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

	APPLICATION FOR PERMIT TO DRILL, D	EEPEN, OR PLUG BACK APR 13 PM	1 47
1a.	Type of Work DRILL	5. Lease Number  SF-078571  Unit Reporting Number AMMERICA	
1b.	Type of Well GAS	6. If Indian, All. or Tribe	724
2.	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name APR 2006	
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name Described Bay B 9. Well Number #4M	Fillia o
4.	Location of Well 1640' FNL, 1740' FWL Latitude 36 <sup>O</sup> 35.5420'N, Longitude 107 <sup>O</sup> 43	10. Field, Pool, Wildcat  Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) 4660'W F Sec. 7, T27N, R08W  API # 30-045-33704	ه المعالم
14.	Distance in Miles from Nearest Town 27.5 miles to Bloomfield, NM	12. County 13. State San Juan NM	_
15.	Distance from Proposed Location to Nearest Property or Le	se Line	<b>-</b>
16.	Acres in Lease	17. Acres Assigned to Well  W/2 320.44 acres MW/DK  320.44	
18.	Distance from Proposed Location to Nearest Well, Drlg, Co	npl, or Applied for on this Lease	_
19.	2213' Proposed Depth 7442'	<b>20. Rotary or Cable Tools</b> Rotary	
21.	Elevations (DF, FT, GR, Etc.) 6777' GR	22. Approx. Date Work will Start	_
23.	Proposed Casing and Cementing Program See Operations Plan attached		<del></del>
24.	Authorized by: Regulatory Specialist	2/12/06 Date	
	OVED BY Sales TITLE	VAL DATE	6

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

NO HPA NOTIFICATION NEEDED UNDER ORDER R-8768F.

DINLLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "CHREFAL REQUIREMENTS".



DISTRICT I 1625 N. Prench Dr., Hobbs, N.M. 86240

### 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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office
State Lease - 4 Copies
Second 1 47 Fee Lease - 3 Copies

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

2040 South Pachecons APR 13 Santa Fe, NM 87505

☐ AMENDED REPORT

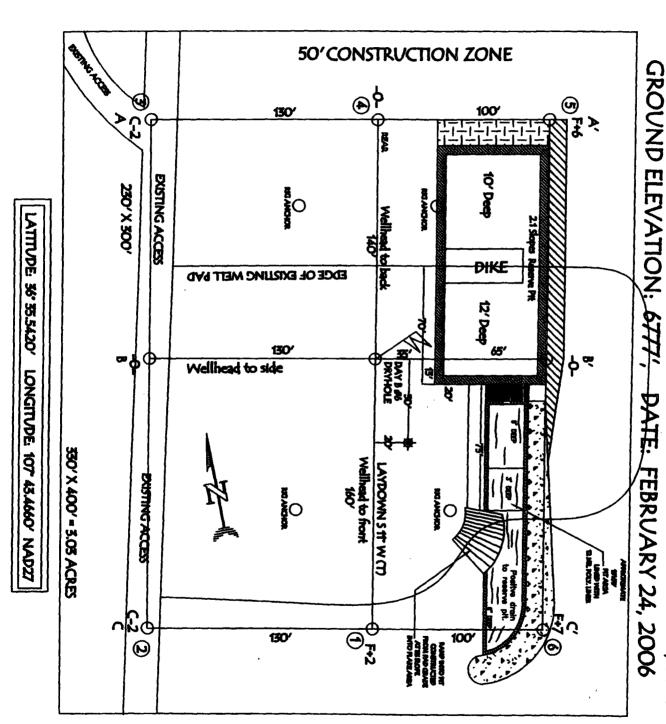
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED

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Property C	ode.	Ì			DAY	-			-	<b>4M</b> ∨
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Office District I		State of New	Mexico		Form C-103	
	rict I Energy, Minerals and Natural Resources				May 27, 2004	
1625 N. French Dr., Hobbs, NM 8 District II	25 N. French Dr., Hobbs, NM 88240			WELL API NO.	30-045- 33704	
301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION				5. Indicate Type of I		
District III		STATE	FEE			
1000 Rio Brazos Rd., Aztec, NM District IV	87410	Santa Fe, NN	A 87505	6. State Oil & Gas L	ease No.	
1220 S. St. Francis Dr., Santa Fe,	NM 87505			NMSF-078571		
SUNDRY (DO NOT USE THIS FORM FOR PRO		REPORTS ON WELL	_	7. Lease Name or Unit Agreement Name		
DIFFERENT RESERVOIR. USE "AP					Day B	
PROPOSALS.)						
1. Type of Well: Oil Well Gas We	ll X Other			8. Well Number	4M	
2. Name of Operator	n A One		<del> </del>	9. OGRID Number	7171	
BURLINGTO	N RESOURCES	OIL & GAS COMPAN	Y LP	14538		
3. Address of Operator 3401 E. 30	TH STREET, FA	RMINGTON, NM 874	02	10. Pool name or Wildcat Basin Dakota / Blanco Mesaverde		
4. Well Location						
Unit Letter F Section 7	1640'	feet from the No. 27N	orth line and Rng 8W	1740' feet from NMPM	the West line County San Juan	
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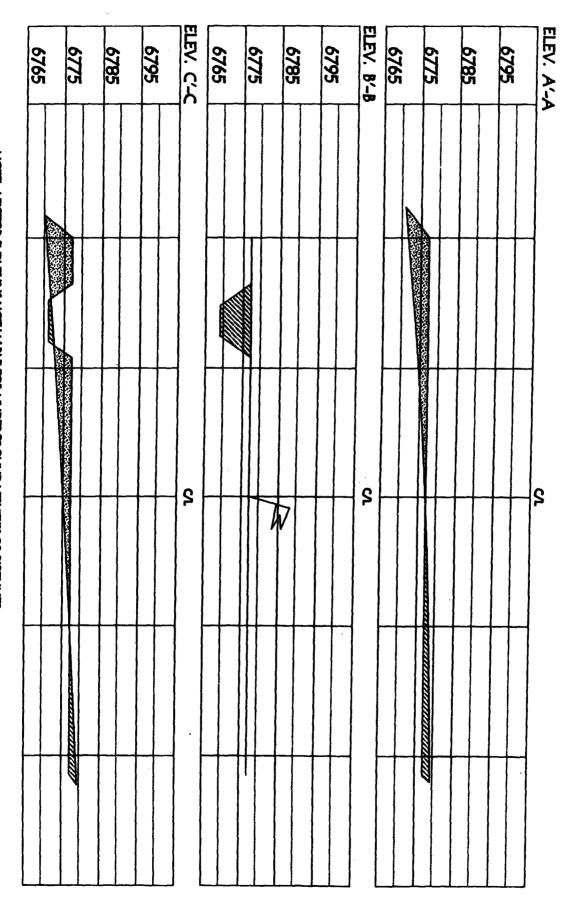
NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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.

1740' FWL SAN JUAN COUNTY, NM

# BURLINGTON RESOURCES OIL & GAS COMPANY LP DAY B 4M, 1640' FNL & 1740' FWL SECTION 7, T-27-N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6777', DATE: FEBRUARY 24, 2006



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. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

#### OPERATIONS PLAN

Well Name: DAY B 4M

Location: 1640' FNL & 1740' FWL, Section 7 T27N R08W

San Juan County, New Mexico

Formation:

Elevation: Blanco Mesaverde/Basin Dakota

6777' GL

Surface	San Jose		
Surface	San Jose	1980'	
Ojo Alamo	1980'	2061'	aquifer
Kirtland	2061'	2630'	gas
Fruitland	2630'	2885'	gas
Pictured Cliffs	2885'	3005'	gas
Lewis	3005'	3404'	_
Huerfanito Bentonite	3404'	3832'	
Chacra	3832'	4539'	gas
Massive Cliff House	4539'	4566'	gas
Menefee	4566'	5167'	gas
Massive Point Lookout	5167'	5519'	gas
Mancos Shale	5519'	6352'	
Upper Gallup	6352'	7127'	gas
Greenhorn	7127'	7183'	gas
Graneros	7183'	7246'	gas
Two Wells	7246'	7299'	gas
Paguate	7299'	7353'	gas
Cubero	7353'	7432'	gas
Encinal	7432'	7442'	gas
Total Depth:	7442'		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>	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air	8.4 - 9.0	40 - 50	no control
120- 3105'	LSND	8.4 - 9.0	30 - 60	no control
3105 - 7442'	Air/Air Mist/Nit	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3105'	7"	20/23#	J-55
6 1/4"	0' - 7442'	4 1/2"	10.5#	J-55

#### Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7442'	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  $\frac{1}{2}$ " 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 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 268 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: 244 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (519 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 @ 2061'. Two turbolating centralizers at the base of the Ojo Alamo @ 2061'. 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 284 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 (562 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Operations Plan - Page Four

#### 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:

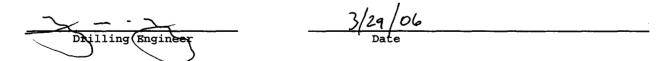
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- · The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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 7 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.



# **BURLINGTON RESOURCES**

## **Burlington Resources**

2000 psi System Drilling Rig

ROTATING HEADS Seat and the

Figure #1

4-20-01

Drilling Rig Choke Manifold Configuration 2000 pai System

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**₹⊗**₹

Point to Total Depth. 2,000pul working pressure Choke menitoid installation from Surface Cesting present with two chates.

Figure #3

finimum BOP installation for all Completion-Workover

pressure double gate BCP to be equipped with blind and he BOP. All BOP equipment is 2000 pel working perame. A stripping need to be installed on the top of re or greater excluding 500 pel stripping head.

Operations. 7-1/16" bors, 2000 pel minimum working

4-20-01

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**BURLINGTON RESOURCES** 

Completion/Workover Rig BOP Configuration 2,000 pai System