UNITED STATES BLM
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT BUREAU OF LAND MANAGEMENT -1 AMII: 27

		30-CH5-29003
	APPLICATION FOR PERMIT TO DRILL, DE	EPEN, OR PLUG BACKI 070 FANNING U.Y. NIM
a. b.	Type of Work DRILL Type of Well GAS OCT 21 1993	5. Lease Number SF-078511A 6. If Indian, All. or Tribe
	Operator  MERIDIAN OIL  OIL CON. DIV  DIST. 3	7. Unit Agreement Name
) <b>.</b>	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Quinn POW /3773 9. Well Number 1
<b>I.</b>	Location of Well 1450'FNL, 810'FWL Latitude 36° 54' 04", Longitude 107° 42' 1	10. Field, Pool, Wildcat  Basin Ft Coal 7/629  11. Sec., Twn, Rge, Mer.  5"
14.	Distance in Miles from Nearest Town 7 miles to Navajo Dam, NM	12. County 13. State San Juan NM
5.	Distance from Proposed Location to Nearest Property or L	ease Line
6.	Acres in Lease  This action is subject to technical and	17. Acres Assigned to Well n/a
8.	Distance from Proposed Location to Nearest Well, Drig, Co	ompl, or Applied for on this Lease
9.	Proposed Depth DRHLING OFERATIONS AUTHORIZED ARB 3317' SUBJECT TO COMPLIANCE WITH ATTACHED	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6426'GR	22. Approx. Date Work will Start 4th quarter 1993
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by:  Regional Drilling Engineer	observation well only.  9/27/93  Date
PERM	MIT NO APPROV	/AL DATE
APPR	ROVED BY TITLE	DATE
		APPROVED AS AMENDED
Threa	secological Report submitted 08-27-93 stened and Endangered Species Report submitted 08-14-93 E: This format is issued in lieu of U.S. BLM Form 3160-3	OCT 1 y 1993
		DISTRICT MANAGED

Scheme to Appropriate District Office State Lance - 4 comes Fee Lance - 3 copies State of New Mexico
Energy, Minerais and Natural Resources Department

RECE**NTED 1-1-99**BLM

DISTRICT | P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Sanza Fe, New Mexico 87504-2088

93 OCT -1 AMII: 27

DISTRICT II P.O. Drawer DD, Artenn, NM \$1210

070 FARMINGTON, NM

DISTRICT III 1000 Rio Besses RA., Assec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

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	Oil Inc.		Quinn PO		1
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# OPERATIONS PLAN

Well Name: Quinn POW #1

Location: 1450'FNL, 810'FWL, Section 17, T-31-N, R-8-W

San Juan County, New Mexico Latitude 36° 54' 04", Longitude 107° 42' 15"

Formation: Basin Fruitland Coal

Elevation: 6426'GL

Formation:	Тор	Bottom	Contents
Surface	San Jose	2057'	
Ojo Alamo	2057'	2125'	aquifer
Kirtland	2125'	2985'	
Fruitland	2985'		qas
Fruitland Coal	3062'	3316'	3
Total Depth	3317'		

Logging Program: Mud logs from 3027' to Total Depth.

# Mud Program:

<u>Interval</u>	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200-3317'	Non-dispersed	8.4-9.5	30-60	no control

# Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4" 7 7/8"	0 - 200' 0 - 3317'	8 5/8" 4 1/2"	24.0# 10.5#	
Tubing Program:	0 - 65***	2 3/8"	4.7#	J-55

<sup>\*\*-</sup>two jts in order to accommodate profile nipple and change out donut

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

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 2125'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 2125'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

# Cementing:

8 5/8" surface casing - cement with 235 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (298 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - Lead w/680 sx of 65/35 Class "B" Poz w/68 gel, 2% calcium chloride, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (1323 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

### BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

# Additional information:

- \* This well will be used as a pressure observation well only.
- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is 900 psi.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

