

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. SF 078897A
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, NM 87499		8. FARM OR LEASE NAME Western
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 1980' FEL At proposed prod. zone		9. WELL NO. 5
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Basin Fruitland
16. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	16. NO. OF ACRES IN LEASE 160 80	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.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6109' KB		22. APPROX. DATE WORK WILL START*
23. PROPOSED CASING AND CEMENTING PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT
SETTING DEPTH	QUANTITY OF CEMENT	

Attached for your approval is a procedure to plug back the proposed well into the Fruitland Coal. We are submitting an application for an unorthodoxed location and a special 160 acre proration unit to the State of New Mexico.

RECEIVED
SEP 04 1990
OIL CON. DIV
DIST. 3

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 George E. Sharpe TITLE Engineer
(This space for Federal or State office use)

APPROVED
AS AMENDED
DATE 8/21/90

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Hold 1604 for NSP + NSL (E)

*See Instructions On Reverse Side

copies: 6 BLM, Fmg
1 Well File

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

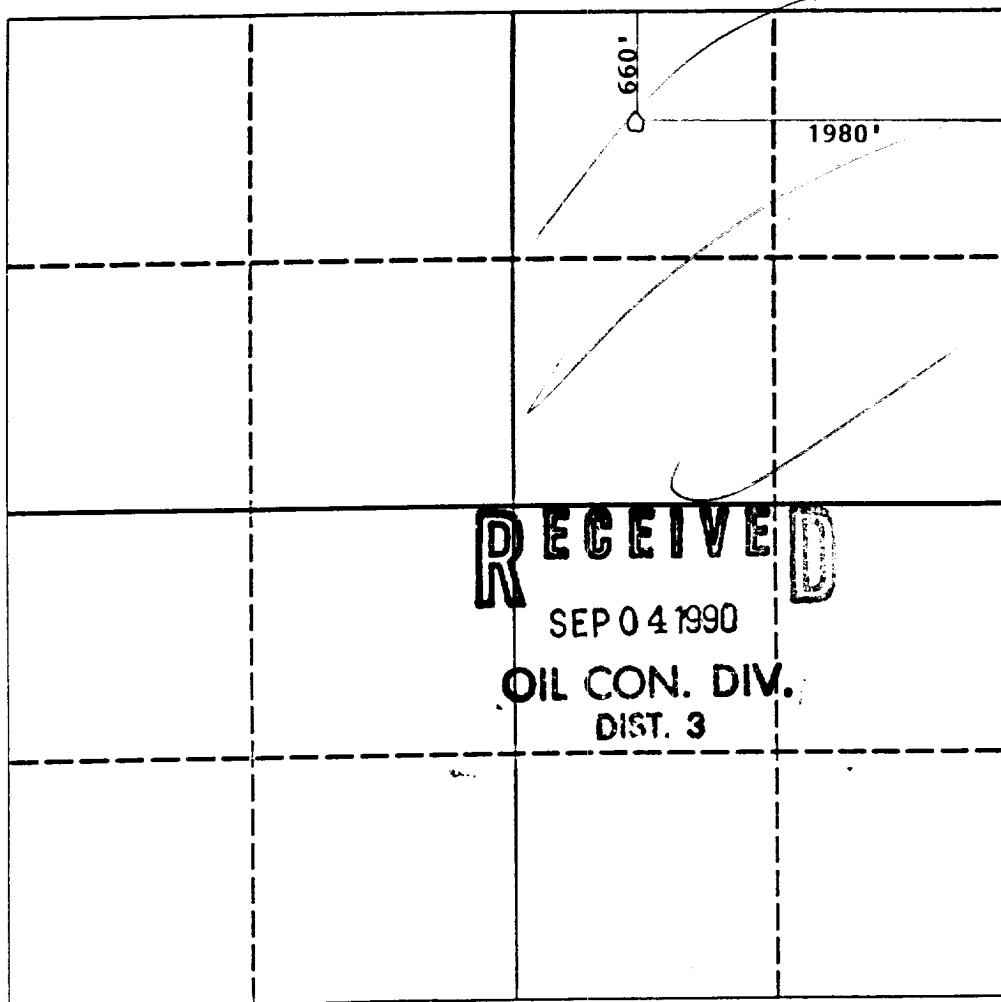
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Merrion Oil & Gas Corporation			Lease Western		Well No. 5
Unit Letter B	Section 7	Township 26N	Range 11W	County San Juan	
Actual Footage Location of Well: 660' feet from the North line and 1980' feet from the East line					
Ground level Elev. 6098'		Producing Formation Fruitland Coal		Pool Basin Fruitland	
				Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☒ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature *George F. Sharpe*
Printed Name **George F. Sharpe**
Position **Engineer**
Company **Merrion Oil & Gas Corp.**
Date **August 21, 1990**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____
Signature & Seal of Professional Surveyor _____
Certificate No. _____

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

MERRION OIL & GAS CORPORATION

WESTERN NO. 5

FRUITLAND COAL RECOMPLETION PROCEDURE

LOCATION: 660' FNL & 1980' FEL ELEVATION: 6109' KB
SECTION 7, T26N, R11W 6098' GL
SAN JUAN COUNTY, NEW MEXICO

PREPARED BY: George F. Sharpe DATE: August 17, 1990

- 1) MIRU Pulling Unit. POOH with 1 jt of 2-3/8" tubing.
- 2) RIH with 2-7/8" workstring to 4820'. Roll hole with 9.0 ppg mud. Spot cement plug across Mesaverde top 2387'-2172' with 25 sx Class "G". *Spot cement plug across Pictured Cliffs 1600'-1500' with 11 sx. Pull to 1480' and reverse. POOH. WOC.*
Spot cement plug from 1650' to 1950' (Top of Chaco 1400')
- 3) Pressure test casing to 500 psi. RU Wireline. Run GR-CBL Correlation Log from 1700' to 700'. Perforate following coal intervals with 2 SPF per 2-8-58 Induction Electric Log: 1154'-63', 1204'-08', 1312'-15', 1396'-1410', 1448'-1460' (42 feet total, 84 holes).
- 4) RIH with 5-1/2" packer on 2-7/8" workstring. Set packer at 1100'. RU Pump Company. Breakdown perfs with 1000 gal 7-1/2% HCl with 5 gal/1000 iron sequestering agent, 1/2 gal/1000 clay stabilizer, and 80 RCN balls. Surge off balls. Frac well with procedure specified at later date. Flow back well to test.
- 5) Release packer and POOH. RIH open-ended and cleanout fill. POOH and lay down workstring. RIH with mud anchor, perfed pup, and seating nipple on production string. Land at ± 1470'. Swab well in. RD MOL. (If necessary run 1-1/4" pump on 5/8" rods. Pump unit specified at later date.)

GFS/eg
A:G-WES5PR

APPROVED: _____

DATE: _____

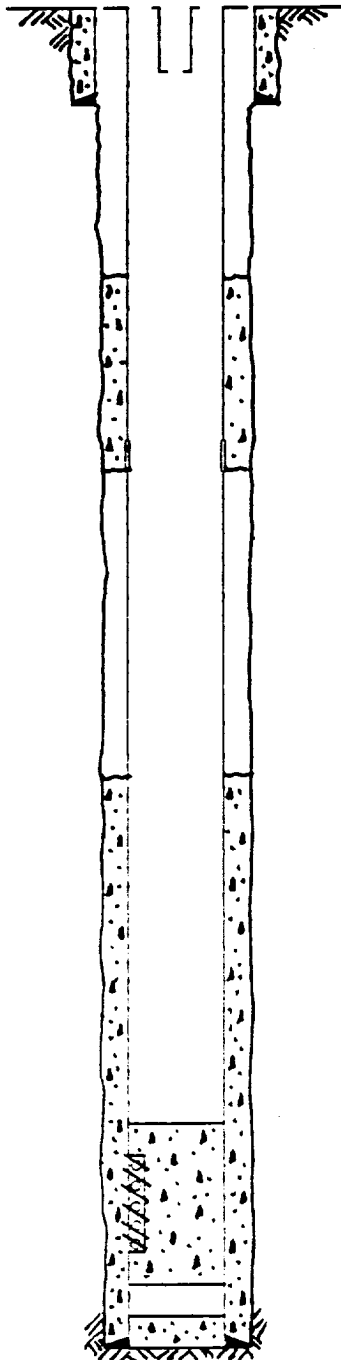
* MERRION OIL & GAS *

WELLBORE SCHEMATIC

Well: Western No 5
Field: Gallegos Gallup

Location: 660'FNL & 1980'FEL
Sec. 7. T26N. R11W
San Juan Co. New Mexico

Elevation: 6,109' KB
6,098' GL



TOC @ Surface

Bit Size - 13 3/4"

10 3/4" 32.75# Surface @ 173' KB w/ 200sx

Hole size - 7 7/8"

TOC @ 1,000'KB (calculated)

5 1/2" 14lb/ft @ 2,320'KB w/ 150 sx

Tops	Depth
Pic Cliffs	1.454
Lewis	1.730
Mesa Verde	2.337
Mancos	4.196
Gallup	5.042

TOC @ 3.950' (Temp Survey)

Well Equip:
2" EUE Tbg @ 31' - 1 Jt

Spot 65sx 'B' - 5.350' - 4.320'KB (March 1988)

Gallup Perfs - 5.062'-5.310'KB Gross Interval

PBTD @ 5.370'KB

5 1/2" 15.5# Prod Csg @ 5.373'KB w/300 sx

TD @ 5.373' KB

9-16-1988
File: WSTN5.sch

Capacities: 2" Tbg - 0.00387 Bbl/Ft
5 1/2" 15.5#Csg- 0.0238 Bbl/Ft
Annulus - 0.0133 Bbl/Ft

millivolts

SHS

millimhos/m = $\frac{1000}{\text{ohms. m}^2/\text{m}}$

$-\frac{20}{mV} +$

2" = 100'

INDUCTION

400

200

0

600

400

CSG.
177'

RESISTIVITY
-ohms. m²/m

16" NORMAL

0

100

0

1000

INDUCTION

0

100

0

1000

