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



	APPLICATION FOR PERMIT TO DRILL, DEI	EPEN, OR PLUG BACK
1a.	Type of Work  DRILL  RECEIVED  OTO FARMINGTON	5. Lease Number NMSF-078384 Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESQUECES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Newsom B 9. Well Number
	(505) 326-9700	#7N
4.	Location of Well Unit F (SENW), 1620' FNL, 1900' FWL	10. Field, Pool, Wildcat Basin Dakota
	Latitude 36° 30.2771'N Longitude 107° 42.4439'W	11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 8, T26N, R8W  API # 30-045-33880
14.	Distance in Miles from Nearest Town 31.7 miles to Bloomfield, NM	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease	Line
16.	Acres in Lease	17. Acres Assigned to Well 320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl 1120' - Newsom B #7	I, or Applied for on this Lease
19.	Proposed Depth 6699'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6329'GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Tynomac Analyst Regulatory Analyst	<u>8-2-0φ</u> Date
PERM	IT NO. APPROVAL	L DATE
APPRO	OVED BY DIFF (And less ) TITLE	FEM DATE \$/10/06
Threat	eological Report attached tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3	

NMOCD

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.

Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

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

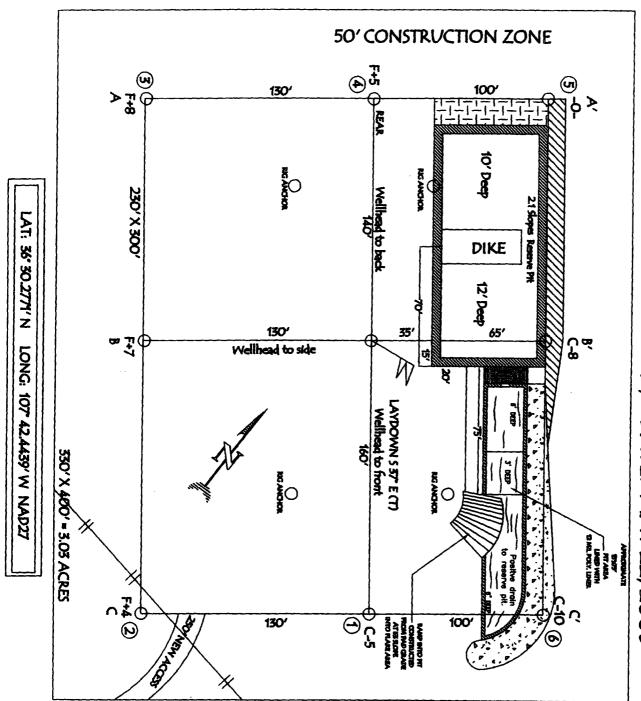
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

**Property Code**  **Postate Code**  **Postat					<sup>2</sup> Pool Code <sup>3</sup> Pool Name							
7363  NEWSOM B  1020 No. 14538  BURLINGTON RESOURCES OIL AND GAS COMPANY LP  105 SUrface Location  Ut or lot no. Section Township Sange Lot ldn Peet from the Morth/South line Peet from the Bast/West line Country  10 SUrface Location NORTH 1900' WEST SAN JUAN  11 Bottom Hole Location If Different From Surface  Ut or lot no. Section Township Sange Lot ldn Peet from the Morth/South line Peet from the Bast/West line Country  10 Bottom Hole Location If Different From Surface  Ut or lot no. Section Township Sange Lot ldn Peet from the Morth/South line Peet from the Bast/West line Country  10 Bottom Hole Location If Different From Surface  Ut or lot no. Section Township Sange Lot ldn Peet from the Morth/South line Peet from the Bast/West line Country  10 Bottom Hole Location If Different From Surface  11 Bottom Hole Location If Different From Surface  12 Bottom Hole Location If Different From Surface  13 Bottom Hole Location If Different From Surface  14 Canadidated Acres Hole Research In Country  15 Bottom Hole Location If Different From Surface  16 Canadidated Acres Hole Research In Country  16 Canadidated Acres Hole Research In Country  17 OPERATOR CERTIFICATION In Lat. 13 Survey In Clark  18 Bottom Hole Location In Country  18 Bottom Hole Location In Country  19 Bottom Hole Location In Country  19 OPERATOR CERTIFICATION In Lat. 18 Survey In Clark  19 Survey Or Certificate calculation of the Survey In Country  10 Clark  10 Survey Or Certificate Country  10 Clark  10 Survey Or Certification In Survey In Country  10 Clark  10 Survey Or Certification In Country  10 Clark  10 Survey Or Certification In Survey In Country  10 Clark  10 Survey Or Certification In Survey In Country  10 Canadidated Country In Survey In Country  10 Canadidated Country  10 Canadidated Country  11 Survey Or Certification In Survey In Country  12 Survey Or Certification In Survey In Country  13 Survey Or Certification In Survey In Country  14 Survey Or Certification In Survey In Country  15 Survey Or Certification In Survey In Country  16 Surve	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			<u></u>				kota	a			
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Submit 3 Copies To Appropriate District 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- 33880
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
<u>District III</u>	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 1220 S. St. Francis Dr., Santa Fe, NM 8750	5	
	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION	TO DRILL OR TO DEEPEN OR PLUG BACK TO A N FOR PERMIT" (FORM C-101) FOR SUCH	Newsom B
PROPOSALS.)	(	i vewsoni b
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #7N
2. Name of Operator	Ollie	9. OGRID Number
BURLINGTON RESO	URCES OIL & GAS COMPANY LP	14538
3. Address of Operator	CET EARMINGTON NIM 97402	10. Pool name or Wildcat  Basin Dakota
4. Well Location	EET, FARMINGTON, NM 87402	Dasiii Darota
	620' feet from the North line and	1900' feet from the West line
Section 8	Township 26N Range 8W Elevation (Show whether DR, RKB, RT, GR, etc.)	NMPM County San Juan
	6329'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa	<del>*************************************</del>	>1000' Distance from nearest surface water <1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material
	Appropriate Box to Indicate Nature of Not	-
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIA CHANGE PLANS COMMEN	L WORK ALTERING CASING CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	<b>├──</b>	EEMENT JOB
OTHER: New	Drill X OTHER:	
	Drill X OTHER: d operations. (Clearly state all pertinent details, and g	rive pertinent dates, including estimated date
	SEE RULE 1103. For Multiple Completions: Attac	
or recompletion.		
Name Double I hands		
New Drill, Lined:		
Burlington Resources proposes to con	nstruct a new drilling pit and an associated vent/flare	oit. Based on Burlington's interpretation of the
		ngton's Revised Drilling / Workover Pit Construction /
		of the vent/flare pit will be designed to manage fluids and
Pit Closure Procedure dated August 2		closing these pits according to the Drilling / Workover
The chosard Tropodate dated Adgust 1	, 200 For the at the 14410-cb office	
	ve is true and complete to the best of my knowledge a	
grade tank has been/will-be constructed or close	d according to NMOCD guidelines $igsqcup$ , a general permit $igsqcup$	or an (attached) alternative OCD-approved plan .
SIGNATURE STULL	TITLE Re	gulatory Analyst DATE 6/27/2006
Type or print name  For State Use Only	Clark E-mail address: <u>iclark@t</u>	or-inc.com Telephone No. 505-326-9701
APPPROVED BY	FILL THE COMMENTER AND S. O.	AS INSPECTOR, DIST. 🚱 DATE AUG 1 4 2006
Conditions of Approval (if any):	THE BETTON WILL GO	DATE
	$\mathscr{G}$	

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.



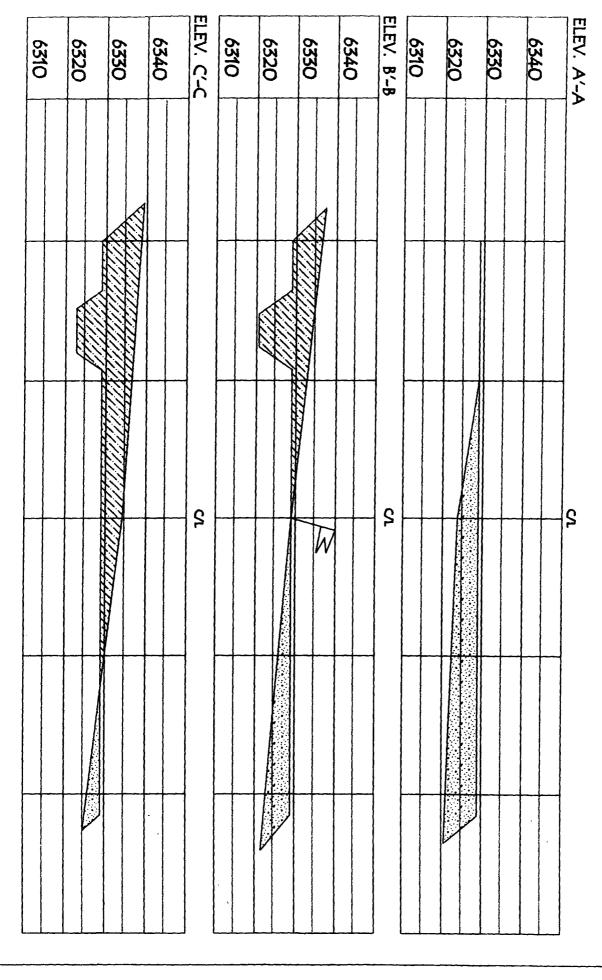
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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.

GROUND ELEVATION: 6329' ZAPA, , with 200 or

# BURLINGTON RESOURCES OIL & GAS COMPANY LP NEWSOM B 7N, 1620' FNL & 1900' FWL SECTION B, T26N, RBW, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6329', DATE: MAY 22, 2006



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

### OPERATIONS PLAN

Well Name: Newsom B #7N

Location: 1620'FNL, 1900' FWL, Section 8, T-26-N, R-08-W

San Juan County, New Mexico

Latitude 36° 30.2771', Longitude 107° 42.4439'

Formation: Basin Dakota

Elevation: 6329'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1349'	
Ojo Alamo	1349'	1451'	aquifer
Kirtland	1451'	1931'	gas
Fruitland	1931'	2111'	
Pictured Cliffs	2111'	2246'	gas
Lewis	2246′	2556′	gas
Huerfanito Bentonite	2556′	2986′	gas
Chacra	2986′	3668'	gas
Cliff House	3668′	3734'	
Menefee	3734'	4408'	gas
Point Lookout	4408'	4730'	gas
Mancos	4730'	5541'	gas
Gallup	5541'	6381'	gas
Greenhorn	6381'	6434'	gas
Graneros	6434'	6469'	gas
Two Wells	6469′	6544′	
Paguate	6544′	6602′	
Cubero	6602′	6679′	
Encinal	6679′	6699′	gas
TD	6699′		

### Logging Program:

Mud Logs/Coring/DST -

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray - surface to TD

### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 300'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
300'- 6699'	LSND	8.4-9.0	30-60	no control

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

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 300'	8 5/8" 24.0#	J-55
7 7/8"	0' - 6699'	4 1/2" 10.5#	J-55

<u>Tubing Program:</u> 0' - 6699' 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 -

 $8 \ 5/8$ " 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:

8 5/8" surface casing conventionally drilled Cement with 321 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride.
(200% excess, bring cement to 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.

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

4 1/2" Production Casing Two Stage 
Stage collar set @ 4258'. First Stage: Lead with w/269 sacks Premium Lite HS FM cmt
w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. Second Stage: 460
sacks Premium Lite cmt w/3% calcium chloride, 0.4% metasilicate, 0.25 pps celloflake,
5 pps LCM-1 and 0.4% FL-52. (2259 cu ft - 50% excess, circulate to surface, run
CBL/temperature survey if cement is not circulated to surface.)

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every fourth joint off bottom, to the base of the Ojo Alamo @ 1451'. Two turbolating centralizers at the base of the Ojo Alamo 1451'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

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

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.

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

- 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 Dakota formation will be completed.
- 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 2500 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 8 is dedicated to the Dakota formation.
- This gas is dedicated.

Drilling Engineer

ate

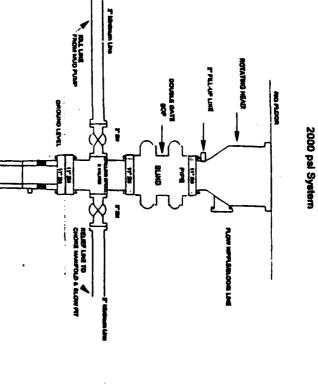
Completion/Workover Rig BOP Configuration 2,000 psi System

## Drilling Rig Choke Manifold Configuration 2000 pel System



**Burlington Resources** 

**Drilling Rig** 



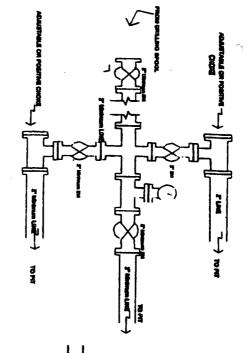
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Figure #1

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Point to Total Depth. 2,000pel working preseure Choice manifold betailedon from Surface Casing

Figure #3



Minimum BOP installation for all CompletionsWorkover

the BOP. All BOP equipment is 2000 pel working pipe rams. A stripping head to be installed on the top of pressure double gate BOP to be equipped with blind and Operations. 7-1/16" bors, 2000 pel minimum working saure or greater excluding 600 pel stripping head.

Figure #2

4-20-01