



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**Jennifer A. Salisbury**  
Cabinet Secretary

March 12, 2001

**Lori Wrotenbery**

Director

**Oil Conservation Division**

**Merrion Oil & Gas Corporation**  
**610 Reilly Avenue**  
**Farmington, New Mexico 87401**  
**Attention: George Sharpe**

**Telefax No. (505) 326-5900**

*Administrative Order NSL-4560*

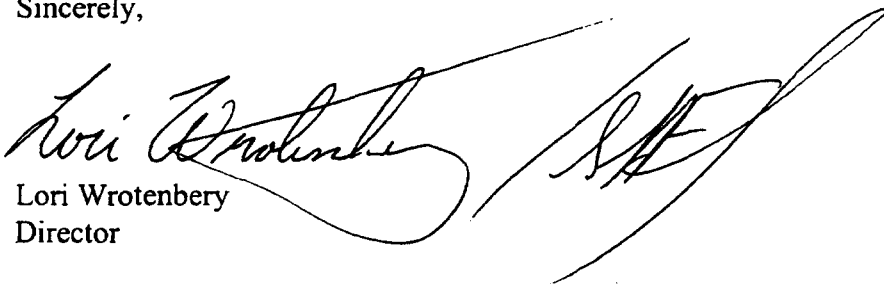
Dear Mr. Sharpe:

Reference is made to the following: (i) your application dated February 13, 2001; and (ii) the records of the New Mexico Oil Conservation Division ("Division") in Aztec and Santa Fe: all concerning Merrion Oil & Gas Corporation's ("Merrion") request to drill its proposed Bartens Park Com. Well No. 1 (API No. 30-045-30493) at an unorthodox Pictured Cliffs gas well location 2479 feet from the South line and 1247 feet from the East line (Unit I) of Section 36, Township 30 North, Range 13 West, NMPM, San Juan County, New Mexico. The SE/4 of Section 36 is to be dedicated to the well in order to form a standard 160-acre gas spacing and proration unit for the Fulcher Kutz-Pictured Cliffs Pool.

This application has been duly filed under the provisions of Division Rule 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999.

By the authority granted me under the provisions of Division Rule 104.F (2), the above-described unorthodox Fulcher Kutz-Pictured Cliffs gas well location is hereby approved.

Sincerely,



Lori Wrotenbery  
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec  
New Mexico State Land Office - Santa Fe

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, 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-101  
Revised March 17, 1999

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address <b>Merrion Oil &amp; Gas Corporation</b>		<sup>2</sup> OGRID Number <b>014634</b>
<sup>3</sup> Property Code <b>27329</b>	<sup>4</sup> Property Name <b>Bartens Park Com</b>	<sup>5</sup> API Number <b>30 - 045-30493</b>
<sup>6</sup> Well No. <b>1</b>		<b>JAN 2001</b>

<sup>7</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	36	30N	13W	ne se	2479'	South	1247'	East	San Juan

<sup>8</sup> Proposed 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
<sup>9</sup> Proposed Pool 1 <b>Fulcher Kutz PC</b>					<sup>10</sup> Proposed Pool 2				

<sup>11</sup> Work Type Code <b>N</b>	<sup>12</sup> Well Type Code <b>G</b>	<sup>13</sup> Cable/Rotary <b>R</b>	<sup>14</sup> Lease Type Code <b>S</b>	<sup>15</sup> Ground Level Elevation <b>5560'</b>
<sup>16</sup> Multiple <b>No</b>	<sup>17</sup> Proposed Depth <b>1700'</b>	<sup>18</sup> Formation <b>Pictured Cliffs</b>	<sup>19</sup> Contractor <b>L&amp;B Speed Drill</b>	<sup>20</sup> Spud Date <b>When Permitted</b>

<sup>21</sup> Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8 1/2"	7"	23 ppf	120'	50 sx	Surface
6 1/2"	4 1/2"	10.5 ppf	1700'	160 sx	Surface

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

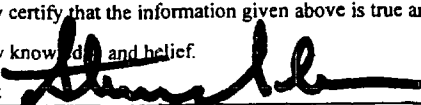
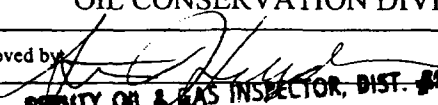
Merrion proposes to drill 8 1/2" surface hole with native mud to approx. 120' and set 7" 23 ppf J55 surface casing, cement to surface with ~50 sx 'H' w/ 2% CaCl<sub>2</sub> (59 cuft). Will drill 6 1/2" hole to TD @ approx. 1700' KB with low solids non-dispersed mud. Run open hole surveys. Will set 4 1/2" 10.5 ppf J55 production casing from TD to surface. Will cement with ~100 sx 'B' 2% SMS (206 cuft) and tail in with 60 sx 'B' 2% Gel (73 cuft) cement to fill from total depth to surface (Will adjust volumes based upon caliper log). If cement does not reach surface, a temperature log or cement-bond log will be run to find top of cement.

Will test Pictured Cliffs through perforated casing. Will fracture stimulate and put on production test. Drilling operations below surface casing will be conducted with a bag-type BOP in place, minimum working-pressure - 1000 psig.

This well is located within the city limits of Farmington and a city special use permit and Oil & Gas permit will be obtained prior to commencing drilling.

This well will be drilled on the Pinon Hills Com 1 existing Dakota well location.

Tops: Ojo Alamo - Surface, Kirtland - 13', Fruitland - 1105', Pictured Cliffs - 1478'.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: <b>Steven S. Dunn</b> Title: <b>Drilling &amp; Production Manager</b> Date: <b>January 18, 2001</b> Phone: <b>505.327.9801</b>		<b>OIL CONSERVATION DIVISION</b> Approved by:  Title: <b>DEPUTY OIL &amp; GAS INSPECTOR, DIST. #1</b> Approval Date: <b>JAN 18 2001</b> Expiration Date: <b>JAN 18 2002</b> Conditions of Approval: Attached <input type="checkbox"/>
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NSL

State of New Mexico  
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

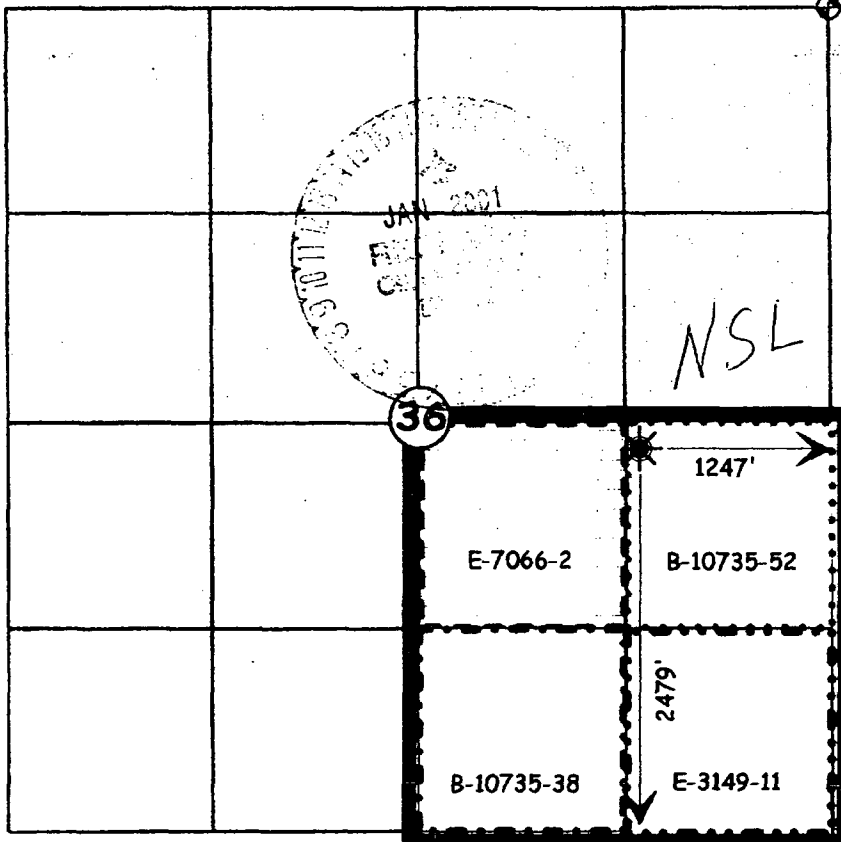
WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number <b>30-045-30493</b>	Pool Code <b>77200</b>	Pool Name <b>Fulcher Kutz <i>Pictured Cliffs</i></b>
Property Code <b>27329</b>	Property Name <b>BARTENS PARK COM</b>	Well Number <b>1</b>
OGRI No. <b>014634</b>	Operator Name <b>MERRION OIL &amp; GAS</b>	Elevation <b>5560'</b>

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Id.	Feet from	North/South	Feet from	East/West	County
<b>1</b>	<b>36</b>	<b>30 N.</b>	<b>13 W.</b>		<b>2479</b>	<b>SOUTH</b>	<b>1247</b>	<b>EAST</b>	<b>SAN JUAN</b>

Bottom Hole Location if Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Id.	Feet from	North/South	Feet from	East/West	County
Dedication <b>160 ac</b>	Joint ? <b>Y</b>	Consolidation <b>C</b>	Order No. <b>Communitization in Progress</b>						

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



<b>OPERATOR CERTIFICATION</b>	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature <i>Steven S. Dunn</i>	
Printed Name <b>Steven S. Dunn</b>	
Title <b>Drilling &amp; Production Manager</b>	
Date <b>Jan 18, 2001</b>	
<b>SURVEYOR CERTIFICATION</b>	
I hereby certify that the well location 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 <b>8 November 2000</b>	
Signature <i>Surveyor</i>	
Professional Seal <b>NEW MEXICO</b> <b>REGISTERED LAND SURVEYOR</b> <b>6844</b>	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
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Cabinet Secretary

March 12, 2001

**Lori Wrotenbery**  
Director  
Oil Conservation Division

**Merrion Oil & Gas Corporation**  
610 Reilly Avenue  
Farmington, New Mexico 87401  
Attention: George Sharpe



Telefax No. (505) 326-5900

*Administrative Order NSL-4560*

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Sincerely,

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Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec /  
New Mexico State Land Office - Santa Fe

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
811 South First, Artesia, NM 87210  
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

Form C-103  
Revised March 25, 1999

OIL CONSERVATION DIVISION

2040 South Pacheco, 2001  
Santa Fe, NM 87505  
RECEIVED  
OIL CON. DIV.  
DIST. 4

WELL API NO.

30-045-30493

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

BARTENS PARK COM (027329)

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-104) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MERRION OIL & GAS CORPORATION (014634)

8. Well No.

001

3. Address of Operator

610 Reilly Avenue, Farmington, New Mexico 87401-2634

9. Pool name or Wildcat

Fulcher Kutz Pictured Cliffs (77200)

4. Well Location

Unit Letter I : 2479 feet from the South line and 1247 feet from the East line

Section 36 Township 30N Range 13W NMPM San Juan, County

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

5560'

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Spud & Casing Reports ☒

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 recompletion.

6/14/01 MIRU L&B Speed Drill 6/14/01. Spud 8-3/4" surface and drill to TD surface hole at 142'. Circulate hole clean and TOH. Ran 3 jts of 7" casing (132.80'), land @ 138' KB. RU AES. Precede cement with 5 bbls of water. Mix and pump 65 sxs (77 cu.ft.) of Class "B" with 2% CaCl2 and 1/4#/sx celloflake. Displaced cement with 4 bbls of water. Circulated out 4 bbls of cement to surface. SD overnight. Will NU BOP, pressure test & drill out in morning.

6/15/01 NU BOP, choke and kill manifold. Pressure test to 600 psig for 15 min. Trip in with 6 1/2" MT bit and drill out from under surface casing. Drill ahead to 600' KB. Circulated clean. Pull off bottom. SDON.

6/16/01 Trip in to 600' KB. Drill ahead to 1010' KB. Circulated clean. Pull off bottom. SD for weekend.

6/17/01 SD Sunday.

\*\*\* CONTINUED OTHER SIDE \*\*\*

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

SIGNATURE Steven S. Dunn TITLE Drig & Prod Manager DATE 6/20/01

Type or print name STEVEN S. DUNN Telephone No. (505) 327-9801

(This space for State use)

APPROVED BY CHARLIE T. PERREN TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 4 DATE JUN 22 2001

Conditions of approval, if any:

REPORT CEMENT TOPS

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6/18/01 Trip in to bottom. Establish circulation; drill ahead to 1490' KB. Circulate clean. POH. SDON. (SSD)

6/19/01 TD well @ 1740' @ 1000 hrs 6/19/01. Circulate hole clean and TOH. RU Schlumberger Wireline, run IND/GR logs. Loggers TD: 1762' KB. RD SWS. RU San Juan Casing, run 43 joints of 4-1/2", 10.5#, J-55, ST&C casing (1729.24'), land @ 1734' KB. Insert float collar @ 1693' KB. Wash casing to bottom. Circulate for 30 min. RU AES. Precede cement with 10 bbls of water. Mix and pump 140 sxs (288 cu.ft.) of Class "B" with 2% SMS and 1/4#/sx celloflake. Tail in with 60 sxs (71 cu.ft.) of Class "B" with 1/4#/sx celloflake. Dropped plug and displaced cement with 27 bbls of water. PD @ 1730 hrs 6/19/01. Lost circulation while pumping tail cement. Lost approx. 10 bbls before re-gaining circulation. Circulated out 1.5 bbls of watered-down cement with celloflake to surface. (Bumped plug to 1500# - float held OK). RD AES. ND BOP and set slips. RDMOL 6/19/01. WOCT.

---

# L & B Speed Drill, Inc.

P.O. BOX 70 • FARMINGTON, NEW MEXICO 87499-0070 • (505) 325-1079

DATE: 7/12/2001

TO: Merrion Oil & Gas Corporation  
610 Reilly Ave.  
Farmington, NM 87401



Re: Directional Survey  
Well Bartens Park Com #1  
2479' FSL & 1247' FEL  
I- Sec. 36-T30N-R13W  
San Juan County, NM

Below is the directional survey for your well Bartens Park Com #1.

130' 3/4°  
600' 3/4°  
1100' 1°  
1600' 1°  
1760' 1°

## ACKNOWLEDGEMENT

STATE OF NEW MEXICO }  
COUNTY OF SAN JUAN }

SIGNED & ACKNOWLEDGED BY:

James L. Ludwick  
JAMES L. LUDWICK, PRESIDENT

The foregoing instrument was acknowledged before me this 12<sup>TH</sup> day of July 2001

Notary Public  
NOTARY PUBLIC

My commission expires:

10/23/03

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
811 South First, Artesia, NM 87210  
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

Form C-103  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO.

30-045-30493

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

BARTENS PARK COM (027329)

8. Well No.

001

9. Pool name or Wildcat

Fulcher Kutz Pictured Cliffs (77200)

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.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MERRION OIL & GAS CORPORATION

3. Address of Operator

610 Reilly Avenue, Farmington, New Mexico 87401-2634

4. Well Location

Unit Letter I : 2479 feet from the South line and 1247 feet from the East line

Section 36 Township 30N Range 13W NMPM San Juan, County

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

5560'

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Perf, Frac & Tbg Rpt ☒

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.

7/13/01 Set frac tanks and install 4-1/2" frac valve. Spot flowback tank. RU Blue Jet and run GR/CCL from PBTD (1690') to 1000'. RIH with 3-1/8" casing gun and perforate the Pictured Cliff formation at 4 spf: 1575' - 1585' (total of 40 holes), EHD: 0.34". Shut well in.

7/20/01 RU American Energy Services. Held safety meeting. Pressure test pumps and lines. Pumped 6500 gal 70 Q x-linked foam pad. Frac well with 61,040# of 16/30 Brady sand in 70 Q x-linked foam. Pumped sand in 1, 2, 3 & 4 (DH conc.) ppg stages. Last 10,580# of sand was resin coated. Note: base fluid was 20# liner gel, x-linked on the fly. AIR: 30 bpm, MIR: 31 bpm, ATP: 980#, MTP: 1710#. Job complete @ 12:45 hrs 7/20/01. ISIP: 850#, 5 min: 846#, 10 min: 842#, 15 min: 839#. Total fluid pumped 240 bbls. Shut well in, RD AES. Open well to flowback tank thru 1/2" choke at 1500 hrs 7/20/01. Well making foam and broken gel. At 1900 hrs well was still flowing strong, SWI overnight.

7/21-22/01 Well flowing with steady vent.

\*\*\* CONTINUED OTHER SIDE \*\*\*

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

SIGNATURE Steven S. Dunn TITLE Drig & Prod Manager DATE 8/02/01

Type or print name STEVEN S. DUNN Telephone No. (505) 327-9801

(This space for State use) ORIGINAL SIGNED BY CHARLIE T. PERPIN

PROPERTY OIL & GAS INSPECTOR, DIST. 3

AUG - 7 2001

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any:



---



7/30/01 MIRU JC Well Service. Found well with 0#. NU BOP. Tally and PU 2-3/8" tubing. TIH, tag sand/fill at 1645'. TOH to PU bailer, blew hydraulic hose on way out. Repaired hose. SWI & SDON.

7/31/01 Finish TOH, PU bailer and TIH. Tag sand at 1645'. Bail out fill to PBTB (1693'). TOH, CO bailer and tubing. TIH with tail joint, seating nipple and 48 joints (1580.84') of 2-3/8", 4.7#, EUE tubing. Bottom of tubing landed at 1586' KB. ND BOP & NU WH. RUTS. Initial fluid level was approx. 1100'. Swabbed for 3 hrs, recovered approx. 35 bbls of fluid. Casing pressure up to 25# and building. SWI & SDON.

8/01/01 Found well with casing pressure 25#. RUTS. Swabbed for 3.0 hrs. Recovered approx. 30 bbls of fluid. Fluid becoming gas cut and "foamy". Casing pressure 40# and climbing. Shut well in with 40#. RDMOL. WO tie-in.

## 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

1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico  
Energy, Minerals & Natural ResourcesOil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87504Form C-104  
Revised July 28, 2000Submit to Appropriate District Office  
5 Copies☐ AMENDED REPORT

## I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address <b>MERRION OIL &amp; GAS CORPORATION</b> 610 Reilly Avenue Farmington, New Mexico 87401		<sup>2</sup> OGRID Number <b>014634</b>
		<sup>3</sup> Reason for Filing Code/ Effective Date NW=NEW WELL
<sup>4</sup> API Number <b>30-045-30493</b>	<sup>5</sup> Pool Name <b>FULCHER KUTZ PICTURED CLIFFS</b>	<sup>6</sup> Pool Code <b>77200</b>
<sup>7</sup> Property Code <b>027329</b>	<sup>8</sup> Property Name <b>BARTENS PARK COM</b>	<sup>9</sup> Well Number <b>001</b>

II. <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	36	30N	13W	NESE	2479	SOUTH	1247	EAST	SAN JUAN

<sup>11</sup> Bottom Hole Location

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

<sup>12</sup> Lse Code S	<sup>13</sup> Producing Method	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
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## III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
151618	El Paso Field Services 614 Reilly Avenue Farmington, NM 87401	2829330	G	

## IV. Produced Water

<sup>23</sup> POD 2829331	<sup>24</sup> POD ULSTR Location and Description
------------------------------	--

## V. Well Completion Data

<sup>25</sup> Spud Date 6/14/01	<sup>26</sup> Ready Date 8/01/01	<sup>27</sup> TD 1740'	<sup>28</sup> PBTD 1690'	<sup>29</sup> Perforations 1575'-1585'	<sup>30</sup> DHC, MC
<sup>31</sup> Hole Size 8-3/4"	<sup>32</sup> Casing & Tubing Size 7"	<sup>33</sup> Depth Set 138' KB	<sup>34</sup> Sacks Cement 65 sxs (77 cu.ft.)		
6-1/4"	4-1/2"	1734' KB	200 sxs (359 cu.ft.)		
	2-3/8"	1586' KB			

## VI. Well Test Data

<sup>35</sup> Date New Oil ---	<sup>36</sup> Gas Delivery Date ---	<sup>37</sup> Test Date 7/26/01	<sup>38</sup> Test Length SHUT-IN	<sup>39</sup> Tbg. Pressure ----	<sup>40</sup> Csg. Pressure 226 PSI (BHP)
<sup>41</sup> Choke Size ---	<sup>42</sup> Oil ----	<sup>43</sup> Water ---	<sup>44</sup> Gas ---	<sup>45</sup> AOF ---	<sup>46</sup> Test Method Flowing

"I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Steven S. Dunn

Title:

Drilg &amp; Prod Manager

Date:

August 7, 2001

Phone:

(505) 327-9801

## OIL CONSERVATION DIVISION

Original Signed by STEVEN N. HAYDEN

Approved by:

Title:

DEPUTY OIL &amp; GAS INSPECTOR, DIST. 3

Approval Date:

AUG - 8 2001

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Fee Lease - 5 copies

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Santa Fe, NM 87505  
AUG 2001

WELL API NO.  
**30-045-30493**  
5. Indicate Type of Lease  
STATE ☒ FEE ☐  
State Oil & Gas Lease No.

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>	
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7. Lease Name or Unit Agreement Name <b>BARTENS PARK COM (027329)</b>
b. Type of Completion: NEW WORK <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/> WELL <input checked="" type="checkbox"/> OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> BACK <input type="checkbox"/>	
2. Name of Operator <b>MERRION OIL &amp; GAS CORPORATION (014634)</b>	8. Well No. <b>001</b>
3. Address of Operator <b>610 REILLY AVENUE, FARMINGTON, NM 87401</b>	9. Pool name or Wildcat <b>FULCHER KUTZ PICTURED CLIFFS (77200)</b>

4. Well Location Unit Letter <b>I</b> : <b>2479</b> Feet From The <b>South</b> Line and <b>1247</b> Feet From The <b>East</b> Line Section <b>36</b> Township <b>30N</b> Range <b>13W</b> NMPM <b>San Juan</b> County				
10. Date Spudded <b>6/14/01</b>	11. Date T.D. Reached <b>6/19/01</b>	12. Date Compl. (Ready to Prod.) <b>8/01/01</b>	13. Elevations (DF& RKB, RT, GR, etc.) <b>5560'</b>	14. Elev. Casinghead

15. Total Depth <b>1740'</b>	16. Plug Back T.D. <b>1690'</b>	17. If Multiple Compl. How Many Zones? _____	18. Intervals Drilled By <b>0-TD</b>	Rotary Tools _____	Cable Tools _____
---------------------------------	------------------------------------	---	---	-----------------------	----------------------

19. Producing Interval(s), of this completion - Top, Bottom, Name <b>Pictured Cliffs: 1575'-1585'</b>	20. Was Directional Survey Made _____
--	--

21. Type Electric and Other Logs Run <b>IND/GR AND GR/CCL</b>	22. Was Well Cored <b>No</b>
--	---------------------------------

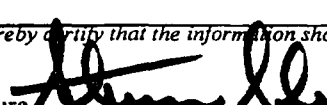
23. <b>CASING RECORD (Report all strings set in well)</b>					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<b>7"</b>	<b>23#</b>	<b>138' KB</b>	<b>8-3/4"</b>	<b>65 sxs (77 cu.ft.)</b>	
<b>4-1/2"</b>	<b>10.5#</b>	<b>1734' KB</b>	<b>6-1/4"</b>	<b>200 sxs (359 cu.ft.)</b>	

24. <b>LINER RECORD</b>					25. <b>TUBING RECORD</b>		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
----	-----	-----	-----	-----	<b>2-3/8"</b>	<b>1586' KB</b>	----

26. Perforation record (interval, size, and number) <b>Pictured Cliffs: 1575'-1585' (4 spf - total 40 holes)</b>	27. <b>ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.</b>	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	<b>1575'-1585'</b>	<b>Frac'd with 61,040# of 16/30 Brady sand in 70# Q x-linked foam.</b>
	<b>Total fluid pumped: 240 bbls</b>	

28. <b>PRODUCTION</b>							
Date First Production <b>8/02/01</b>		Production Method (Flowing, gas lift, pumping - Size and type pump) <b>Flowing</b>			Well Status (Prod. or Shut-in) <b>Shut-In</b>		
Date of Test <b>7/26/01</b>	Hours Tested <b>SHUT-IN</b>	Choke Size ----	Prod'n For Test Period	Oil - Bbl ----	Gas - MCF ----	Water - Bbl ---	Gas - Oil Ratio -----
Flow Tubing Press. ---	Casing Pressure <b>226 PSI (BHP)</b>	Calculated 24-Hour Rate	Oil - Bbl ---	Gas - MCF ---	Water - Bbl ---	Oil Gravity - API - (Corr.) ---	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) <b>PENDING GAS TIE-IN</b>	Test Witnessed By <b>TIM MERILATT</b>
---	--

30. List Attachments			
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief			
Signature 	Printed Name <b>Steven S. Dunn</b>	Drig & Prod Title <b>Manager</b>	Date <b>8/07/01</b>

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Southeastern New Mexico

T. Anhy \_\_\_\_\_  
T. Salt \_\_\_\_\_  
B. Salt \_\_\_\_\_  
T. Yates \_\_\_\_\_  
T. 7 Rivers \_\_\_\_\_  
T. Queen \_\_\_\_\_  
T. Grayburg \_\_\_\_\_  
T. San Andres \_\_\_\_\_  
T. Glorieta \_\_\_\_\_  
T. Paddock \_\_\_\_\_  
T. Blinebry \_\_\_\_\_  
T. Tubb \_\_\_\_\_  
T. Drinkard \_\_\_\_\_  
T. Abo \_\_\_\_\_  
T. Wolfcamp \_\_\_\_\_  
T. Penn \_\_\_\_\_  
T. Cisco (Bough C) \_\_\_\_\_

T. Canyon \_\_\_\_\_  
T. Strawn \_\_\_\_\_  
T. Atoka \_\_\_\_\_  
T. Miss \_\_\_\_\_  
T. Devonian \_\_\_\_\_  
T. Silurian \_\_\_\_\_  
T. Montoya \_\_\_\_\_  
T. Simpson \_\_\_\_\_  
T. McKee \_\_\_\_\_  
T. Ellenburger \_\_\_\_\_  
T. Gr. Wash \_\_\_\_\_  
T. Delaware Sand \_\_\_\_\_  
T. Bone Springs \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_

## Northwestern New Mexico

T. Ojo Alamo \_\_\_\_\_  
T. Kirtland-Fruitland 13' / 1105'  
T. Pictured Cliffs 1575'  
T. Cliff House \_\_\_\_\_  
T. Menefee \_\_\_\_\_  
T. Point Lookout \_\_\_\_\_  
T. Mancos \_\_\_\_\_  
T. Gallup \_\_\_\_\_  
Base Greenhorn \_\_\_\_\_  
T. Dakota \_\_\_\_\_  
T. Morrison \_\_\_\_\_  
T. Todilto \_\_\_\_\_  
T. Entrada \_\_\_\_\_  
T. Wingate \_\_\_\_\_  
T. Chinle \_\_\_\_\_  
T. Permian \_\_\_\_\_  
T. Penn "A" \_\_\_\_\_

T. Penn. "B"  
T. Penn. "C"  
T. Penn. "D"  
T. Leadville  
T. Madison  
T. Elbert  
T. McCracken  
T. Ignacio Otzte  
T. Granite  
T.  
T.  
T.  
T.  
T.  
T.  
T.

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....

No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from ..... to ..... feet.....  
 No. 2, from ..... to ..... feet.....  
 No. 3, from ..... to ..... feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

*[Handwritten signature]*

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

Form C-103  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO.  
30-045-30493

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Bartens Park Com

8. Well No. 1

9. Pool name or Wildcat  
Basin Fruitland Coal/Fulcher Kutz PC

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.)

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

2. Name of Operator  
Merrion Oil & Gas

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

4. Well Location

Unit Letter I : 2479 feet from the North line and 1247 feet from the East line.

Section 36 Township 30N Range 13W San Juan County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5560' GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Downhole Commingle ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

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 recompletion.

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.

DNC 1411 AZ

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

SIGNATURE [Signature] TITLE Production Engineer DATE 1/19/04

Type or print name Connie S. Dinning Telephone No. 327-9801  
(This space for State use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE FEB 13 2004  
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**

<sup>1</sup> API Number 30-045-30493	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 027329	<sup>5</sup> Property Name Bartens Park Com	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 014634	<sup>8</sup> Operator Name Merrion Oil & Gas	<sup>9</sup> Elevation 5560' GR

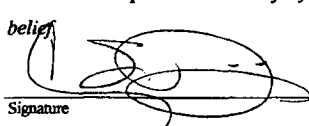
<sup>10</sup> Surface Location

UL or lot no. I	Section 36	Township 30N	Range 13 W	Lot Idn NESE	Feet from the 2479	North/South line South	Feet from the 1247	East/West line East	County San Juan
--------------------	---------------	-----------------	---------------	-----------------	-----------------------	---------------------------	-----------------------	------------------------	--------------------

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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				493' fnl	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <b>Connie S. Dinning</b> Printed Name <b>Production Engineer</b> Title <b>January 19, 2004</b> Date	
			Blackshawl Com No. 1	743' fel		
					1247' fel	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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
			Bartens Park Com No.1		2479' fsl	

# MERRION OIL & GAS CORPORATION

## COMPLETION PROCEDURE FRUITLAND COAL FORMATION

January 14, 2004

<b>Well:</b>	<b>Bartens Park Com No. 1</b>	<b>Field:</b>	Basin Fruitland
<b>Location:</b>	2479' fsl & 1247' fel (ne se) Sec 36, T30N, R13W, NMPM San Juan County, New Mexico	<b>Elevation:</b>	5565' RKB 5560' GL
<b>By:</b>	Connie Dinning	<b>Lease:</b>	FEE
		<b>AFE No.:</b>	20407

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

### ***Pull Tubing & Prepare to Frac***

1. MIRU workover rig. POH w/ 3/4" rods and pump. ND WH, NU BOP's. Tag up on fill, pull 2 3/8" production tubing.
2. MIRU wireline truck. RIH w/ Drillable Composite Bridge Plug (DCBP) and set at ±1568' KB per correlation log. (Note: RBP setting is critical, reference GR/collar log dated 7/13/01)
3. Load hole w/ 2% KCL water and pressure test DCBP to 3500 psi.

### ***Perf & Frac Fruitland Coal***

1. Order in frac/test tanks w/ risers, working external gages & two good 4" valves on each. Fill w/ 2% KCl city 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 Bartens Park Com No. 1 correlation log run 7/13/01 as follows:  

1540 - 1560 ft	20 ft	60 holes	0.34" diameter
----------------	-------	----------	----------------
4. RU Frac crew. Fracture stimulate the Fruitland Coal formation with 20# Cross linked gel system at 30 BPM with 100,000 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 pit.

### ***Install Production Tubing***

1. Rig down frac valve. Reinstall tubing head, nipple up BOPs.
2. RIH w/ tubing, clean out sand and drill out DCBP @ 1568' KB.
3. Clean out rat hole if necessary.
4. Pick up and tally 15' MA, SN, and 2 3/8" tubing in hole. Land tubing at ± 1600' KB below bottom of Pictured Cliffs perforations.

5. Nipple down BOPs, nipple up wellhead. Run rods and pump.

**Attachments:**

1. Wellbore Schematic after completion.
2. Bartens Park Com No. 1E Open hole survey strip from Induction log.
3. Fracture stimulation design.



# Merrion Oil & Gas Corporation

## Wellbore Schematic

### Bartens Park No. 1

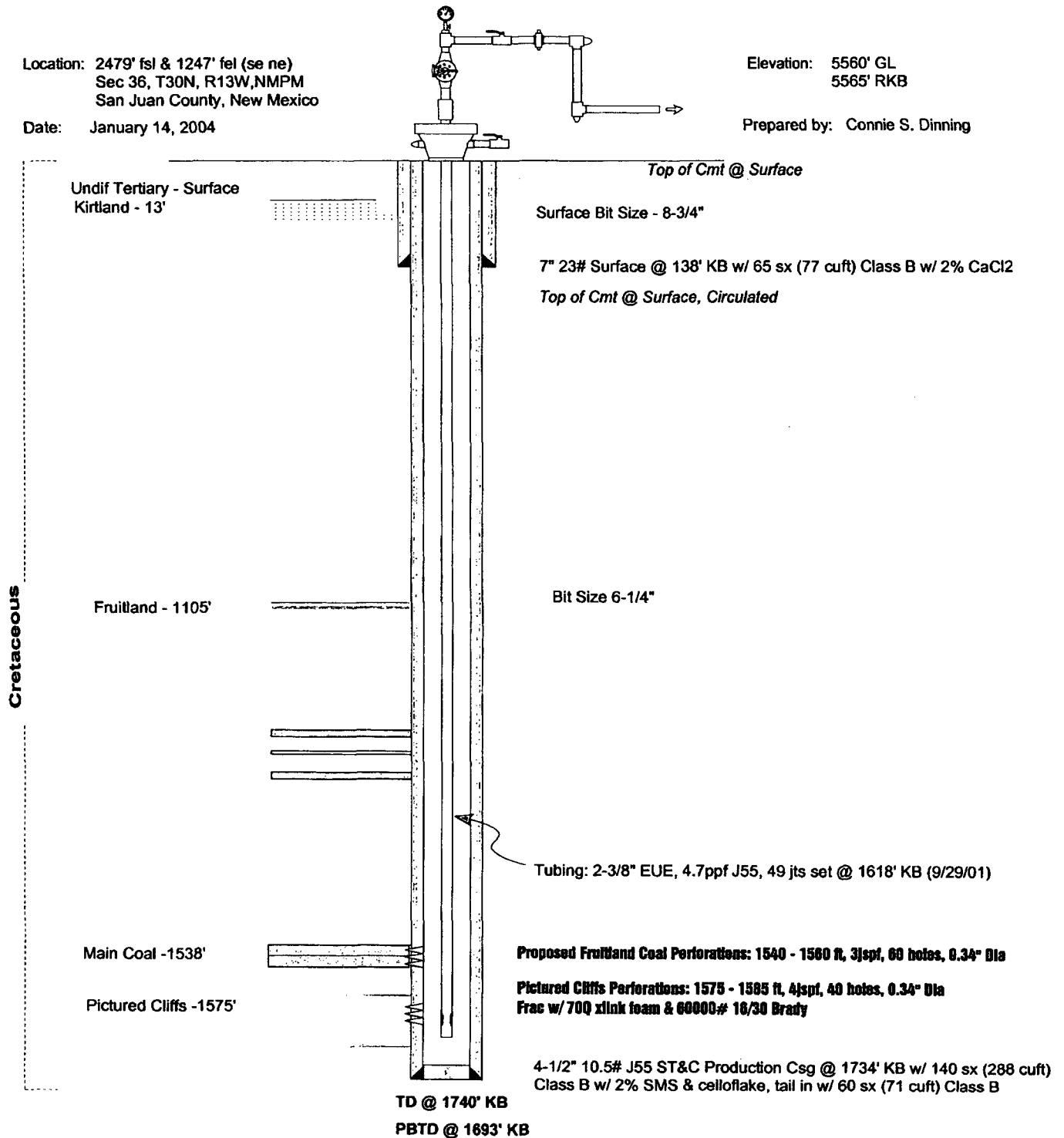
#### Proposed Wellbore Configuration

Location: 2479' fsl & 1247' fel (se ne)  
Sec 36, T30N, R13W, NMPM  
San Juan County, New Mexico

Date: January 14, 2004

Elevation: 5560' GL  
5565' RKB

Prepared by: Connie S. Dinning



**SUPPORTING DATA FOR C-103  
BARTENS PARK COM NO. 1 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 1575' to 1585' at 4 spf, total 40 holes. We plan to add the Fruitland Coal interval according to the attached procedure from 1540' to 1560', 3 spf, total 60 holes.
3. The Pictured Cliffs is making approximately 420 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 Fruitland Coal addition to the Panther No. 1 offset well resulted in an incremental  $\pm 150$  MCFD. We expect similar production of about 150 MCFD from the Fruitland Coal in the Bartens Park Com No. 1. We do not anticipate any loss of production from either zone as a result of downhole commingling.
4. Ownership of the Fruitland Coal and Pictured Cliffs are not the same. Interest owners in both pools have been notified of the proposed commingling.
5. A copy of this application has been sent to the State Land Office.

Sec : 36 Twp : 30N Rng : 13W Section Type : NORMAL

D 40.00 CS E03149 0012 MERRION OIL & GAS C 12/10/59 A A	C 40.00 CS E07066 0003 MERRION OIL & GAS C 04/10/63	B 40.00 CS E07066 0003 MERRION OIL & GAS C 04/10/63	A 40.00 CS E03149 0012 MERRION OIL & GAS C 12/10/59 A A
E 40.00 CS OG2004 0001 XTO ENERGY, INC. C 02/18/68	F 40.00 CS VC0014 0002 XTO ENERGY, INC. C 08/01/99	G 40.00 CS E03149 0012 MERRION OIL & GAS C 12/10/59	H 40.00 CS OG2004 0001 XTO ENERGY, INC. C 02/18/68
L 40.00 CS E07066 0003 MERRION OIL & GAS C 04/10/63	K 40.00 CS VC0014 0002 XTO ENERGY, INC. C 08/01/99	J 40.00 CS E07066 0003 MERRION OIL & GAS C 04/10/63	I 40.00 CS B10735 0052 EOG RESOURCES & M C 10/20/53 A A
M 40.00 CS E00453 0022 DUGAN PRODUCTION C 07/16/55 A A	N 40.00 CS B11242 0050 XTO ENERGY, INC. C 05/26/54	O 40.00 CS B10735 0053 MERRION OIL & GAS C 10/20/53	P 40.00 CS E03149 0012 MERRION OIL & GAS C 12/10/59



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Merrion Oil & Gas Corporation**

**610 Reilly Avenue**

**Farmington, New Mexico 87401-2634**

Attention: **Connie S. Dinning**  
Production Engineer

January 23, 2004

**Lori Wrotenbery**

Director

**Oil Conservation Division**

**Telefax No. (505) 326-5900**

*Administrative Order NSL-4550-A*

Dear Ms. Dinning:

Reference is made to the following: (i) your application dated December 15, 2003 that was submitted to the New Mexico Oil Conservation Division ("Division") on December 23, 2003 (*administrative application reference No. pMES0-400635287*); and (ii) the Division's records in Santa Fe and Aztec, including the file on Division Administrative Order NSL-4550: all concerning Merrion Oil & Gas Corporation's ("MOG") request for a non-standard Basin-Fruitland coal gas well location for its existing Blackshawl Com. Well No. 1 (API No. **30-045-30420**) located 493 feet from the North line and 743 feet from the East line (Unit A) of Section 36, Township 30 North, Range 13 West, NMPM, San Juan County, New Mexico. The E/2 of Section 36 is to be dedicated to this well in order to form a standard 320-acre stand-up gas spacing unit for the Basin-Fruitland Coal (Gas) Pool (**71629**).

By Division Administrative Order NSL-4550, dated February 8, 2001 MOG received authorization to drill to and complete the above-described well in the Fulcher Kutz-Pictured Cliffs Pool (**77200**) at an unorthodox gas well location within a standard 160-acre spacing unit comprising the NE/4 of Section 36.

It is our understanding that MOG now indents to perforate the Blackshawl Com. Well No. 1 up-hole into the Fruitland coal gas interval in an attempt to establish gas production and recomplete the well such that production from both the Fruitland coal gas and Pictured Cliffs intervals zones will be downhole commingled. However, pursuant to Rule 7(a)(1) of the "*Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool*," as promulgated by Division Order No. R-8768, as amended, the location of this well is also considered to be unorthodox for the proposed 320-acre coal gas unit.

By the authority granted me under the provisions of Rule 7 (b) of these special pool rules, the above-described unorthodox coal gas well location for the Blackshawl Com. Well No. 1 is hereby approved.

Further, all provisions of Division Order NSL-4550 shall remain in full force and affect until further notice.

Sincerely,

Lori Wrotenbery  
Director

LW/mes

cc: New Mexico Oil Conservation Division - Aztec  
New Mexico State Land Office - Santa Fe  
File: Division Administrative Order NSL-4550