UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a. Type of Work DRILL DRILL Start		APPLICATION FOR PERMIT TO DRI	ILL, DEEPEN, OR PLUG BACK
DRILL Unit Reporting Number OAS C. Operator BURLINGTON RESCURCES Oil & Gas Company 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 4. Location of Well Surface: Unit F (SENW), 1480' FNL, 1295' FWL Blanco Mesaverde/ Basin Dal Bottom: **\frac{1}{2} Unit D (NWAW), 715' FNL, 700' FWL Latitude 360 38.9971'N Longitude 1070 30.6508'W API # 30-039- 29915 14. Distance in Miles from Nearest Town 31 miles to Blanco, NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1295' 16. Acres in Lease 17. Acres Assigned to Well MV 262.76 W2, DX 328.37 Sec. 18 S2\(\frac{1}{2}\) W 65.73; Sec. 18 SW/Sec. 19 NW 262.61 18. Distance from Proposed Location to Nearest Well, Drig, Compl. or Applied for on this Lease 54'- San Juan 28-6 Unit #50A 19. Proposed Depth Rocation (DF, FT, GR, Etc.) 6643'GL 21. Elevations (DF, FT, GR, Etc.) 6643'GL PERMIT NO. APPROVAL DATE APPROVAL DATE APPROVAL DATE	1a.	Type of Work	
Unit Reporting Number 6. If Indian, All. or Tribe 7. Unit Agreement Name 8. Operator BURLINGTON RESOURCES Oil & Gas Company 8. Farm or Lease Name 9. Well Number #159M 10. Field, Pool, Wildcat Surface: Unit F (SENW), 1480' FNL, 1295' FWL Blanco Mesaverde/ Basin Dal Bottom: #c / Unit D (NWNM), 715' FNL, 700' FWL Latitude 36° 38.9971'N Longitude 107° 30.6508'W Api # 30-039- 29915 14. Distance in Miles from Nearest Town 31 miles to Blanco, NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1295' 16. Acres in Lease 17. Acres Assigned to Well MV 262.76 W2, DK 328.37 Sec. 18 S2#W 65.73; Sec. 18 SW/Sec. 19 NW 262.66 18. Distance from Proposed Location to Nearest Well, Drig, Compl. or Applied for on this Lease 54' - San Juan 28-6 Unit #50A 19. Proposed Depth 80.29' 20. Rotary or Cable Tools Rotary 21. Elevations (DF, FT, GR, Etc.) 6643'GL 22. Approx. Date Work will State Proposed Casing and Cementing Program See Operations Plan attached 24. Authorized by: REMNIT NO. APPROVAL DATE			
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BURLINGTON RESCURCES Oil & Gas Company 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 (505) 326-9700 8. Farm or Lease Name 9. Well Number #159M 10. Field, Pool, Wildcat Surface: Unit F (SENW), 1480' FNL, 1295' FWL Blanco Mesaverde/ Basin Dal Bottom: **Let Unit D (NWNW), 715' FNL, 700' FWL Latitude 360 38.9971'N Longitude 1070 30.6508'W API # 30-039- 299/5 14. Distance in Miles from Nearest Town 31 miles to Blanco, NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1295' 16. Acres in Lease 17. Acres Assigned to Well MV 262.76 W2, DK 328.37 Sec. 18 SEM 65.73; Sec. 18 SW/Sec. 19 NW 262.66 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 54' - San Juan 28-6 Unit #50A 19. Proposed Depth 8029' 21. Elevations (DF, FT, GR, Etc.) 6643'GL 22. Approx. Date Work will State Proposed Casing and Cementing Program See Operations Plan attached 24. Authorized by: Regulatory Analyst Date	lb.		
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API # 30-039- 799/S 14. Distance in Miles from Nearest Town 31 miles to Blanco, NM 12. County Rio Arriba NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1295' 16. Acres in Lease 17. Acres Assigned to Well MV 262.76 W2, DK 328.37 Sec. 18 S2#W 65.73; Sec. 18 SW/Sec. 19 NW 262.64 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 54'- San Juan 28-6 Unit #50A 9. Proposed Depth 8029' 20. Rotary or Cable Tools Rotary 21. Elevations (DF, FT, GR, Etc.) 6643'GL 22. Approx. Date Work will State 6643'GL 24. Authorized by: Regulatory Analyst Date			
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3. Proposed Casing and Cementing Program See Operations Plan attached 4. Authorized by: Authorized by: Date ERMIT NO. APPROVAL DATE		·	
Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Authorized by: Date PERMIT NO. APPROVAL DATE	1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
See Operations Plan attached 4. Authorized by: Authorized by: 5-12-06 Regulatory Analyst Date PERMIT NO. APPROVAL DATE		6643'GL	
24. Authorized by: Authorized by: Authorized by: Date Detail of the second of the sec	23.		7 4
Regulatory Analyst Date PERMIT NO. APPROVAL DATE		See Operations Plan attached	JUN 20
PERMIT NO. APPROVAL DATE	24.		5-12-00 Pate
Alla bis Att		Regulatedly linuity be	Daco (c)
APPROVED BY AMERICAN TITLE HELD DATE 95/8	ERM	IT NO. AP	PROVAL DATE
/ /	APPR	OVED BY Alladeolog TITLE	HEM DATE 6/5/86
Archaeological Report attached Threatened and Endangered Species Report attached Threatened and Endangered Species Report attached	\rch-	eological Report attached	

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

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

This action is subject to technical and procedural review pursuant to 43 CFA 3165.9 and appeal pursuant to 43 CFA 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 with

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. 88240

State of New Mexico 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

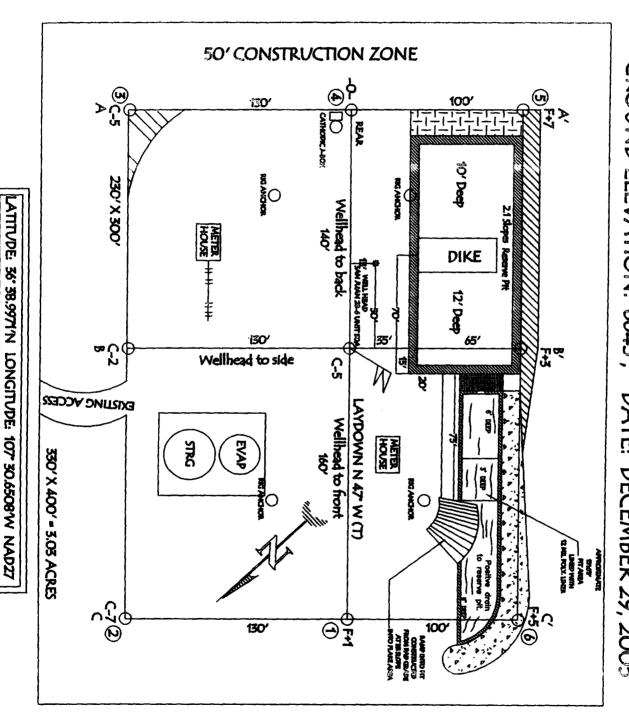
DISTRICT, III 1000 Rio Brazos Rd., Aztec, N.M. 87410

☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87506

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¹API Number Pool Code								Pool Nam	-			
30-039- 29915 71599 / 72319					19	Basin Dakota / Blanco Mesaver						
Property Code Property							•				Well Number	
7462. SAN JUAN										159 M		
OGRID No			_	rator			° Elevation					
14538 BURLINGTON RESOURCES OIL A						AND GAS COMPA	NY LP			6643'		
	•	·	,				Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line NORTH	Feet from the	East/We		County	
F	19	28-N	6-W	L	1480'	<u>_</u>		1295'	WE:	51	RIO ARRIBA	
	1 2 0	1 - 1	~	om Hole			Different Fro					
UL or lot no.	Section 19	Township 28-N	Range 6-W	Lot ldn	Feet from 715	the	North/South line NORTH	Feet from the 700'	East/We		RIO ARRIBA	
			~ "	Infili	14 Consolida	ation C		¹⁵ Order No.			I Ido Altida	
Dedicated Acres ac. DK Sec. SW4+5 lots	2, 1851 2,3,84 E2 NW4	Y/.ac E -Sec. I & lots	9 1&2					R	2948	(- C	K	
NO ALLOW	ABLE W						ON UNTIL ALL EN APPROVED			EEN C	ONSOLIDATED	
16				T	1					CEDI	TFICATION	
				7				1			IFICATION on contained herein	
		j			-				complete to	the best o	f my knowledge and	
		MM 537-06	0430								neral interest in the L hole location or its location pursuant	
		LOT 2	. 4					to a contrac	to drill their	e well at the	its location purewant ich a mineral or ary pooling agreement riofore entered by the	
1				. 18 11				or a comput	sory positing	order here	stofore entered by the	
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-		NOM 557-0604	450-R	#	1			Signatur	· J		7.81/1/2	
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		LOT 4	<u> </u>	SECTION LINE				Printed	Name			
}		7007	}	BOTTOM RULE LAT: 3659-1227 LOSG: 10730-7725 MAD 1927	۶ v.			10	V PP-2 0	~==		
		HOTTON HOLE	8-0010	1		}		1			'IFICATION	
			SUMME .	 	_						ion shown on this plat wal surveys made by	
		1295		1				me or under			that the same is true f.	
		145- 567 140- 169 140- 169 140- 169	96.9971' M. 97.90-8506' W. 7		1	}		1	7	_/\/	-	
		LOT 8	'	β 		_		Date of Su	A STATE OF THE STA	LUSK		
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]				1_4		WX	usell	
		LOT 4						Certificate	Number		15703	

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- 299/5				
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		NMSF-080430-B				
1	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 "APPLICATION		San Juan 28-6 Unit				
PROPOSALS.)						
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number #159M				
2. Name of Operator		9. OGRID Number				
BURLINGTON RESOURTS OF Operator	JRCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat				
•	EET, FARMINGTON, NM 87402	Blanco Mesaverde/ Basin Dakota				
4. Well Location						
Unit Letter F : 14 Section 19	480 feet from the North line and Township 28N Rng 6W	1295 feet from the West line NMPM County Rio Arriba				
	Elevation (Show whether DR, RKB, RT, GR, etc.)					
Pit or Below-grade Tank Application	or Closure 6643'					
Pit type New Depth to Groundwa		>1000' Distance from nearest surface water >1000'				
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material				
12 Check A	ppropriate Box to Indicate Nature of Not	ica Panort or Other Data				
NOTICE OF IN		SUBSEQUENT REPORT OF:				
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIA					
TEMPORARILY ABANDON	——————————————————————————————————————	CE DRILLING OPNS. P AND A				
PULL OR ALTER CASING	MULTIPLE COMPL CASING/C	EMENT JOB				
OTHER: New I						
	d operations. (Clearly state all pertinent details, and a SEE RULE 1103. For Multiple Completions: Attac					
or recompletion.	SEE ROLE 1103. For Multiple Completions. Attac	in wendore diagram of proposed completion				
New Drill, Unlined:						
	struct a new drilling pit and an associated vent/flare	oit. Based on Burlington's interpretation of the				
Burlington Resources proposes to cor Ecosphere's risk ranking criteria, the	struct a new drilling pit and an associated vent/flare new drilling pit and vent/flare pit will be an unlined p	bit as detailed in Burlington's Revised Drilling /				
Burlington Resources proposes to cor Ecosphere's risk ranking criteria, the Workover Pit Construction / Operation	new drilling pit and vent/flare pit will be an unlined portion Procedures dated November 11, 2004 on file at the	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be				
Burlington Resources proposes to cor Ecosphere's risk ranking criteria, the Workover Pit Construction / Operation designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined por Procedures dated November 11, 2004 on file at the ortion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits				
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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.

SECTION 19, T-28-N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM BURLINGTON RESOURCES OIL & GAS COMPANY LP SAM JUAN 28-6 UNIT #159M, 1480' FNL & 1295' FWL GROUND ELEVATION: 6643', DATE: DECEMBER 29, 2005

6630	5640	6650	5660	EEV. C.A	6630	6640	6650	6660	ELEV. B'-8	6630	6640	6650	6660	ELEV. A'-A
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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

SAN JUAN 28-6 UNIT 159M OPERATIONS PLAN

T-- (TVD)

Well Name:

SAN JUAN 28-6 UNIT 159M

Objective:

Blanco Mesa Verde/Basin Dakota

Location:

Rio Arriba NM

Elevation:

6643'

Surface Coordinates/Footages

T - 28 N R-6W

Sec.: 19

1480' FNL

1295' FWL

Ton (TMD)

Latitude:

36° 38.9971' N

Earmatian.

Longitute: 107° 30.6508' W

Bottom Hole Coordinates/Footages

T-28 N R-6 W Sec.: 19

715' FNL

700' FWL

Latitude: 36° 39.1227' N Longitute: 107° 30.7727' W

Contents

<u>Formation</u>	lop (IMD)	<u>lop (IVD)</u>	Contents
Surface	San Jose	San Jose	
Ojo Alamo	2724'	2603'	aquifer
Kirtland	2817'	2690'	gas
Fruitland	3268'	3113'	gas
Pictured Cliffs	3569'	3408'	gas
Lewis	3713'	3551'	gas
Huerfanito Bentonite	4155'	3993'	gas
Chacra	4515'	4353'	gas
Upper Cliff House	5115'	4953'	gas
Massive Cliff House	5223'	5061'	gas
Menefee	5327'	5165'	gas
Massive Point Lookout	5750'	5588'	gas
Mancos Shale	6254	6092'	gas
Upper Gallup	6976'	6814'	gas
Greenhorn	7711'	7549'	gas
Graneros	7771'	7609'	gas
Two Wells	7830'	7668'	gas
Upper Cubero	7919'	7757'	gas
Lower Cubero	7957'	7795'	gas
Encinal	8029'	7867'	gas
Total Depth:	8029'	<i>7867</i> '	gas

Logging Program:

Cased Hole:

CBL-GR

Open Hole:

None

<u>Mud Program:</u>	Interval (TMD) 0' - 320' 320' - 3813' 3813' - 8029'	Type Spud Non-dispersed Air/Air Mist/Nitrogen	Weight (ppg) 8.4-9.0 8.4-9.0 n/a	<u>Vis. (s/qt)</u> 40-50 30-60 n/a	Fluid Loss (cc/30min) No control Less than 8 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' - 3813'	8 3/4"	7"	23.0#	L-80
	3813' - 8029'	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	<u>Hole Size</u>	Casing Size	<u>Weight</u>	<u>Grade</u>
	0' - 8029'	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

<u>Drilling:</u> 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 321.79 degrees. The end of the build will be at a TVD of 1077', a TMD of 1092', a reach of 124', and an inclination of 20.76 degrees. This angle and azimuth will be held to a TVD of 2974', a TMD of 3121', and a reach of 843'. 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 3651', a TMD of 3813', a reach of 967', 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 7867' (TMD of 8029'). 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 736 cu.ft. (346 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 574 cu.ft. (290 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.

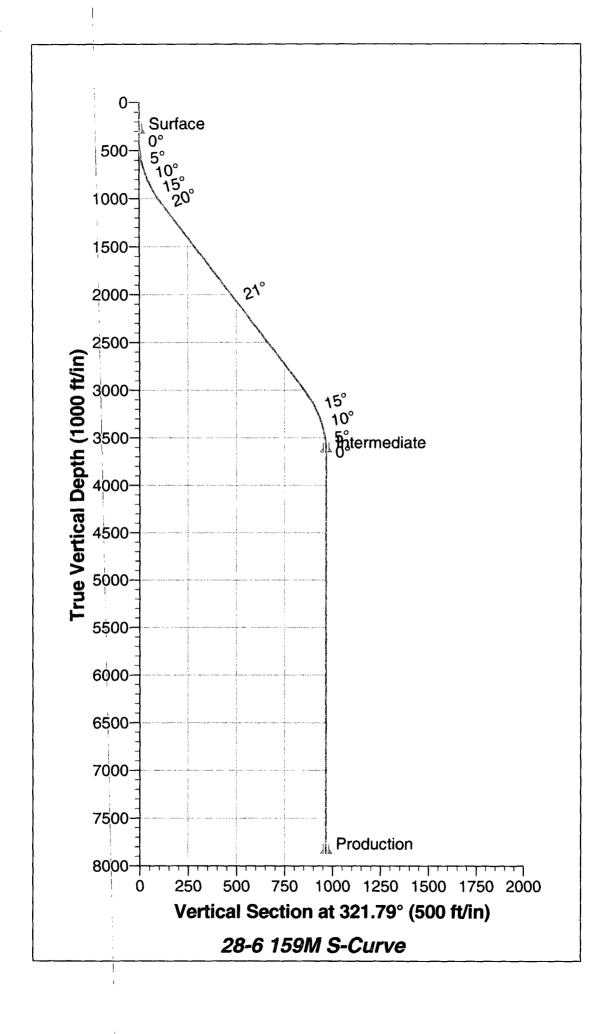
Additional Information:

- 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

5/11/06

Date



nogeme

Dritting Rig Choke Menifold Configuration 2000 pei System

Burlington Resources

Orilling Rig 2000 psi System

RIG PLOOP

FFLLUP LINE

ROTATING HEAD:

ACMITMEN OF FORMAN CHOICE AND CHO

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Choke mentitot beestisdon from Burthos Cesting Potet to Total Depth. 2,000pel working preseure equipment with two chokes.

Figure #3

4-20-01

Figure #1

Mindmum BOP Installation for etl Compitation/Workover 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 greater excluding 500 pel artipping head.

Figure #3

4-20-01