

Distribution: O+4 (BLM); 1-Accounting; 1-Crystal; 1-File

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals.

87 JUL 15 AM 11:23

070-5415 FARMINGTON, NM

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Gas  
☒ Well ☐ Well ☐ Other

2. Name of Operator

Merrion Oil & Gas Corporation

3. Address and Telephone No.

610 Reilly Avenue, Farmington, NM 87401-2634 (505) 327-9801

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1850'  
1980' fml & 1850' fel  
G Section 28, T26N, R12W

5. Lease Designation and Serial No.

NOO-14-24-8376

6. If Indian, Allottee or Tribe Name

USK YE NI TAH BLACKIE

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Dietrich 28G #1

9. API Well No.

30-045-23747

10. Field and Pool, or Exploratory Area

WAW Fruitland/PC

11. County or Parish, State

San Juan County,  
New Mexico

12. CHECK APPROPRIATE BOX (s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☒ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Merrion Oil & Gas proposes to plug back the subject PC producer and recomplete the well in the Fruitland Coal. The procedure and wellbore diagram are attached. Under separate cover, Merrion will apply for downhole commingling of the PC and Fruitland Coal.

We request that the lease be maintained and the requirement for monthly production be suspended for the time period in which the work is being performed, while the Fruitland Coal is being tested, and prior to the approval for downhole commingling.

RECEIVED  
AUG 18 1997

OIL CON. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed Connie S. Dinning

Title

Contract Engineer

Date 7/9/97

(This space for Federal or State office use)

Approved By /S/ Duane W. Spencer

Title

Date AUG 14 1997

Conditions of approval, if any:

# Merrion Oil & Gas Corporation

## Fracture Stimulation

July 9, 1997

<b>Well:</b>	Dietrich G 28 No. 1	<b>Field:</b>	WAW Fruitland/PC
<b>Location:</b>	1850' fnl & 1850' fel (sw ne) Sec. 28, T26N, R12W, NMPM San Juan County, New Mexico	<b>Elevation:</b>	6,064' GL
		<b>By:</b>	Connie Dinning

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### Procedure:

#### Prepare Wellbore for Frac Job

1. Haul in 1 1/4" EUE workstring.
2. MIRU Petrowireline with mast truck, run GR/CCL from PBTD to 900'.
3. Perforate Fruitland Coal from 1,075' to 1,090', 4 spf, 90° phasing, total 60 holes.
4. RD Petrowireline and flow back well to atmosphere overnight.
5. MIRU JC Well Service.
6. PU 2 7/8" RBP and RIH on 1 1/4" EUE workstring. Set RBP @ 1093'. POH w/ workstring.

#### Frac P6 *FRC*

1. Install 5000# frac valve on 2 7/8" casing.
2. MIRU BJ and pressure test surface lines.
3. Fracture well in accordance with attached BJ procedure. **Maximum treating pressure is 5000 psi.**
4. Close frac valve, RD BJ, install ball valve and 1/4" ceramic choke.
5. Flow well back to atmosphere immediately. (Flow slowly on choke)

#### Clean Up (If necessary)

1. MIRU JC Well Service
2. RIH w/ 1 1/4" EUE tubing & CO frac sand w/ N<sub>2</sub>.
3. Put well on to production.

#### Install Compressor

Install rental compressor. Rig up to purchase gas from EPFS and recirculate down casing if needed to lift fluid.

# Merrion Oil & Gas Corporation

## Wellbore Schematic

### Dietrich 28G No. 1

Current Wellbore Configuration

Location: 1850' fml & 1850' fel (sw ne)  
Sec 28, T26N, R12W, NMPM  
San Juan County, New Mexico

Date: May 12, 1997

Elevation: 6064' GL

Prepared by: Connie S. Dinning

Tertiary  
Cretaceous

Ojo Alamo

Farmington

Kirtland - ?

Fruitland - ?

Pictured Cliffs - 1099'

Top of Cmt @ Surface

Surface Bit Size - 7-7/8"

7", 20# Surface Csg @ 108' KB w/ 70 sx Class B Cement

Top of Cmt @ Surface

Bit Size 4-3/4"

Perfs ... 1100-1110' KB. w/ 2jspf (11/21/1979)  
no stimulation

PBTD @ 1152'KB

TD @ 1200'KB

2-7/8" 6.5# J55 Production Csg @ 1181' w/ 175 sx Class B w/ 2% CaCl2

**BJ SERVICES COMPANY**

OPERATOR: MERRION OIL AND GAS  
WELL: DIETRICH G 28 #1  
FORMATION: FRUITLAND COAL

**WELL DATA**

Depth to Middle Perforation	1,103 ft
Casing	2 7/8", 6.5#
Fracture Gradient	1.00 psi/ft
Bottom Hole Frac Pressure	1,103 psi
Bottom Hole Temperature	90 deg F
Perforated Interval	1096'-1110'
	(Approx. 60 perfs)

**BJ SERVICES COMPANY****Treatment Requirements for: 70 Q N2 FOAM**

**ACID BREAKDOWN:** 500 GALLONS 15% HCL

Containing per 1000 Gallons:

2.00 Gallons CI-22, CORROSION INHIBITOR  
5.00 Gallons FERROTROL-300L, IRON CONTROL

DROP 90 7/8" 1.3 SP GR BALL SEALERS FOR DIVERSION SPACED EVENLY  
THROUGHOUT THE ACID.

**FRAC FRAC:** 31,950 GALLONS 70Q FOAM

Pumped Volumes:

9,585 Gallons 20# LINEAR GEL

Mixed Volumes:

11,000 Gallons 20# LINEAR GEL

Containing per 1000 Gallons:

0.38 Pounds XCIDE-207, BACTERIACIDE  
20.00 Pounds GW-27, GELLING AGENT  
1.00 Pounds GBW-10, GEL BREAKER  
5.00 Gallons FAW-1, FOAMING AGENT

TOTAL FLUID VOLUME INCLUDES FRAC FLUID, FLUSH AND 1500 GALLONS  
FOR TANK BOTTOMS. MERRION WILL SUPPLY 2% KCL WATER.

**PROPPANTS:** 10,000 Pounds SUPER LC 20/40 MESH  
40,100 Pounds 20/40 MESH BRADY

**BJ SERVICES COMPANY**  
**NITROGEN FOAM PUMPING SCHEDULE**

OPERATOR	MERRION OIL AND GAS
WELL	DIETRICH G 28 #1
LOCATION	SEC. 28; T26N; R12W
COUNTY, STATE	SAN JUAN, NM
FORMATION	FRUITLAND COAL
PREPARED BY	LARRY LEWIS
DATE	JULY 9, 1997

**WELL AND RESERVOIR PARAMETERS**

Depth (mid perforation)	1103 ft
Bottom Hole Frac Pressure	1103 psi
Bottom Hole Static Temperature	90 deg F

**TREATMENT PARAMETERS**

Treating Conductor I.D.	2.441 in
Fluid Specific Gravity	1.010
Gel Temperature in Tanks	70 deg F
Temperature of N2 at surface	100 deg F
Foam Injection Rate	30.0 bpm
Total Slurry Treatment Volume	34239 gal

Foam Quality and Injection Rate are held constant downhole.

**CALCULATED TEMPERATURES**

	Low	High
Foam at Surface	71 deg F	71 deg F
Foam at Perfs	91 deg F	91 deg F

Average Formation Pumping Temperature 90 deg F

**BJ SERVICES COMPANY****NITROGEN FOAM PUMPING SCHEDULE****PROCEDURE**

STAGE	DOWNHOLE FOAM VOLUME (GALS)	DOWNHOLE FOAM QUALITY	DOWNHOLE FOAM RATE (BPM)	PROPPANT				CLEAN GEL VOLUME (BBLS)	N2 VOLUME (MSCF)
				CONC. LB/GAL	MESH	TYPE	(LBS)		
1	10000	70.0	30.0	0.00			0	71.4	65.77
2	5000	70.0	30.0	1.00	20/40	SAND	5000	35.7	32.89
3	7500	70.0	30.0	2.00	20/40	SAND	15000	53.6	49.33
4	6700	70.0	30.0	3.00	20/40	SAND	20100	47.9	44.07
5	2500	70.0	30.0	4.00	20/40	RC SAND	10000	17.9	16.44
FLUSH	250	70.0	30.0	0.00	FLUSH		0	1.8	1.64
	31950						50100	228.2	210.14

**TREATMENT SCHEDULE**

STAGE	PROPPANT CONC. (LB/GAL)		CLEAN GEL RATE (BPM)	BLEND SLURRY RATE (BPM)	SLURRY VOLUME (WITHOUT N2)			N2 RATE SCFM	PROP RATE LB/MIN	STAGE PUMP TIME HH:MM:SS
	PERF.	BLNDR			(BBLS)	(CUM.)	ON PERFS			
1	0.00	00.0	9.00	9.00	71.4	71	2	8287	0	00:07:56
2	1.00	3.33	8.61	9.91	41.1	113	73	7928	1205	00:04:08
3	2.00	6.67	8.25	10.75	69.8	182	115	7598	2310	00:06:29
4	3.00	10.00	7.92	11.51	69.6	252	185	7295	3327	00:06:02
5	4.00	13.33	7.58	12.32	29.1	281	254	6976	4242	00:02:21
FLUSH	0.00	00.0	9.00	9.00	1.8	283	283	8287	0	00:00:11
TOTAL PUMP TIME:										00:27:10

# BJ SERVICES COMPANY

## FOAM PRESSURE/VOLUME ANALYSIS

OPERATOR	MERRION OIL AND GAS
WELL	DIETRICH G 28 #1
LOCATION	SEC. 28; T26N; R12W
COUNTY, STATE	SAN JUAN, NM
FORMATION	FRUITLAND COAL
PREPARED BY	LARRY LEWIS
DATE	JULY 9, 1997

### INPUT PARAMETERS

Treatment via	2 7/8" CASING lb pipe
Number of Perforations	60
Perforation Diameter	0.360 in
Total Treatment Volume	31700 gals
Flush Volume	268 gals
Bottom Hole Frac Pressure	1103 psi
Foam Injection Rate	30.0 bpm
Foam Quality	70.0 percent
Temperature of N2 at Surface	100 deg F
Design Formation Temperature	90 deg F
Specific Gravity of Base Fluid	1.01
Well Depth	1103 ft
I.D. of Treating Conductor	2.441 in
Friction Pressure	1000 psi/1000 ft

### PREDICTED PRESSURES

Fluid Rate	9.0 bpm
Perforation Pressure Drop	13.1 psi
Foam Friction Pressure	1103 psi
Surface Treating Pressure	2013 psi
ISDP with Nitrogen	1064 psi
ISDP with Foam	968 psi
Nitrogen Rate	8366 scfm

### VOLUME REQUIREMENTS

	USING NITROGEN AS FLUSH		USING FOAM AS FLUSH	
	NITROGEN SCF	FLUID GALS	NITROGEN SCF	FLUID GALS
TREATMENT FLUSH	210483 2457	9510 0	210483 1677	9510 80
TOTALS	212940	9510	212160	9590