# DECEIVED OCT 3 1 1990. OIL CON. DIV.

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

30.045-28362

C	DISTAPPLICATION FOR PERMIT TO DE	RILL, 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 COM 9. WELL NO. 101
4.	LOCATION OF WELL 1660'FNL 1180'FEL	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 TOW 2 MILES FROM CEDAR HILL	N 12. COUNTY 13.STATE SAN JUAN NM
15.	DISTANCE FROM 16. AC PROPOSED LOCATION 1180' TO NEAREST PROPERTY OR LEASE LINE.	RES IN LEASE 17. ACRES ASSIGNED TO WELL  // 319.85  This action is subject to technical and procedural review pursuant to 43 CFR 3185 s and appeal pursuant to 43 CFR 3186 a
18.	PROPOSED LOCATION TO NEAREST WELL DR. 300' COMPL., OR APPLIED FOR ON THIS LEASE.	OPOSED DEPTH 20. ROTARY OR CABLE TOOLS 2977'  DESILING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
21.	ELEVATIONS (DF, FT, GR, ETC.) 6191'GL	22. APPROX. DATE WORK WILL START
23.	PROPOSED CASING AN	D CEMENTING PROGRAM
*SEE OPERATIONS PLAN  24. AUTHORIZED BY:   REG. DRILLING ENGR.   /0/2/90  DATE		
PERMI	T NO APPRO	VAL DATE
NOTE:	TITLE  THIS FORMAT IS ISSUED IN LIEU OF  APO approved 9-1-88; rescin	US BLM FORM 3160-3.
74	old crioy FOR CA(2)	ded 2-5-90 for this location.

# STATE OF NEW MEXICO

1370 1000 1080 2310

### OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-

ENERGY MO MINERALS DEPARTMENT SANTA FE, NEW MEXICO 37501 All distances must be from the outer boundaries of the Section. Lease Well No. Meridian Oil Co. Lucerne"A" Com SF-078389 101 Section Township Η 9 T31N R10W San Juan County

Coersies Unit Letter Actual Footoge Location of Wells 1660 feet from the North feet from the East Ground Level Clev. Producing Formation Dedicated Acreages 6191 Fruitland Coal Basin 319.85 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 workin interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli dated by communitization, unitization, force-pooling. etc? If answer is "yes;" type of consolidation Communitization agreement will be obtained If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side c 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 Divisio CERTIFICATION® I heraby certify that the information contained herein is true and complete to the best flimy knowledge and belief. Regulatory Affairs Meridian Oil Inc. 1,180 LUCERNE N Company 4" COM \*101 Date

OIL CON. DIV

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nd Burveyor

July 13, 1988

Howard Daggett

9679

Well Name: 101 LUCERNE A COM 1660'FNL 1180'FEL Sec. 9 T31N R10W SAN JUAN NEW MEXICO BASIN FRUITLAND COAL

Elevation 6191'GL

DATE: SEP 26,1990

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1239 Kirtland- 1340 Fruitland- 2586

Fruitland Coal Top- 2979 Fruitland Coal Base- 2787 Intermediate TD-2767 Total Depth-2977

Pictured Cliffs- 2976

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Interval Type Weight Visc. Fl. Loss 0 - 200 Spud 8.4 - 8.940-50 no control 200 - 2767 Non-dispersed 8.4 - 9.1 30-60 no control 2767 - 2977 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 - 400 - 2767 8 3/4" 7" 20.0# K-55 6 1/4" 2717 - 2977 5 1/2" 15.5# K-55 Tubing Program: 0 - 2977 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 @ 1340' . 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 396 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. 884 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.

