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

#### APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a.	Type of Work DRILL	2005 AL	IG 24	PN 1	16	5. Lease Number NM-06738	18 28 22 23 24 Z	353
			RECE	EIVED		Unit Reporting N		.0
lb.	Type of Well GAS	070	FARMI	1107011	****	6. If Indian, All. or T	Pribe NOV 2005 RECEIVED OIL COMS. D	8
2.	Operator BURLINGTO RESOURCES	Oil & Gas C	ompany	LP		7. Unit Agreement I		( )
3.	Address & Phone No. o		87499			8. Farm or Lease No Sanchez 9. Well Number	ame	,=
	(505) 326-9700							
<b>1</b> .	Location of Well 735' FSL, 2570' F					3M 10. Field, Pool, Wild Blanco MV/Basi 11. Sec., Twn, Rge,	n DK <b>Mer. (NMPM)</b>	
Lati	tude 36 <sup>0</sup> 45.8080'N,	Longitude 1	.07 <sup>0</sup> 52	2.2662′	√ N	Sec. 34, T-30-	N, R-10-W 1 <b>2/L</b>	
14.	Distance in Miles from 4.15 PO in Blanc					12. County San Juan	13. State	
15.	Distance from Propose	d Location to Nea	rest Pro	perty or L	ease Li	ne		
16.	Acres in Lease					<b>17. Acres Assigned</b> 316.84 S		
18.	Distance from Propose	d Location to Nea	rest We	li, Drig, Co	ompl, or	Applied for on this L	ease	
19.	Proposed Depth 7020'					20. Rotary or Cable Rotary	Tools	
21.	Elevations (DF, FT, GR, 5949' GR, 5961' F					22. Approx. Date V	Vork will Start	
23.	Proposed Casing and C See Operations			.,,				
24.	Authorized by: Regul	pru Cl story Specia	Arl	<u></u>		Date	7/05	
	OVED BY	a 150	/ TITLE	APPRO	YAL DA	TE DAT	TE 11/21/8	<u>/</u>

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, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO SOME WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

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

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

DISTRICT III 1000 Rio Brazos Rd., Astec, N.M. 87410

OIL CONSERVATION DIVISION

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

2040 South Pacheco Santa Fe, NM 87505 24 PM 1 16

AMENDED DEDOPT

**Projectly Code				V	WELL L	OCATIO	N AND		REAGE FDEDI					*
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LOT 11

Office	State of New Mexico	Form C-103		
District I	Energy, Minerals and Natural Resources	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-33304		
1301 W. Grand Ave., Artesia, NM 8821		5. Indicate Type of Lease STATE FEE		
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	6. State Oil & Gas Lease No.		
District IV	Salat 1 0, 1 11 1 0 / 3 0 3			
1220 S. St. Francis Dr., Santa Fe, NM 8' SUNDRY NOTI	7505 CES AND REPORTS ON WELLS	NM-06738  7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSAL	LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A			
DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.)	TION FOR PERMIT" (FORM C-101) FOR SUCH	Sanchez		
1. Type of Well:		8. Well Number		
Oil Well Gas Well X  2. Name of Operator	Other	9. OGRID Number		
BURLINGTON RES	SOURCES OIL & GAS COMPANY LP	14538		
3. Address of Operator 3401 E. 30TH ST	REET, FARMINGTON, NM 87402	10. Pool name or Wildcat Basin Dakota/Blanco Mesaverde		
4. Well Location Unit Letter N:	735 feet from the South line and	2570 feet from the West line		
Section 34	Township 30N Range 10V			
11	Elevation (Show whether DR, RKB, RT, GR, etc.)			
Pit or Below-grade Tank Application	X or Closure	>200'<1000'		
Pit type New Drill Depth to Ground	dwater <a>&lt;100'</a> Distance from nearest fresh water well	>1000' Distance from nearest surface water		
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material		
12. Check	Appropriate Box to Indicate Nature of No	otice, Report or Other Data		
	INTENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIA CHANGE PLANS COMMEN	LL WORK		
PULL OR ALTER CASING		CEMENT JOB		
OTHER: Ne	ew Drill X OTHER:	П		
	eted operations. (Clearly state all pertinent details, and g			
of starting any proposed wor or recompletion.	k). SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion		
or recompletion.				
	construct a new drilling pit and an associated vent/flare			
Ecosphere's risk ranking criteria, the	he new drilling pit will be a lined pit as detailed in Burli	ngton's Revised Drilling / Workover Pit Construction /		
Ecosphere's risk ranking criteria, the Operation Procedures dated Novem	he new drilling pit will be a lined pit as detailed in Burli nber 11, 2004 on file at the NMOCD office. A portion	ngton's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and		
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LATITUDE

36' 45,8080

**LONGITUDE:** 

107' 52,2862' NAD27

**⊕**₹ 130 REAR 230' X 300' DIKE 130 <u>۾</u> ھٽ( Wellhead to side 330' X 400' = 3.03 ACRES 130 50' CONSTRUCTION ZONE

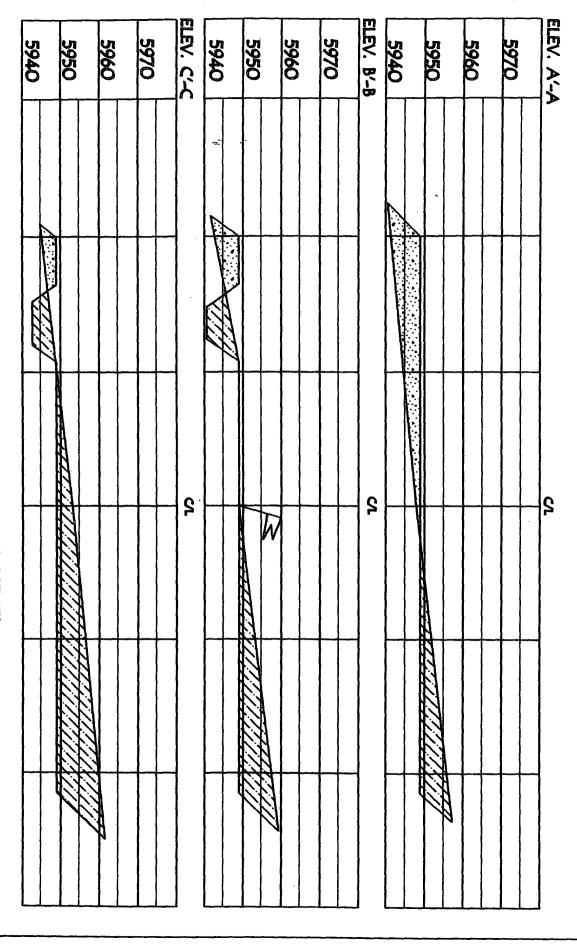
**UNE 15, 2005** 

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.

# SANCHEZ 3M, 73 SECTION 34, T-30- N, R-10-W, **BURLINGTON RESOURCES GROUND ELEVATION: 5949',** NMPM, DATE SAN JUAN COUNTY, NM JUNE 15, 2005 **COMPANY LP**



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

#### OPERATIONS PLAN

Well Name:

SANCHEZ 3M

Location:

735' FSL & 2570' FWL, Section 34 T30N R10W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation:

5949' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1128'	
Ojo Alamo	1128'	1276'	aquifer
Kirtland	1276'	2191'	gas
Fruitland Coal	2191'	2421'	gas
Pictured Cliffs	2421'	2558 '	gas
Lewis	2558'	3108'	
Huerfanito Bentonite	3108'		
Chacra	3418'	4113'	gas
Massive Cliff House	4113'	4161'	gas
Menefee	4161'	4711'	gas
Massive Point Lookout	4711'	5106'	gas
Mancos Shale	5106'	5935'	
Upper Gallup	5935'	6669'	gas
Greenhorn	6669'	6724'	gas
Graneros	6724'	6783'	gas
Two Wells	6783 <b>'</b>	6858 <b>*</b>	gas
Paguate	6858'	6919'	gas
Cubero	6919 <b>'</b>	6978 <b>'</b>	gas
Encinal	6978'	7020'	gas
Total Depth:	7020'		gas

#### Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CCL, CBL - surface to TD

#### Mud Program:

<u>Interval</u>	<u>Type</u>	Weight	Vis.	Fluid Loss
0 - 200'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
200 - 4311'	LSND	8.4 - 9.0	30 - 60	no control
4311 - 7020'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H - 40
8 3/4"	0' - 4311'	7"	20/23#	J-55
6 1/4"	0' - 7020'	4 1/2"	10.5#	J <b>-</b> 55

#### Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7020'	2 3/8"	4.7#	J <b>-</b> 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  $\frac{1}{2}$ " 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 147 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (187 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 376 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 (926 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/197 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 179 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (926 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 third joint off bottom, to the base of the Ojo Alamo @ 1276'. Two turbolating centralizers at the base of the Ojo Alamo @ 1276'. 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 175 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 (384 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 south half of Section 34 is dedicated to the Mesa Verde formation and Dakota formation.

• This gas is dedicated.

Drilling Engineer

123/05