UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



	APPLICATION FOR PERMIT TO DRILL, I	DEEPEN, OR PLUG BACK
1a.	Type of Work	5. Lease Number
	DRILL	NMSF-079266 RECEIVED
		Unit Reporting Number
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS	\sqrt{c}
2.	Operator	7. Unit Agreement Name
	BURLINGTON	•
	RESOURCES Oil & Gas Company	
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Vaughn
		9. Well Number
	(505) 326-9700	#8M
4.	Location of Well	10. Field, Pool, Wildcat
	Unit G (SWNE), 1945' FNL, 1965' FEL	Blanco Mesaverde/ Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 27.5858'N	G Sec. 26, T26N, R6W
	Longitude 1070 26.0578'W	O ₁
	•	API# 30-039- 3002
14.	Distance in Miles from Nearest Town	12. County 13. State
	52.1 miles to Bloomfield, NM	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Le	ase Line
	1945'	
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2 MV/DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Co	mpl, or Applied for on this Lease
	542'- Vaughn #29	
19.	Proposed Depth	20. Rotary or Cable Tools
	7395′	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6641'GL	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
24.	Authorized by: \ Aymama \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8-7-06
24.	Regulatory Analyst	Date
	Regulatory Analyst	Date
DERM	IIT NO. APPRO	VAL DATE
	AFFRO	1
APPR	OVED BY SHIP CINES TITLE	TM DATE 9/19/8
Archa	seological Report attached	
	itened and Endangered Species Report attached	
NOTE:	This format is issued in lieu of U.S. BLM Form 3160-3	
Title 1	8 U.S.C. Section 1001, makes it a crime for any person knowingly as	nd 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.

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

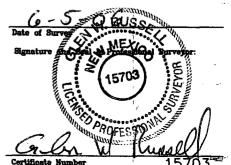
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT IV 1220 S. St. Frenci	s Dr., Sant	a Fe, NM 87 5	: 505								amen	DED REPORT	
		-		OCATIO	N AND	ACREA	GE DEDI	CAT	ION PL	AT			
	Number			³ Pool Code					³ Pool Nam	e]	
30-039-	7231	72319/71599 Blanco Mesaverde / Basin Dakota											
⁴ Property C			⁵ Property Name								⁶ Well Number		
7623				VAUGHN								8M	
OGRID No).				⁶ Ope	rator Name						Elevation	
14538			BURL	INGTON RI	ESOURCES	OIL AND	GAS COMPA	I YM	. P		. 6	3641'	
			3		10 Surf	ace Loc	ation				3		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		th/South line	Feet	from the	East/West	line	County	
G	26	26-N	6-W	<u> </u>	1945		NORTH	:	1965'	EAST	· · ·	RIO ARRIBA	
	,		¹¹ Bott	om Hole	Locati	on If Di	fferent Fr	om l	Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the No	th/South line	Feet	from the	East/West	line	County	
G	<u></u>	L	***	<u> </u>				100		L		<u> </u>	
12 Dedicated Acre	8		¹⁸ Joint or	Infill	¹⁴ Consolide	ation Code		10 OF	der No.				
MV/DK 320	0.0 ac	E2]					
		ILL BE A									EN CC	NSOLIDATED	
.6		OR A N	ON-STA	NDARD	UNIT HAS	BEEN	APPROVED	BY	THE DIV	ISION		· · · · · · · · · · · · · · · · · · ·	
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	ļ	4.1	:		1945	- 1			has a right to a contra	to drill this u ct with an own	vell at th ser of su	is location purvuent ch a mineral or	
	1			li li	5		•	88	or a compu	interest, or to leary positing o	a volunta rder here	ch a mineral or iry pooling agreement tofore entered by the	
			<u> </u>					8 15 H					
				l.	l	į	•	⁴ 5.			_		
		LAT: 3627	'.5858' N. '26.0578' W					640		\ <u>.</u>	100	N. P	
	}	NAD 1927	20.0070 #	· 1	V	19	65'	_	Signatur		<u> </u>	vu	
		LAT: 36'27	"35.2" N.							Clark			
	1	NAD 1983	726'05.6" W.			Ì		`	Printed	Name			
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				26 —				\dashv					
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USA SF-079266

SURVEYOR CERTIFICATION



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. 30-039- 3002
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 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 8750	5	NMSF-079266
	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATIO		Vaughn
PROPOSALS.)		
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number
2. Name of Operator	Ollo	9. OGRID Number
BURLINGTON RESO	URCES OIL & GAS COMPANY LP	14538
3. Address of Operator	EET, FARMINGTON, NM 87402	10. Pool name or Wildcat Blanco Mesaverde/ Basin Dakota
4. Well Location	EET, PARMINGTON, NW 87402	Bianico Mesaverde/ Basin Dakota
	945 feet from the North line and	1965 feet from the <u>East</u> line
Section 26	Township 26N Rng 6W Elevation (Show whether DR, RKB, RT, GR, etc.)	NMPM County Rio Arriba
	6641'	
Pit or Below-grade Tank Application	or Closure	·
Pit type New Drill Depth to Groundw		>1000' Distance from nearest surface water >1000'
Pit Liner Thickness:	mil Below-Grade Tank: Volume	bbls; Construction Material
The state of the s	Appropriate Box to Indicate Nature of No	tice, Report or Other Data
NOTICE OF IN	I	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIA CHANGE PLANS COMMEN	LL WORK ICE DRILLING OPNS. ALTERING CASING ALTERING CASING P AND A
PULL OR ALTER CASING		CEMENT JOB
OTHER: New	Drill X OTHER:	
	d operations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
2	SEE RULE 1103. For Multiple Completions: Attack	ch wellbore diagram of proposed completion
or recompletion.	SEE RULE 1103. For Multiple Completions: Atta	
2	SEE RULE 1103. For Multiple Completions: Attack	
2	SEE RULE 1103. For Multiple Completions: Attack	
2	SEE RULE 1103. For Multiple Completions: Attack	
or recompletion.	SEE RULE 1103. For Multiple Completions: Attack	
2	SEE RULE 1103. For Multiple Completions: Attack	
or recompletion. New Drill, Unlined: Burlington Resources proposes to co	nstruct a new drilling pit and an associated vent/flare	ch wellbore diagram of proposed completion pit. Based on Burlington's interpretation of the
or recompletion. New Drill, Unlined: Burlington Resources proposes to co Ecosphere's risk ranking criteria, the	nstruct a new drilling pit and an associated vent/flare new drilling pit and vent/flare pit will be an unlined	pit. Based on Burlington's interpretation of the pit as detailed in Burlington's Revised Drilling /
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50' CONSTRUCTION ZONE ION 26, T-26- N, (P) 130' GROUND ELEVATION: -6641', a a 10' Deep 230' X 300 DIKE R-6-W, NMPM, 12' Deep 130 65' æŬ(Wellhead to side DATE: MAY 31, 2006 RIO ARRIBA COUNTY, NM 330' X 400' = 3.03 ACRES AYDOWN N 53" E (T) Wellhead to front 160' SAS COMPANY LP BIG ANGLOR $\overline{\Theta}_{\overleftarrow{\rho}}$ 130 500' NEW FEE ACCES **(b)**

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.

LATITUDE: 36' 27.5858'N LONGITUDE: 107' 26.0578'W NAD27

BURLINGTON RESOURCES OIL & GAS COMPANY LP VAUGHN #8M, 1945' FNL & 1965' FEL

SECTION 26, T-26-N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6641', DATE: MAY 31, 2006

6630	6640	6650	6660	ELEV. C'-C	6630	6640	6650	6660	ELEV. B'-B	0000		6640	6650	6660		ELEV. A'-A
A : 0 : 0	D .										-0.00					
				S			7.77		\$						- C	S
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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 SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

Well Name:

VAUGHN 8M

Location:

1945' FNL & 1965' FEL, Section Sec 26 T26N R06W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation: 6641' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2373'	4
Ojo Alamo	2373 '	2493'	aquifer
Kirtland	2493'	2773 '	gas
Fruitland Coal	2773 '	2945'	gas
Pictured Cliffs	2945'	3050'	gas
Lewis	3050'	3378'	
Huerfanito Bentonite	3378'		
Chacra	3823'	4605'	gas
Massive Cliff House	4605'	4633'	gas
Menefee	4633'	5198'	gas
Massive Point Lookout	י 5198	5528'	gas
Mancos Shale	5528'	6255'	
Upper Gallup	6255'	7082'	gas
Greenhorn	7082'	7133'	gas
Graneros	7133'	7165'	gas
Two Wells	7165'	7289 '	gas
Upper Cubero	7289'	7322'	gas
Lower Cubero	7322 '	7395'	gas
Encinal	7395'	7395 '	gas
Total Depth:	7395'		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>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3150'	LSND	8.4 - 9.0	30 - 60	no control
3150' - 7395'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

and the

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' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3150'	7"	20/23#	J-55
6 1/4"	0' - 7395'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
0' - 7395'	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.

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 272 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/14 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: 259 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (704 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 @ 2493'. Two turbolating centralizers at the base of the Ojo Alamo @ 2493'. 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 278 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 (550 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:

- This will be a Dakota only.
- 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 East half of Section 26 is dedicated to the Mesaverde/Dakota formation.
- This gas is dedicated.

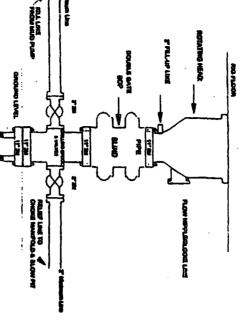


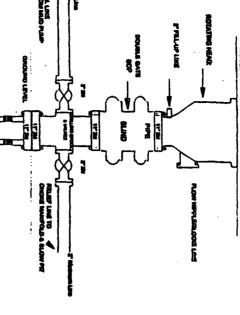
Completion/Workover Rig BOP Configuration 2,000 pel System

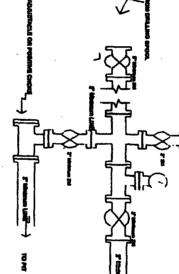
Drilling Rig Choke Manifold Configuration 2000 pai System



2000 psi System **Drilling Rig** **Burlington Resources**







Point to Total Depth. 2,000psi working pressure Choice manifold installation from Surface Casing equipment with two choices.

Figure #3

E ⊗ **B**

Operations. 7-1/16" bors, 2000 pel minimum working Minimum BOP instaltation for all Completion/Workover

the BOP. All BOP equipment is 2000 pel working pipe rams. A stripping head to be installed on the top of sesure double gate BOP to be equipped with blind and saure or greater excluding 600 pel stripping head. Figure #2

4-20-01

Figure #1

4-20-01