

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SUN MAIL ROOM  
89 MAR 17 PM 1:34  
FARMINGTON RESURGATE AREA  
FARMINGTON, NEW MEXICO

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG ~~BACK~~

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-077092
1b. TYPE OF WELL GAS SINGLE ZONE	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 LACKEY A
4. LOCATION OF WELL 1515'S 1955'W	9. WELL NO. 293
14. DISTANCE IN MILES FROM NEAREST TOWN 1 MILE FROM BLANCO	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. K SEC. 12 T29N R10W NMPM
15. DISTANCE FROM PROPOSED LOCATION 1515' TO NEAREST PROPERTY OR LEASE LINE.	12. COUNTY 13. STATE SAN JUAN NM
16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 807.84 315.56	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 700' COMPL., OR APPLIED FOR ON THIS LEASE.	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5734'GL	22. APPROX. DATE WORK WILL START

THIS APPLICATION IS SUBJECT TO THE BLM'S  
CURRENT POLICY IN COMPLIANCE WITH THE  
"GENERAL REQUIREMENTS"

This action is subject to the BLM's  
procedural review pursuant to 36 CFR 3160.4  
and appeal pursuant to 36 CFR 3165.4

23. PROPOSED CASING AND CEMENTING PROGRAM

RECEIVED

APR 07 1989

OIL CON. DIV.  
DIST. 3

24. AUTHORIZED BY: *[Signature]*  
REGULATORY AFFAIRS

\*SEE OPERATIONS PLAN  
"Approval of this action does not warrant that the applicant holds legal or equitable right or title to this lease."

3-16-89

APPROVED  
AS AMER. 100

APR 05 1989

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

*OK*  
*[Signature]*

*Proctor*

# OPERATIONS PLAN

DATE: MAR 14,1989

Well Name: 293 LACKEY A 1515'S 1955'W  
 Sec. 12 T29N R10W SAN JUAN NEW MEXICO  
 BASIN FRUITLAND COAL Elevation 5734'GL

Formation tops: Surface- NACIMIENTO  
 Ojo Alamo- 991  
 Kirtland- 1117  
 Fruitland- 1791  
 Fruitland Coal Top- 2023  
 Fruitland Coal Base- 2149  
 Intermediate TD- 2003  
 Total Depth- 2151  
 Pictured Cliffs- 2165

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Low solid non-dispersed mud from surface to total depth.

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 - 2003	7"	20.0#	K-55
	6 1/4"	1953 - 2151	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2151	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 liner - 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 96 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. 304 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.

The Fruitland coal formation will be completed.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well. This gas is dedicated.  
 The W/2 of Section 12 is dedicated to this well.

All distances must be from the outer boundaries of the Section.

Operator Meridian Oil Inc.			Lease Lackey A (SF-077092)		Well No. 293
Unit Letter K	Section 12	Township 29 North	Range 10 West	County San Juan	
Actual Footage Location of Wells 1515 feet from the South line and 1955 feet from the West line					
Ground Level Elev. 5734	Producing Formation Fruitland Coal		Pool Basin		Dedicated Acreage: 315.56

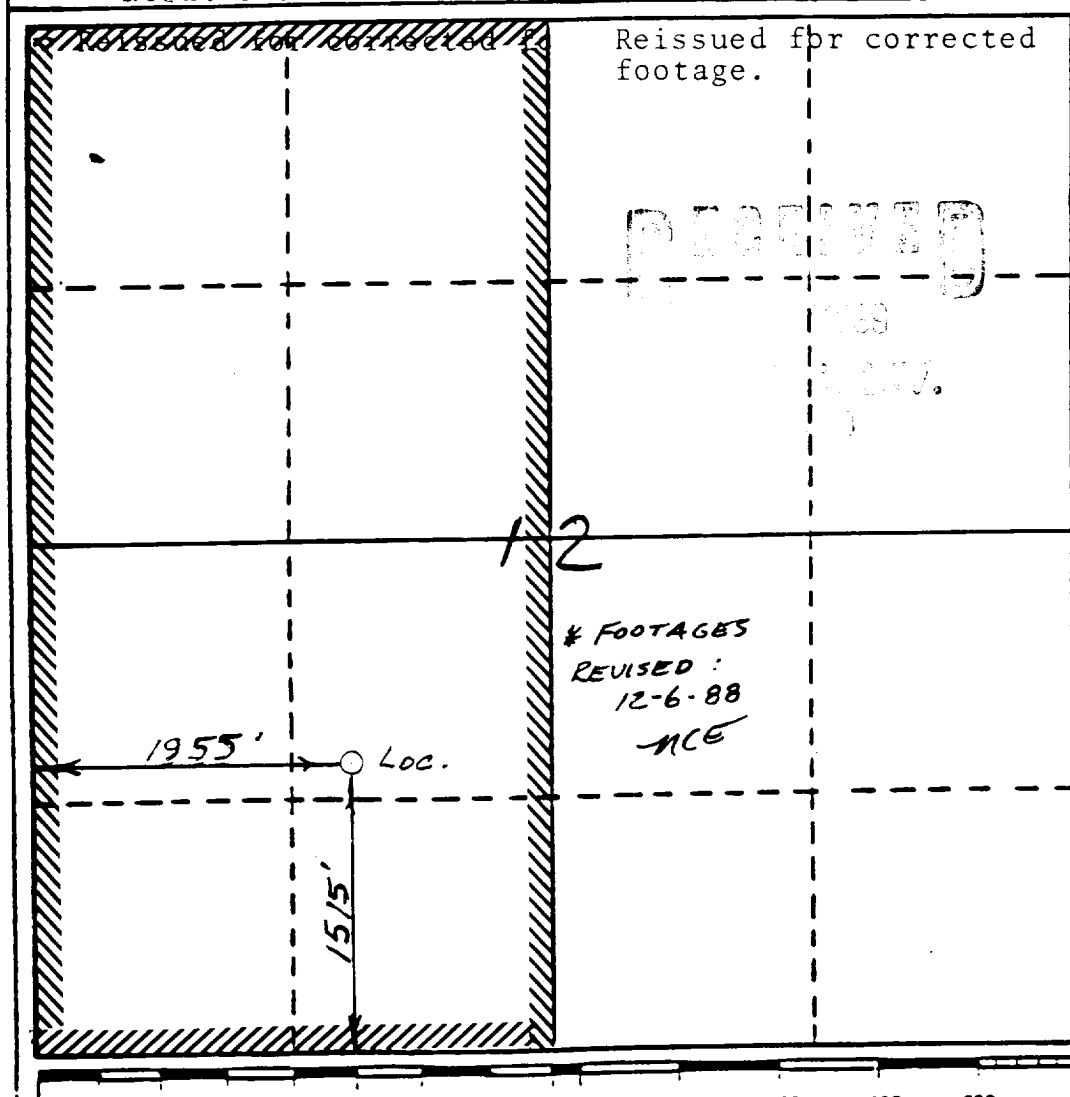
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 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 interests, has been approved by the Division.

\* NOTE: Non-standard due to archeology.



CERTIFICATION

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

Name  
Regulatory Affairs

Position  
Meridian Oil Inc.

Company  
3-16-89

Date

I hereby certify that the location shown on this plat was determined from a survey of actual measurements made by me under supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
11/23/88

Registered Professional Engineer and/or Land Surveyor

Neale C. Edward

Certificate No.  
6857



18

10

LINE 11-12

All Row on lease,  
sec, state or  
previously applied  
for ROW (Kelly & Co)

5/7/51