

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON  
RESOURCES** OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1025' FSL, 1550' FEL, Sec. 12, T-26-N, R-10-W, NMPM

NSL-3703

5. Lease Number  
SF-077935

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

Huerfano Unit

8. Well Name & Number  
Huerfano Unit #242

9. API Well No.  
30-045-21222

10. Field and Pool  
Basin Fruitland Coal

11. County and State  
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

Type of Action

☐ Abandonment  
☒ Recompletion  
☒ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other -  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut off  
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to plug back the subject well from the Gallup formation to the Fruitland Coal formation according to the attached procedure and wellbore diagram.

RECEIVED  
DEC 10 1996

OIL CON. DIV.  
DIST. 3

RECEIVED  
DEC 20 PM 3:00

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

Signed Deane W. Spencer (SCWFTC) Title Regulatory Administrator Date 10/28/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

CONDITION OF APPROVAL, if any:

Date \_\_\_\_\_

APPROVED

DEC 05 1996

/S/ Duane W. Spencer  
DISTRICT MANAGER

NMCOO

District I  
PO Box 1780, Hobbs, NM 88241-1780  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 N. Main Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

*Hold C-104  
for NSI*

Form C-10  
Revised February 21, 199  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-21222		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 7139	Property Name Huerfano Unit		Well Number 242
OGRID No. 14538	Operator Name BURLINGTON RESOURCES		Elevation 6570'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
0	12	26 N	10 W		1025	South	1550	East	S.F.

11 Bottom Hole Location if Different From Surface

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

Dedicated Acres E/320	Joint or Infill	Consolidation Code	Order No.
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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	Not resurveyed, prepared from a plat by David O. Wilven dated 1-17-73.		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 8-9-96 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.  8-8-96 Date of Survey Signature NEALE C. EDWARDS NEALE C. EDWARDS 8857 8857 Certificate Number	1550'	1025'		

**MERIDIAN OIL - FRUITLAND COAL RECOMPLETION PROCEDURE**  
**LAT-LONG: 36.498398 - 107.843231**

**Huerfano Unit #242**

**GENERAL WELL DATA:**

**Well Name:** Huerfano Unit #242  
**Location:** Unit O, Section 12, T26N, R10W, 1025' FSL, 1550' FEL  
**County, State:** San Juan County, New Mexico  
**Field:** Angel Peak Gallup  
**Formation:** Gallup  
**Elevation:** 6570' GL  
**AFE #:**

<b>GEOLOGY:</b>	TD: 6128'		
	COTD: 6110'		
Surface:			
Ojo Alamo	1302'	Mesaverde	3793'
Kirtland:	1412'	Point Lookout	4616'
Fruitland:	2000'	Gallup	5682'
Pictured Cliffs	2245'		

**PROJECT OBJECTIVE:** Plug and abandoned Gallup zone. Recomplete to Fruitland Coal utilizing extreme over balanced perforating as stimulation.

Deliver to location: 1.) 70' of 2-7/8" 6.5# J-55 lubricator tested to 5000 psi, 2.) 5000 psi frac valve, 3.) 2-7/8" flow-tee pressure tested to 5000 psi, 4.) 4-1/2" wellhead isolation tool.

1. Hold safety meeting. MIRU Completion Rig. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM and NMOC rules and regulations. Record all tubing, casing, and line pressures. RU flowlines. Blowdown tbg and csg, kill well w/wtr. ND wellhead. Replace any failed valves and seals on wellhead.
2. NU BOP's and stripping head. PU 2 jts of tubing and tag PBTD @ 6110'. TOOH with 6057' of 2-3/8" tubing. Inspect and replace any bad joints.
3. **Plug #1 (Gallup top, 5682' - 6070')**: PU 4-1/2" cement retainer on 2-3/8" tubing and TIH; set retainer at 5632'. Pressure test tubing to 2000#; replace all bad joints as necessary. Load 4-1/2" casing with water from bottom and pressure test to 500#. Mix ~~42~~<sup>70</sup> sxs class B cement. Squeeze 66 sxs below retainer, sting out of retainer and spot 4 sxs above retainer. TOOH w/ stinger. 70 sxs
4. **Plug #2 (Mesaverde top, 3743' - 3843')**: TOOH to 3843'. Mix 12 sxs Class B cement and spot 100' cement plug across Mesaverde from 3743' to 3843'. Reverse circulate tubing clean. TOOH.
5. TIH w/ 4-1/2" CIBP on 2-3/8" tubing. Set @ 2300'. Load hole bottoms up with 37 bbls water. TOOH
6. MIRU wireline unit. Run in hole w/ CBL. Log from 2300' to surface. POOH. RD wireline unit. Provide engineering with log. Cement bond required up to 1990'. Estimated top Fruitland Coal perforation is 2002'. Contact engineering if cmt top is below 1990'. RD wireline unit.

7. Pressure test casing to 3500 psi. If pressure test fails contact engineering.
8. TIH w/ 2-3/8" tubing. Blow hole clean with air. Load hole w/ 3 bbls of 2% KCL for water cushion on top of RTG. TOO H w 2270' of 2-3/8" tubing.
9. TIH with 4-1/2" tree saver. NU 5000# frac valve with 2-7/8" pup joint flow tee pressure tested to 5000 psi to 4-1/2" tree saver. Run gamma ray / ccl correlation log. POOH. NU 70' of 2-7/8" lubricator pressure tested to 5000 psi. Under 5000# packoff head run 2-1/8" RTG with 5 SPF - 6.7 gr - 0.28" Owen charge at 60° phasing. Correlate setting depth with gamma ray log. Perforation depths for first stage are 2193'-2200'.
10. RU nitrogen unit. Pressure test surface lines to 5000 psi. Pressure casing w/ nitrogen to 3500 psi, approximately 43,000 scf. (1.70 psi/ft frac gradient). Hold pressure for 3 minutes and monitor for any leak-off. Have all personnel on location a minimum of 100 ft from wellhead. Holding 3500 psi on well, perforate 2193'-2200'.
11. Monitor pressure on well for 15 minutes. If well does not bleed down, bleed pressure down to 200 psi. POOH with wireline. Shut-in frac valve. ND nitrogen unit. ND lubricator. Lay down 2-1/8" RTG.
12. NU flow back line. Flow well for 30 min on 1/2" choke. As well bleeds down increase choke size. Report flow rate every ten minutes. Take pitot gauge with well flowing to atmosphere. Shut-in frac valve
13. RU wireline unit. Under full lubricator, run 4-1/2" CIBP and set @ 2160'. POOH w/ wireline.
14. Load hole w/3 bbls of 2% KCL for water cushion on top of RTG.
15. NU 2-7/8" pup joint flow tee with lubricator. Under 5000# packoff head run 2-1/8" RTG with 5 SPF - 6.7 gr - 0.28" Owen charge at 60° phasing. Correlate setting depth with gamma ray log. Perforation depths for second stage are 2028'-2038', (possible 2002'-2012' verify w/engineering after running CNL).
16. RU nitrogen unit. Pressure test surface lines to 5000 psi. Pressure casing w/ nitrogen to 3,500 psi, approximately 40,000 scf. (1.70 psi/ft frac gradient). Hold pressure for 3 minutes and monitor for any leak-off. Have all personnel on location a minimum of 100 ft from wellhead. Holding 3,500 psi on well, perforate 2028'-2038'.
17. Monitor pressure on well for 15 minutes. If well does not bleed down, bleed pressure down to 200 psi. POOH with wireline. Shut-in frac valve. ND nitrogen unit. ND lubricator. Lay down 2-1/8" RTG.
18. NU flow back line. Flow well for 30 min on 1/2" choke. As well bleeds down increase choke size. Report flow rate every ten minutes. Take pitot gauge with well flowing to atmosphere.
19. Control well w/ minimal 2% KCL. ND lubricator, and frac valve. Release tree saver and TOO H.
20. TIH w/ 3-7/8" bit on six drill collars and 2-3/8" tubing. Drill 4-1/2" CIBP @ 2160' w/ air and mist. Circulate hole clean with air. TOO H with bit and collars.
21. TIH with pump-off plug on bottom, Model 'F' profile nipple one joint of bottom, and remaining 2-3/8", 4.7# 8rd EUE tubing. Land tubing a minimum at +/- 2170'. Run lockdown screws in on donut.
22. Nipple down BOP. Nipple up wellhead assembly.

23. Pump out plug. Blow hole clean for 1 hour. Take 1 hr pitot gauge up tubing. Shut in well. rig down.
24. Notify production operations that well is ready for production. Obtain 24 hr. dip-in pressure prior to first delivery.

Compiled By:

Sean Woolverton 10/4/96  
S. C. Woolverton  
Production Engineer

Approved By:

\_\_\_\_\_  
J. W. Caldwell

JWC 10/4/96  
\_\_\_\_\_  
Drilling Superintendent

**Vendors:**

Isolation Tool:

WSI Wellhead Service (327-3402)

Wireline Services:

Basin Perforators (327-5244)

Engineer:

Sean Woolverton (H) 326-4525, (W) 326-9837,  
(P) 326-8931

## Pertinent Data Sheet - Huerfano Unit #242

Lat-Long: 36.498398 - 107.843231

**Location:** 1025'S, 1550'E, Section 12, T-26-N, R-10-W  
San Juan County, New Mexico

**Field:** Angel Peak Gallup Extension      **Elevation:** 6570' GL      **TD:** 6128'  
6583' KB      **PBTD:** 6110'

**Spud Date:** 4/28/73  
**Completed:** 7/03/73  
**DP#:** 44883A

### **Casing Record:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12-1/4"	8-5/8"	24.00# K-55	231'	225 ft <sup>3</sup>	circ. to surface
7-7/8"	4-1/2"	10.50# KE	6128'	793 ft <sup>3</sup>	3481' (1 <sup>st</sup> Stage @ 75% CALC)
				357 ft <sup>3</sup>	1950' (2 <sup>nd</sup> Stage - Temp Survey)

### **Tubing Record:**

<u>Tubing Size</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>
2-3/8"	4.7# J-55	6057' ( Seating Nipple @ 6026')

### **Formation Tops:**

Ojo Alamo	1302'
Kirtland	1412'
Fruitland Coal	2000'
Pictured Cliffs	2245'
Cliffhouse	3793'
Point Lookout	4616'
Gallup	5682'

**Logging Record:**      Electric Log, Density Log      - 5/10/73  
Temperature Survey      - 5/11/73  
GR-TEL      - 5/24/73

### **Stimulation:**

Gallup: Slick Water Frac 5682' - 6070'  
99,000# 20/40 Sand  
43,030 GALS Water  
Perf Diameter = 0.42", 20 Holes Total

<b><u>Production History:</u></b>	Cumulative Gas Production:	Gallup: 102916 MCF
	Current Gas Production:	Gallup: 0 MCF
	Cumulative Oil Production:	Gallup: 2245 BBLS
	Current Oil Production:	Gallup: 0 BBLS

**Transporter:** Gas: El Paso Natural Gas Pipeline  
Oil: Giant Refining Company

# Huerfano Unit #242

AS OF 5/14/96

ANGEL PEAK GALLUP EXTENSION

UNIT O, SECTION 12, T26N, R10W, SAN JUAN COUNTY, NM

GALLUP

SPUD 4/28/73

COMPLETED 7/03/73

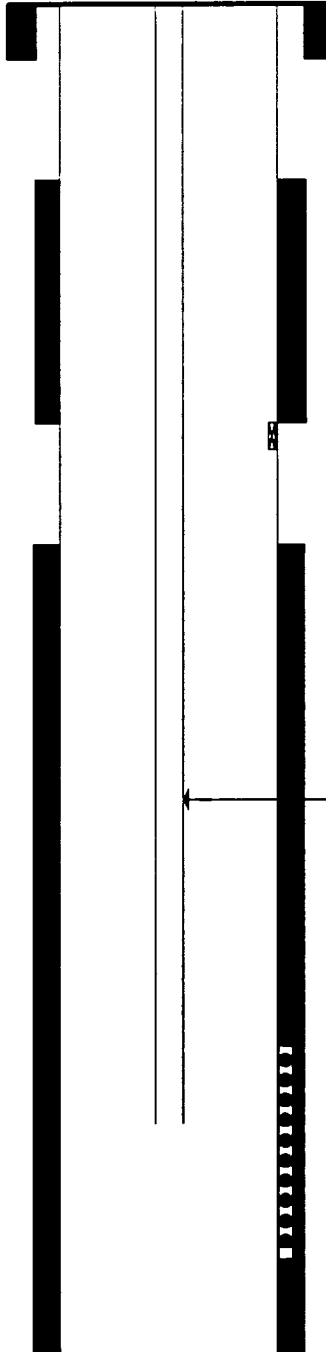
FRUITLAND @ 2000'

PICTURED CLIFFS @ 2245'

MESA VERDE @ 3793'

POINT LOOKOUT @ 4616'

GALLUP @ 5682'



12-1/4" HOLE

8-5/8" 24# K-55 CSG SET @ 231'

CMT W/225 FT<sup>3</sup>

CIRC. CMT TO SURFACE

SECOND STAGE CMT W/357 FT<sup>3</sup>

STAGE TOOL @ 2379'

TOC @ 1950' TEMP SURVEY

7-7/8" HOLE

2-3/8" 4.7# J-55 TBG @ 6057'

SEATING NIPPLE @ 6026'

PERF DIAMETER = 0.42", 20 HOLES

PERFS @ 5682'-5694', 5736'-5738',  
5788'-5798', 5818'-5830', 5908'-  
5916', 5930'-5938', 5960'-5972',  
5986'-5998', 6014'-6026', 6058'-  
6070'

SLICK WATER FRAC

W/99,000 # 20/40 SAND

W/43,030 GALS WATER

4-1/2" 10.5# KE CSG SET @ 6128'

FIRST STAGE CMT W/793 FT<sup>3</sup>

TOC @ 3481' 75% CALC

PBTD 6110'  
TD 6128'

# Huerfano Unit #242

AS OF 5/14/96

ANGEL PEAK GALLUP EXTENSION

UNIT O, SECTION 12, T26N, R10W, SAN JUAN COUNTY, NM

## Proposed

GALLUP

SPUD 4/28/73

COMPLETED 7/03/73

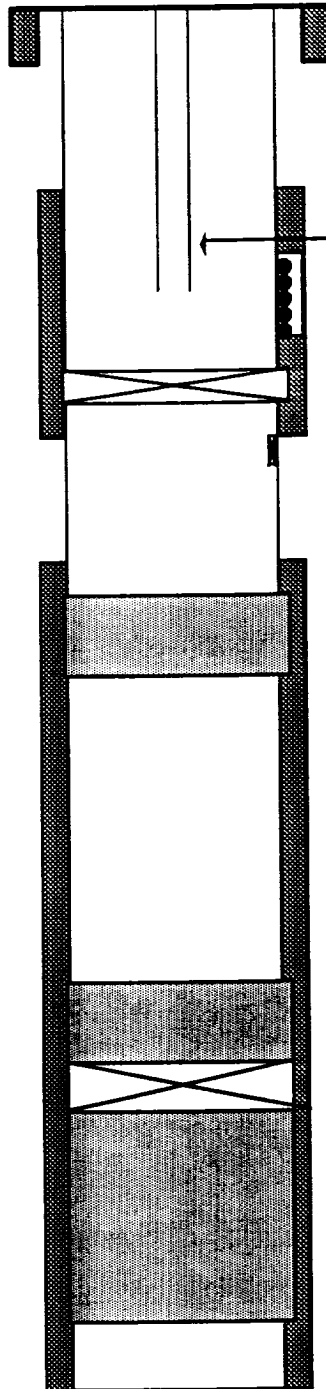
FRUITLAND @ 2000'

PICTURED CLIFFS @ 2245'

MESA VERDE @ 3793'

POINT LOOKOUT @ 4616'

GALLUP @ 5682'



12-1/4" HOLE

8-5/8" 24# K-55 CSG SET @ 231'

CMT W/225 FT<sup>3</sup>

CIRC. CMT TO SURFACE

2-3/8" 4.7# J-55 TBG @ 2170'

SEATING NIPPLE @ 2140'

### FRUITLAND COAL PERFORATION:

2028'-2038', 2193'-2210', EXTREME

OVERBALANCE PERF @ 3500 PSI

W/80,000 SCF N<sub>2</sub>

4-1/2" CIBP SET @ 2300'

SECOND STAGE CMT W/357 FT<sup>3</sup>

STAGE TOOL @ 2379'

TOC @ 1950' TEMP SURVEY

7-7/8" HOLE

**PLUG 2: 3743'-3843' CMT W/ 12 SXS**

CLASS B CMT PLUG

**PLUG 1: 5582'-6070' CMT W/ 70 SXS**

CLASS B CMT

4-1/2" CMT RETAINER @ 5632'

4-1/2" 10.5# KE CSG SET @ 6128'

FIRST STAGE CMT W/793 FT<sup>3</sup>

TOC @ 3481' 75% CALC

PBTD 6110'

TD 6128'