UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEP	EN, OR PLUG BACK
1a. 1b.	Type of Work DRILL Type of Well GAS	5. Lease Number
2.	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease NameWoodriver9. Well Number#2B
4.	Location of Well 1755' FNL, 805' FWL tude 36 ⁰ 49.6825'N, Longitude 107 ⁰ 41.1840'W	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakot 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 9, T30N, R08W
Laci	tade 30 13.0023 N, Longitude 10, 11.1040 N	API # 30-045- 33773
14.	Distance in Miles from Nearest Town 20.9 miles to Aztec, NM	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L 805'	ine
16.	Acres in Lease	17. Acres Assigned to Well N/2 320 MV/DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 6	or Applied for on this Lease
19.	Proposed Depth 7691'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6282' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by Regulatory Specialist	@11106 Date
PERM	IIT NO. APPROVAL I	DATE
APPR	OVED BY TITLE Acting	AAM DATE 6 8 0C
Threa NOTE:	teological Report attached tened and Endangered Species Report attached This format is issued in lieu of U.S. BLM Form 3160-3 U.S.C. Section 1001, makes it a crime for any person knowingly and will	fully to make to any department or agency of the

NMOCD 9

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

the rest is subject to technical and services or the rest to the property of the services of t

UNA CHIO CHIPAGONS AUTHORIZED ARE CUB FOLLIO COMPLIANCE WITH ATTACHED CUE LEPAL FIELD REMEMBNIS". DISTRICT 1 1626 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

611 South First, Artesia, N.M. 66210

DISTRICT III 1000 Rio Brazos Rd., Astec, N.M. 67410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

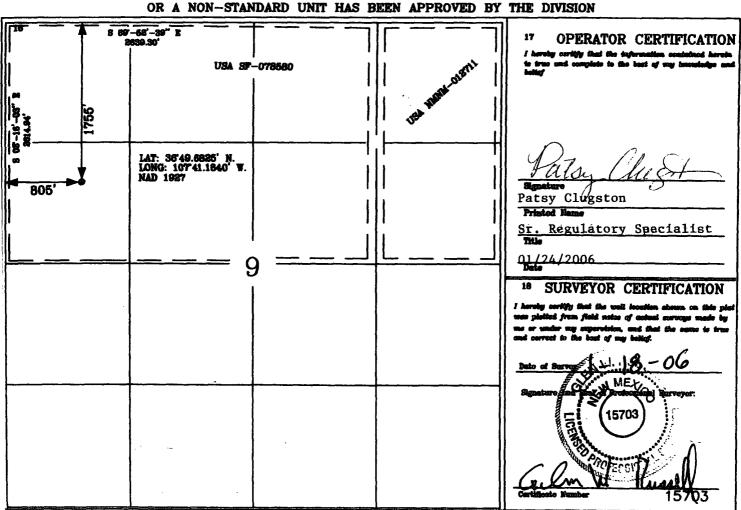
☐ AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 67506 WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-33773		723 Rogl Gode 1599	Pool Name				
			Blanco MesaVerde - Basin Da	akota			
*Property Code	Code ⁶ Pr		party Name	Vell Number			
7645	Wool		DRIVER	2B			
OGRED No.	* Ope		srator Hame	* Elevation			
14538		BURLINGTON RESOURCES	OIL AND GAS COMPANY LP	6282'			

¹⁰ Surface Location UL or lot no. Section Township Lot Idn Feet from the Feet from the East/West line Range County 30-N 8-W NORTH SAN JUAN E 9 1755 805 WEST ¹¹ Bottom Hole Location If Different From Surface Section UL or lot no. North/South line est/West line County Dedicated Acres ²⁵ Joint or Infill ¹⁴ Consolidation Code "Order No. MV/DK -320 ac N2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resour	rces May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045-33773
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	
<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 875	05	NMSF-078580
SUNDRY NOTIC	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS DIFFERENT RESERVOIR. USE "APPLICATION"	S TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT" (FORM C.101) FOR SUCH	Woodriver
PROPOSALS.)	SINTONTERIOR (FORME-101) TOR SOCIA	W OOdilver
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #2B
2. Name of Operator	OUDGES ON & CAS COMPANY I D	9. OGRID Number
3. Address of Operator	OURCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
3401 E. 30TH STE	REET, FARMINGTON, NM 87402	Blanco Mesaverde/ Basin Dakota
4. Well Location Unit Letter E	1755 feet from the North line ar	nd 805 feet from the West line
Section 9	Township 30N Rng	8W NMPM County San Juan
	Elevation (Show whether DR, RKB, RT, GR, etc.	
Pit or Below-grade Tank Application	or Closure 6715'	
Pit type new drill Depth to Groundy		eli >1000' Distance from nearest surface water >1000'
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material
12 Check	Appropriate Box to Indicate Nature of	f Notice Penart or Other Data
	NTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		IEDIAL WORK ALTERING CASING
TEMPORARILY ABANDON	1 1	MENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CAS	ING/CEMENT JOB
OTHER: New I	Drill Pit X OTH	ER:
		and give pertinent dates, including estimated date
or recompletion.	.). SEE RULE 1103. For Multiple Completions:	Attach wellbore diagram of proposed completion
01 1000mp1011011		
New Drill, Unlined:		
D 11 D		
		/flare pit. Based on Burlington's interpretation of the lined pit as detailed in Burlington's Revised Drilling /
		at the NMOCD office. A portion of the vent/flare pit will be
		riteria. Burlington Resources anticipates closing these pits
according to the Drilling / Workove	r Pit Closure Procedure dated August 2, 2004 on	file that the NMOCD office
		me that the INNOCD office.
i i		the that the NWOCD office.
		ine that the NinoeD office.
		THE MAIL MICHAELE OFFICE.
		THE HIAL THE PAYOCE OFFICE.
I hereby certify that the information ab	ove is true and complete to the best of my knowle	** *
		edge and belief. I further certify that any pit or below- nit X or an (attached) alternative OCD-approved plan .
	osed according to NMOCD guidelines, a general perm	edge and belief. I further certify that any pit or below-
grade tank has been/will be constructed or clo	Seed according to NMOCD guidelines, a general perm	edge and belief. I further certify that any pit or belownit X or an (attached) alternative OCD-approved plan . Sr. Regulatory Specialist DATE 1/30/2006
grade tank has been/will be constructed or clo	ni Clark E-mail address: <u>jCla</u>	edge and belief. I further certify that any pit or belownit X or an (attached) alternative OCD-approved plan . Sr. Regulatory Specialist DATE 1/30/2006 ark@br-inc.com Telephone No. 505-326-9700
SIGNATURE Type or print name For State Use Only	ni Clark E-mail address: icla	edge and belief. I further certify that any pit or belownit X or an (attached) alternative OCD-approved plan . Sr. Regulatory Specialist DATE 1/30/2006 ark@br-inc.com Telephone No. 505-326-9700
SIGNATURE Type or print name Jon	ni Clark E-mail address: <u>jCla</u>	edge and belief. I further certify that any pit or belownit X or an (attached) alternative OCD-approved plan . Sr. Regulatory Specialist DATE 1/30/2006 ark@br-inc.com Telephone No. 505-326-9700

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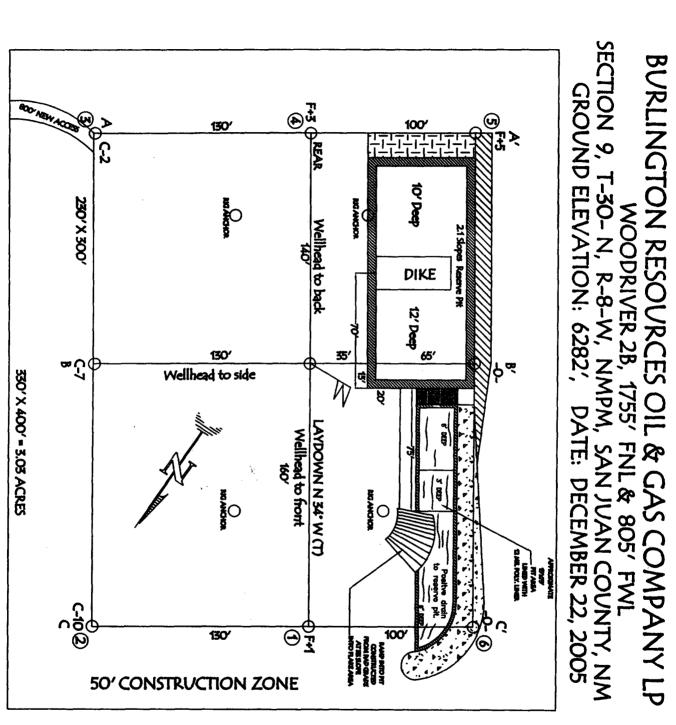
LATITUDE

8.

49.6825'N

LONGITUDE:

107" 41.1840" W NAD27



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.

BURLINGTON RESOURCES OIL & GAS COMPANY LP WOODRIVER 2B, 1755' FNL & 805' FWL SECTION 9, T-30- N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6282', DATE: DECEMBER 22, 2005

6270	6280	6290	6300	ELEV. CC	6270	6280	6290	6300	ELEV. B'-B	6270	6280	6290	6300	ELEV. A'-A
				C1.			7		Ct.					S

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT I FACT TWO (2) WORKING DAVE BRICE TO CONCERN TO TONICE INTO A NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

OPERATIONS PLAN

Well Name:

WOODRIVER 2B

Location:

1755' FNL & 805' FWL, Section 09 T30N R08W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation: 6282' GL

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	1970'	
Ojo Alamo	1970'	2111'	aquifer
Kirtland	2111'	2794 '	gas
Fruitland	2794'	3108'	gas
Pictured Cliffs	3108'	3248'	gas
Lewis	3248'	3809'	
Huerfanito Bentonite	3809'		
Chacra	4154'	4911'	gas
Massive Cliff House	4911'	4974'	gas
Menefee	4974'	5301'	gas
Massive Point Lookout	5301'	5629'	gas
Mancos Shale	5629'	6629'	
Upper Gallup	6629'	7338'	gas
Greenhorn	7338'	7389 '	gas
Graneros	י 7389	7454'	gas
Two Wells	7454'	7527 '	gas
Paguate	י 7527	7554 '	gas
Upper Cubero	7554 '	י 7577	gas
Lower Cubero	י 7577	7644'	gas
Encinal	7644'	7691'	gas
Total Depth:	י 7691		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- 3348'	LSND	8.4 - 9.0	30 - 60	no control
3348 - 7691'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	Csg.Size Wt.	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8" 32.3	# H-40
8 3/4"	0' - 3348'	7" 20/23	# J-55
6 1/4"	0' - 7691'	4 1/2" 10.5	‡ J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7691'	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.

<u> Wellhead -</u>

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 293 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/32 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: 261 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (556 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 @ 2111'. Two turbolating centralizers at the base of the Ojo Alamo @ 2111'. 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 (563 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:

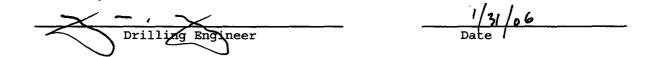
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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 north half of Section 9s dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.



BURLINGTON RESOURCES

Completion/Workover Rig 80P Configuration 2,000 pai System

Burlington Resources

2000 psi System **Drilling Rig**

T FILLUP LINE

Point to Total Depth. 2,000pel working presente

Figure #3

equipment with two chokes.

Minimum BCP installation for all Completion/Workove he 8CP. All 8OP equipment is 2000 pel working re rame. A stripping head to be installed on the top of erations. 7-1/16" bors, 2000 pel minimum working ssure double gate BCP to be equipped with bilind and e or greater excluding 500 pel stripping head.

4-20-01

Figure #1

4-20-01