36.045.28366 RECEIVE

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRIL	L, DEEPEN, OR PLUG BACK
	TYPE OF WORK DRILL TYPE OF WELL GAS	5. LEASE NUMBER SF-078389 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 LUCERNE A 9. WELL NO. 102
	LOCATION OF WELL 1450'FSL 1730'FWL	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 9 T31N R10W NMPM
14.	DISTANCE IN MILES FROM NEAREST TOWN 3 MILES FROM CEDAR HILL	12. COUNTY 13.STATE SAN JUAN NM
ı	PROPOSED LOCATION 1450'	S IN LEASE 17. ACRES ASSIGNED TO WEL
	DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 200' COMPL., OR APPLIED This action is subject to technic FOR ON THIS LEASE. procedural review pursuant in and appear pursuant is 40 CFF	OSED DEPTH 20. ROTARY OR CABLE TOOLS 2945' ROTARY cal and DRILLING OFFRATIONS AUTHORIZED ARE SUBJECT 12 COMPLIANCE WITH ATTACHED GENERAL REQUIREMENTS".
21.	ELEVATIONS (DF, FT, GR, ETC.) 6149'GL	22. APPROX. DATE WORK WILL START
23.	*SEE OPERATIONS PROPOSED CASING AND *SEE OPERATIONS PROPOSED CASIN	
PERMI	T NO APPROVA	L DATE AS ATTACK
NOTE:	APD for this location was appro	S BLM FORM 3168-3/ The original

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088

SANTA FE, NEW MEXICO 37501

Form C-102

All distances must be from the outer boundaries of the Section. Operator Lease Well No. Meridian Oil Co. Lucerne "A" SF-078389 102 Unit Letter Section Township County T31N R10W San Juan County Actual Footage Location of Wells 1450 leet from the South feet from the West itae Ground Level Elev. Producing Formation Dedicated Acreages 6149 Fruitland Coal Basin 316.161. 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 consor 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 a 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 Divisic CERTIFICATION I hereby certify that the information contained herein is true and complete to the 1990 ארזא Peggy Bradfield Position OIL CON. DIV. Regulatory Affairs Meridian Oil Inc. UCERNE 102 1730 Land Surveyor Date Surveyed July 12, 1988 Registered Land Surveyor R. Howard Daggett 1320 1650 1880 2310 2640 9679 2000

1450'FSL 1730"FWL

DATE: OCT 16,1990

Well Name: 102 LUCERNE A

Sec. 9 T31N R10W

SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL Elevation 6149'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1381 Kirtland- 1413

Fruitland- 2507

Fruitland Coal Top- 2654 Intermediate TD-2634 Fruitland Coal Base- 2944 Total Depth-2945

Pictured Cliffs- 2947

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Туре	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9		no contro.
	200 - 2634	Non-dispersed	8.4 - 9.1	30-60	no control
	2634 - 2945	Formation Water	8.4		no control

Casing Progr	am: Hole Size	Depth 1	Interval	Csq. Size	Weight	Grade
	12 1/4"	0 -	- 200	9 5/8"	32.3#	H-40
	8 3/4"	0 -	- 2634	7"	20.0#	K-55
	6 1/4"	2584 -	- 2945	5 1/2"	15.5#	K-55
Tubing Progr	am:	0 -	- 2945	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

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. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 1413' . Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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 160 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (189 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 374 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. 842 cu ft. of slurry, 110% 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.

5 1/2" liner - do not cement.

