

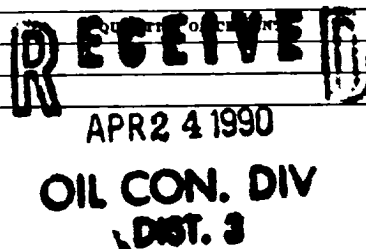
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-12235
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Merrion Oil & Gas Corporation			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 840, Farmington, New Mexico 87499			8. FARM OR LEASE NAME Southland
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 790' FNL & 790' FEL At proposed prod. zone			9. WELL NO. 4
10. FIELD AND POOL, OR WILDCAT WAW Fruitland Pic. Cliffs			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 9, T26N, R13W
12. COUNTY OR PARISH San Juan			13. STATE New Mexico
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)	790'	16. NO. OF ACRES IN LEASE 1120	17. NO. OF ACRES ASSIGNED TO THIS WELL 160
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	2640'	19. PROPOSED DEPTH 1465'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, ET, GR, etc.) 6253' GL			22. APPROX. DATE WORK WILL START* April 12, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH



We would like to plug back the subject well and test the main Fruitland Coal.

Attached is a procedure for your approval.

*Please submit an Acreage Dedication Plat
for 320 acres
HMOED approval is required to commingle
the WAW Fruitland Sand with the Basin Fruitland Coal.
Order No. R8768, Rule 12, and Order No. R8769*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED AA Shaffer TITLE Reservoir Eng. DATE 4-9-90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE **APPROVED**

APPROVED BY _____ TITLE Ken Townsend DATE APR 17 1990

CONDITIONS OF APPROVAL, IF ANY:

CC: Well File
J. Greg Merriam
R.L. Bayless

Hold C. 1000 For Plat

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JUL 1960
VIA AIR MAIL
E. J. TONG

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SOUTHLAND NO. 4

Recompletion Procedure

LOCATION: 790' FNL & 790' FEL
Section 9, T26N, R13W
San Juan County, New Mexico

ELEVATION: 6253' GL

PREPARED BY: George Sharpe

DATE: 4-5-90

-
- 1) MIRU. ND Wellhead. NU BOPs. POOH and lay down 1-1/4" tubing.
 - 2) Rig up wireline. RIH and set CIBP at \pm 1354'. POOH. RIH with 2-1/8" guns and perf 1324'-1338' with 2 SPF at 90° (GR-Density Neutron 9-5-79). POOH. Rig down wireline.
 - 3) Frac well (Procedure to be supplied at later date). Flow to frac tank for test. Jet if necessary to recover load.
 - 4) If well does not flow, RIH with 1-1/6" tubing pump and 1340' of 1-1/2", 2.76#, IJ tbg. ND BOPs. NU tree. RIH with 1-1/16" plunger and 5/8" rods with slim hole couplings. Space out rods. RDMOL. (Pump unit to be specified at later date.)

GFS/eg

APPROVED: 

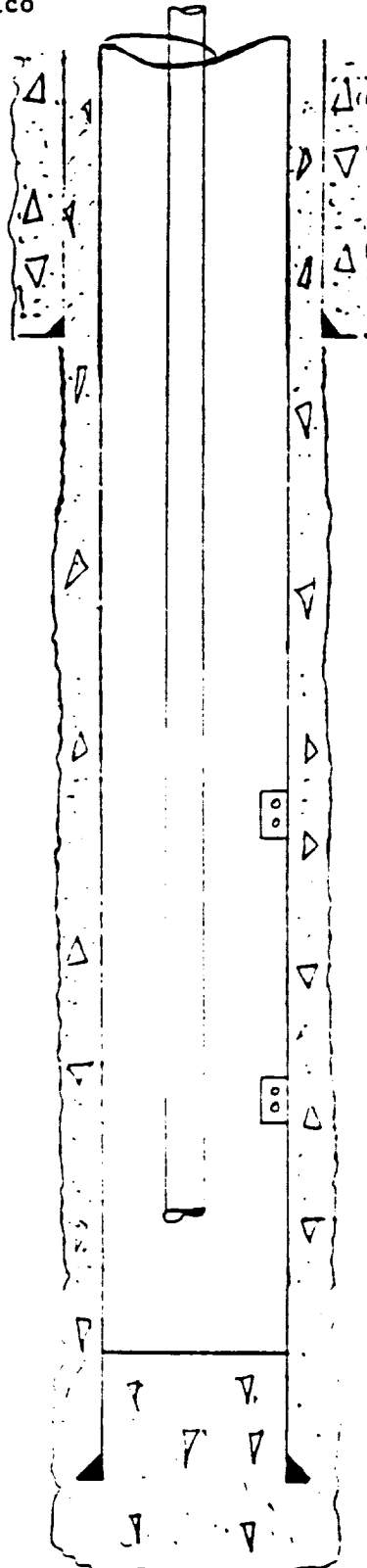
DATE: APR 6, 1990

SOUTHLAND NO. 4
Wellbore Schematic

GFS 4-5-90

Location: 790' FNL & 790' FEL
Section 9, T26N, R13W
San Juan, New Mexico

Elevation: 6253' GL



9-3/4" Hole

7", 23# csg @ 97'
Cmt w/35 sx Class "H" w/3%
CaCl₂ to surface.

1-1/4", 2.4# Siphon String @ 1380'

Perf 1320'-24' with 2-1/8" guns
at 2 SPF. Frac w/2500# sand.

Perf 1360'-70' with 2-1/8" guns
at 2 SPF N₂. Frac w/15000# sand.

5" hole

2-7/8", 6.5# csg at 1449'
Cmt w/100 sx Class "H" w/2% D-79
& 50 sx neat H. Circ to surface.

PBTD: 1420'

TD: 1465'

2-7/8" Capacity: .00592 Bbl/ft
.0332 ft³/ft