

"As Drilled Plat"

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

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

DISTRICT IV
1220 South 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30668	² Pool Code 71599/72319	Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 16N
⁷ GRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Elevation 6329'

¹⁰ Surface Location

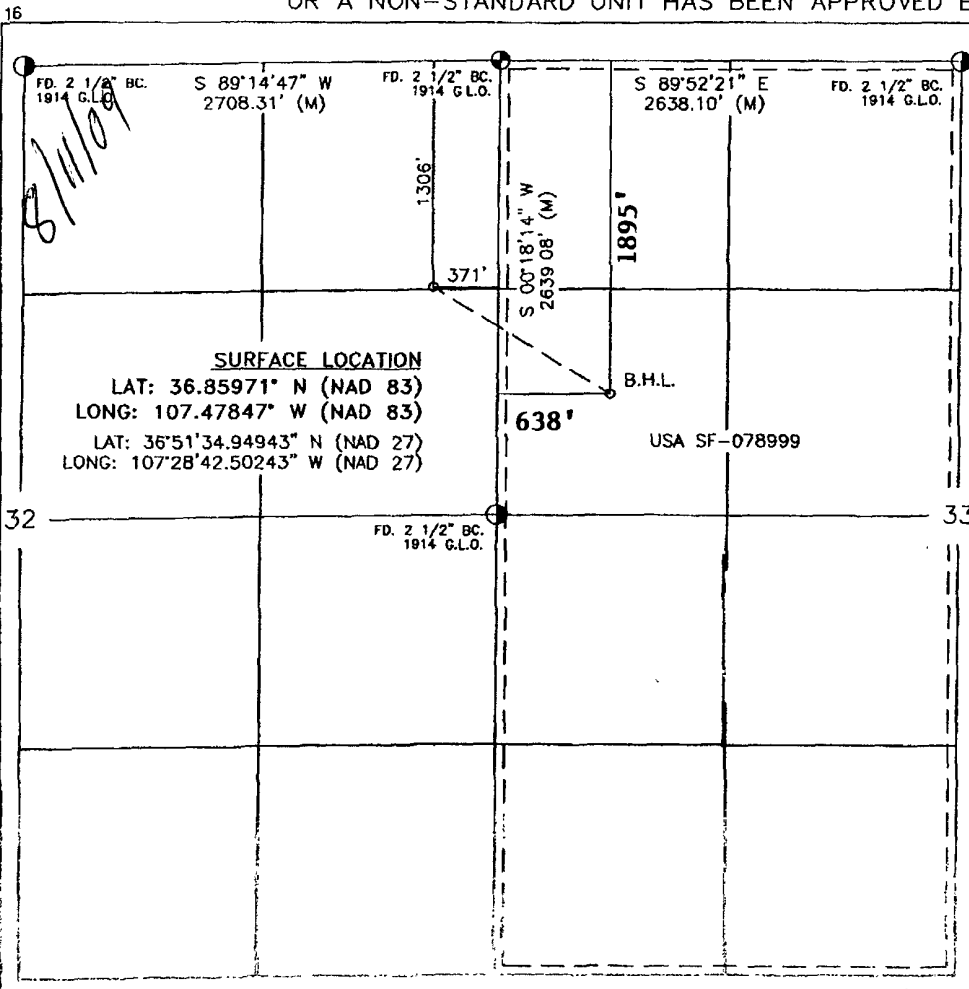
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	31-N	6-W		1306	NORTH	371	EAST	RIO ARRIBA

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
E	33	31-N	6-W		1895'	NORTH	638'	WEST	RIO ARRIBA

¹² Dedicated Acres W/2 - 320 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD AUG 11 '09 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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ethel Tally 8/10/09
Signature Date

Ethel Tally
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 knowledge and belief.

JULY 9, 2008
Date of Survey
Signature and Seal of Professional Surveyor:
ROY A. RUSH
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8894
07-25-08
Certificate Number

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 31-6 UNIT #16N	API / UWI 3003930668	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 032-031N-006W-A	N/S Dist (ft) 1,306.00	N/S Ref FNL	E/W Dist (ft) 371.00	E/W Ref FEL

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
4/30/2009	120.00	1.00	MOTE	Scientific Drilling
4/30/2009	230.00	1.00	MOTE	Scientific Drilling
5/5/2009	291.00	2.46	MWD	Scientific Drilling
5/5/2009	352.00	3.03	MWD	Scientific Drilling
5/5/2009	414.00	3.84	MWD	Scientific Drilling
5/5/2009	475.00	4.86	MWD	Scientific Drilling
5/5/2009	535.00	6.20	MWD	Scientific Drilling
5/5/2009	596.00	7.11	MWD	Scientific Drilling
5/5/2009	657.00	8.31	MWD	Scientific Drilling
5/5/2009	719.00	9.54	MWD	Scientific Drilling
5/5/2009	783.00	10.36	MWD	Scientific Drilling
5/5/2009	845.00	11.21	MWD	Scientific Drilling
5/5/2009	909.00	12.19	MWD	Scientific Drilling
5/5/2009	973.00	13.51	MWD	Scientific Drilling
5/5/2009	1,036.00	13.91	MWD	Scientific Drilling
5/5/2009	1,100.00	15.11	MWD	Scientific Drilling
5/5/2009	1,163.00	15.60	MWD	Scientific Drilling
5/6/2009	1,226.00	16.62	MWD	Scientific Drilling
5/6/2009	1,288.00	17.27	MWD	Scientific Drilling
5/6/2009	1,352.00	17.99	MWD	Scientific Drilling
5/6/2009	1,416.00	18.91	MWD	Scientific Drilling
5/6/2009	1,479.00	19.90	MWD	Scientific Drilling
5/6/2009	1,542.00	20.89	MWD	Scientific Drilling
5/6/2009	1,605.00	21.80	MWD	Scientific Drilling
5/6/2009	1,669.00	23.28	MWD	Scientific Drilling
5/6/2009	1,732.00	24.19	MWD	Scientific Drilling
5/6/2009	1,795.00	24.36	MWD	Scientific Drilling
5/6/2009	1,858.00	24.51	MWD	Scientific Drilling
5/6/2009	1,922.00	24.39	MWD	Scientific Drilling
5/7/2009	1,985.00	24.70	MWD	Scientific Drilling
5/7/2009	2,048.00	24.80	MWD	Scientific Drilling
5/7/2009	2,112.00	25.07	MWD	Scientific Drilling
5/7/2009	2,176.00	24.71	MWD	Scientific Drilling
5/7/2009	2,302.00	24.60	MWD	Scientific Drilling
5/7/2009	2,365.00	24.32	MWD	Scientific Drilling
5/7/2009	2,427.00	24.51	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
5/7/2009	2,490.00	25.39	MWD	Scientific Drilling
5/7/2009	2,555.00	25.57	MWD	Scientific Drilling
5/7/2009	2,618.00	25.71	MWD	Scientific Drilling
5/7/2009	2,681.00	26.02	MWD	Scientific Drilling
5/7/2009	2,744.00	26.12	MWD	Scientific Drilling
5/7/2009	2,807.00	26.44	MWD	Scientific Drilling
5/7/2009	2,871.00	26.63	MWD	Scientific Drilling
5/7/2009	2,934.00	25.30	MWD	Scientific Drilling
5/7/2009	2,995.00	24.50	MWD	Scientific Drilling
5/7/2009	3,058.00	23.11	MWD	Scientific Drilling
5/7/2009	3,185.00	20.97	MWD	Scientific Drilling
5/7/2009	3,248.00	20.33	MWD	Scientific Drilling
5/7/2009	3,311.00	18.97	MWD	Scientific Drilling
5/7/2009	3,373.00	18.72	MWD	Scientific Drilling
5/7/2009	3,436.00	19.21	MWD	Scientific Drilling
5/7/2009	3,499.00	19.04	MWD	Scientific Drilling
5/7/2009	3,563.00	18.88	MWD	Scientific Drilling
5/7/2009	3,624.00	18.09	MWD	Scientific Drilling
5/7/2009	3,687.00	16.54	MWD	Scientific Drilling
5/7/2009	3,750.00	15.40	MWD	Scientific Drilling
5/7/2009	3,813.00	13.41	MWD	Scientific Drilling
5/7/2009	3,876.00	10.66	MWD	Scientific Drilling
5/7/2009	3,939.00	8.82	MWD	Scientific Drilling
5/7/2009	4,003.00	7.72	MWD	Scientific Drilling
5/8/2009	4,065.00	6.31	MWD	Scientific Drilling
5/8/2009	4,128.00	4.92	MWD	Scientific Drilling
5/8/2009	4,190.00	3.54	MWD	Scientific Drilling
5/8/2009	4,245.00	1.90	Extrap.	Scientific Drilling
5/19/2009	8,080.00	1.50	FINAL BHS	PHOENIX

RCVD AUG 11 '09
OIL CONS. DIV.
DIST. 3

I, the undersigned, certify that I acting in my capacity as 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.

Subscribed and sworn to me this

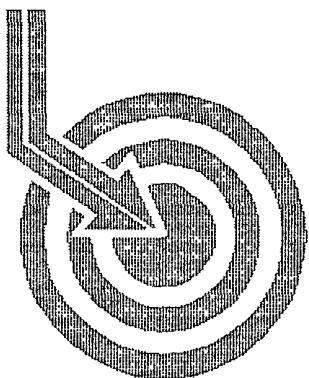
July 5th, 2009

Ethel Nalley

Notary Public in and for San Juan County, New Mexico

My Commission expires

Oct 1, 2012



Scientific Drilling

RCVD AUG 11 '09

OIL CONS. DIV.

DIST. 3

CONOCOPHILLIPS

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 31-6 #16N
Wellpath: DH - Job #33D0509079
Survey: 05/05/09-05/08/09

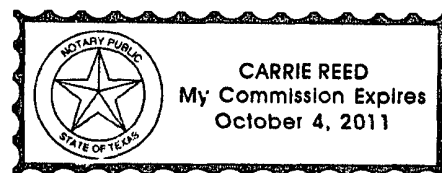
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Lu Harton.....Company Representative

Notorized this date 19th of May, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 05/19/2009	Time: 12:56:10	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 31-6 #16N	Section (VS) Reference:	Well (0.00N,0.00E,121.32Azi)	
Wellpath: DH - Job #33D0509079	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 05/05/09-05/08/09	Start Date: 05/05/2009
Company: Scientific Drilling Internatio	Engineer: Drake/Drake/Kasbaum/Blosser
Tool: E-field;E-field MWD	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
291.00	2.46	209.74	290.91	0.17	-5.42	-3.10	0.85	6.25	209.74
352.00	3.03	186.84	351.84	0.88	-8.16	-3.94	2.01	9.06	205.77
414.00	3.84	175.66	413.73	2.77	-11.86	-3.98	1.69	12.51	198.54
475.00	4.86	164.64	474.56	5.84	-16.39	-3.14	2.15	16.68	190.84
535.00	6.20	158.08	534.28	10.28	-21.84	-1.26	2.47	21.88	183.29
596.00	7.11	152.62	594.86	16.15	-28.25	1.71	1.82	28.30	176.54
657.00	8.31	149.31	655.31	23.27	-35.40	5.70	2.10	35.85	170.86
719.00	9.54	147.75	716.56	31.82	-43.59	10.72	2.02	44.89	166.18
783.00	10.36	144.71	779.60	41.85	-52.78	16.88	1.52	55.41	162.26
845.00	11.21	140.07	840.50	52.68	-61.95	23.97	1.96	66.42	158.85
909.00	12.19	137.30	903.17	65.06	-71.68	32.54	1.76	78.73	155.58
973.00	13.51	133.47	965.57	78.87	-81.79	42.55	2.45	92.20	152.52
1036.00	13.91	129.68	1026.78	93.56	-91.69	53.72	1.56	106.27	149.63
1100.00	15.11	126.35	1088.73	109.48	-101.55	66.36	2.28	121.31	146.84
1163.00	15.60	124.57	1149.49	126.11	-111.22	79.95	1.08	136.98	144.29
1226.00	16.62	122.81	1210.01	143.58	-120.91	94.50	1.79	153.46	141.99
1288.00	17.27	121.46	1269.32	161.65	-130.52	109.80	1.23	170.56	139.93
1352.00	17.99	118.90	1330.31	181.02	-140.25	126.56	1.65	188.91	137.94
1416.00	18.91	118.84	1391.02	201.26	-150.03	144.29	1.44	208.16	136.12
1479.00	19.90	118.86	1450.44	222.17	-160.13	162.63	1.57	228.23	134.56
1542.00	20.89	119.12	1509.49	244.10	-170.77	181.83	1.58	249.45	133.20
1605.00	21.80	119.12	1568.17	267.02	-181.93	201.86	1.44	271.75	132.03
1669.00	23.28	120.22	1627.28	291.54	-194.08	223.17	2.40	295.76	131.01
1732.00	24.19	120.73	1684.95	316.89	-206.94	245.03	1.48	320.72	130.18
1795.00	24.36	120.95	1742.38	342.79	-220.22	267.27	0.31	346.31	129.49
1858.00	24.51	121.12	1799.74	368.85	-233.66	289.60	0.26	372.10	128.90
1922.00	24.39	121.34	1858.00	395.34	-247.39	312.25	0.24	398.37	128.39
1985.00	24.70	119.34	1915.31	421.51	-260.61	334.83	1.41	424.30	127.89
2048.00	24.80	117.60	1972.52	447.85	-273.18	358.02	1.17	450.33	127.34
2112.00	25.07	117.90	2030.56	474.78	-285.74	381.89	0.47	476.96	126.80
2176.00	24.71	117.27	2088.61	501.66	-298.22	405.77	0.70	503.57	126.31
2239.00	25.10	116.80	2145.75	528.11	-310.27	429.40	0.69	529.77	125.85
2302.00	24.60	116.38	2202.92	554.50	-322.13	453.07	0.84	555.91	125.41
2365.00	24.32	116.20	2260.27	580.48	-333.68	476.46	0.46	581.68	125.00
2427.00	24.51	115.83	2316.72	606.00	-344.92	499.49	0.39	607.01	124.63
2490.00	25.39	115.71	2373.84	632.45	-356.47	523.42	1.40	633.28	124.26
2555.00	25.57	115.17	2432.52	660.26	-368.48	548.67	0.45	660.93	123.88
2618.00	25.71	114.92	2489.32	687.36	-380.02	573.37	0.28	687.88	123.54
2681.00	26.02	116.28	2546.01	714.71	-391.90	598.16	1.06	715.11	123.23
2744.00	26.12	116.24	2602.60	742.29	-404.15	622.98	0.16	742.59	122.97
2807.00	26.44	116.55	2659.08	770.08	-416.55	647.97	0.55	770.31	122.74
2871.00	26.63	115.84	2716.34	798.55	-429.17	673.63	0.58	798.72	122.50
2934.00	25.30	115.26	2772.98	826.00	-441.07	698.51	2.15	826.11	122.27
2995.00	24.50	113.95	2828.31	851.50	-451.77	721.86	1.59	851.57	122.04
3058.00	23.11	111.84	2885.95	876.65	-461.67	745.27	2.59	876.68	121.78
3185.00	20.97	107.68	3003.67	923.33	-477.85	790.07	2.08	923.33	121.17
3248.00	20.33	105.96	3062.62	944.84	-484.28	811.33	1.40	944.87	120.83
3311.00	18.97	109.14	3121.96	965.40	-490.65	831.53	2.75	965.49	120.54

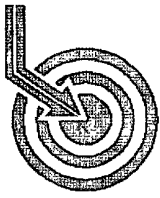


Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 05/19/2009 Time: 12:56:10 Page: 2
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 31-6 #16N Section (VS) Reference: Well (0.00N,0.00E,121.32Azi)
Wellpath: DH - Job #33D0509079 Survey Calculation Method: Minimum Curvature Db: Sybase

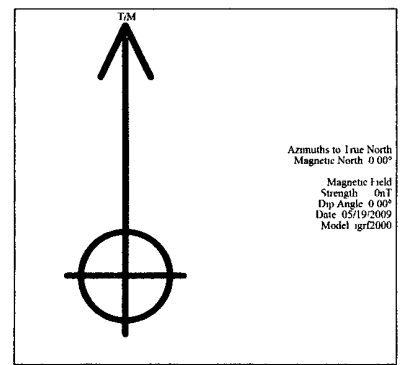
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3373.00	18.72	110.52	3180.63	985.03	-497.44	850.37	0.82	985.17	120.33
3436.00	19.21	113.39	3240.21	1005.22	-505.10	869.35	1.67	1005.43	120.16
3499.00	19.04	114.02	3299.74	1025.68	-513.39	888.25	0.42	1025.94	120.03
3563.00	18.88	115.95	3360.26	1046.34	-522.17	907.09	1.01	1046.65	119.93
3624.00	18.09	118.80	3418.12	1065.63	-531.06	924.27	1.97	1065.97	119.88
3687.00	16.54	121.11	3478.26	1084.37	-540.40	940.52	2.69	1084.72	119.88
3750.00	15.40	123.32	3538.83	1101.70	-549.63	955.19	2.05	1102.03	119.92
3813.00	13.41	124.97	3599.85	1117.35	-558.41	968.16	3.22	1117.66	119.98
3876.00	10.66	126.85	3661.46	1130.45	-566.10	978.81	4.41	1130.73	120.04
3939.00	8.82	128.54	3723.55	1141.04	-572.60	987.26	2.96	1141.29	120.11
4003.00	7.72	129.22	3786.88	1150.16	-578.38	994.42	1.73	1150.39	120.18
4065.00	6.31	126.78	3848.41	1157.68	-583.05	1000.38	2.32	1157.89	120.23
4128.00	4.92	122.31	3911.11	1163.83	-586.57	1005.44	2.31	1164.03	120.26
4190.00	3.54	121.41	3972.94	1168.40	-588.99	1009.32	2.23	1168.60	120.27



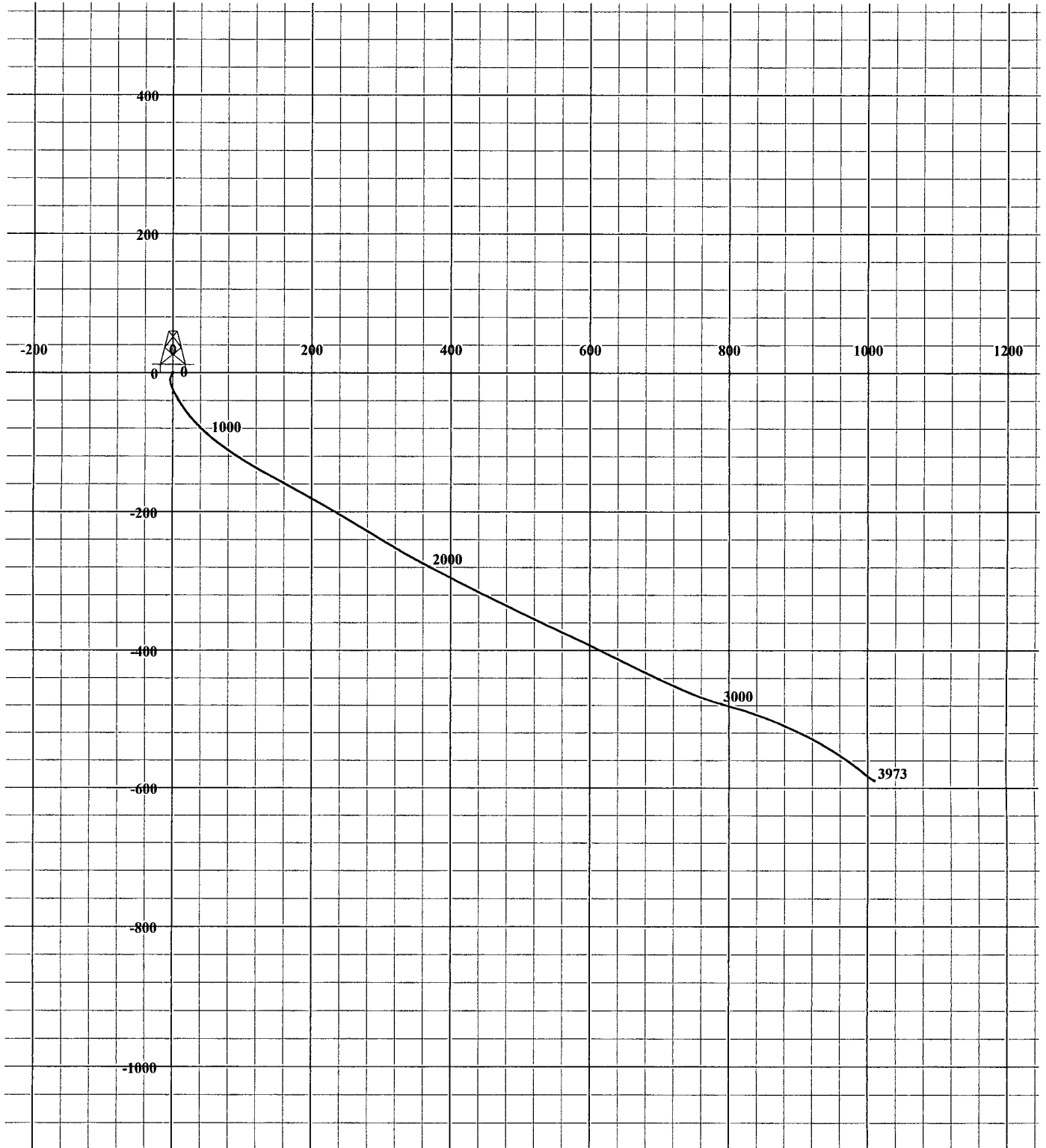
Scientific
Drilling

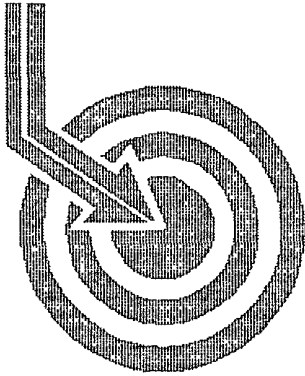
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 31-6 #16N
Wellpath: DH - Job #33D0509079
Survey: 05/05/09-05/08/09



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

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





Scientific Drilling

CONOCOPHILLIPS

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 31-6 #16N
Wellpath: DH - Job #33D0509079
Survey: 05/05/09-05/08/09

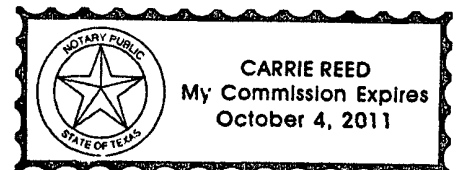
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Robert.....Company Representative

Notorized this date 19th of May, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 05/19/2009	Time: 12:56:10	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 31-6 #16N	Section (VS) Reference:	Well: (0.00N,0.00E,121.32Azi)	
Wellpath: DH - Job #33D0509079	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 05/05/09-05/08/09 E-field 0'-4190'	Start Date: 05/05/2009
Company: Scientific Drilling Internatio	Engineer: Drake/Drake/Kasbaum/Blosser
Tool: E-field;E-field MWD	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
291.00	2.46	209.74	290.91	0.17	-5.42	-3.10	0.85	6.25	209.74
352.00	3.03	186.84	351.84	0.88	-8.16	-3.94	2.01	9.06	205.77
414.00	3.84	175.66	413.73	2.77	-11.86	-3.98	1.69	12.51	198.54
475.00	4.86	164.64	474.56	5.84	-16.39	-3.14	2.15	16.68	190.84
535.00	6.20	158.08	534.28	10.28	-21.84	-1.26	2.47	21.88	183.29
596.00	7.11	152.62	594.86	16.15	-28.25	1.71	1.82	28.30	176.54
657.00	8.31	149.31	655.31	23.27	-35.40	5.70	2.10	35.85	170.86
719.00	9.54	147.75	716.56	31.82	-43.59	10.72	2.02	44.89	166.18
783.00	10.36	144.71	779.60	41.85	-52.78	16.88	1.52	55.41	162.26
845.00	11.21	140.07	840.50	52.68	-61.95	23.97	1.96	66.42	158.85
909.00	12.19	137.30	903.17	65.06	-71.68	32.54	1.76	78.73	155.58
973.00	13.51	133.47	965.57	78.87	-81.79	42.55	2.45	92.20	152.52
1036.00	13.91	129.68	1026.78	93.56	-91.69	53.72	1.56	106.27	149.63
1100.00	15.11	126.35	1088.73	109.48	-101.55	66.36	2.28	121.31	146.84
1163.00	15.60	124.57	1149.49	126.11	-111.22	79.95	1.08	136.98	144.29
1226.00	16.62	122.81	1210.01	143.58	-120.91	94.50	1.79	153.46	141.99
1288.00	17.27	121.46	1269.32	161.65	-130.52	109.80	1.23	170.56	139.93
1352.00	17.99	118.90	1330.31	181.02	-140.25	126.56	1.65	188.91	137.94
1416.00	18.91	118.84	1391.02	201.26	-150.03	144.29	1.44	208.16	136.12
1479.00	19.90	118.86	1450.44	222.17	-160.13	162.63	1.57	228.23	134.56
1542.00	20.89	119.12	1509.49	244.10	-170.77	181.83	1.58	249.45	133.20
1605.00	21.80	119.12	1568.17	267.02	-181.93	201.86	1.44	271.75	132.03
1669.00	23.28	120.22	1627.28	291.54	-194.08	223.17	2.40	295.76	131.01
1732.00	24.19	120.73	1684.95	316.89	-206.94	245.03	1.48	320.72	130.18
1795.00	24.36	120.95	1742.38	342.79	-220.22	267.27	0.31	346.31	129.49
1858.00	24.51	121.12	1799.74	368.85	-233.66	289.60	0.26	372.10	128.90
1922.00	24.39	121.34	1858.00	395.34	-247.39	312.25	0.24	398.37	128.39
1985.00	24.70	119.34	1915.31	421.51	-260.61	334.83	1.41	424.30	127.89
2048.00	24.80	117.60	1972.52	447.85	-273.18	358.02	1.17	450.33	127.34
2112.00	25.07	117.90	2030.56	474.78	-285.74	381.89	0.47	476.96	126.80
2176.00	24.71	117.27	2088.61	501.66	-298.22	405.77	0.70	503.57	126.31
2239.00	25.10	116.80	2145.75	528.11	-310.27	429.40	0.69	529.77	125.85
2302.00	24.60	116.38	2202.92	554.50	-322.13	453.07	0.84	555.91	125.41
2365.00	24.32	116.20	2260.27	580.48	-333.68	476.46	0.46	581.68	125.00
2427.00	24.51	115.83	2316.72	606.00	-344.92	499.49	0.39	607.01	124.63
2490.00	25.39	115.71	2373.84	632.45	-356.47	523.42	1.40	633.28	124.26
2555.00	25.57	115.17	2432.52	660.26	-368.48	548.67	0.45	660.93	123.88
2618.00	25.71	114.92	2489.32	687.36	-380.02	573.37	0.28	687.88	123.54
2681.00	26.02	116.28	2546.01	714.71	-391.90	598.16	1.06	715.11	123.23
2744.00	26.12	116.24	2602.60	742.29	-404.15	622.98	0.16	742.59	122.97
2807.00	26.44	116.55	2659.08	770.08	-416.55	647.97	0.55	770.31	122.74
2871.00	26.63	115.84	2716.34	798.55	-429.17	673.63	0.58	798.72	122.50
2934.00	25.30	115.26	2772.98	826.00	-441.07	698.51	2.15	826.11	122.27
2995.00	24.50	113.95	2828.31	851.50	-451.77	721.86	1.59	851.57	122.04
3058.00	23.11	111.84	2885.95	876.65	-461.67	745.27	2.59	876.68	121.78
3185.00	20.97	107.68	3003.67	923.33	-477.85	790.07	2.08	923.33	121.17
3248.00	20.33	105.96	3062.62	944.84	-484.28	811.33	1.40	944.87	120.83
3311.00	18.97	109.14	3121.96	965.40	-490.65	831.53	2.75	965.49	120.54



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: CONOCOPHILLIPS
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 31-6 #16N
Wellpath: DH - Job #33D0509079

Date: 05/19/2009 Time: 12:56:10 Page: 2
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,121.32Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

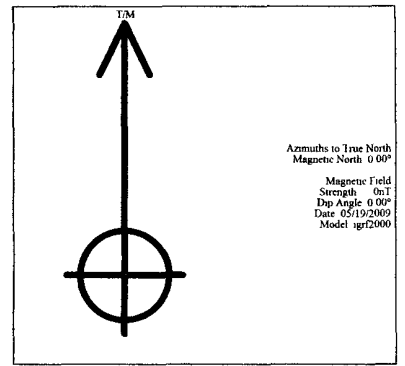
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3373.00	18.72	110.52	3180.63	985.03	-497.44	850.37	0.82	985.17	120.33
3436.00	19.21	113.39	3240.21	1005.22	-505.10	869.35	1.67	1005.43	120.16
3499.00	19.04	114.02	3299.74	1025.68	-513.39	888.25	0.42	1025.94	120.03
3563.00	18.88	115.95	3360.26	1046.34	-522.17	907.09	1.01	1046.65	119.93
3624.00	18.09	118.80	3418.12	1065.63	-531.06	924.27	1.97	1065.97	119.88
3687.00	16.54	121.11	3478.26	1084.37	-540.40	940.52	2.69	1084.72	119.88
3750.00	15.40	123.32	3538.83	1101.70	-549.63	955.19	2.05	1102.03	119.92
3813.00	13.41	124.97	3599.85	1117.35	-558.41	968.16	3.22	1117.66	119.98
3876.00	10.66	126.85	3661.46	1130.45	-566.10	978.81	4.41	1130.73	120.04
3939.00	8.82	128.54	3723.55	1141.04	-572.60	987.26	2.96	1141.29	120.11
4003.00	7.72	129.22	3786.88	1150.16	-578.38	994.42	1.73	1150.39	120.18
4065.00	6.31	126.78	3848.41	1157.68	-583.05	1000.38	2.32	1157.89	120.23
4128.00	4.92	122.31	3911.11	1163.83	-586.57	1005.44	2.31	1164.03	120.26
4190.00	3.54	121.41	3972.94	1168.40	-588.99	1009.32	2.23	1168.60	120.27



Scientific
Drilling

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 31-6 #16N
Wellpath: DH - Job #33D0509079
Survey: 05/05/09-05/08/09



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

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

