UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO	DRILL, DEEPEN, OR PLUG BACK
1a.	Type of Work DRILL	5. Lease Number 0 11 4 1 SF-079266 Unit Reporting Number VED
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESCURCES Oil & Gas Company LP	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Vaughn 9. Well Number #12N
4.	Location of Well Unit E (SWNW), 1430' FNL & 660' FWL	
/	Latitude 36° 27.6700'N Longitude 108° 26.6030'W	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 26, T26N, R6W API # 30-039- 30022
14.	Distance in Miles from Nearest Town 48.8 miles to Bloomfield, NM	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Prope	rty or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well W/2 MV/DK 320
18.	Distance from Proposed Location to Nearest Well, 1263' Vaughn #12M	Drig, Compl, or Applied for on this Lease
19.	Proposed Depth 7092'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6352' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	ulled old lac
	Authorized by: Manual Manual Regulatory Analyst IT NO. OVED BY Manual	APPROVAL DATE ATM Date 1 100 Date
Archa Threa	eological Report attached tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3	DATE 1/18/0

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appearance last to 43 CFP 3165.4

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.

This well is NOT in the HPA area. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "CENERAL REQUIREMENTS". DISTRICT I 1025 N. French Dr., Hobbs, M.M. 38240 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Arvecia, N.M. 89210

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. 37410

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

³ Pool Code Spool Name 30-039-30022 71599/72319 Basin Dakota / Baanco Mesaverde			
⁴ Property Code		⁶ Property Name	
7623	VAUGHN		12N
OGRID No.		⁸ Operator Name	[?] Elevation
14538	BURLINGTON RESOU	RCES OIL AND GAS COMPANY LP	6352'

¹⁰ Surface Location

					Duriuce	Document			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	26	26-N	6-W		1430'	NORTH	660′	WEST	RIO ARRIBA
			11 Botte	om Hole	Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E									1
¹² Dedicated Acre	8		18 Joint or	İnfill	" Consolidation C	ode	¹⁵ Order No.		
MV/DK 32	0.0 ac	W2							

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

OR A NON-ST	ANDARD UNIT HAS BEEN APPROVED BY	THE DIVISION
N 89" 49" 14" E 2663.36"		17 OPERATOR CERTIFICATION I horeby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretafore entered by the division.
LAT: 36'27'.6700' N. LONG: 107'28.6030' W. NAD 1927 LAT: 36'27'40.2' N. LONG: 107'26'38.3" W. NAD 1983		Signature Philana Thompson Printed Name
USA SF-079266		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this pla was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my bolisi. Date of Survey
		Signature of Seattle Forestonia Surveyor:

Submit 3 Copies To Appropriate District Office District I		ew Mexico		Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	2.		WELL API NO.	
1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South S	ATION DIVISION St. Francis Dr. NM 87505	5. Indicate Type of Lease STATE 6. State Oil & Gas Lease No.	FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87:			Federal Lease - S	E 070266
	CES AND REPORTS ON WE	LLS	7. Lease Name or Unit Agreem	
(DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICATI PROPOSALS.)			Vaughn	I
1. Type of Well: Oil Well Gas Well X 2. Name of Operator	Other		8. Well Number 12N 9. OGRID Number	
· ·	OURCES OIL & GAS COMP	ANY LP	9. OORID Number 14538	
3. Address of Operator	REET, FARMINGTON, NM 8	27402	10. Pool name or Wildcat Mesaverde / I	Pakota
4. Well Location Unit Letter <u>E</u> :	1430' feet from the	North line and	660' feet from the	West line
	Township 2 . Elevation (Show whether DR.	6N Rng 6W , RKB, RT, GR, etc.)	NMPM County	Rio Arriba
Pit or Below-grade Tank Application	or Closure			
Pit type New Drill Depth to Ground Pit Liner Thickness:	water <100 Distance from mil Below-Grade Tan	nearest fresh water well k: Volume	>1000 Distance from nearest s	surface water <1000
			tice, Report or Other Data	
	NTENTION TO:		SUBSEQUENT REPOR	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIA	L WORK A	LTERING CASING
TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS MULTIPLE COMPL		CE DRILLING OPNS. P	AND A
				۳-
13. Describe proposed or complete	w Drill ted operations. (Clearly state a		rive pertinent dates, including est	imated date
			ch wellbore diagram of proposed	
		SEP 2006		
New Drill, Unlined:				
New Billi, Chimed.		(E) 1-		
Burlington Resources proposes to c Ecosphere's risk ranking criteria, th Workover Pit Construction / Operat designed to manage fluids, and that according to the Drilling / Workove	ne new drilling pit and vent/flant tion Procedures dated Novemb portion will be unlined, as per	re pit will be an unlined per 11, 2004 on file at the the risk ranking criteria.	oit as detailed in Burlington's Rev NMOCD office. A portion of the Burlington Resources anticipate	ised Drilling / e vent/flare pit will be
I hereby certify that the information ab grade tank has been/will be constructed or clo				
SIGNATURE //w//////////////////////////////////	Muyy	TITLE Res	gulatory Analyst D	ATE 7/12/2006
Type or print name Philana For State Use Only	a Thompson E-mail	address: pthompson(@br-inc.com Telephone No.	505-326-9700

APPPROVED BY
Conditions of Approval (if any):

TITLE DATE OR & GAS INSPECTOR, DIST. DATE SEP 2 0 2006

MINIMES OF CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

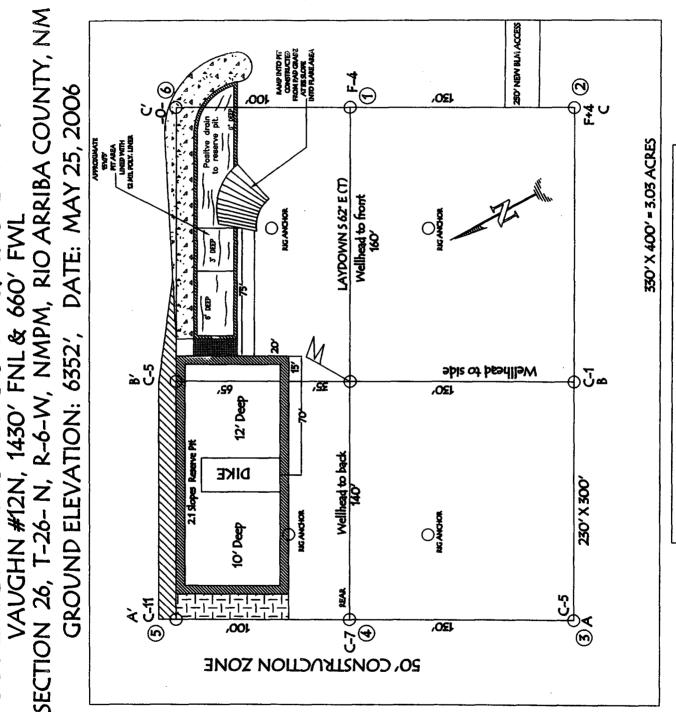
WOTE, VECTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR VIMARRED BURIED

WOTE, VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND VILLENST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

107 26.6030 W NADZZ

36° 27.6700'NLONGITUDE:

LATITUDE



BURLINGTON RESOURCES OIL & GAS COMPANY LP

FEZEKAE BIL DIKE: 10 BE 8, VBOAE DEED SIDE (ONEBLOOM - 3, MIDE YAD 1, VBOAE SHYTTOM SIDE):

BURLINGTON RESOURCES OIL & GAS COMPANY LP SECTION 26, T-26- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6352', DATE: MAY 25, 2006 VAUGHN #12N, 1430' FNL & 660' FWL

6360 6360 6340 EIEV. B'-B 6370		
6340 ELEV. B'-B 6370		
6340 ELEV. B'-B 6370		
6570 K2KO		
0/29	3	
VZZY V		
- C4440		
	M	
6350		
6340		
ELEV. C'-C	25	
0229		
0929		
9250		
6340		

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:

VAUGHN 12N

Location:

1430' FNL & 660' FWL, Section Sec 26 T26N R06W

Rio Arriba County, New Mexico

Formation:

Basin Dakota/Blanco Mesaverde

Elevation:

6352' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2019'	
Ojo Alamo	2019'	2179'	aquifer
Kirtland	2179'	2484'	gas
Fruitland Coal	2484'	2636'	gas
Pictured Cliffs	2636'	2759'	gas
Lewis	2759'	3069'	
Huerfanito Bentonite	3069'		
Chacra	3511'	4284'	gas
Massive Cliff House	4284'	4319'	gas
Menefee	4319'	4864'	gas
Massive Point Lookout	4864'	5209'	gas
Mancos Shale	5209'	5939'	
Upper Gallup	5939'	6778'	gas
Greenhorn	6778 י	6832'	gas
Graneros	6832'	6873 '	gas
Two Wells	6873 '	6986'	gas
Upper Cubero	6986'	7019'	gas
Lower Cubero	7019'	7092'	gas
Encinal	7092 '	7092 '	gas
Total Depth:	7092'		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:

Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
<u>Interval</u> 0 - 120 0 120- 2859'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120- 2859'	LSND	8.4 - 9.0	30 - 60	no control
2859' - 7092''	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Ć. HARRADEN/ August 9, 2006

' BURLINGTON RESOURCES/ Vaughn #12N APD STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the fresh water alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

Page Two

Operations Plan - VAUGHN 12N

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	Depth Interval	9 5/8"	32.3#	H-40
8 3/4"	0' - 2859'	7"	20#	J-55
6 1/4"	0' - 8052'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 8052'	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, BOPE 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, BOPE 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.

<u>General -</u>

- 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 Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 per sack before pressure testing or drilling out from under sunface.

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 241 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/13 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: 228 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (638 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 @ 2179'. Two turbolating centralizers at the base of the Ojo Alamo @ 2179'. 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 277 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 (548 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 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:

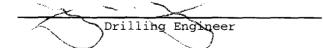
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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.
- ullet The W/2 half of Section 26 is dedicated to the MV/DK formation
- This gas is dedicated.



7/14/06 Date

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 psi System

Drilling Rig Choke Manifold Configuration 2000 pel System

Burlington Resources

Drilling Rig 2000 psi System

POR PLUODS

2000 CONTRIBUTE ON FORESTRANDO AND EAST OF THE PROPERTY OF THE

2 2

S FELLUP LINE

ROTATING HEAD;

DOUBLE GATE

Course frammed exemption from burness Castry Point to Total Daph. 2,000pal working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

Minimum BOP installation for ell Compistion/Workover Operations. 7-4/16" bore, 2000 pel minimum working pressure double gate BOP to be equipped with blind end pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working pressure or greater excluding 600 pel ethipping head.

Figure #2

10-02-9

0-70