21-125-24344

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRI	LL, DEEPEN, OR PLUG BACK
	TYPE OF WORK DRILL TYPE OF WELL GAS	5. LEASE NUMBER SF-078204 6. IF INDIAN, ALL. OR TRIBE NAME
2.	OPERATOR MERIDIAN OIL INC.	7. UNIT AGREEMENT NAME
3.	ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME SUNRAY D 9. WELL NO. 226
4.	LOCATION OF WELL 1425'S 2075'W 31989 - CON. DIV.	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 21 T30N R10W NMPM
14.	DISTANCE IN MILES FROM NEAREST TOWN 8 MILES FROM AZTEC	12. COUNTY 13. STATE SAN JUAN NM
15.	DISTANCE FROM 16. ACRI PROPOSED LOCATION 1425' TO NEAREST PROPERTY OR LEASE LINE.	ES IN LEASE 17. ACRES ASSIGNED TO WELL 322.66 645.32 320.44
18.	DISTANCE FROM 19. PROPERTY OF THE PROPOSED LOCATION TO NEAREST WELL DR. 600' COMPL., OR APPLIED FOR ON THIS LEASE.	POSED DEPTH 20. ROTARY OR CABLE TOOLS 2950' ROTARY
21.	ELEVATIONS (DF, FT, GR, ETC.) 6406'GL	22. APPROX. DATE WORK WILL START
23.	PROPOSED CASING AND	CEMENTING PROGRAM
	*SEE OPERATIONS I	PLAN "Approval of this action dose not warrant that the applicant holds legal or equitable rights
24.	AUTHORIZED BY: LEGULATORY AFFAIRS	DATE
PERMI	T NO APPROVE	AL DATE AS AN AND DED
APPRO	OVED BYTITLE	DATE
NOTE:	THIS FORMAT IS ISSUED IN LIEU OF U	IS BLM FORM 3160-3

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the outer boundaries of the Section. Operator Well No. 226 Meridian Oil INc. Sunray D Unit Letter Township Ronge . County San Juan 21 30 North 10 West Actual Footage Location of Well: 1425 West 2075 feet from the line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Acre Fruitland Coal 64061 Basin 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 worki interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been conso dated by communitization, unitization, force-pooling. etc? 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 this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divisi Reissued to show moved location CERTIFICATION I hereby certify that the information co tained herein is true and complete to t Regulatory Affairs Position Meridian Oil Inc. Company Date oLoc. 12-22-88 Registered Professional Engineer and/or Land Surveyor Neale

1320 1050 1980 231D 2640

Certificate No.

6857

DATE: MAY 8,1989

Well Name: 226 SUNRAY D

1425'S 2075'W

Sec. 21 T30N R10W

SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL

Elevation 6406'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1662

Kirtland- 1770

Fruitland- 2655

Fruitland Coal Top- 2735

Fruitland Coal Base- 2946

Intermediate TD- 2715

Total Depth- 2950

Pictured Cliffs- 2952

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval 0 - 200 200 - 2715 2715 - 2950	Type Spud Non-dispersed Formation Water		Visc. 40-50 30-60	Fl. Loss no control no control no control
	2713 2930	rormation water	0.4		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 - 2715	7 "	20.0#	K-55
	6 1/4"	2665 - 2950	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2950	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: $9 \frac{5}{8}$ " x 7" x 2 $\frac{7}{8}$ " 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 103 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. 317 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.

BOP and Tests:

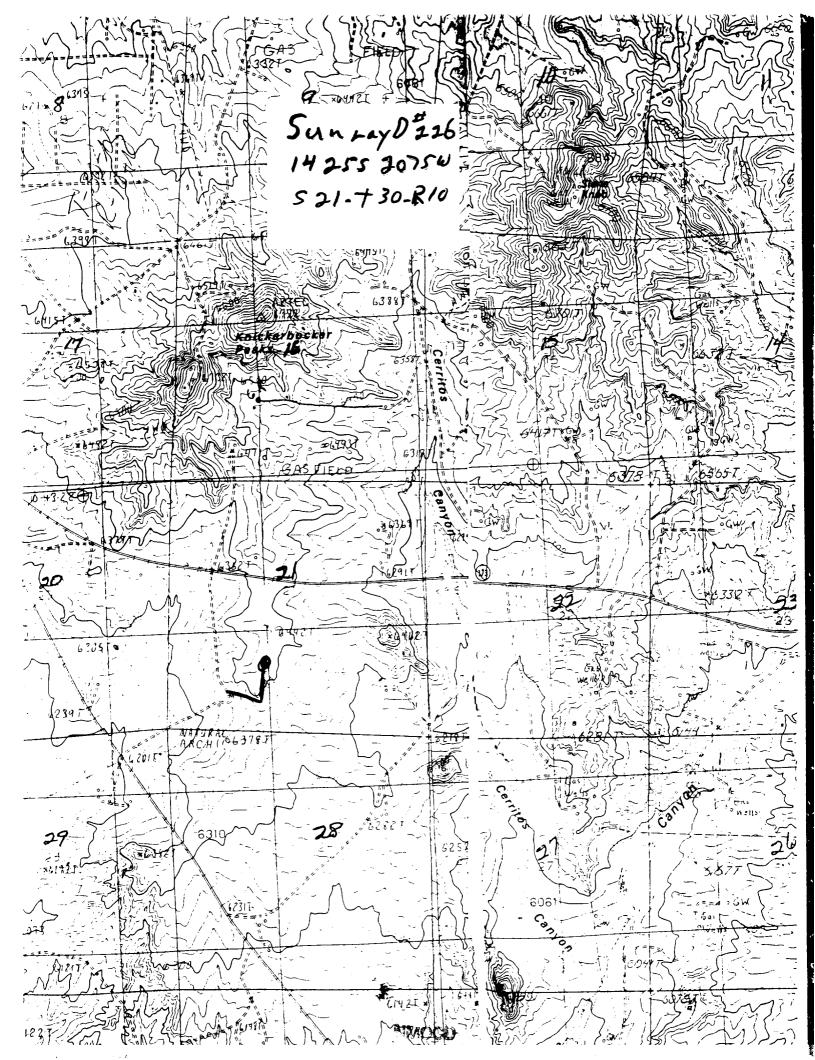
Surface to intermediate TD - 11" 3000 psi double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

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 S/2 of Section 21 is dedicated to this well.



159.40

5377777

