# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

la.	Type of Well	5. Lease Number NMSF-079658 Unit Reporting Number
b.	GAS (F RECEIVED ONL CONS. DIV	্ৰ 6. If Indian, All. or Tribe
•	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name Huerfano Unit
	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #211E
<b>).</b>	Location of Well Unit M (SWSW), 660' FSL, 660' FWL	10. Field, Pool, Wildcat Basin Dakota
	Latitude 36° 29.8346'N Longitude 107° 53.3813'W	11. Sec., Twn, Rge, Mer. (NMPM) M Sec. 10, T26N, R10W  API # 30-045- 33572
14.	Distance in Miles from Nearest Town 9.1 miles to Post Office in Bloomfield, NM	12. County 13. State San Juan NM
5.	Distance from Proposed Location to Nearest Property or Lease 660'	Line
6.	Acres in Lease	17. Acres Assigned to Well 320 W/2
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1918' - Huerfano Unit #201	or Applied for on this Lease
9.	Proposed Depth 6905'	20. Rotary or Cable Tools Rotary
	Elevations (DF, FT, GR, Etc.) 6697'GL	22. Approx. Date Work will Start
:1.		
	Proposed Casing and Cementing Program See Operations Plan attached	
21.		2-2-0(p Date

**Archaeological Report attached** 

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

United States any false infictitious or freedulent statements or presentations as to any matter within its jurisdiction.

procedural review pursuant to 48 CFR 3165 3
and appeal pursuant to 48 CFR 3185 4

MWOCD

jurisdiction.
District of the last authorized are subject to dome hance with attached "General Requirements".

DISTRICT I 1625 N. Prench Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.1 L 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 67410

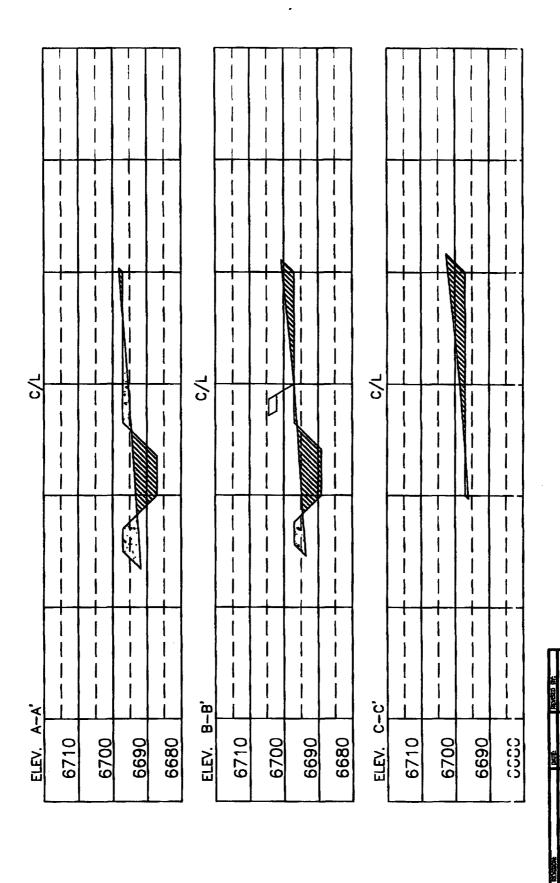
OIL CONSERVATION DIVISION
1220 South St. Francis DE Santa Fe, NM 87505

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

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'API 30–045 -	Number 3	572		*Pool Code 1599	/		Basin 1	Pool Name Dakota	•		_	
<sup>4</sup> Property C	ode				<sup>6</sup> Prop	perty N	lame			4 Wel	Number	
7139	/				HUE	JERFANO UNIT				211E	V	
TOGRED No	<b>D.</b>				• Ope	rator N	lame		/	, 2	levation	
14538	/		BUR	LINGTON I	RESOURCE	S OIL	_ & GAS COMPA	NY LP		<u></u>	5697	
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UL or lot no.	Section	T swaship	Range	Lot ldn	Feet from	the	North/South line	Feet from the	Kent	/West line		County
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Office ' -	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	
1625 N. French Dr., Hobbs, NM 88240	2 8,,	WELL API NO. 22677
District II	OIL CONSERVATION DIVISION	30-045- 550 10d
1301 W. Grand Ave., Artesia, NM 88210 District III		5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	6. State Oil & Gas Lease No.
District IV	Santa Fe, NM 87505	o. State Off & das Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMSF-079658
	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION		Handon Mais
PROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	Huerfano Unit
1. Type of Well:		8. Well Number
	Other	211E
2. Name of Operator		9. OGRID Number
	RCES OIL & GAS COMPANY LP	14538
3. Address of Operator	ET, FARMINGTON, NM 87402	10. Pool name or Wildcat  Basin Dakota
4. Well Location	ET, TARMINGTON, NW 67402	Dasin Dakota
Unit Letter M : 66		660 feet from the West line
Section 10	Township 26N Rng 10	W NMPM County San Juan
11. El	evation (Show whether DR, RKB, RT, GR, etc.) 6697'	
Pit or Below-grade Tank Application	or Closure	10-20-20-20-20-20-20-20-20-20-20-20-20-20
Pit type new drill Depth to Groundwat	er >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000'
	mil Below-Grade Tank: Volume	bbls; Construction Material
•	ppropriate Box to Indicate Nature of N	· •
NOTICE OF INT		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDI	AL WORK ALTERING CASING
<b></b>	<del>)</del>	NCE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING	CEMENT JOB
		<del></del>
OTHER: New Dri	II Pit X OTHER:	
OTHER: New Dri		give pertinent dates, including estimated date
13. Describe proposed or completed	operations. (Clearly state all pertinent details, and	
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# MEXICO 10, T-26-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW DATE: OCTOBER 27, 2005 & GAS COMPANY LP 660 FSL 660 FWL 등 HUERFANO UNIT No. 211E, BURLINGTON RESOURCES GROUND ELEVATION: 6697', SECTION



DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE:

Daggett Enterprises, Inc.

Sydeo er

Thome (505) 326-1772 · Fax (505) 326-8019 Surveying and Oil Fleid Services P. O. Box 15068 • Formington, NM 67401

NEW MEXICO L.S. 14831 CUSTLE BRESTOFE DATE: 11/04/03

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE:

# **OPERATIONS PLAN**

Well	Name:		
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HUERFANO UNIT 211E

Location:

660' FSL & 660' FWL, Section Sec 10 T26N R10W

San Juan County, New Mexico

Basin Dakota

Formation:

6697' GL

Elevation: 6256' GL

Surface	San Jose	1361'	
Ojo Alamo	1361'	1 <del>444</del> '	aquifer
Kirtland	1444'	2064'	gas
Fruitland Coal	2064'	2274'	gas
Pictured Cliffs	2274'	2441'	gas
Lewis	2441'	2664'	
Huerfanito Bentonite	2664'		
Chacra	3151'	3804'	gas
Massive Cliff House	3804'	3826'	gas
Menefee	3826'	4659'	gas
Massive Point Lookout	4659'	4955'	gas
Mancos Shale	4955'	5749'	
Upper Gallup	5749'	6653'	gas
Greenhorn	6653'	6710'	gas
Graneros	6710'	6757'	gas
Two Wells	6757'	6809'	gas
Paguate	6809'	6858'	gas
Upper Cubero	6858'	6865'	gas
Lower Cubero	6865'	6907'	gas
Encinal	6907'	6905'	gas
Total Depth:	6905'		gas

# Logging Program:

# Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

#### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Vis.	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120- 2541'	LSND	8.4 - 9.0	30 - 60	no control
2541 - 6905'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

#### Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	Wt.	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2541'	7" 2	20/23#	J-55
6 1/4"	0' - 6905'	4 1/2"	10.5#	J-55

#### Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u> Grade</u>
0' - 6905'	2 3/8"	4.7#	J-55

### BOP Specifications. Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

#### Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

#### Wellhead -

9 5/8" x 7" x 4 ½" x 2 3/8" x 2000 psi tree assembly.

#### General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

#### Cementing:

9 5/8" surface casing -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

# 7" intermediate casing -

Lead with 208 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

#### 7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/24 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 184 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (392 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 1444'. Two turbolating centralizers at the base of the Ojo Alamo @ 1444'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

#### 4 1/2" Production Casing -

Pump 286 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (566 cu.ft., 30% excess to achieve 100' overlap in  $4-1/2" \times 7"$  annulus). WOC a minimum of 18 hrs prior to completing.

#### Cementing: Continued

Cement float collar stacked on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

## Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

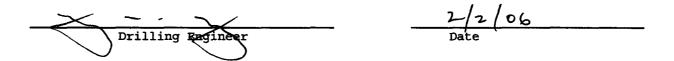
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

#### Additional Information:

- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The West half of Section 10 is dedicated to the Dakota Formation.
- \* This gas is dedicated.





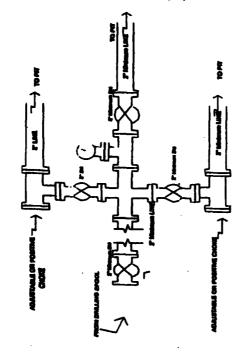
Drilling Rig Choks Manifold Configuration 2000 pal System

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Orilling Rig 2000 pel System

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Choice minibid healmaton from Bufface Casting Fout to Total Dupt. 2,000psi working pressure equipment with two chotes.

Figure #3

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Figure 91

Minimum BOP Installation for all Complation-Workowes Operations. 7-416° bors, 2000 pat minimum working pressure double gate BOP to be equipped with blind at pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working pressure or greater exchalding 600 pel stripping head.

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