Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO.
**30-045-29573**

5. Indicate Type of Lease **FEDERAL**
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name:
**Panther**

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator
**Merrion Oil & Gas**

8. Well No. **1**

3. Address of Operator
**610 Reilly Ave, Farmington, NM 87401**

9. Pool name or Wildcat
**Basin Fruitland Coal**

4. Well Location

Unit Letter **M** : **990** feet from the **South** line and **1255** feet from the **West** line.

Section **25** Township **30N** Range **13W** **San Juan** County

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
**5660' GR**

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPNS. | ☐ | PLUG AND ABANDONMENT | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPLETION | ☐ | CASING TEST AND CEMENT JOB | ☐ | | |
| OTHER: **To Commingle** | | | ☒ | OTHER: | | | ☐ |

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

**Merrion Oil & Gas proposes to complete the Basin Fruitland Coal and to commingle the Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs according to the attached procedure.**

**See attached supporting data.**

DHC 1278

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

SIGNATURE _____ TITLE Production Engineer DATE 7/21/03

Type or print name Connie S. Dinning Telephone No. 327-9801

(This space for State use)

APPPROVED BY _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. ☒ DATE JUL 25 2003

Conditions of approval, if any:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| [1] API Number | [2] Pool Code | [3] Pool Name |
|---|---|---|
| 30-045-29573 | 71629 | Basin Fruitland Coal |

| [4] Property Code | [5] Property Name | [6] Well Number |
|---|---|---|
| 23182 | Panther | 1 |

| [7] OGRID No. | [8] Operator Name | [9] Elevation |
|---|---|---|
| 014634 | Merrion Oil & Gas | 5660' GR |

## [10] Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 25 | 30N | 13 W | SWSW | 990 | South | 1255 | West | San Juan |

## [11] Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| [12] Dedicated Acres | [13] Joint or Infill | [14] Consolidation Code | [15] Order No. |
|---|---|---|---|
| 320 | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

Lease No. SF-078213

1255' FWL

990' FSL

## [17] OPERATOR CERTIFICATION

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

Signature

**Connie S. Dinning**
Printed Name

**Production Engineer**
Title

**July 22, 2003**
Date

## [18] 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 belief.*

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

**SUPPORTING DATA FOR C-103**
**PANTHER NO. 2 COMMINGLE**
**BASIN FRUITLAND COAL (71629) AND**
**FULCHER KUTZ PICTURED CLIFFS (77200)**

This supplemental information is attached to the C-103 to commingle the subject well in the Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs pools.

1. The Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs have been pre-approved for commingling by order no. R-11363.

2. This well is currently perforated in the Pictured Cliffs from 1676 to 1696'. We plan to add the Fruitland Coal intervals according to the attached procedure from 1440 to 1459', from 1483 to 1496', from 1502 to 1512', and from 1636 to 1659'.

3. The Pictured Cliffs is making approximately 450 MCFD as shown on the attached production plot. Pictured Cliffs production just before the commingling will be subtracted from the commingled production rate to determine the contribution from the Fruitland Coal Zone. A constant percentage shall be used to allocate the production between the zones. (The percentages, however, are estimated to be the same as those of the Panther No. 2 — Gas: 63% PC, 37% FC and Water: 53% PC, 47% FC).

4. Ownership of the Fruitland Coal and Pictured Cliffs are identical.

5. A copy of this application will be sent to the Farmington BLM office.

# Merrion Oil & Gas Corporation

## ***Completion Procedure***
## ***Fruitland Coal Formation***

July 17, 2003

| | | | |
|---|---|---|---|
| **Well:** | **Panther No. 1** | **Field:** | Basin Fruitland |
| **Location:** | 990' fsl, 1255' fwl (SWSW)<br>Sec. 25, T30N, R13W<br>San Juan County, New Mexico | **Elevation:**<br><br>**Lease**: | 5660' GL<br>5665' KB<br>SF—078213 |
| **By:** | Catlain Nee | | |

**Project:** *To perforate and frac the Fruitland Formation and to commingle with Pictured Cliffs.*

**Procedure:** *(Note: This procedure will be adjusted on site based upon actual conditions)*

## Phase I

### *Prior to Move-In*

1. Set 57 pumping unit.

### *Pull Tubing & Prepare to Frac*

1. Pull Stim Coil Injection System.
2. MIRU workover rig. ND WH, NU BOPs. Tag up on fill; pull 2 3/8" production tubing.
3. MIRU wireline truck. RIH w/ RBP and set at ± 1670' KB per correlation log. (Note: RBP setting is critical, reference GR/CBL dated 7/27/98).
4. Load hole w/ 2% KCl water and pressure test RBP to 3500 psi.

### *Perf, Frac, and Test Main Fruitland Coal*

1. Order in frac/test tanks w/ risers, working external gages & two good 4" valves on each. Fill w/ 2% KCl fresh water (refer to fracture stimulation design for required useable volume).
2. Install frac valve on top of 4-$^1/_2$" casing.
3. Perforate Fruitland Coal with 3-$^1/_8$" casing gun, shot density at 3 jspf per Panther No. 1 correlation log run 7/27/98 as follows:

   1636-1659 ft  23 ft  69 holes  0.34" diameter

4. RU Frac crew. Fracture stimulate the Fruitland Coal formation with 20# Cross linked gel system at 30 BPM with 125,000 lbs. of 20/40 mesh Brady sand with sand flowback control or resin coated sand (spearhead 250 gals. 7.5% HCl ahead of frac) as per detailed design schedule. **NOTE: Do not pump in and shut down. When pumping begins, stay on it until the job is complete. Do not exceed 3500 psi.**
5. Shut well in for gel break time. Open to tank.

### *Install Production Tubing; Main Fruitland and PC to Production*

1. RD frac valve. Reinstall tubing head, NU BOPs.
2. RIH w/ tubing, retrieving head and CO sand to RBP @ 1670' KB. (Use Merrion's bailer if circulation is lost or fill is in or near top of perforations).
3. Latch on to RBP & POH, clean out rat hole if necessary.
4. Pick up and tally 15' MA, SN, and $2^{3}/_{8}$" tubing in hole. Land tubing at ± 1710' KB below bottom of Pictured Cliffs perforations.
5. ND BOPs, NU wellhead. Run rods and pump.

## Phase II

### *Pull Tubing and Prepare to Complete*

1. MIRU workover rig. ND wellhead, NU BOPs. Tag up on fill; pull 2-3/8" production tubing.
2. MIRU wireline truck. RIH with RBP and set at ± 1600' KB per correlation log.

### *Perf and Stimulate Upper Fruitland*

1. Perforate Upper Fruitland over the following intervals with 3 jspf per Piedra Vista A-1 Electrical Induction Log:

| | | | |
|---|---|---|---|
| 1440-1459 ft | 19ft | 57 holes | 0.34" diameter |
| 1483-1496 ft | 13 ft | 39 holes | 0.34" diameter |
| 1502-1512 ft | 10 ft | 30 holes | 0.34" diameter |

2. TIH with tubing and packer. Spot 50 gallons of 15% HCl acid across Upper Fruitland perforations. Set packer between 1460 and 1490 ft.
3. Displace acid using 2% KCl water for lower perforations via the tubing, and for upper perforations via the annulus.
4. Release packer and swab back.

**Note: If there is not any production from the upper Fruitland perforations, a procedure will be written to fracture stimulate those perfs.**

### *Install Production Tubing; Return all FC and PC Zones to Production*

1. Reinstall tubing head. NU BOPs.
2. RIH with tubing, retrieving head and CO to RBP @ ± 1600' KB.
3. Latch on to RBP & POH; clean out rat hole if necessary.
4. PU 15' MA, SN, and 2 3/8" tubing in hole. Land tubing at ± 1710' KB — below bottom Pictured Cliffs perforations.
5. ND BOPs, NU wellhead. Run rods and pump.

# Merrion Oil & Gas Corporation

## *Wellbore Schematic*

### Panther No. 1

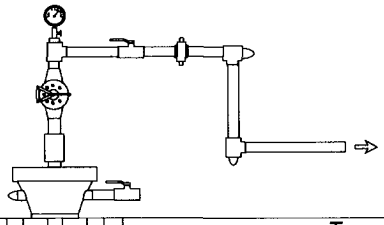
***Proposed Configuration***

Location: 990' fsl & 1255' fwl (sw sw)
Sec 25, T30N, R13W,NMPM
San Juan County, New Mexico

Date: July 17, 2003

Elevation: 5660' GL
5665' RKB

Prepared by: Catlain H. Nee



*Top of Cmt @ Surface*

Ojo Alamo - 94'

Surface Bit Size - 8-3/4"

Kirtland - 244'

7" 23# Surface @ 288' KB w/ 100 sx (118 cuft)

*Top of Cmt @ 400' (CBL)*

Cretaceous

Fruitland - 1256'

Bit Size 6-1/4"

**Proposed Perforations: 1440-1459ft & 1483-1496 ft & 1502-1512 ft.; 3 jspf; 123 holes; 0.34" diameter.**

Tubing: 2-3/8" EU 4.7ppf J55 set @ ~1657 ft

Main Coal - 1608'

**Proposed Perforations: 1636-1659'; 3 jspf; 69 holes; .34" diameter.**

Pictured Cliffs -1670'

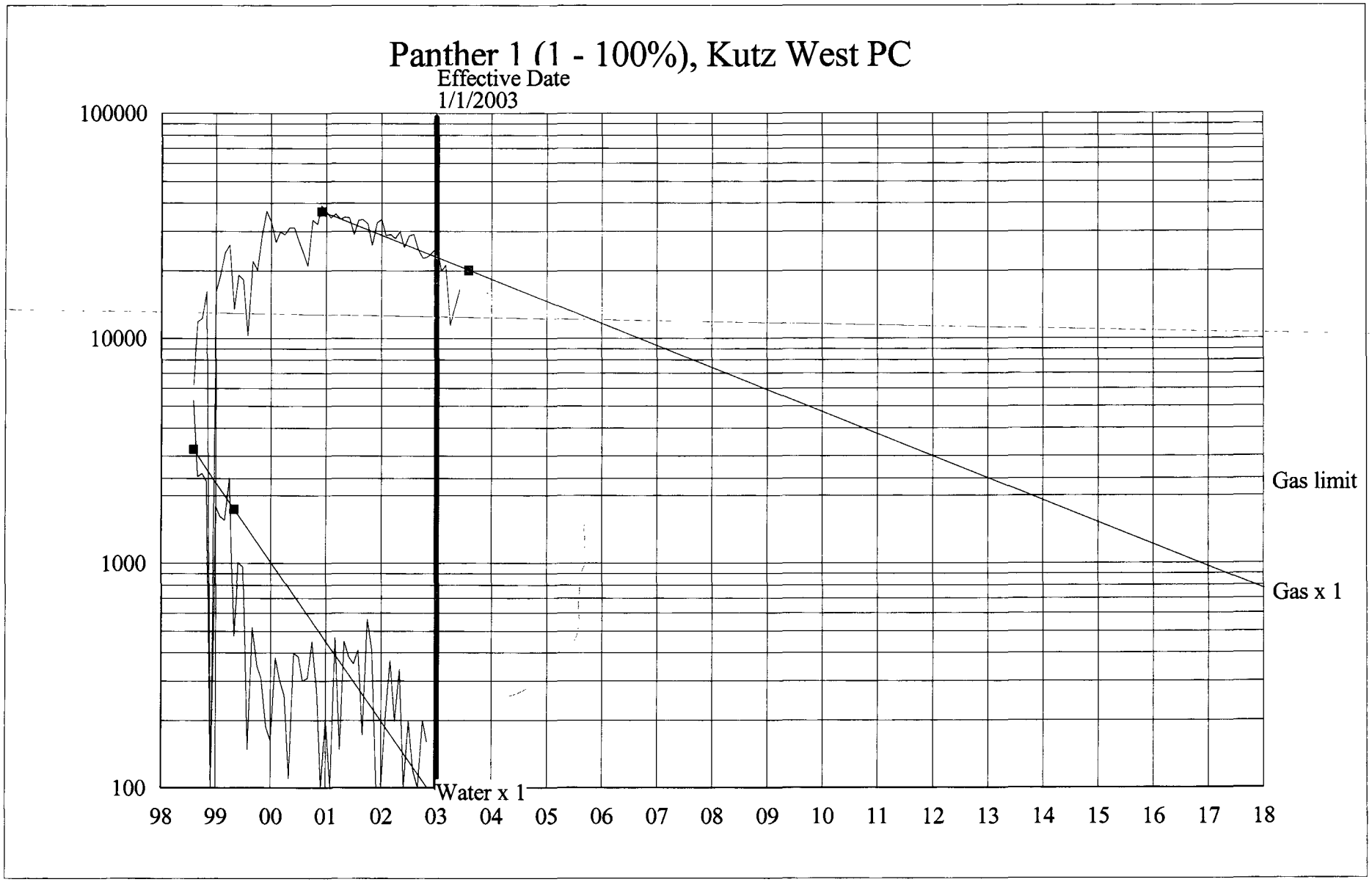
**Perforations: 1676 - 1696 ft; 2jspf, 40 holes, 0.34" Dia**

4-1/2" 10.5# J55 LTC Production Csg @ 1815' w/ 200 sx (303 cuft)
Insert Float @ ~1771'KB

**TD @ 1815' KB**

**PBTD @ 1771' KB**

1440-1459
1483
1496
1500
1502
1518
1600
1638-1659




PANTHER1
Panther 1 (1 - 100%)
JGM
Kutz West PC
OLD, NM

[0]
Kutz West PC
25 30N 13W

| | Oil (bbl) | Gas (mcf) | Water (bbl) |
|---|---|---|---|
| Cumulative: | 0 | 1,487,379 | 32,772 |
| Remaining: | 0 | 1,058,091 | 1,165 |
| Ultimate: | 0 | 2,545,470 | 33,937 |