Form 3160-3 (November 1983) (formerly 9-331C)

## SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

#### UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT 30-045-28849 SF-078389A APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTER OR TRIBE NAME la. TYPE OF WORK DRILL IX DEEPEN [ 7. UNIT AGREEMENT NAME PLUG BACK [ b. TYPE OF WELL San Juan 32-9 Unit OIL \_\_\_ WELL X SINGLE ZONE MULTIPLE OTHER 8. FARM OR LEASE NAME 2. NAME OF OPERATOR San Juan 32-9 Unit Meridian Oil Inc. 14538 9. WELL NO. 3. ADDRESS OF OPERATOR 220 PO Box 4239, Farmington, NM 87499 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Basin Fruitland Coal 71629 1040'FNL, 1840'FEL 11 SEC., T., R., M., OR BLE. AND SURVEY OR AREA At proposed prod. sone Sec.11, T-31-N, R-10-W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE MMPM 12. COUNTY OR PARISH | 13. STATE 12 miles NE/Aztec 10. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) San Juan NM 16. NO. OF ACRES IN LEASE NO. OF ACRES ASSIGNED TO THIS WELL 1040' 1116.36 18. DISTANCE FROM PROPOSED LOCATION®
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 319.10 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 30221 600' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) This setion is subject to technical and Rotary 22. APPROX. DATE WORK WILL START 6205 GL procedural review pursuant to 43 CFR 3166.3 23. PROPOSED CASING AND CEMENTING PROGRAM A HTW BOSSAUGHED OF TORRES SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT BETTING DEPTH COSHERM QUARTER OF CEMENT see operations plan



NOV2 3 1992

OIL CON. DIV DIST. 3

APD for this well location approved 11-19-90 and cancelled 4-28-90.

reventer program, if any.	al is to deepen or plug back, give data on present productive sone and prop ve pertinent data on subsurface locations and measured and true vertical de	pths. Give blowou
SIGNED TO Caldwell	THE Regional Drilling Engr	<b>1-2-</b> 92
(This space for Federal or State office use)		.a 50gM
PERMIT NO.	APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·
APPROVED BY	TITLE	2
ch & C.	NMOCD CAREA MANA	

Submit to Asystemate District Office State Lease - 4 comes Fee Lease - 3 copies

# State of New Mexico Energy, Minerais and Natural Resources Department

Form C-102... Review 1-1-20

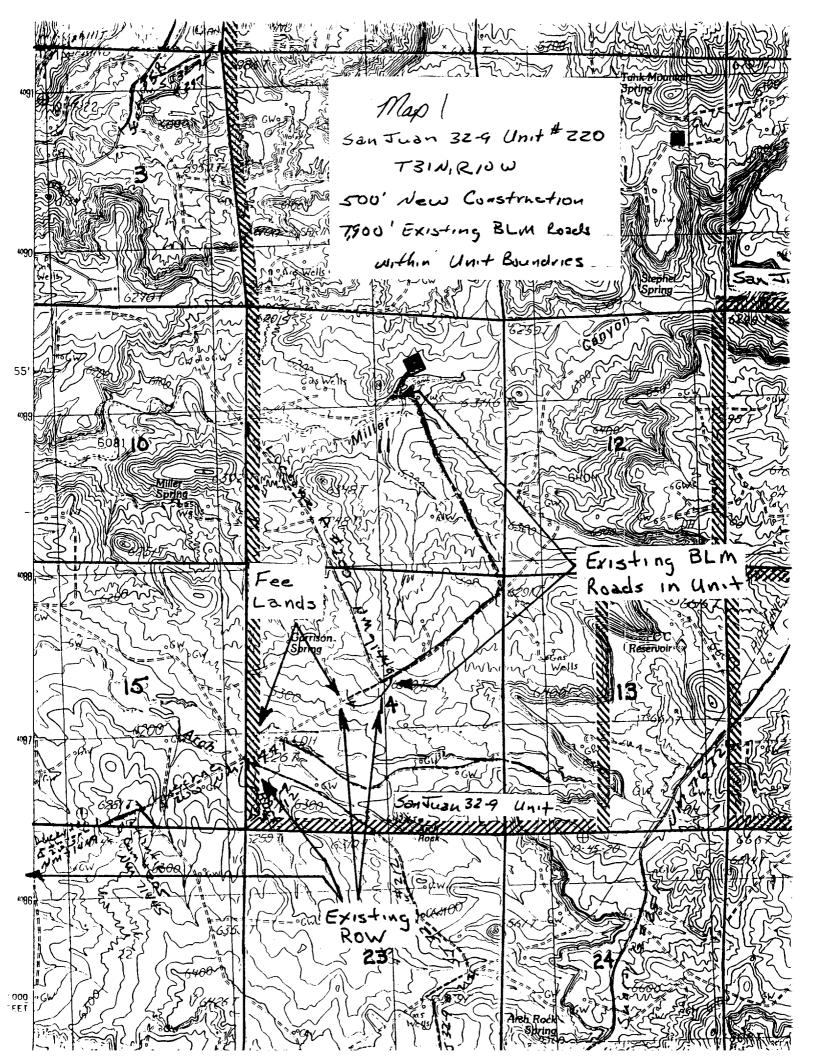
edwards

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

DISTRICT II
P.O. Drawer DD, Artenia, NIM 88210

DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Azzec, NM 87410 All Distances must be from the outer boundaries of the section Well No. Meridian Oil Inc. San Juan 32-9 Unit Une Letter 220 County 11 31 North 10 West Actual Footage Location of Well: San Juan MPM 1040 feet from the North lies and 1840 Ground level Elev. feet from the East ime 6205' Fruitland Coal Basin Fruttland Coan age dedicated to the subject well by colored peacet or hackers marks on the plat below. 2. If more than one tense is dedicated to the well, cuttime each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one least of different ownership is dedicated to the well, have the interest of all owners been connulcidated by communication, unitization If answer is "yes" type of connutidation er is "no" list the owners and stact descriptions which have actually been consciidened. (Use severas ade of nd to the well until all interests have been consolidated (by communication, unstrance, forced-pooling, or otherwise) or until a son-exacted unit, eliminating such interest, has been approved by the Division. 5265.481 OPERATOR CERTIFICATION hereby certify that the infa 040 4 3 ż 1840 0 7 8 1 JISI. 3 SURVEYOR CERTIFICATION I hereby certify that the well loc SF-078389-A on this plat was platted from field not actual surveys made by mans 12 11 10 Riperrison, and that the sames in a 9 correct to the best of my know -13 - 90\* HENCO 14 13 15 16 6857

5250.96



Page 1

#### OPERATIONS PLAN

DATE:

Well Name: 220 SAN JUAN 32-9 UNIT 1040'FNL 1840'FEL

Sec. 11 T31N R10W SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL Elevation 6205'GL

Formation tops: Surface- Nacimiento

Ojo Alamo- 1385 Kirtland- 1512 Fruitland- 2613

Fruitland Coal Top- 2820 Intermediate TD-2813 Fruitland Coal Base- 3020 Total Depth-3022

Pictured Cliffs- 3025

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Interval Type Weight Visc. Fl. Loss 0 - 200Spud 8.4 - 8.940-50 no control 200 - 2813 Non-dispersed 8.4 - 9.1 30-60 no control 2813 - 3022 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-408 3/4" 0 - 28137" 20.0# K-55 6 1/4" 2763 - 3022 5 1/2" 15.5# K-55 Tubing Program: 0 - 30222 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 @ 1512' . 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 404 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. 898 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.

#### BOP and Tests:

Surface to intermediate TD - 11" 2000 psi(minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 1000 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 2000 psi(minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

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

Pipe rams will be actuated at 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:

- \* The Fruitland coal formation will be completed.
- \* Anticipated Fruitland pore pressure is 371 psi.
- \* This gas is dedicated.
- \* The E/2 of Section 11 is dedicated to this well.
- \* New casing will be utilized.
- \* Cementing Contractor will provide the BLM with a chronological log including the pump rate and pressure, and the slurry density and volume for all cement jobs.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.