

DISTRICT I
1625 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

RCVD JAN 10 '08
☐ AMENDED REPORT

"AS-DRILLED PLAT"

WELL LOCATION AND ACREAGE DEDICATION PLAT OIL CONS. DIV.

¹ API Number 30-039-27823	² Pool Code 71599 / 72319	³ Pool Name DIST. 3 BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7460	⁵ Property Name SAN JUAN 28-5 UNIT	⁶ Well Number 31B
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 7305'

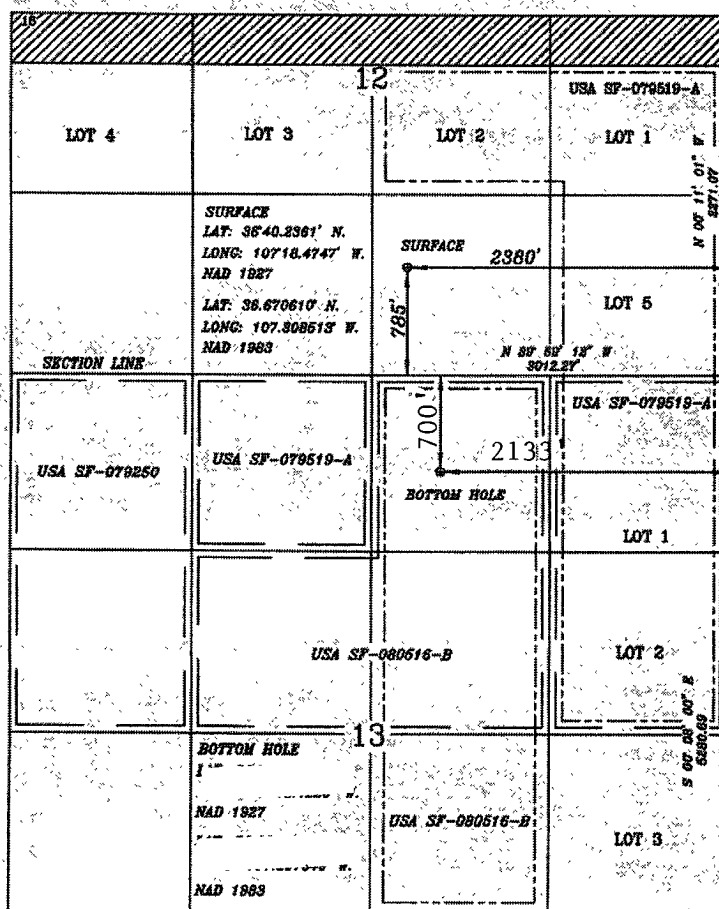
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	28-N	5-W		785'	SOUTH	2380'	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	28-N	5-W		700	NORTH	2133	EAST	RIO ARRIBA
¹² Dedicated Acres 343.07			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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



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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Tamra Sessions 1/9/08
Signature Date

Tamra Sessions Regulatory Tech

Printed Name

¹⁸ SURVEYOR CERTIFICATION

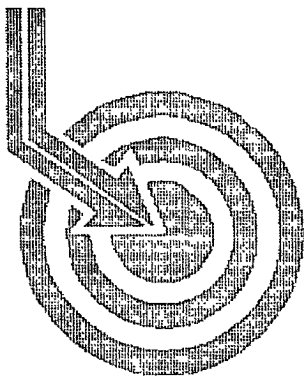
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

9/2/06
Date of Survey

Signature and Seal of Professional Surveyor:

Glen Russell

15703
Certificate Number



Scientific Drilling

RCVD JAN 10 '08
OIL CONS. DIV.

DIST. 3

BURLINGTON RESOURCES

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #31B
Wellpath: DH - Job #33D0807709
Survey: 08/20/07-08/25/07

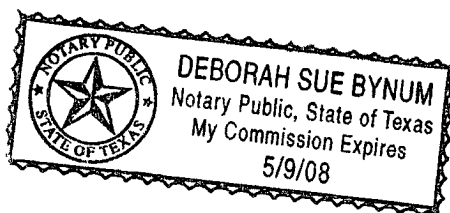
At 1-11-08

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

Chastor Company Representative

Notorized this date 3rd of January, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES	Date: 01/03/2008	Time: 12:23:49	Page: 1
Field: San Juan	Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, Grid North		
Site: Rio Arriba County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: San Juan 28-5 #31B	Section (VS) Reference: Well (0.00N;0.00E,170.40Azi)		
Wellpath: DH - Job #33D0807709	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 08/20/07-08/25/07	Start Date: 08/20/2007
E-field 0'-5618'	
Company: Scientific Drilling Internatio	Engineer: Vestal/Gillespie/Kelly/Gieser/
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
419.00	1.07	342.25	418.98	-3.87	3.73	-1.19	0.26	3.91	342.25
511.00	0.64	175.69	510.97	-4.21	4.03	-1.42	1.85	4.27	340.65
602.00	3.94	165.81	601.89	-0.59	0.49	-0.61	3.64	0.79	308.89
664.00	5.13	164.41	663.69	4.29	-4.24	0.66	1.93	4.29	171.21
724.00	6.35	161.03	723.39	10.23	-9.96	2.46	2.11	10.26	166.16
755.00	7.12	164.16	754.18	13.84	-13.43	3.54	2.75	13.89	165.25
816.00	8.66	164.33	814.60	22.16	-21.49	5.81	2.52	22.26	164.87
879.00	10.01	165.77	876.76	32.33	-31.37	8.44	2.17	32.48	164.95
941.00	11.67	174.22	937.66	43.96	-42.83	10.39	3.70	44.07	166.36
1005.00	13.48	172.83	1000.12	57.88	-56.67	11.98	2.87	57.92	168.07
1069.00	15.30	175.88	1062.11	73.74	-72.50	13.51	3.08	73.75	169.44
1132.00	16.71	174.73	1122.67	91.04	-89.81	14.94	2.29	91.04	170.55
1195.00	17.97	174.02	1182.80	109.77	-108.49	16.79	2.03	109.78	171.20
1258.00	19.23	170.30	1242.51	129.85	-128.39	19.55	2.75	129.87	171.34
1320.00	20.43	173.06	1300.84	150.87	-149.19	22.58	2.45	150.89	171.40
1381.00	20.43	172.52	1358.00	172.14	-170.32	25.25	0.31	172.18	171.57
1443.00	20.40	170.92	1416.10	193.76	-191.72	28.36	0.90	193.80	171.58
1505.00	20.03	172.25	1474.29	215.18	-212.91	31.50	0.95	215.23	171.58
1567.00	19.68	174.05	1532.60	236.21	-233.81	34.01	1.14	236.27	171.72
1630.00	20.15	171.62	1591.83	257.65	-255.10	36.69	1.51	257.73	171.81
1691.00	20.58	170.29	1649.02	278.87	-276.06	40.03	1.04	278.95	171.75
1755.00	20.16	172.46	1709.02	301.14	-298.08	43.38	1.35	301.22	171.72
1818.00	20.18	171.75	1768.16	322.86	-319.60	46.36	0.39	322.94	171.75
1880.00	20.28	170.29	1826.33	344.29	-340.77	49.71	0.83	344.38	171.70
1943.00	20.10	173.34	1885.46	366.02	-362.29	52.81	1.69	366.12	171.71
2007.00	19.90	173.79	1945.60	387.88	-384.04	55.26	0.39	387.99	171.81
2068.00	20.08	172.59	2002.93	408.70	-404.74	57.73	0.73	408.84	171.88
2130.00	20.83	170.74	2061.02	430.36	-426.18	60.88	1.60	430.51	171.87
2193.00	20.94	170.58	2119.88	452.82	-448.34	64.53	0.20	452.96	171.81
2257.00	20.80	168.23	2179.68	475.61	-470.75	68.72	1.33	475.74	171.70
2320.00	20.49	169.59	2238.64	497.82	-492.54	72.99	0.91	497.92	171.57
2381.00	20.27	171.44	2295.82	519.06	-513.49	76.49	1.12	519.16	171.53
2445.00	20.23	170.08	2355.86	541.21	-535.36	80.05	0.74	541.31	171.50
2507.00	20.15	171.51	2414.05	562.60	-556.48	83.47	0.81	562.70	171.47
2570.00	19.92	169.23	2473.24	584.18	-577.75	87.08	1.29	584.28	171.43
2631.00	20.03	171.28	2530.57	605.02	-598.29	90.60	1.16	605.11	171.39
2695.00	20.85	171.14	2590.54	627.37	-620.38	94.02	1.28	627.46	171.38
2756.00	21.17	169.88	2647.49	649.24	-641.94	97.63	0.91	649.33	171.35
2819.00	21.65	168.36	2706.14	672.23	-664.53	101.97	1.16	672.30	171.28
2883.00	21.36	171.07	2765.69	695.68	-687.60	106.16	1.62	695.75	171.22
2945.00	21.60	168.59	2823.38	718.38	-709.95	110.17	1.51	718.44	171.18
3006.00	21.00	168.97	2880.21	740.53	-731.68	114.49	1.01	740.58	171.11
3070.00	21.08	169.96	2939.95	763.50	-754.27	118.69	0.57	763.55	171.06
3134.00	20.70	172.39	2999.74	786.31	-776.81	122.19	1.48	786.37	171.06
3197.00	20.32	171.93	3058.75	808.38	-798.68	125.20	0.66	808.43	171.09
3259.00	20.24	169.84	3116.91	829.86	-819.90	128.60	1.18	829.92	171.09
3323.00	19.65	169.92	3177.07	851.69	-841.39	132.44	0.92	851.75	171.05
3387.00	19.29	169.98	3237.41	873.02	-862.39	136.16	0.56	873.08	171.03



Scientific
Drilling

Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES

Date: 01/03/2008

Time: 12:23:49

Page: 2

Field: San Juan

Co-ordinate(NE) Reference:

Site: Rio Arriba County, NM, Grid North

Site: Rio Arriba County, NM

Vertical (TVD) Reference:

SITE 0.0

Well: San Juan 28-5 #31B

Section (VS) Reference:

Well (0.00N,0.00E,170.40Azi)

Wellpath: DH- Job #33D0807709

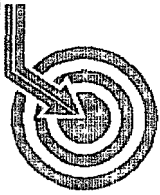
Survey Calculation Method:

Minimum Curvature

Db: Sybase

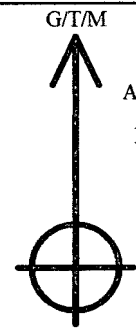
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3449.00	19.13	170.50	3295.95	893.42	-882.50	139.62	0.38	893.47	171.01
3512.00	19.74	172.74	3355.37	914.38	-903.23	142.67	1.53	914.43	171.02
3574.00	19.59	170.21	3413.75	935.23	-923.86	145.76	1.39	935.29	171.03
3636.00	20.22	173.45	3472.05	956.33	-944.75	148.75	2.05	956.39	171.05
3699.00	20.82	170.21	3531.05	978.40	-966.60	151.90	2.04	978.46	171.07
3762.00	20.12	173.44	3590.08	1000.41	-988.40	155.04	2.11	1000.48	171.09
3826.00	20.23	169.15	3650.15	1022.47	-1010.20	158.38	2.32	1022.54	171.09
3889.00	20.00	171.80	3709.31	1044.13	-1031.56	161.96	1.49	1044.20	171.08
3952.00	19.94	171.80	3768.52	1065.64	-1052.86	165.03	0.10	1065.72	171.09
4016.00	19.66	169.39	3828.74	1087.31	-1074.24	168.57	1.35	1087.39	171.08
4078.00	18.93	167.62	3887.26	1107.79	-1094.32	172.65	1.51	1107.86	171.03
4141.00	18.60	167.74	3946.91	1128.03	-1114.12	176.97	0.53	1128.09	170.97
4204.00	18.08	170.14	4006.71	1147.84	-1133.57	180.78	1.46	1147.89	170.94
4267.00	18.32	170.46	4066.56	1167.52	-1152.96	184.10	0.41	1167.57	170.93
4330.00	17.90	168.42	4126.44	1187.10	-1172.21	187.68	1.21	1187.14	170.90
4393.00	17.71	169.19	4186.42	1206.35	-1191.11	191.42	0.48	1206.39	170.87
4457.00	17.45	173.85	4247.43	1225.67	-1210.21	194.28	2.24	1225.71	170.88
4521.00	18.26	172.83	4308.35	1245.26	-1229.70	196.55	1.36	1245.31	170.92
4584.00	20.23	174.97	4367.83	1265.98	-1250.35	198.74	3.32	1266.05	170.97
4646.00	20.90	173.08	4425.88	1287.72	-1272.01	201.01	1.52	1287.79	171.02
4707.00	20.63	171.46	4482.92	1309.33	-1293.43	203.92	1.04	1309.41	171.04
4770.00	19.42	171.28	4542.11	1330.90	-1314.76	207.16	1.92	1330.98	171.05
4833.00	18.52	170.58	4601.68	1351.38	-1334.99	210.38	1.47	1351.46	171.04
4896.00	17.46	170.57	4661.60	1370.83	-1354.18	213.57	1.68	1370.92	171.04
4957.00	16.69	169.03	4719.91	1388.74	-1371.81	216.74	1.46	1388.82	171.02
5021.00	15.54	169.89	4781.40	1406.50	-1389.27	219.99	1.84	1406.58	171.00
5082.00	14.75	170.56	4840.28	1422.44	-1404.98	222.70	1.33	1422.52	170.99
5146.00	13.70	169.56	4902.32	1438.17	-1420.47	225.41	1.68	1438.24	170.98
5209.00	12.40	166.18	4963.69	1452.37	-1434.37	228.37	2.39	1452.44	170.95
5272.00	11.33	165.65	5025.34	1465.29	-1446.94	231.52	1.71	1465.34	170.91
5334.00	9.66	164.60	5086.30	1476.53	-1457.85	234.42	2.71	1476.58	170.87
5397.00	7.81	156.55	5148.57	1485.95	-1466.88	237.52	3.51	1485.98	170.80
5461.00	5.98	152.55	5212.11	1493.34	-1473.83	240.79	2.95	1493.37	170.72
5524.00	5.17	150.62	5274.81	1499.14	-1479.21	243.70	1.32	1499.15	170.64
5585.00	3.91	151.89	5335.61	1503.70	-1483.44	246.02	2.07	1503.70	170.58
5618.00	3.73	142.45	5368.54	1505.71	-1485.28	247.21	1.98	1505.72	170.55



**Scientific
Drilling**

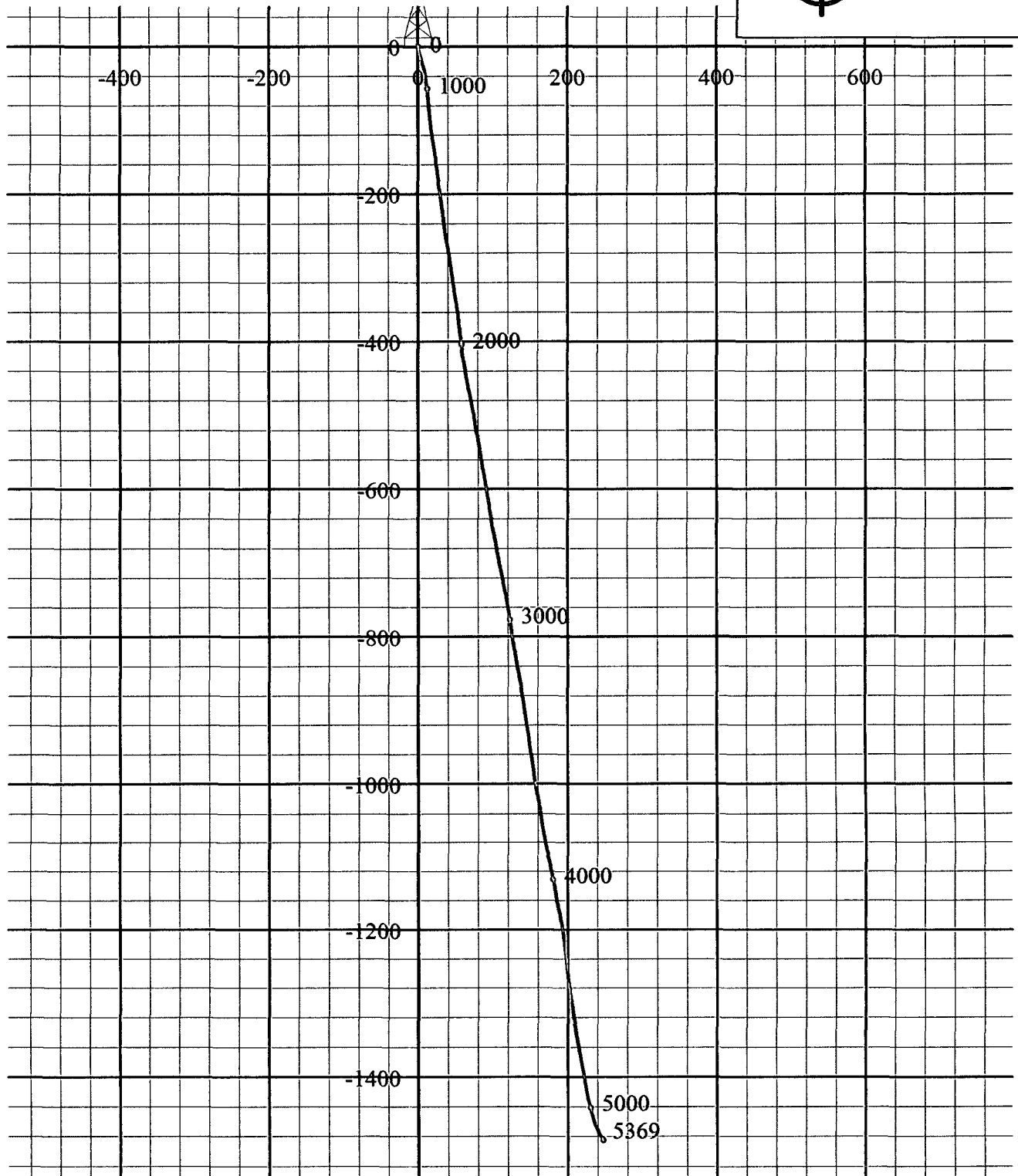
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #31B
Wellpath: DH - Job #33D0807709
Survey: 08/20/07-08/25/07



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 01/02/2008
Model: igrf2000

South(-)/North(+) [200ft/in]



West(-)/East(+) [200ft/in]

COP Deviation Report
SAN JUAN 28-5 UNIT #31B

Survey Data

Date	MD (ft)	Incl (°)	Method	Survey Company
8/24/2007	5,021.00	15.54	MWD	Scientific Drilling
8/24/2007	5,082.00	14.75	MWD	Scientific Drilling
8/24/2007	5,146.00	13.70	MWD	Scientific Drilling
8/24/2007	5,209.00	12.40	MWD	Scientific Drilling
8/24/2007	5,272.00	11.33	MWD	Scientific Drilling
8/24/2007	5,334.00	9.66	MWD	Scientific Drilling
8/25/2007	5,397.00	7.81	MWD	Scientific Drilling
8/25/2007	5,461.00	5.98	MWD	Scientific Drilling
8/25/2007	5,524.00	5.17	MWD	Scientific Drilling
8/25/2007	5,585.00	3.91	MWD	Scientific Drilling
8/25/2007	5,618.00	3.73	MWD	Scientific Drilling
8/25/2007	5,680.00	2.80	MWD	Scientific Drilling
10/2/2007	8,971.00	1.00	FINAL BHS	PHOENIX

RCVD JAN 10 '08
OIL CONS. DIV.
DIST. 3

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 12-3-07

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires January 10, 2011



P. Russell

COP Deviation Report
SAN JUAN 28-5 UNIT #31B

Operator BURLINGTON RESOURCES OIL & GAS CO	Legal WellName SAN JUAN 28-5 UNIT #31B	API / UWI 3003927823	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location NMPM, 012O-028N-005W	N/S Dist (ft) 785.00	N/S Ref S	E/W Dist (ft) 2,380.00	E/W Ref E

Date	MD (ftKB)	Incl (°)	Method	Survey Company
8/20/2007	0.00	0.00	MWD	Scientific Drilling
8/21/2007	419.00	1.07	MWD	Scientific Drilling
8/21/2007	511.00	0.64	MWD	Scientific Drilling
8/21/2007	602.00	3.94	MWD	Scientific Drilling
8/21/2007	664.00	5.13	MWD	Scientific Drilling
8/21/2007	724.00	6.35	MWD	Scientific Drilling
8/21/2007	755.00	7.12	MWD	Scientific Drilling
8/21/2007	816.00	8.66	MWD	Scientific Drilling
8/21/2007	879.00	10.01	MWD	Scientific Drilling
8/21/2007	941.00	11.67	MWD	Scientific Drilling
8/21/2007	1,005.00	13.48	MWD	Scientific Drilling
8/21/2007	1,069.00	15.30	MWD	Scientific Drilling
8/21/2007	1,132.00	16.71	MWD	Scientific Drilling
8/21/2007	1,195.00	17.97	MWD	Scientific Drilling
8/21/2007	1,258.00	19.23	MWD	Scientific Drilling
8/21/2007	1,320.00	20.43	MWD	Scientific Drilling
8/21/2007	1,381.00	20.43	MWD	Scientific Drilling
8/21/2007	1,443.00	20.40	MWD	Scientific Drilling
8/21/2007	1,505.00	20.03	MWD	Scientific Drilling
8/21/2007	1,567.00	19.68	MWD	Scientific Drilling
8/21/2007	1,630.00	20.15	MWD	Scientific Drilling
8/21/2007	1,691.00	20.58	MWD	Scientific Drilling
8/21/2007	1,755.00	20.16	MWD	Scientific Drilling
8/21/2007	1,818.00	20.18	MWD	Scientific Drilling
8/21/2007	1,880.00	20.28	MWD	Scientific Drilling
8/22/2007	1,943.00	20.10	MWD	Scientific Drilling
8/22/2007	2,007.00	19.90	MWD	Scientific Drilling
8/22/2007	2,068.00	20.08	MWD	Scientific Drilling
8/22/2007	2,130.00	20.83	MWD	Scientific Drilling
8/22/2007	2,193.00	20.94	MWD	Scientific Drilling
8/22/2007	2,257.00	20.80	MWD	Scientific Drilling
8/22/2007	2,320.00	20.49	MWD	Scientific Drilling
8/22/2007	2,381.00	20.27	MWD	Scientific Drilling
8/22/2007	2,445.00	20.23	MWD	Scientific Drilling
8/22/2007	2,507.00	20.15	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 #31B

ConocoPhillips

Survey Data	Date	MD (tkB)	Incl. (%)	Method	Survey Company
8/22/2007	2,570.00	19.92	MWD	Scientific Drilling	
8/22/2007	2,631.00	20.03	MWD	Scientific Drilling	
8/22/2007	2,695.00	20.85	MWD	Scientific Drilling	
8/22/2007	2,756.00	21.17	MWD	Scientific Drilling	
8/22/2007	2,819.00	21.65	MWD	Scientific Drilling	
8/22/2007	2,883.00	21.35	MWD	Scientific Drilling	
8/22/2007	2,945.00	21.60	MWD	Scientific Drilling	
8/22/2007	3,006.00	21.00	MWD	Scientific Drilling	
8/22/2007	3,070.00	21.08	MWD	Scientific Drilling	
8/22/2007	3,134.00	20.70	MWD	Scientific Drilling	
8/22/2007	3,197.00	20.32	MWD	Scientific Drilling	
8/22/2007	3,259.00	20.24	MWD	Scientific Drilling	
8/22/2007	3,323.00	19.65	MWD	Scientific Drilling	
8/22/2007	3,387.00	19.29	MWD	Scientific Drilling	
8/22/2007	3,449.00	19.13	MWD	Scientific Drilling	
8/23/2007	3,512.00	19.74	MWD	Scientific Drilling	
8/23/2007	3,574.00	19.59	MWD	Scientific Drilling	
8/23/2007	3,636.00	20.22	MWD	Scientific Drilling	
8/23/2007	3,699.00	20.82	MWD	Scientific Drilling	
8/23/2007	3,762.00	20.12	MWD	Scientific Drilling	
8/23/2007	3,826.00	20.23	MWD	Scientific Drilling	
8/23/2007	3,889.00	20.00	MWD	Scientific Drilling	
8/23/2007	3,952.00	19.94	MWD	Scientific Drilling	
8/23/2007	4,016.00	19.66	MWD	Scientific Drilling	
8/23/2007	4,078.00	18.93	MWD	Scientific Drilling	
8/23/2007	4,141.00	18.60	MWD	Scientific Drilling	
8/23/2007	4,204.00	18.08	MWD	Scientific Drilling	
8/23/2007	4,267.00	18.32	MWD	Scientific Drilling	
8/23/2007	4,330.00	17.90	MWD	Scientific Drilling	
8/23/2007	4,393.00	17.71	MWD	Scientific Drilling	
8/23/2007	4,457.00	17.45	MWD	Scientific Drilling	
8/23/2007	4,521.00	18.36	MWD	Scientific Drilling	
8/23/2007	4,584.00	20.23	MWD	Scientific Drilling	
8/24/2007	4,646.00	20.90	MWD	Scientific Drilling	
8/24/2007	4,707.00	20.63	MWD	Scientific Drilling	
8/24/2007	4,770.00	19.42	MWD	Scientific Drilling	
8/24/2007	4,833.00	18.52	MWD	Scientific Drilling	
8/24/2007	4,896.00	17.46	MWD	Scientific Drilling	
8/24/2007	4,957.00	16.69	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 _____