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

Type of Well GAS  Operator BURLINGTON RESCUPICES OIL & Gas Company  Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well Unit Z (SWNW), 1700' FNL, 1155' FWL Surface Unit D (NNW), 700' FNL, 700' FWL Bottom Latitude 36° 50.5756'N Longitude 107° 48.5021'W  Distance in Miles from Nearest Town 17.7 miles to Aztec, NM  Distance from Proposed Location to Nearest Property or Lease Line 1155' Acres in Lease  17. Acres Assigned to Well 320.600 W2 MY/DK  Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' - Woodriver #3 Proposed Depth 7843'  Elevations (DF, FT, GR, Etc.) 6317'GL  Proposed Casing and Cementing Program See Operations Plan at acchest Authorized by:  APPROVAL DATE TITLE  APPROVAL DATE  TITLE  DATE		Type of Work	2005 DEC 1 27	2 52 Bease Number	
Operator BURLINGTON RESCURCES Oil & Gas Company  Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700  Location of Well Unit Z (SWNW), 1700' FNL, 1155' FWL Surface Unit D (NWNW), 700' FNL, 700' FWL Bottom Latitude 36° 50.5756'N Longitude 107° 48.5021'W  Distance in Miles from Nearest Town 17.7 miles to Aztec, NM  Distance from Proposed Location to Nearest Property or Lease Line 1155' Acres in Lease  17. Acres Assigned to Well 320.600 W2 MY/DK  Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' - Woodriver #3 Proposed Open Tiles Property  Proposed Casing and Cementing Program See Operations Plan at Lached Authorized by:  AND TILE  APPROVAL DATE  TILE  DATE  7. Unit Agreement Name  8. Farm or Lease Name  Woodriver  9. Well Number  #18  10. Field, Pool, Wildcat  Blanco Mesaverde/ Basin Dakot  11. Sec., Twn, Rge, Mer. (NMPM)  £ Sec. 5, T30N, RSW  API # 30-045- 34493  12. County 13. State  13. Acres Assigned to Well  320.600 W2 MY/DK  Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease  52' - Woodriver #3  Proposed Casing and Cementing Program  See Operations Plan at Lached  Authorized by:  ART NO.  APPROVAL DATE  DATE  APPROVAL DATE		DRILL	·		
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Woodriver 9. Well Number (505) 326-9700  Location of Well Unit E (SWNW), 1700' FNL, 1155' FWL Surface Unit D (NWNW), 700' FNL, 700' FWL Bottom  Latitude 36° 50.5756'N Longitude 107° 48.5021'W  Distance in Miles from Nearest Town 17.7 miles to Aztec, NM  Distance from Proposed Location to Nearest Property or Lease Line 1155' Acres in Lease  17. Acres Assigned to Well 320.600 W2 MV/DK  Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' - Woodriver #3 Proposed Depth 7843'  Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Tech  APPROVAL DATE  APPROVAL DATE  APPROVAL DATE  APPROVAL DATE  DATE  ADATE  DATE  ADATE  DATE  DATE		RESCURCES Oil & Gas Compan	У		
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Unit D (NWNW), 700' FNL, 700' FWL Bottom  Latitude 36° 50.5756'N  Longitude 107° 48.5021'W  Distance in Miles from Nearest Town 17.7 miles to Aztec, NM  Distance from Proposed Location to Nearest Property or Lease Line 1155'  Acres in Lease  17. Acres Assigned to Well 320.600 W2 MV/DK  Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52'- Woodriver #3  Proposed Depth 7843'  Elevations (DF, FT, GR, Etc.) 6317'GL  Proposed Casing and Cementing Program See Operations Plan attached Authorized by:  Regulatory Tech  APPROVAL DATE  APPROVAL DATE  DATE (2//3)					
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Elevations (DF, FT, GR, Etc.)  Proposed Casing and Cementing Program See Operations Plan attached  Authorized by:  Regulatory Tech  APPROVAL DATE  ROVED BY  ROTATILE  ROTATION  ROTATION  ROTATION  Approx. Date Work will Start  22. Approx. Date Work will Start  Date  Approx. Date Work will Start  Approx. Date Work will Start  Date  Date  Date				00 Determine Orbin	Table
Elevations (DF, FT, GR, Etc.)  Proposed Casing and Cementing Program See Operations Plan attached  Authorized by:  Regulatory Tech  APPROVAL DATE  BOVED BY  DATE 12/13	1			_	OOIS
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Authorized by: Amount 12/1/06 Regulatory Tech  APPROVAL DATE  BOVED BY  Authorized by: Amount 12/1/06 Date  DATE /2//3		6317 GL			
Authorized by: Amanda Dame 12/1/06 Regulatory Tech  APPROVAL DATE  BOVED BY TITLE AT 11					
Regulatory Tech  APPROVAL DATE  BOVED BY  Date  Date  DATE  2  3		See Operations Plan attache			
Regulatory Tech  APPROVAL DATE  BOVED BY  Date  Date  DATE  2  3		Authorized by: \ Amanda S	Janah	_ 12,	11/06
ROVED BY SIMONIA OF TITLE STATE 12/13		Regulatory Tech	3	Date	•
ROVED BY SIMONIA OF TITLE STATE 12/13			<del>\</del>		
aeological Report attached atened and Endangered Species Report attached to the standard of the standard standa	RM	IT NO.	APPROVA	L DATE	
aeological Report attached attened and Endangered Species Report attached to This format is investigated in the State of t	PPR	OVED BY SIMON Rectify	TITLE	DA1	re <u>[2][3</u>
attened and Endangered Species Report attached Van D C164 FOR directional Survey	roha	pological Report attached			
			ched /	and direction	el Survey

This action is subject to technical and procedural review pursuant to 43 CFR 3168.8 and appeal pursuant to 43 CFR 3165.4

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

OIL COMS. DIV.

DISTRICT ! 1825 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Form CHOZ. 3 Revised October 12, 2005

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87606

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 Brezos Rd., Aztec, N.M. 87410

2006 DEC 1 PM 2 28 - AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045 API Number	34092	71599/72319	Basin Dakota/Blanco MesaVerde	:			
*Property Code		,	Well Number				
7645		WOODRIVER					
TOGRID No.		*Operator Name					
14538		BURLINGTON RESOURCES OIL AND GAS COMPANY LP					

<sup>10</sup> Surface Location

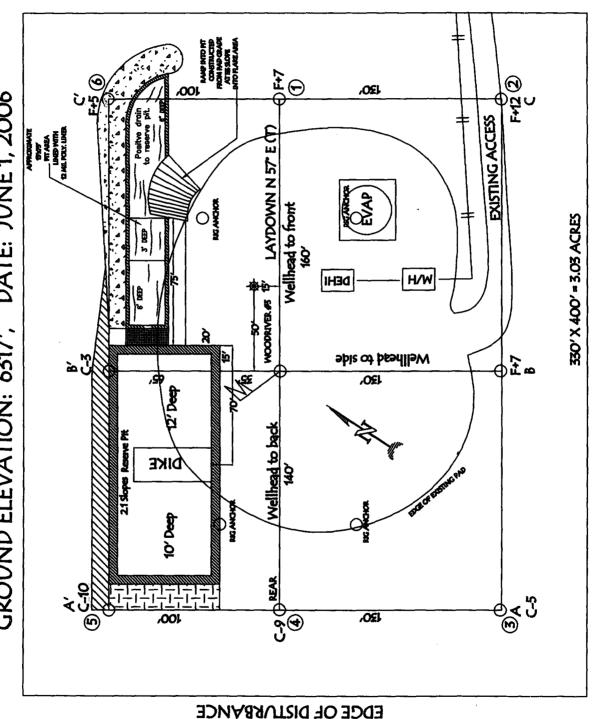
UL or let me.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feat from the	East/West line	County		
E	5	30-N	9-W		1700'	NORTH	1155′	West	SAN JUAN		
	<sup>11</sup> Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Ida	Foot from the	North/South line	Feet from the	East/Vest line	County		
D	5	30-N	9-W		700'	NORTH	700'	WEST	SAN JUAN		
<sup>18</sup> Dedicated Acres <sup>18</sup> Joint or Infill					"Consolidation C	ode	<sup>th</sup> Order No.				
320.600	– W2	MA/DK									

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

16	OR A NON-STAP	WARD UNIT HAS B	EEN APPROVED BY	THE DIAISION
LOT 4 .002	2602.14' B 2602.14' B LOT 3	LOT 2	LOT 1	17 OPERATOR CERTIFICATION  I heavily outlify that the information outlained herein to from and complete to the heat of my knowledge and bettef, and that the organization either owns a working internal or universal informed to the lead tresheding the proposed bottom hole location or har a wight to drill this well at this knowless paramete to a condract with an owner of make a universal or a working informat, or to a voluntury pooling agreemend or a companiony pooling order heretofers endered by the division.
1155' Surface	LAT: 36'50.5756' N. LONG: 107'48.5021' W. NAD 1927'  LAT: 36.842930' N. LONG: 107.808986' W. NAD 1983 Surface	LAT: 36'50,7434' N. LONG: 107'48.5981' W. NAD 1927  LAT: 38.846728' N. LONG: 107.810585' W. NAD 1983  Bottom Hole		May 1' Monwor Signature Tracey N. Monroe Printed Name
USA SI	F-078318-D			18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plant was plotted from field notes of actual surveys made by use or under my supervision, and that the same is true and correct to the best of my balley.  Date of Survey.
				Senature to the last of the la

Office	State of New Mexico	Form C-103 <sup>2</sup>
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30.045 34092
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-045- Storial 13
District III	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 87505	S AND REPORTS ON WELLS	USA SF-078316-D
	O DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION	FOR PERMIT" (FORM C-101) FOR SUCH	Woodriver
PROPOSALS.)		
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #1B
2. Name of Operator	Other	9. OGRID Number
	JRCES OIL & GAS COMPANY LP	14538
3. Address of Operator		10. Pool name or Wildcat
3401 E. 30TH STRE	ET, FARMINGTON, NM 87402	MV/DK
	'00' feet from the North line and	1155' feet from the West line
Section 5	Township 30N Rng 9V	
11. E	levation (Show whether DR, RKB, RT, GR, etc.)	
Pit or Below-grade Tank Application	6317'	
		>200
Pit type New Drill Depth to Groundwa		>1000' Distance from nearest surface water <1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material
	ppropriate Box to Indicate Nature of No	· · · · · · · · · · · · · · · · · · ·
NOTICE OF IN	I	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON		AL WORK  NCE DRILLING OPNS. P AND A
PULL OR ALTER CASING		CEMENT JOB
		_
OTHER: New I		
13. Describe proposed or completed	operations. (Clearly state all pertinent details, and	
13. Describe proposed or completed of starting any proposed work).		
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Describe proposed or completed of starting any proposed work). or recompletion.  New Drill, Lined:  Burlington Resources proposes to continuous description.	d operations. (Clearly state all pertinent details, and SEE RULE 1103. For Multiple Completions: Att	ach wellbore diagram of proposed completion  and a pre-set mud pit (if required). Based on
13. Describe proposed or completed of starting any proposed work). or recompletion.  New Drill, Lined:  Burlington Resources proposes to con Burlington's interpretation of the Eco	d operations. (Clearly state all pertinent details, and SEE RULE 1103. For Multiple Completions: Att assured as the struct a new drilling pit, an associated vent/flare pitsphere's risk ranking criteria, the new drilling pit as	and a pre-set mud pit (if required). Based on and pre-set mud pit will be lined pits as detailed in
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SECTION 5, T-30- N, R-9-W, NMPM, SAN JUAN COUNTY, NM BURLINGTON RESOURCES OIL & GAS COMPANY LP JUNE 1, 2006 WOODRIVER 1B, 1700' FNL & 1155' FWI GROUND ELEVATION: 6317



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

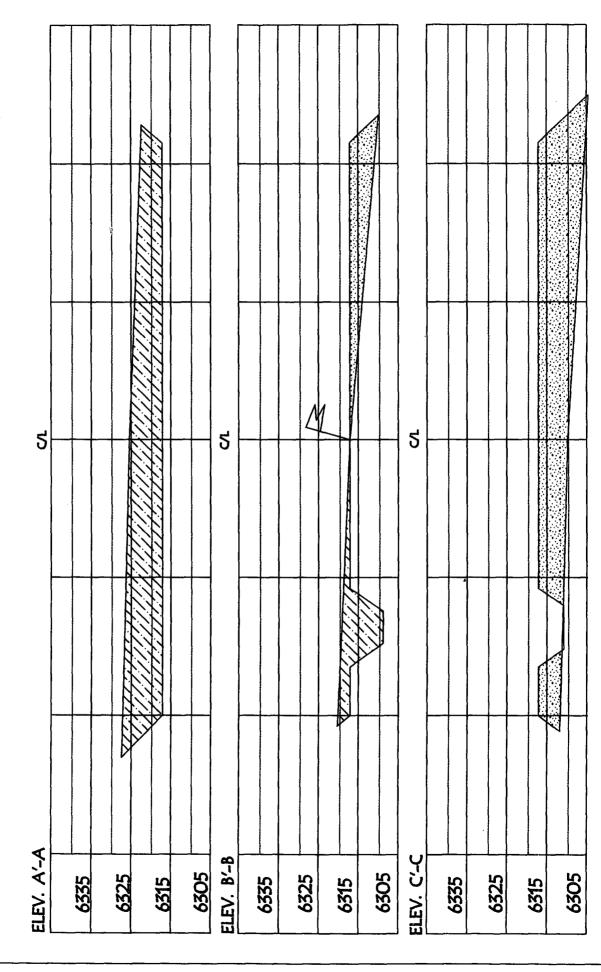
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NOTE: VECTOR SURVEYS LLC IS NOT LLABLE FOR UNDERGROUND UTLITIES OR PIPELINES.

LONGITUDE: 107 48.5021'W NAD27 36° 50.5756′ N LATITUDE

KEZEKAE BILIJIKE' LO BE 8, VBOAE DEED ZIDE (OAEKITOM - 2, MIDE VAD 1, VBOAE ZHVITOM ZIDE)'

# SECTION 5, T-30- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6317', DATE: JUNE 1, 2006 BURLINGTON RESOURCES OIL & GAS COMPANY LP WOODRIVER 18, 1700' FNL & 1155' FWL



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 LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

### **WOODRIVER #1B OPERATIONS PLAN**

Well Name:

**WOODRIVER #1B** 

Objective:

Blanco Mesaverde/Basin Dakota

Location:

San Juan NM

Elevation:

6317'

**Bottom Hole Coordinates/Footages** 

Surface Coordinates/Footages

T - 30 N 1700' FNL

R-9W Sec.: 5

700' FNL

1155' FWL

T-30 N R-9 W Sec.: 5 700' FWL

Latitude: 36° 50.5818' N

Latitude: 36° 50.7433' N

Longitute: 107° 48.5040' W

Longitute: 107° 48.5981' W

<u>Formation</u>	Top (TMD)	Top (TVD)	<b>Contents</b>
San Jose	0	0	
Ojo Alamo	1833'	1757'	aquifer
Kirtland	1969'	1882'	gas
Fruitland	2904'	2740'	gas
Pictured Cliffs	3237'	3047'	gas
Lewis	3332'	3137'	gas
Huerfanito Bentonite	3988'	3785'	gas
Chacra	4316'	4113'	gas
Massive Cliff House	4885'	4682'	gas
Menefee	5107'	4904'	gas
Massive Point Lookout	5513'	5310'	gas
Mancos Shale	5890'	5687'	gas
Upper Gallup	6804'	6601'	gas
Greenhorn	7544'	7341'	gas
Graneros	7595'	7392'	gas
Two Wells	7647'	7444'	gas
Upper Cubero	7775'	7572'	gas
Lower Cubero	7787'	7584'	gas
Encinal	7843'	7640'	gas
Total Depth:	7843'	7640'	gas

Logging Program:

Cased Hole:

**CBL-GR** 

Open Hole:

None

<u>Mud Program:</u>	Interval (TMD) 0' - 320'	<u>Type</u> Spud	Weight (ppg) 8.4-9.0	<u>Vis. (s/qt)</u> 40-50	Fluid Loss (cc/30min) No control
	320' - 3888'	Non-dispersed	8.4-9.0	30-60	Less than 8
	3888' - 7843'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 320'	12 1/4"	9 5/8"	32.3#	H-40
	320' - 3888'	8 3/4"	7"	23.0#	L-80
	3888' - 7843'	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 7843'	Cased	2 3/8"	4.7#	J-55

### Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

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

Drill to surface casing point of 320' and set 9.625" casing.

### **Intermediate**

Mud drill to kick off point of 400'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 334.91 degrees. The end of the build will be at a TVD of 1161', a TMD of 1183', a reach of 158', and an inclination of 23.49 degrees. This angle and azimuth will be held to a TVD of 2924', a TMD of 3105', and a reach of 924'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 3685', a TMD of 3888', a reach of 1083', and an angle of 0.0 degrees. 7" casing will be set at this point.

### **Production**

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 7640' (TMD of 7843'). 4.5" casing will be set at this point.

### Cementing

9.625" surface casing conventionally drilled: 200% excess cement to bring cement to surface. Run 301 cu.ft. (235 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° 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.

7" intermediate casing: 50% excess cement to bring cement to surface. Lead with 753 cu.ft. (354 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: 30% excess cement to achieve 100' overlap with intermediate casing. Run 539 cu.ft. (272 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

### **BOP and Tests**

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

### **Additional Information:**

- · No gas dedication.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- · No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

Drilling Engineer



Project: Blanco Mesaverde/ Basin Dakota

Site: SEC 5-T30N-R09W Well: WOODRIVER 1B

Wellbore: Wellbore #1 Plan: Plan #1 (WOODRIVER 1B/Wellbore #1)

# **BURLINGTON**RESOURCES

### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	•
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1183.0	23.49	334.91	1161.2	143.3	-67.1	3.00	334.91	158.3	
4	3104.8	23.49	334.91	2923.8	837.0	-392.0	0.00	0.00	924.2	
5	3887.7	0.00	0.00	3685.0	980.3	-459.1	3.00	180.00	1082.5	END OF DROP
6	7842.7	0.00	0.00	7640.0	980.3	<b>-45</b> 9.1	0.00	0.00	1082.5	PBHL WOODRIVER 1B

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
END OF DROP	3685.0	980.3	-459.1	2127105.15	506836.75 36° 5			
PBHL WOODRIVER 18	7640.0	980.3	-459.1					Circle (Radius: 100.0)

PROJECT DETAILS: Blanco Mesaverde/ Basin Dakota

Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico West 3003

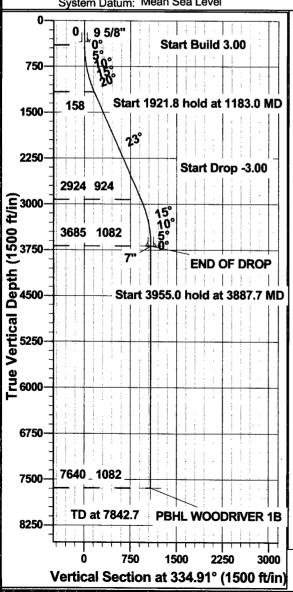
System Datum: Mean Sea Level

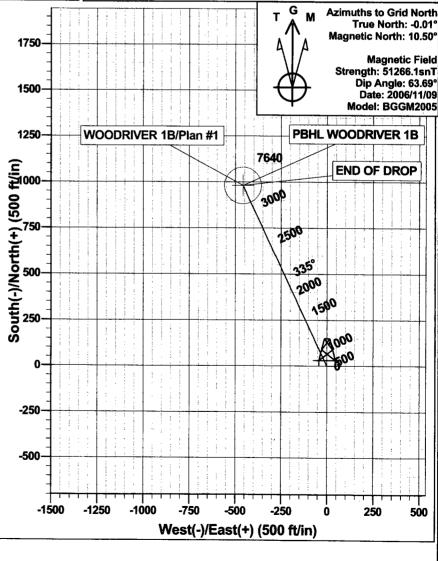
### WELL DETAILS: WOODRIVER 1B

**Ground Level:** 6317.0 **Northing Easting** 2126124.85

Latittude Longitude

507295.85 36° 50' 34.908 N 107° 48' 30.240 W





Blowout preventor equipment (BOPE) tests must be performed using an appropriately sized test plug. The BOPE test must be performed and recorded using a test pump, calibrated test gauges and a properly calibrated strip or chart recorder. The test must be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise authorized in the Application for Permit to Drill (APD). A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which the BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than a 10 percent pressure drop during the duration of the test.

Completion/Workover Rig BOP Configuration 2,000 psi System

> Dritting Rig Choke Menifold Configuration 2000 psi System

Burlington Resources

Oriting Rig 2000 psi System

NO PLOOR

DOVALE BATE

PFRLUP LINE

ROTATING HEAD.

Choke markfood kreatisgon from Burboe Cateng Poist to Total Dayth. 2.000pal working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

SOLUCIO

CONTROL DE LA CONTROL

Minimum BOP installation for all Compassion/Workaver Operations. 7-1/16\* bore, 2000 pel minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working pressure or greator exclusing 600 pel stripping head.

Figure #2

10-02-4