## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FO	OR PERMIT TO PR	ILL, DEEPEN, OR PLUG BACK	
la.	TYPE OF WORK DRILL	BECELAT	5. LEASE NUMBER SF-078389	
lb.	TYPE OF WELL GAS	OL CON. D	6. IF INDIAN, ALL. OR TRIBE	NAME
2.	OPERATOR MERIDIAN OIL INC	- ADIA	7. UNIT AGREEMENT NAME	
3.	ADDRESS & PHONE NO. P O BOX 4289 FARMINGTON, NM 8		8. FARM OR LEASE NAME LUCERNE A 9. WELL NO. 100	
4.	LOCATION OF WELL 940'FSL 840'FWL		10. FIELD, FOOL, OR WILDCAT Cedar Hill, Fruitland Basal Coal 11. SEC. T. R. M OR BLK. SEC. 3 T31N R10W NMF	L
14.	DISTANCE IN MILES FI 2 MILES FROM CEDAR I		N 12. COUNTY 13.STATE SAN JUAN NM	
15.	DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.	840'	RES IN LEASE 17. ACRES ASSIGNED  308.84  /255.18  RES IN LEASE 17. ACRES ASSIGNED  308.84  RES IN	ori and Si orini
18.	DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.	19. PRO	OPOSED DEPTH 20. ROTARY OR CABI 2980' ROTARY  DEPLY FOR THE STATE OF THE AMERICAN AND A CONTROL OF T	ED 782
21.	ELEVATIONS (DF, FT, 6192'GL	GR, ETC.)	22. APPROX. DATE WORK WILL	START
23.	PRO	POSED CASING AND	D CEMENTING PROGRAM	
		*SEE OPERATIONS	PLAN	
24.	AUTHORIZED BY:	Tollow ENGING ENGINE	R. APPATEVEL	<del>-</del>
PERM	IT NO.	APPRO	VAL DATEAS AMERICA	
APPR	OVED BY	TITLE	DATE DATE	
NOTE	: THIS FORMAT IS IS:	SUED IN LIEU OF	US BLM FORM 3160-31	

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

form C-102 Revised 10-1

All distances must be from the outer boundaries of the Section

Operator		Le	100		l Waste or
Me	ridian Oil	Inc.	Lucerne A	(SF-078339)	Well No.
Unit Letter	Section	Township	Range	County	100
Actual Fastage La	3	31 North	10 West	San Juan	
<b>24</b> 0		South line and	240		
Ground Level Elm	Producing For	rmetion Pos		from the West	line
51921	Fruit	land Basal Coal	Cedar	Hill Bed Fet lad	icated Acreage:
1. Outline	the acreage dedica	sted to the subject well l	w colored penalty	hashus	308.84 Ac
2. If more		dedicated to the well, or			
3. If more the dated by		ifferent ownership is dedi initization, force-pooling. o nswer is "yes;" type of co	etc?	nave the interests of all	owners been conso
tare rorm	is "no," list the	owners and tract descripti	ons which have ac		
No allowa forced-poo	ble will be assigned bling, or otherwise)	ed to the well until all inte or until a non-standard un	erests have been continued it, eliminating such	onsolidated (by communi interests, has been appr	tization, unitization oved by the Divisi
	4		ı	CE	RTIFICATION
	GCT25199		}         	best of my know	that the information co true and complete to t judge and belief.
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,,,,,,,,,,,				Meridian  Date  9-27	
,				shouth on this did	HETING PURIOUS IN SIGN STORY TO SHE SHE SHE SHE
<u>840'</u>	1			Neale C. E	rot
330 000	10 1320 1460 1880	2319 2440 2000 .		1 6857	

Well Name: 100 LUCERNE A 940'FSL 840'FWL

Sec. 3 T31N R10W SAN JUAN NEW MEXICO CEDAR H FRUITLAND COAL Elevation 6192'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1380 Kirtland- 1430 Fruitland- 2541

Fruitland Coal Top- 2722 Intermediate TD- 2702 Fruitland Coal Base- 2979 Total Depth- 2980

Pictured Cliffs- 2981

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Туре	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2702	Non-dispersed	8.4 - 9.1	30-60	no control
	2702 - 2980	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth I	nterval	Csg. Size	Weight	Grade
	12 1/4"	0 -	200	9 5/8"	32.3#	H - 40
	8 3/4"	0 -	2702	7 <b>"</b>	20.0#	K-55
	6 1/4"	2652 -	2980	5 1/2"	15.5#	K-55
Tubing Program:	·	0 -	2980	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 @ 1430'. 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.

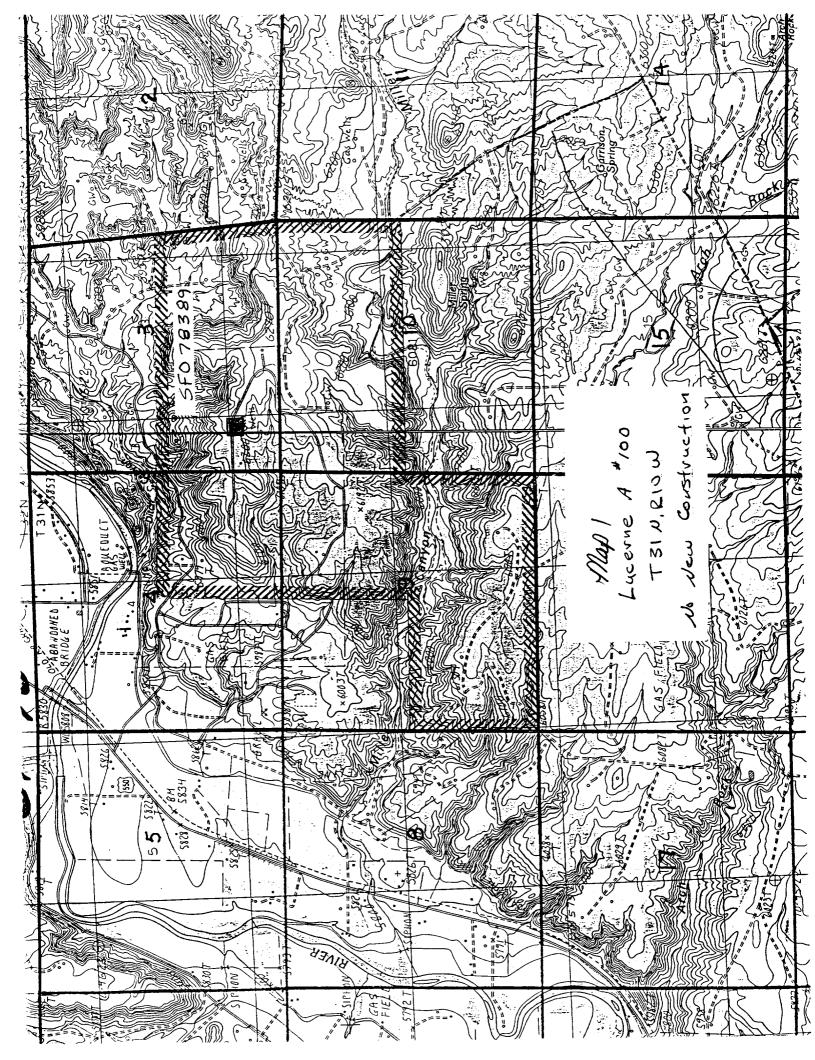
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

## 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 386 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. 863 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.



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