## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR	RERMIT TO DRILL,	DEEPEN, OR PLUG BAC	2006 APR 25 AM
1a.	Type of Work DRILL	JUN 200		
1 b.	Type of Well GAS		たり ∮6. If Indian, All. o	r Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Co	ompany, LP	7. Unit Agreemer	nt Name
J.	Address & Phone No. of Operator PO Box 4289, Farmington		9. Well Number	Name ison SRC
	(505) 326-9700		#100	
4.	Location of Well Unit A (NENW), 885' FNL	& 1050' FEL,	10. Field, Pool, W Basin FC/ Glades F	
	Latitude 36° 53.3655'N Longitude 108° 04.7847'W	Sot	11. Sec., Twn, Rg ASec. 22, T311 API# 30-045- 3	N, R12W
14.	Distance in Miles from Nearest To	wn	12. County San Juan	13. State
5.	Distance from Proposed Location	to Nearest Property or	Lease Line	
6.	Acres in Lease	FC -	17. Acres Assign 297.04 E/2; FS & PC	
8.	Distance from Proposed Location	to Nearest Well, Drig,	Compl, or Applied for on this	Lease
9.	Proposed Depth 2986'		20. Rotary or Cat Rotary	ole Tools
21.	Elevations (DF, FT, GR, Etc.) 6324' GL		22. Approx. Date	Work will Start
23.	Proposed Casing and Cementing See Operations Rlan at			
24.	Authorized by: Sr. Staff/Sp.	MUSI/T- ecialist		4/24/06 Date
PERM	AIT NO.	APPR	OVAL DATE	· .
APPR	ROVED BY Manle	TITLE	AFY D.	ATE 6/2/86
<b>Threa</b> NOTE: Title 18	aeological Report attached Itened and Endangered Species Report This format is issued in lieu of U.S. BLM For B.U.S.C. Section 1001, makes it a crime for a any false, fictitious or fraudulent statements	orm 3160-3 any person knowingly and w	illfully to make to any department on the control of the control o	or agency of the United

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They will be a similar to taken head and government to 43 CFR 3165.3 and oppose, purposed to 45 CFR 3163.4

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

### State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

Submit to Appropriate District Office

DISTRICT II 811 South First, Artesia, N.M. 88210

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

2040 South Pacheco APR 25 AM 10 02 Santa Fe, NM 87505

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 71629 / 77410/71280 Basin Fruitland Coal, Glades FS, Aztec PC 30-045- 335 • Well Number <sup>4</sup>Property Code <sup>5</sup>Property Name 100 RICHARDSON SRC 18610 OGRID No. \*Operator Name \* Elevation BURLINGTON RESOURCES OIL AND GAS COMPANY LP 6324 14538

10 Surface Location

North/South line East/West line UL or lot no. Section Township Lot\_ldn Feet from the Feet from the County Range NORTH EAST SAN JUAN 22 885 1050' A 31-N 12-W

<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	Peet from the	East/West line	County
A									
12 Dedicated Acre	8		18 Joint or	hfill	<sup>14</sup> Consolidation (	ode	<sup>15</sup> Order No.		
FC 297.0	4 ac E	2			ĺ				
FS/PC 14	5.96 a	c NE4	]						

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

	S 87 11' 48' 4576.16'	LAT: 36'53.3655' N. LONG: 106'04.7847' W. NAD 1927	1050' 🐷	17 OPERATOR CER  I hereby certify that the informative true and complete to the best of better
LOT 4	LOT 3	LOT 2	LOT 1 3 8	
		USA SF-	LOT 1 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Signature Patsy Clugston Printed Name
LOT 5	LOT 6 2	2 <u>Lot 7</u>	LOT 8	Sr. Regulatory Sp Title 3/20/2006 Date
LOT 12	LOT 11		LOT 9	18 SURVEYOR CERT  I hereby certify that the well location was plotted from field notes of actual me or under my supervision, and the and correct to the best of my beliaf.  Date of Surveys R
				Signature and Sala Professional 15703
LOT 13	LOT 14	LOT 15	to <del>r 16</del>	Cartificate Number

RTIFICATION

pecialist

**FIFICATION** 

by

Office	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	Energy, withertais and ivaluation resources	WELL APINO
District II		30-045-2372
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV	<i>Samu</i> 1 0, 1 11 1 0 7 0 0 0	
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMSF-077651
	AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO		
DIFFERENT RESERVOIR. USE "APPLICATION	FOR PERMIT" (FORM C-101) FOR SUCH	Richardson SRC
PROPOSALS.)		O. W. HAY. A
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #100
	Other	
2. Name of Operator	OCES OIL & CAS COMBANY LD	9. OGRID Number
3. Address of Operator	RCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
<u> </u>	T, FARMINGTON, NM 87402	Basin FC / Glades FS / Aztec PC
4. Well Location	71, 1 ARMINGTON, INVI 67402	Dashi C / Glades 15 / Aztec 1C
Unit Letter A : 885	5' feet from the North line and	1050' feet from the East line
Section 22	Township 31N Range 12V	
	evation (Show whether DR, RKB, RT, GR, etc.)	
	6324' GL	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwate	r >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water >1000'
	nil Below-Grade Tank: Volume	bbls; Construction Material
12. Check Ap	propriate Box to Indicate Nature of No	tice, Report or Other Data
NOTICE OF INT	ENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON   REMEDIA	L WORK ALTERING CASING
TEMPORARILY ABANDON (	CHANGE PLANS COMMEN	CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB
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OTHER: New Dr		
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MOTE. VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR UNAMARKED BURIED
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNAMARKED BURIED

NOTE. VECTOR SHOULD CALL ONE-CALL FOR UNDERGROUND UTILITIES OR UNAMARKED BURIED

T-31- N, R-12-W, NMPM, SAN JUAN COUNTY, NM CES OIL & GAS COMPANY I . 2006 885' FNL & 1050' FEI 305' X 340' = 2.38 ACRES **d** 2494  $\mathbf{\epsilon}$ **(C)** DATE: MARCH1 AYDOWN N 47 E (T) Wellhead to front 50' CONSTRUCTION ZONE ъ. F +4 GROUND ELEVATION: 6324' wellhead to side RICHARDSON SRC #100 ,09 110, BURLINGTON RESOUR( Wellhead to back 120° 05' X 240 DIKE SECANDIDA . ΥZ **®** <del>ე</del>⊛ SECTION 22, ilo, 6 **Editing Access** 

LATITUDE: 36° 53.3655'N LONGITUDE: 108° 04.7847'W NAD27

RESERVE PIT DIKE. TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

### OPERATIONS PLAN

Well Name:

Richardson SRC #100

Location:

Unit A (NENE), 885' FNL & 1050' FEL, Section 22, T31N, R12W

San Juan County, New Mexico

Latitude 36° 53.3655'N Longitude 108° 04.7847' W

Formation:

Basin Fruitland Coal / Fruitland Sands & Pictured Cliffs

Elevation:

6324' GR

Formation:	Тор	Bottom	Contents
Ojo Alamo	1013'	1066'	aquifer
Kirtland	1066'	2336'	gas
T/Fruitland	2336'		gas
Pictured Cliffs	2786'		•
Total Depth	2986'		

Logging Program: None

### Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	Vis. Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control
120-2986'	Non-dispersed	8.4-9.5	30-60 no control

### Casing Program:

Hole Size	Depth Interval	<u>Csq.Size</u>	Wt.	<u>Grade</u>
8 <del>3</del> "	0 - 120'	7"	20.0#	J-55
6 ¼ "	0 - 2986'	4 1/2"	10.5#	J/K-55

### Tubing Program:

	0 - 2986	2 3/8"	4.7#	J-55
¢.				
4.6				

Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 1066'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1066'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment:  $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000 \text{ psi xmas tree assembly.}$ 

Cementing:

7" surface casing Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.28 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry @ 1.28 yield). 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.

WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 157 sx (335 cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 459 cf - 50% excess to circulate to surface.

### BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

### Additional information:

- \* The <u>Fruitland Coal</u>, <u>Fruitland Sands and Pictured</u> formations will be completed.
- \* Anticipated pore pressure for the Fruitland Coal is 600 700 psi.
- This gas is dedicated.
- \* The East half of the section is dedicated to the FC, and the NE/4 of the section is dedicated to the FS & PC for this well.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

**Drilling Engineer** 

13/2006 Date

# e rams. A stripping head to be installed on the top of BURLINGTON RESOURCES CompletionWorkover Rig BOP Configuration 2,000 pel 8ystem ms. 7-1/10" bore, 2000 patinat ure double gate BOP to be equ **BURLINGTON RESOURCES** Point to Total Dapol. 2,000pel working pres quipment with two chokes. 10-02-4 Burthgton Recourses 2000 pei System Drilling Rig Figure M 2 E

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# BURLINGTON RESOURCES OIL & GAS COMPANY LP RICHARDSON SRC 100, 885' FNL & 1050' FEL SECTION 22, T-31- N, R-12-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6324', DATE: MARCH 1, 2006

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NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.