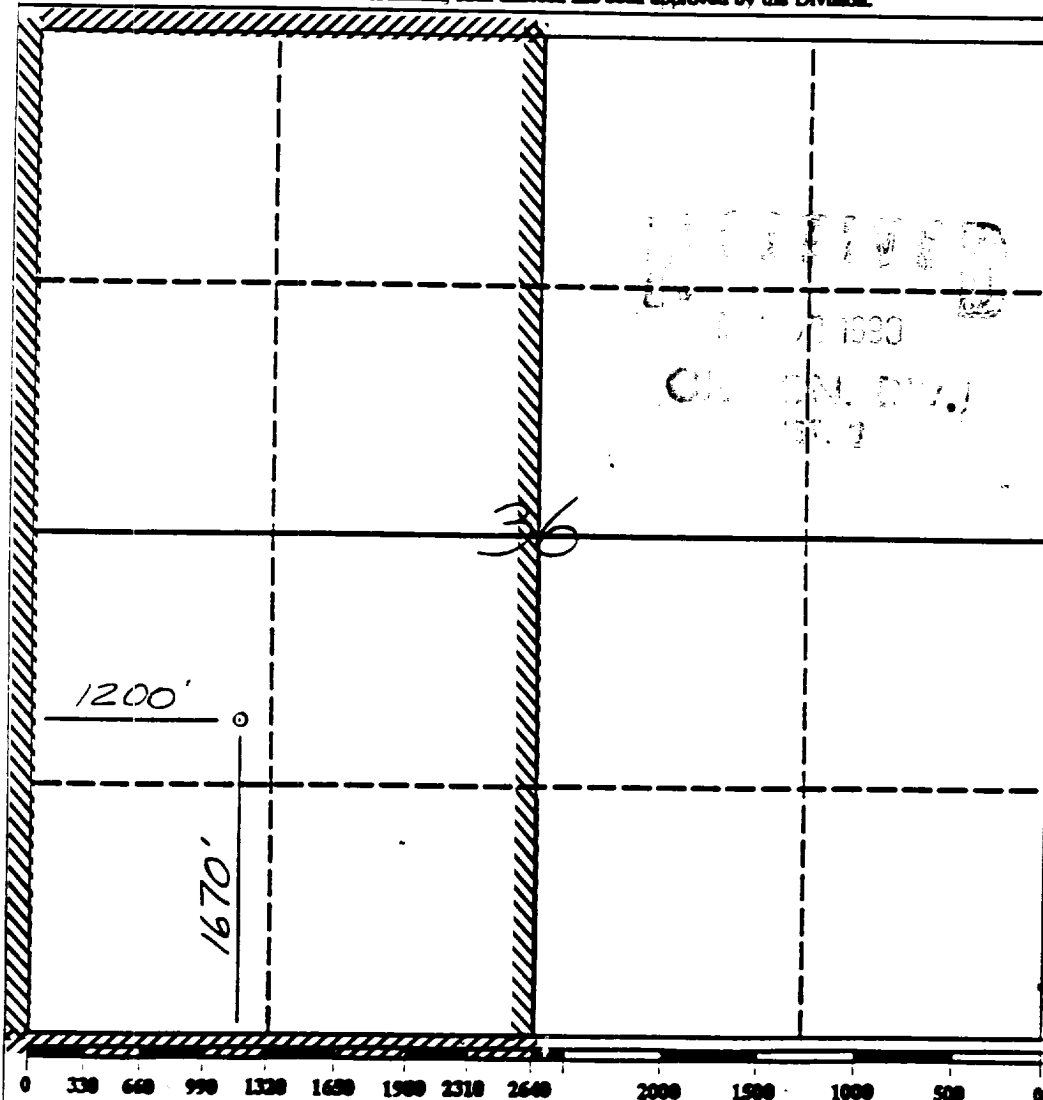
SURVEYOR CERTIFICATION

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
Professional Surveyor

Signature of Seal of Professional Surveyor
REGISTERED LAND SURVEYOR
6857

Certificate No. 6857



Well Name: 501 OMLER
 Sec. 36 T28N R10W
 BASIN FRUITLAND COAL

1670'S 1200'W
 SAN JUAN NEW MEXICO
 Elevation 5903'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 912
 Kirtland- 1051
 Fruitland- 1752
 Fruitland Coal Top- 1784
 Fruitland Coal Base- 1910
 Total Depth- 1912
 Pictured Cliffs- 1914

Logging Program: Mud logs from 1752 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 1912	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 - 1912	5 1/2"	15.5#	K-55
Tubing Program:		0 - 1912	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 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 286 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. 670 cu ft. of slurry, 100% excess to circulate to surface. Run temperature survey at 8 hours. WOC 12 hours.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

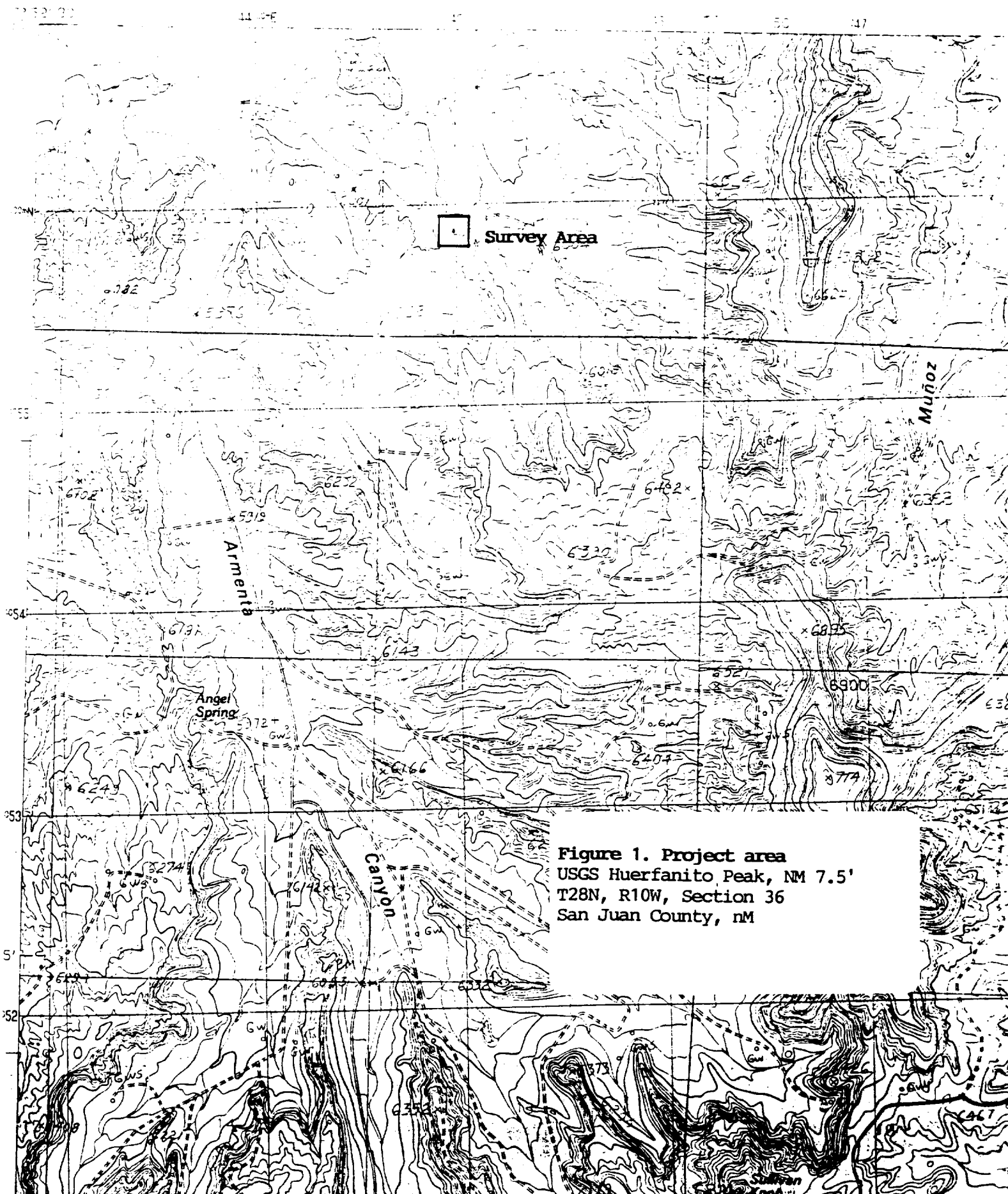


Figure 1. Project area
USGS Huerfanito Peak, NM 7.5'
T28N, R10W, Section 36
San Juan County, NM