

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised October 12, 2005

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

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30368	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/ BLANCO MESAVERDE
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 78N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6753'

¹⁰ Surface Location

UL or lot no. F	Section 25	Township 28-N	Range 5-W	Lot Idn	Feet from the 2640'	North/South line NORTH	Feet from the 2075'	East/West line WEST	County RIO ARRIBA
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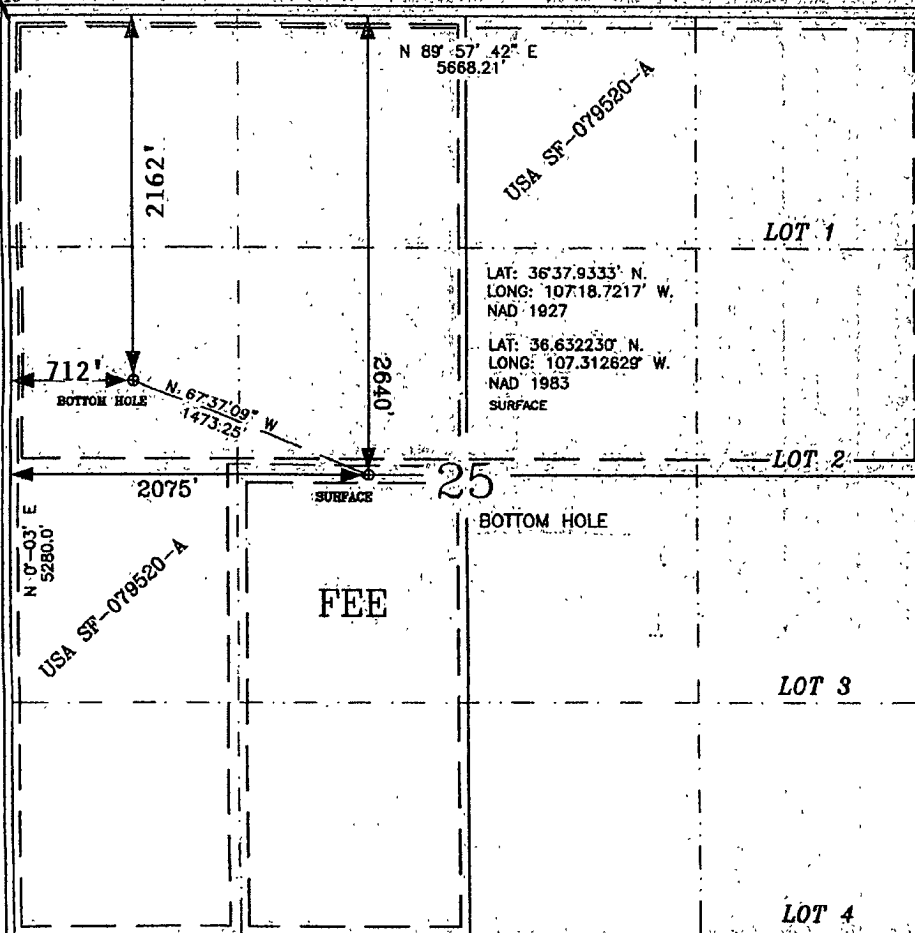
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. E	Section 25	Township 28-N	Range 5-W	Lot Idn	Feet from the 2162	North/South line NORTH	Feet from the 712	East/West line WEST	County RIO ARRIBA
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¹² Dedicated Acres DK 320.0 ACRES W/2 MV 344.64 ACRES N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD NOV 6 '01 OIL CONS. DIV
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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

DIST. 3



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization 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 heretofore entered by the division.

Signature
Crystal Tafoya 11/5/09
Printed Name

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat 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 belief.

JULY 1, 2009
Date of Survey
Signature and Seal of Professional Surveyor

GLEN W. RUSSELL
Certificate Number 15703

ConocoPhillips

COP Deviation Report
SAN JUAN 28-5 UNIT #78N

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SAN JUAN 28-5 UNIT #78N	API / UWI 3003930368	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 025-028N-005W-F	N/S Dist (ft) 2,640.00	N/S Ref FNL	E/W Dist (ft) 2,075.00	E/W Ref FWL

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
7/11/2009	93.00	0.99	MWD	Scientific Drilling
7/11/2009	127.00	0.96	MWD	Scientific Drilling
7/11/2009	158.00	1.47	MWD	Scientific Drilling
7/11/2009	188.00	2.20	MWD	Scientific Drilling
7/11/2009	219.00	2.33	MWD	Scientific Drilling
7/11/2009	250.00	2.92	MWD	Scientific Drilling
7/11/2009	279.00	3.24	MWD	Scientific Drilling
7/11/2009	303.00	3.66	MWD	Scientific Drilling
7/13/2009	404.00	3.91	MWD	Scientific Drilling
7/13/2009	435.00	4.27	MWD	Scientific Drilling
7/13/2009	497.00	3.92	MWD	Scientific Drilling
7/13/2009	558.00	4.06	MWD	Scientific Drilling
7/13/2009	619.00	4.48	MWD	Scientific Drilling
7/13/2009	679.00	5.44	MWD	Scientific Drilling
7/13/2009	710.00	6.15	MWD	Scientific Drilling
7/13/2009	741.00	7.00	MWD	Scientific Drilling
7/13/2009	772.00	8.07	MWD	Scientific Drilling
7/13/2009	803.00	9.17	MWD	Scientific Drilling
7/13/2009	832.00	10.09	MWD	Scientific Drilling
7/13/2009	863.00	11.14	MWD	Scientific Drilling
7/13/2009	894.00	12.20	MWD	Scientific Drilling
7/13/2009	924.00	13.08	MWD	Scientific Drilling
7/13/2009	955.00	13.93	MWD	Scientific Drilling
7/13/2009	986.00	15.27	MWD	Scientific Drilling
7/13/2009	1,017.00	16.18	MWD	Scientific Drilling
7/13/2009	1,047.00	17.07	MWD	Scientific Drilling
7/13/2009	1,080.00	18.05	MWD	Scientific Drilling
7/13/2009	1,112.00	18.66	MWD	Scientific Drilling
7/13/2009	1,144.00	19.73	MWD	Scientific Drilling
7/13/2009	1,175.00	20.57	MWD	Scientific Drilling
7/13/2009	1,207.00	20.73	MWD	Scientific Drilling
7/13/2009	1,238.00	21.17	MWD	Scientific Drilling
7/13/2009	1,270.00	21.59	MWD	Scientific Drilling
7/13/2009	1,301.00	22.36	MWD	Scientific Drilling
7/13/2009	1,333.00	22.59	MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report
SAN JUAN 28-5 UNIT #78N

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
7/13/2009	1,364.00	22.16	MWD	Scientific Drilling
7/14/2009	1,396.00	22.69	MWD	Scientific Drilling
7/14/2009	1,427.00	23.25	MWD	Scientific Drilling
7/14/2009	1,459.00	23.66	MWD	Scientific Drilling
7/14/2009	1,490.00	24.22	MWD	Scientific Drilling
7/14/2009	1,522.00	24.63	MWD	Scientific Drilling
7/14/2009	1,553.00	24.80	MWD	Scientific Drilling
7/14/2009	1,585.00	24.45	MWD	Scientific Drilling
7/14/2009	1,616.00	24.52	MWD	Scientific Drilling
7/14/2009	1,648.00	24.24	MWD	Scientific Drilling
7/14/2009	1,680.00	24.47	MWD	Scientific Drilling
7/14/2009	1,711.00	23.97	MWD	Scientific Drilling
7/14/2009	1,743.00	24.13	MWD	Scientific Drilling
7/14/2009	1,774.00	23.91	MWD	Scientific Drilling
7/14/2009	1,806.00	23.65	MWD	Scientific Drilling
7/14/2009	1,837.00	23.94	MWD	Scientific Drilling
7/14/2009	1,868.00	24.46	MWD	Scientific Drilling
7/14/2009	1,900.00	23.79	MWD	Scientific Drilling
7/14/2009	1,932.00	23.78	MWD	Scientific Drilling
7/14/2009	1,963.00	23.84	MWD	Scientific Drilling
7/14/2009	1,995.00	24.09	MWD	Scientific Drilling
7/14/2009	2,026.00	22.96	MWD	Scientific Drilling
7/14/2009	2,058.00	22.49	MWD	Scientific Drilling
7/14/2009	2,090.00	22.03	MWD	Scientific Drilling
7/14/2009	2,121.00	21.74	MWD	Scientific Drilling
7/14/2009	2,153.00	21.58	MWD	Scientific Drilling
7/14/2009	2,185.00	21.78	MWD	Scientific Drilling
7/14/2009	2,216.00	21.76	MWD	Scientific Drilling
7/14/2009	2,247.00	21.93	MWD	Scientific Drilling
7/14/2009	2,279.00	22.10	MWD	Scientific Drilling
7/14/2009	2,310.00	22.22	MWD	Scientific Drilling
7/14/2009	2,342.00	22.15	MWD	Scientific Drilling
7/14/2009	2,373.00	22.49	MWD	Scientific Drilling
7/14/2009	2,405.00	22.60	MWD	Scientific Drilling
7/14/2009	2,436.00	22.76	MWD	Scientific Drilling
7/14/2009	2,465.00	22.47	MWD	Scientific Drilling
7/14/2009	2,497.00	22.29	MWD	Scientific Drilling
7/14/2009	2,528.00	22.27	MWD	Scientific Drilling
7/14/2009	2,560.00	22.22	MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report **SAN JUAN 28-5 UNIT #78N**

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
7/14/2009	2,592.00	22.43	MWD	Scientific Drilling
7/14/2009	2,623.00	22.32	MWD	Scientific Drilling
7/14/2009	2,655.00	22.22	MWD	Scientific Drilling
7/14/2009	2,687.00	22.19	MWD	Scientific Drilling
7/14/2009	2,718.00	22.05	MWD	Scientific Drilling
7/14/2009	2,750.00	21.91	MWD	Scientific Drilling
7/14/2009	2,782.00	21.82	MWD	Scientific Drilling
7/14/2009	2,813.00	21.99	MWD	Scientific Drilling
7/14/2009	2,844.00	22.67	MWD	Scientific Drilling
7/14/2009	2,876.00	22.85	MWD	Scientific Drilling
7/14/2009	2,908.00	23.36	MWD	Scientific Drilling
7/14/2009	2,939.00	24.36	MWD	Scientific Drilling
7/14/2009	2,970.00	24.58	MWD	Scientific Drilling
7/14/2009	3,002.00	24.57	MWD	Scientific Drilling
7/14/2009	3,034.00	24.31	MWD	Scientific Drilling
7/14/2009	3,065.00	24.34	MWD	Scientific Drilling
7/14/2009	3,097.00	24.03	MWD	Scientific Drilling
7/14/2009	3,128.00	24.28	MWD	Scientific Drilling
7/14/2009	3,160.00	24.42	MWD	Scientific Drilling
7/14/2009	3,191.00	24.16	MWD	Scientific Drilling
7/14/2009	3,223.00	24.02	MWD	Scientific Drilling
7/14/2009	3,254.00	24.21	MWD	Scientific Drilling
7/15/2009	3,286.00	24.11	MWD	Scientific Drilling
7/15/2009	3,318.00	24.03	MWD	Scientific Drilling
7/15/2009	3,350.00	24.40	MWD	Scientific Drilling
7/15/2009	3,381.00	24.50	MWD	Scientific Drilling
7/15/2009	3,412.00	24.60	MWD	Scientific Drilling
7/15/2009	3,444.00	24.07	MWD	Scientific Drilling
7/15/2009	3,476.00	22.61	MWD	Scientific Drilling
7/15/2009	3,507.00	22.07	MWD	Scientific Drilling
7/15/2009	3,539.00	21.89	MWD	Scientific Drilling
7/15/2009	3,570.00	21.54	MWD	Scientific Drilling
7/15/2009	3,603.00	21.00	MWD	Scientific Drilling
7/15/2009	3,635.00	20.78	MWD	Scientific Drilling
7/15/2009	3,666.00	20.45	MWD	Scientific Drilling
7/15/2009	3,698.00	19.92	MWD	Scientific Drilling
7/15/2009	3,730.00	19.47	MWD	Scientific Drilling
7/15/2009	3,761.00	19.27	MWD	Scientific Drilling
7/15/2009	3,793.00	18.59	MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report **SAN JUAN 28-5 UNIT #78N**

Survey Data					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
7/15/2009	3,825.00	17.68	MWD	Scientific Drilling	
7/15/2009	3,856.00	17.25	MWD	Scientific Drilling	
7/15/2009	3,887.00	17.00	MWD	Scientific Drilling	
7/15/2009	3,919.00	17.35	MWD	Scientific Drilling	
7/15/2009	3,950.00	17.81	MWD	Scientific Drilling	
7/15/2009	3,982.00	17.81	MWD	Scientific Drilling	
7/15/2009	4,013.00	17.89	MWD	Scientific Drilling	
7/15/2009	4,045.00	17.81	MWD	Scientific Drilling	
7/15/2009	4,076.00	17.61	MWD	Scientific Drilling	
7/15/2009	4,108.00	17.40	MWD	Scientific Drilling	
7/15/2009	4,139.00	16.85	MWD	Scientific Drilling	
7/15/2009	4,171.00	17.21	MWD	Scientific Drilling	
7/15/2009	4,202.00	16.78	MWD	Scientific Drilling	
7/15/2009	4,234.00	16.06	MWD	Scientific Drilling	
7/15/2009	4,265.00	15.34	MWD	Scientific Drilling	
7/15/2009	4,297.00	14.81	MWD	Scientific Drilling	
7/15/2009	4,328.00	14.38	MWD	Scientific Drilling	
7/15/2009	4,360.00	13.92	MWD	Scientific Drilling	
7/15/2009	4,391.00	13.34	MWD	Scientific Drilling	
7/15/2009	4,423.00	12.92	MWD	Scientific Drilling	
7/16/2009	4,454.00	12.56	MWD	Scientific Drilling	
7/16/2009	4,486.00	12.04	MWD	Scientific Drilling	
7/16/2009	4,517.00	11.68	MWD	Scientific Drilling	
7/16/2009	4,548.00	11.40	MWD	Scientific Drilling	
7/16/2009	4,580.00	10.75	MWD	Scientific Drilling	
7/16/2009	4,612.00	10.32	MWD	Scientific Drilling	
7/17/2009	4,643.00	9.98	MWD	Scientific Drilling	
7/17/2009	4,675.00	9.92	MWD	Scientific Drilling	
7/17/2009	4,706.00	9.71	MWD	Scientific Drilling	
7/17/2009	4,738.00	9.60	MWD	Scientific Drilling	
7/17/2009	4,769.00	9.34	MWD	Scientific Drilling	
7/17/2009	4,800.00	9.27	MWD	Scientific Drilling	
7/17/2009	4,832.00	8.75	MWD	Scientific Drilling	
7/17/2009	4,864.00	8.88	MWD	Scientific Drilling	
7/17/2009	4,895.00	8.39	MWD	Scientific Drilling	
7/17/2009	4,927.00	7.75	MWD	Scientific Drilling	
7/17/2009	4,958.00	6.97	MWD	Scientific Drilling	
7/17/2009	4,989.00	6.12	MWD	Scientific Drilling	
7/18/2009	5,021.00	5.80	MWD	Scientific Drilling	

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
7/18/2009	5,052.00	5.11	MWD	Scientific Drilling
7/18/2009	5,084.00	4.29	MWD	Scientific Drilling
7/18/2009	5,115.00	3.49	MWD	Scientific Drilling
1/4/1900	5,134.00	2.71	MWD	Scientific Drilling
7/27/2009	8,315.00	1.00	FINAL BHS	PHOENIX

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

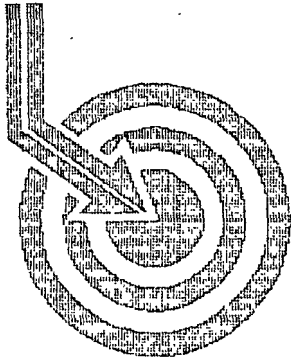
[Signature]

Subscribed and sworn to me this Oct 28, 2009

[Signature: Crystal L. Tafaya]

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010



Scientific Drilling

RCVD NOV 6 '09
OIL CONS. DIV.
DIST. 3

BURLINGTON RESOURCES

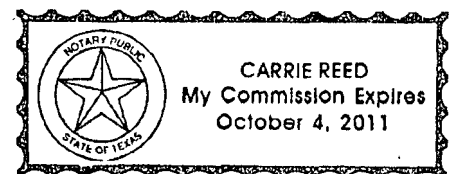
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #78N
Wellpath: DH - Job #33D0709125
Survey: 07/10/09-07/18/09
API # 30.039.30368

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....L. Wharton..... Company Representative

Notorized this date 24th of July, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES	Date: 07/24/2009	Time: 12:03:16	Page: 1
Field: San Juan	Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, True North		
Site: Rio Arriba County, NM	Vertical (TVD) Reference: SITE 0.0'		
Well: San Juan 28-5 #78N	Section (VS) Reference: Well (0.00N, 0.00E, 289.31Azi)		
Wellpath: DH - Job #33D0709125	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 07/10/09-07/18/09	Start Date: 07/10/2009
E-field: 0'-5134'	
Company: Scientific Drilling Internatio	Engineer: McCormick/Richey/Rodger/Elger/
Tool: E-field; E-field	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93.00	0.99	222.94	93.00	0.32	-0.59	-0.55	1.06	0.80	222.94
127.00	0.96	216.95	126.99	0.53	-1.03	-0.92	0.31	1.38	221.71
158.00	1.47	238.46	157.98	0.86	-1.45	-1.41	2.18	2.02	224.34
188.00	2.20	253.38	187.97	1.57	-1.81	-2.29	2.89	2.92	231.68
219.00	2.33	244.22	218.94	2.49	-2.26	-3.43	1.24	4.11	236.67
250.00	2.92	261.89	249.91	3.64	-2.64	-4.78	3.21	5.46	241.07
279.00	3.24	268.42	278.87	5.06	-2.77	-6.33	1.64	6.91	246.38
303.00	3.66	266.34	302.83	6.40	-2.84	-7.77	1.83	8.27	249.95
404.00	3.91	275.98	403.61	12.72	-2.68	-14.42	0.68	14.66	259.45
435.00	4.27	277.81	434.53	14.88	-2.42	-16.61	1.24	16.78	261.72
497.00	3.92	272.26	496.37	19.16	-2.02	-21.01	0.85	21.11	264.51
558.00	4.06	265.38	557.22	23.13	-2.11	-25.25	0.82	25.34	265.22
619.00	4.48	271.70	618.05	27.38	-2.21	-29.78	1.03	29.87	265.75
679.00	5.44	272.26	677.83	32.33	-2.03	-34.97	1.60	35.03	266.67
710.00	6.15	275.20	708.67	35.34	-1.82	-38.09	2.48	38.13	267.26
741.00	7.00	276.46	739.47	38.80	-1.46	-41.62	2.78	41.65	267.99
772.00	8.07	276.02	770.20	42.76	-1.02	-45.66	3.46	45.67	268.72
803.00	9.17	275.87	800.85	47.28	-0.54	-50.28	3.55	50.29	269.39
832.00	10.09	273.28	829.44	51.97	-0.16	-55.12	3.51	55.12	269.84
863.00	11.14	274.48	859.91	57.47	0.23	-60.81	3.46	60.82	270.22
894.00	12.20	272.97	890.27	63.51	0.64	-67.07	3.56	67.07	270.54
924.00	13.08	274.47	919.54	69.83	1.06	-73.62	3.13	73.63	270.83
955.00	13.93	273.71	949.68	76.82	1.58	-80.84	2.80	80.86	271.12
986.00	15.27	276.68	979.68	84.39	2.30	-88.62	4.95	88.65	271.48
1017.00	16.18	277.18	1009.52	92.60	3.31	-96.96	2.97	97.02	271.96
1047.00	17.07	276.64	1038.26	100.98	4.34	-105.48	3.01	105.57	272.36
1080.00	18.05	276.94	1069.73	110.70	5.52	-115.37	2.98	115.50	272.74
1112.00	18.66	276.53	1100.10	120.54	6.70	-125.38	1.95	125.55	273.06
1144.00	19.73	278.87	1130.32	130.84	8.12	-135.80	4.12	136.04	273.42
1175.00	20.57	279.82	1159.42	141.36	9.85	-146.34	2.91	146.67	273.85
1207.00	20.73	281.60	1189.37	152.52	11.95	-157.42	2.02	157.88	274.34
1238.00	21.17	285.10	1218.32	163.54	14.51	-168.20	4.28	168.83	274.93
1270.00	21.58	286.91	1248.12	175.18	17.73	-179.41	2.43	180.28	275.64
1301.00	22.36	289.49	1276.87	186.77	21.35	-190.42	4.00	191.62	276.40
1333.00	22.59	292.07	1306.44	199.00	25.69	-201.86	3.16	203.49	277.25
1364.00	22.16	292.50	1335.10	210.78	30.17	-212.78	1.48	214.91	278.07
1396.00	22.69	293.68	1364.68	222.96	34.96	-224.01	2.17	226.72	278.87
1427.00	23.25	293.37	1393.22	235.03	39.78	-235.10	1.85	238.44	279.60
1459.00	23.66	293.59	1422.58	247.73	44.86	-246.78	1.31	250.82	280.30
1490.00	24.22	293.00	1450.91	260.28	49.83	-258.33	1.96	263.10	280.92
1522.00	24.63	293.14	1480.05	273.48	55.02	-270.51	1.29	276.05	281.50
1553.00	24.80	292.42	1508.21	286.42	60.04	-282.46	1.12	288.77	282.00
1585.00	24.45	290.76	1537.30	299.74	64.94	-294.85	2.42	301.92	282.42
1616.00	24.52	289.26	1565.51	312.59	69.34	-306.93	2.02	314.66	282.73
1648.00	24.24	290.32	1594.66	325.80	73.81	-319.36	1.62	327.77	283.01
1680.00	24.47	291.39	1623.81	338.99	78.51	-331.69	1.55	340.85	283.32
1711.00	23.97	292.76	1652.08	351.69	83.29	-343.47	2.43	353.43	283.63
1743.00	24.13	293.98	1681.31	364.70	88.48	-355.44	1.63	366.28	283.98



Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #78N
Wellpath: DH - Job #33D0709125

Date: 07/24/2009 Time: 12:03:16 Page: 2
Co-ordinate(N/E) Reference: Site: Rio Arriba County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,289.31Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1774.00	23.91	292.47	1709.62	377.29	93.44	-367.04	2.11	378.74	284.28
1806.00	23.65	291.80	1738.90	390.17	98.30	-378.99	1.17	391.53	284.54
1837.00	23.94	291.23	1767.27	402.67	102.89	-390.62	1.19	403.95	284.76
1868.00	24.46	291.34	1795.54	415.37	107.50	-402.47	1.68	416.57	284.95
1900.00	23.79	291.55	1824.75	428.44	112.28	-414.64	2.11	429.57	285.15
1932.00	23.78	292.55	1854.03	441.33	117.13	-426.60	1.26	442.39	285.35
1963.00	23.84	292.48	1882.39	453.83	121.92	-438.16	0.21	454.81	285.55
1995.00	24.09	292.72	1911.63	466.80	126.91	-450.16	0.84	467.71	285.74
2026.00	22.96	291.86	1940.06	479.16	131.61	-461.61	3.81	480.00	285.91
2058.00	22.49	291.42	1969.57	491.51	136.17	-473.10	1.56	492.30	286.06
2090.00	22.03	290.56	1999.19	503.63	140.51	-484.42	1.76	504.38	286.18
2121.00	21.74	289.85	2027.95	515.18	144.50	-495.26	1.27	515.91	286.27
2153.00	21.58	289.70	2057.70	526.99	148.50	-506.37	0.53	527.70	286.34
2185.00	21.78	289.55	2087.43	538.81	152.47	-517.51	0.65	539.50	286.42
2216.00	21.76	289.82	2116.22	550.31	156.34	-528.33	0.33	550.98	286.48
2247.00	21.93	289.41	2144.99	561.85	160.21	-539.20	0.74	562.50	286.55
2279.00	22.10	290.16	2174.66	573.84	164.27	-550.49	1.03	574.47	286.62
2310.00	22.22	289.56	2203.37	585.53	168.24	-561.48	0.83	586.15	286.68
2342.00	22.15	289.90	2233.00	597.61	172.32	-572.86	0.46	598.22	286.74
2373.00	22.49	289.52	2261.68	609.39	176.29	-583.94	1.19	609.97	286.80
2405.00	22.60	289.95	2291.23	621.66	180.44	-595.49	0.62	622.23	286.86
2436.00	22.76	289.29	2319.84	633.61	184.45	-606.75	0.97	634.17	286.91
2465.00	22.47	289.39	2346.61	644.76	188.14	-617.27	1.01	645.31	286.95
2497.00	22.29	290.38	2376.20	656.94	192.29	-628.73	1.31	657.48	287.01
2528.00	22.27	291.22	2404.88	668.69	196.46	-639.72	1.03	669.20	287.07
2560.00	22.22	292.05	2434.50	680.80	200.93	-650.98	0.99	681.28	287.15
2592.00	22.43	291.56	2464.10	692.94	205.44	-662.26	0.88	693.40	287.23
2623.00	22.32	291.96	2492.77	704.73	209.82	-673.22	0.61	705.16	287.31
2655.00	22.22	291.70	2522.38	716.85	214.33	-684.48	0.44	717.25	287.39
2687.00	22.19	291.22	2552.01	728.93	218.75	-695.73	0.57	729.31	287.45
2718.00	22.05	291.20	2580.73	740.60	222.97	-706.62	0.45	740.96	287.51
2750.00	21.91	291.34	2610.40	752.57	227.32	-717.78	0.47	752.91	287.57
2782.00	21.82	291.79	2640.10	764.47	231.70	-728.86	0.59	764.80	287.64
2813.00	21.99	291.36	2668.86	776.03	235.95	-739.62	0.75	776.34	287.69
2844.00	22.67	291.39	2697.54	787.80	240.24	-750.58	2.19	788.09	287.75
2876.00	22.85	290.58	2727.04	800.18	244.68	-762.14	1.13	800.45	287.80
2908.00	23.36	290.28	2756.48	812.73	249.06	-773.91	1.64	813.00	287.84
2939.00	24.36	289.60	2784.83	825.27	253.33	-785.70	3.35	825.53	287.87
2970.00	24.58	289.83	2813.04	838.11	257.67	-797.79	0.77	838.36	287.90
3002.00	24.57	289.55	2842.15	851.42	262.15	-810.32	0.37	851.67	287.93
3034.00	24.31	289.35	2871.28	864.66	266.56	-822.80	0.85	864.90	287.95
3065.00	24.34	289.38	2899.53	877.43	270.79	-834.85	0.10	877.67	287.97
3097.00	24.03	289.37	2928.72	890.54	275.14	-847.21	0.97	890.77	287.99
3128.00	24.28	289.23	2957.00	903.22	279.34	-859.19	0.83	903.45	288.01
3160.00	24.42	288.99	2986.16	916.42	283.65	-871.65	0.54	916.65	288.03
3191.00	24.16	288.99	3014.41	929.17	287.80	-883.71	0.84	929.40	288.04
3223.00	24.02	289.77	3043.62	942.23	292.14	-896.03	1.09	942.45	288.06
3254.00	24.21	291.69	3071.92	954.89	296.62	-907.88	2.60	955.10	288.09
3286.00	24.11	291.91	3101.12	967.97	301.49	-920.04	0.42	968.17	288.14
3318.00	24.03	291.54	3130.33	981.01	306.32	-932.16	0.53	981.20	288.19
3350.00	24.40	291.65	3159.52	994.13	311.15	-944.36	1.16	994.30	288.24
3381.00	24.50	291.08	3187.74	1006.95	315.82	-956.31	0.83	1007.11	288.28



Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #78N
Wellpath: DH - Job #33D0709125

Date: 07/24/2009 Time: 12:03:16 Page: 3
Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E 289.31Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3412.00	24.60	291.95	3215.94	1019.82	320.54	-968.30	1.21	1019.97	288.32
3444.00	24.07	291.17	3245.09	1033.00	325.39	-980.56	1.94	1033.14	288.36
3476.00	22.61	290.55	3274.47	1045.67	329.91	-992.40	4.63	1045.80	288.39
3507.00	22.07	291.33	3303.15	1057.45	334.12	-1003.41	1.99	1057.58	288.42
3539.00	21.89	290.95	3332.82	1069.42	338.44	-1014.58	0.72	1069.54	288.45
3570.00	21.54	291.21	3361.62	1080.88	342.56	-1025.28	1.17	1081.00	288.48
3603.00	21.00	290.84	3392.37	1092.85	346.86	-1036.46	1.69	1092.96	288.50
3635.00	20.78	290.76	3422.27	1104.25	350.91	-1047.12	0.69	1104.36	288.53
3666.00	20.45	290.29	3451.28	1115.17	354.74	-1057.35	1.19	1115.27	288.55
3698.00	19.92	290.55	3481.32	1126.21	358.59	-1067.69	1.68	1126.30	288.56
3730.00	19.47	289.68	3511.45	1136.99	362.30	-1077.82	1.68	1137.08	288.58
3761.00	19.27	289.71	3540.69	1147.27	365.76	-1087.50	0.65	1147.36	288.59
3793.00	18.59	289.35	3570.96	1157.65	369.23	-1097.28	2.16	1157.74	288.60
3825.00	17.68	289.09	3601.37	1167.61	372.51	-1106.69	2.85	1167.70	288.60
3856.00	17.25	288.76	3630.94	1176.92	375.53	-1115.49	1.42	1177.00	288.61
3887.00	17.00	288.84	3660.57	1186.04	378.47	-1124.13	0.81	1186.13	288.61
3919.00	17.35	290.18	3691.14	1195.49	381.63	-1133.04	1.65	1195.58	288.61
3950.00	17.81	291.29	3720.69	1204.85	384.95	-1141.79	1.84	1204.94	288.63
3982.00	17.81	290.67	3751.16	1214.63	388.45	-1150.93	0.59	1214.72	288.65
4013.00	17.89	291.09	3780.67	1224.13	391.84	-1159.81	0.49	1224.21	288.67
4045.00	17.81	292.65	3811.13	1233.93	395.49	-1168.91	1.52	1234.00	288.69
4076.00	17.61	292.55	3840.66	1243.35	399.11	-1177.62	0.65	1243.41	288.72
4108.00	17.40	292.16	3871.18	1252.96	402.78	-1186.52	0.75	1253.02	288.75
4139.00	16.85	293.23	3900.80	1262.07	406.30	-1194.94	2.04	1262.12	288.78
4171.00	17.21	293.22	3931.40	1271.42	409.99	-1203.55	1.13	1271.47	288.81
4202.00	16.78	292.62	3961.04	1280.46	413.52	-1211.90	1.50	1280.51	288.84
4234.00	16.06	292.15	3991.74	1289.49	416.97	-1220.26	2.29	1289.53	288.87
4265.00	15.34	291.62	4021.58	1297.87	420.09	-1228.04	2.37	1297.91	288.88
4297.00	14.81	291.88	4052.48	1306.19	423.18	-1235.77	1.67	1306.22	288.90
4328.00	14.38	291.20	4082.48	1314.00	426.05	-1243.04	1.49	1314.03	288.92
4360.00	13.92	291.48	4113.51	1321.81	428.89	-1250.33	1.45	1321.84	288.93
4391.00	13.34	290.46	4143.64	1329.11	431.51	-1257.15	2.03	1329.14	288.94
4423.00	12.92	291.52	4174.80	1336.38	434.11	-1263.93	1.51	1336.41	288.96
4454.00	12.56	291.59	4205.04	1343.21	436.62	-1270.29	1.16	1343.24	288.97
4486.00	12.04	291.52	4236.30	1350.02	439.13	-1276.63	1.63	1350.05	288.98
4517.00	11.68	291.59	4266.64	1356.39	441.47	-1282.56	1.16	1356.41	288.99
4548.00	11.40	292.01	4297.01	1362.59	443.77	-1288.32	0.94	1362.60	289.01
4580.00	10.75	292.36	4328.42	1368.72	446.09	-1294.01	2.04	1368.74	289.02
4612.00	10.32	292.00	4359.88	1374.57	448.30	-1299.43	1.36	1374.58	289.03
4643.00	9.98	291.72	4390.39	1380.03	450.33	-1304.50	1.11	1380.04	289.05
4675.00	9.92	291.36	4421.91	1385.55	452.36	-1309.64	0.27	1385.56	289.06
4706.00	9.71	291.26	4452.46	1390.83	454.28	-1314.56	0.68	1390.84	289.06
4738.00	9.60	291.08	4484.00	1396.20	456.22	-1319.57	0.36	1396.21	289.07
4769.00	9.34	291.31	4514.58	1401.29	458.07	-1324.32	0.85	1401.30	289.08
4800.00	9.27	292.82	4545.17	1406.30	459.95	-1328.97	0.82	1406.31	289.09
4832.00	8.75	293.02	4576.78	1411.30	461.90	-1333.58	1.63	1411.31	289.10
4864.00	8.88	292.95	4608.40	1416.20	463.82	-1338.10	0.41	1416.20	289.12
4895.00	8.39	291.42	4639.05	1420.84	465.57	-1342.41	1.75	1420.85	289.13
4927.00	7.75	292.21	4670.73	1425.33	467.24	-1346.58	2.03	1425.34	289.14
4958.00	6.97	297.58	4701.48	1429.28	468.90	-1350.18	3.35	1429.29	289.15
4989.00	6.12	299.37	4732.28	1432.77	470.59	-1353.29	2.82	1432.77	289.17
5021.00	5.80	301.90	4764.10	1436.03	472.28	-1356.15	1.29	1436.03	289.20
5052.00	5.11	307.17	4794.96	1438.87	473.94	-1358.58	2.75	1438.87	289.23



Scientific Drilling International

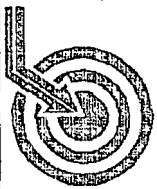
Survey Report

Company: BURLINGTON RESOURCES
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5.#78N
Wellpath: DH - Job #33D0709125

Date: 07/24/2009 Time: 12:03:16 Page: 4
Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, True North
Vertical (TVD) Reference: SITE-0.0
Section (VS) Reference: Well (0.00N,0.00E,289.31Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/V ft	DLS deg/100ft	ClsD ft	ClsA deg
5084.00	4.29	311.42	4826.85	1441.33	475.59	-1360.61	2.78	1441.33	289.27
5115.00	3.49	319.40	4857.78	1443.22	477.07	-1362.09	3.11	1443.22	289.30
5134.00	2.71	326.81	4876.76	1444.08	477.89	-1362.72	4.61	1444.08	289.33



Scientific
Drilling

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #78N
Wellpath: DH - Job #33D0709125
Survey: 07/10/09-07/18/09

