

Submit to Appropriate District Office
State Lease - 4 Copies
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1220 South St. Francis Dr.
Santa Fe, NM 87505

As drilled plat

797 FEB -5 PM 3: 45

RCUD DEC 11 '07
☐ AMENDED REPORT

12/12/07

WELL LOCATION AND ACREAGE DEDICATION PLAT

NAVY COMS. DIV.

COP Deviation Report
SAN JUAN 28-7 UNIT #248M

Survey Data					
Date	MD (ftKB)	Incl(°)	Method	Survey Company	
7/25/2007	2,432.00	23.94	MWD	Scientific Drilling	
7/25/2007	2,495.00	23.55	MWD	Scientific Drilling	
7/25/2007	2,557.00	23.39	MWD	Scientific Drilling	
7/25/2007	2,621.00	23.92	MWD	Scientific Drilling	
7/25/2007	2,683.00	23.47	MWD	Scientific Drilling	
7/25/2007	2,745.00	23.45	MWD	Scientific Drilling	
7/25/2007	2,808.00	24.16	MWD	Scientific Drilling	
7/25/2007	2,870.00	24.80	MWD	Scientific Drilling	
7/25/2007	2,933.00	23.18	MWD	Scientific Drilling	
7/25/2007	2,996.00	22.59	MWD	Scientific Drilling	
7/25/2007	3,058.00	22.51	MWD	Scientific Drilling	
7/25/2007	3,120.00	22.45	MWD	Scientific Drilling	
7/25/2007	3,184.00	22.83	MWD	Scientific Drilling	
7/25/2007	3,247.00	22.57	MWD	Scientific Drilling	
7/25/2007	3,310.00	21.56	MWD	Scientific Drilling	
7/25/2007	3,373.00	21.82	MWD	Scientific Drilling	
7/25/2007	3,436.00	22.64	MWD	Scientific Drilling	
7/26/2007	3,498.00	22.26	MWD	Scientific Drilling	
7/26/2007	3,561.00	22.57	MWD	Scientific Drilling	
7/26/2007	3,624.00	21.29	MWD	Scientific Drilling	
7/26/2007	3,688.00	19.42	MWD	Scientific Drilling	
7/26/2007	3,751.00	17.76	MWD	Scientific Drilling	
7/26/2007	3,812.00	16.56	MWD	Scientific Drilling	
7/26/2007	3,876.00	14.60	MWD	Scientific Drilling	
7/26/2007	3,937.00	12.35	MWD	Scientific Drilling	
7/26/2007	4,000.00	10.06	MWD	Scientific Drilling	
7/26/2007	4,064.00	7.83	MWD	Scientific Drilling	
7/26/2007	4,127.00	6.38	MWD	Scientific Drilling	
7/26/2007	4,190.00	4.76	MWD	Scientific Drilling	
7/26/2007	4,254.00	3.52	MWD	Scientific Drilling	
7/27/2007	4,315.00	2.25	MWD	Scientific Drilling	
8/2/2007	8,222.00	0.75	MWD	Scientific Drilling	
8/2/2007	8,252.00	0.75	Extrap.	Scientific Drilling	

RCVD DEC 11 '07

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 12-6-07

[Signature] S. Reyes

Notary Public in and for San Juan County, New Mexico

My Commission expires January 10, 2011



COP Deviation Report

SAN JUAN 28-7 UNIT #248M

Operator CONOCOPHILLIPS	Legal WellName SAN JUAN 28-7 UNIT #248M	API / UWI 3003930193	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location SEC:18;TWN:028N;RNG:007W, J	N/S Dist (ft) 2,630.00	N/S Ref FNL	E/W Dist (ft) 1,520.00	E/W Ref FEL

Survey Data

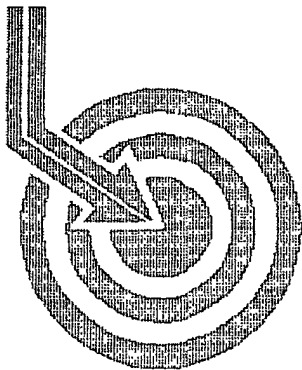
Date	MD (ftKB)	Incl (°)	Method	Survey Company
6/5/2007	114.00	1.00		
6/5/2007	234.00	1.00		
7/24/2007	309.00	1.39	MWD	Scientific Drilling
7/24/2007	368.00	2.08	MWD	Scientific Drilling
7/24/2007	430.00	4.00	MWD	Scientific Drilling
7/24/2007	490.00	6.57	MWD	Scientific Drilling
7/24/2007	551.00	8.79	MWD	Scientific Drilling
7/24/2007	612.00	10.50	MWD	Scientific Drilling
7/24/2007	674.00	11.67	MWD	Scientific Drilling
7/24/2007	734.00	13.48	MWD	Scientific Drilling
7/24/2007	797.00	14.76	MWD	Scientific Drilling
7/24/2007	861.00	15.64	MWD	Scientific Drilling
7/24/2007	923.00	16.41	MWD	Scientific Drilling
7/24/2007	986.00	16.70	MWD	Scientific Drilling
7/24/2007	1,049.00	17.48	MWD	Scientific Drilling
7/24/2007	1,113.00	18.19	MWD	Scientific Drilling
7/24/2007	1,176.00	19.61	MWD	Scientific Drilling
7/24/2007	1,238.00	21.30	MWD	Scientific Drilling
7/24/2007	1,300.00	23.87	MWD	Scientific Drilling
7/24/2007	1,362.00	25.06	MWD	Scientific Drilling
7/24/2007	1,424.00	24.64	MWD	Scientific Drilling
7/24/2007	1,487.00	24.69	MWD	Scientific Drilling
7/24/2007	1,551.00	24.68	MWD	Scientific Drilling
7/24/2007	1,612.00	24.60	MWD	Scientific Drilling
7/24/2007	1,676.00	22.74	MWD	Scientific Drilling
7/24/2007	1,740.00	22.88	MWD	Scientific Drilling
7/24/2007	1,802.00	22.85	MWD	Scientific Drilling
7/24/2007	1,865.00	22.81	MWD	Scientific Drilling
7/24/2007	1,927.00	21.46	MWD	Scientific Drilling
7/24/2007	1,991.00	21.69	MWD	Scientific Drilling
7/24/2007	2,054.00	22.61	MWD	Scientific Drilling
7/24/2007	2,117.00	24.58	MWD	Scientific Drilling
7/24/2007	2,179.00	25.88	MWD	Scientific Drilling
7/24/2007	2,242.00	27.03	MWD	Scientific Drilling
7/25/2007	2,306.00	26.93	MWD	Scientific Drilling
7/25/2007	2,370.00	25.40	MWD	Scientific Drilling

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.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



Scientific Drilling

RCVD DEC 11 '07

OIL CONS. DIV.

DIST. 3

CONOCOPHILLIPS

Field: San Juan
Site: San Juan County, NM
Well: San Juan 28-7 #248M
Wellpath: DH - Job #33D0707629
Survey: 07/22/07-07/27/07

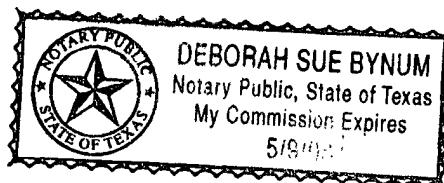
This survey is correct to the best of my knowledge
and is supported by actual field data.

Blhartr.....Company Representative

Notorized this date 23rd of August, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 08/23/2007	Time: 07:51:22	Page: 1
Field: San Juan	Co-ordinate(NE) Reference:	Site: San Juan County, NM, Grid North	
Site: San Juan County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: San Juan 28-7 #248M	Section (VS) Reference:	Well: (0.00N,0.00E,70.40Azi)	
Wellpath: DH - Job #33D0707629	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/22/07-07/27/07	Start Date: 07/22/2007
E-field 309'-4315' w/projection @ 4356'	
Company: Scientific Drilling Internatio	Engineer: Calvert/Kelly/Geiser
Tool: E-field;E-field MWD	Tied-to: User Defined

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
309.00	1.39	55.05	308.97	3.61	2.15	3.07	0.00	3.75	55.00
368.00	2.08	70.97	367.94	5.37	2.91	4.67	1.42	5.50	58.07
430.00	4.00	89.58	429.85	8.54	3.29	7.90	3.44	8.55	67.37
490.00	6.57	87.99	489.59	13.79	3.43	13.42	4.29	13.85	75.67
551.00	8.79	85.18	550.04	21.63	3.94	21.55	3.69	21.91	79.64
612.00	10.50	78.99	610.18	31.63	5.39	31.65	3.27	32.11	80.33
674.00	11.67	76.23	671.02	43.45	7.97	43.29	2.07	44.02	79.57
734.00	13.48	73.00	729.58	56.48	11.46	55.87	3.24	57.03	78.41
797.00	14.76	69.74	790.68	71.84	16.38	70.42	2.39	72.30	76.90
861.00	15.64	69.07	852.44	88.62	22.29	86.13	1.40	88.97	75.49
923.00	16.41	70.10	912.03	105.73	28.25	102.17	1.32	106.01	74.54
986.00	16.70	67.41	972.42	123.67	34.76	118.90	1.30	123.87	73.70
1049.00	17.48	68.98	1032.64	142.17	41.63	136.09	1.44	142.31	72.99
1113.00	18.19	68.88	1093.56	161.76	48.68	154.38	1.11	161.87	72.50
1176.00	19.61	69.64	1153.16	182.16	55.90	173.46	2.29	182.25	72.14
1238.00	21.30	72.45	1211.25	203.82	62.92	193.96	3.15	203.90	72.03
1300.00	23.87	72.53	1268.49	227.62	70.08	216.66	4.15	227.71	72.08
1362.00	25.06	71.10	1324.93	253.28	78.10	241.05	2.14	253.39	72.05
1424.00	24.64	67.67	1381.19	279.32	87.26	265.43	2.42	279.41	71.80
1487.00	24.69	67.43	1438.44	305.58	97.30	289.73	0.18	305.63	71.44
1551.00	24.68	67.01	1496.59	332.27	107.65	314.37	0.27	332.29	71.10
1612.00	24.60	66.41	1552.04	357.65	117.71	337.73	0.43	357.65	70.79
1676.00	22.74	67.38	1610.65	383.29	127.80	361.36	2.97	383.29	70.52
1740.00	22.88	67.86	1669.65	408.07	137.24	384.30	0.36	408.07	70.35
1802.00	22.85	67.56	1726.77	432.14	146.38	406.59	0.19	432.14	70.20
1865.00	22.81	65.17	1784.84	456.51	156.18	428.98	1.47	456.53	70.00
1927.00	21.46	67.15	1842.27	479.81	165.63	450.34	2.49	479.83	69.81
1991.00	21.69	68.81	1901.79	503.32	174.45	472.16	1.02	503.35	69.72
2054.00	22.61	72.49	1960.14	527.06	182.30	494.56	2.64	527.09	69.77
2117.00	24.58	72.95	2017.87	552.25	189.79	518.64	3.14	552.28	69.90
2179.00	25.88	73.08	2073.95	578.65	197.51	543.92	2.10	578.67	70.04
2242.00	27.03	72.39	2130.36	606.70	205.84	570.72	1.89	606.70	70.17
2306.00	26.93	73.30	2187.39	635.70	214.40	598.46	0.66	635.71	70.29
2370.00	25.40	72.45	2244.83	663.90	222.71	625.43	2.46	663.90	70.40
2432.00	23.94	71.16	2301.17	689.77	230.78	650.01	2.51	689.77	70.45
2495.00	23.55	71.03	2358.84	715.13	239.00	674.01	0.62	715.13	70.48
2557.00	23.39	71.61	2415.71	739.82	246.91	697.40	0.45	739.82	70.50
2621.00	23.92	72.10	2474.33	765.49	254.90	721.81	0.88	765.49	70.55
2683.00	23.47	70.94	2531.10	790.40	262.80	745.44	1.05	790.40	70.58
2745.00	23.45	69.75	2587.98	815.08	271.10	768.68	0.76	815.09	70.57
2808.00	24.16	69.62	2645.62	840.51	279.93	792.53	1.13	840.51	70.55
2870.00	24.80	70.15	2702.05	866.20	288.76	816.65	1.09	866.20	70.53
2933.00	23.18	69.46	2759.60	891.81	297.60	840.69	2.61	891.81	70.51
2996.00	22.59	69.62	2817.64	916.31	306.17	863.64	0.94	916.31	70.48
3058.00	22.51	69.75	2874.90	940.08	314.42	885.94	0.15	940.08	70.46
3120.00	22.45	69.69	2932.19	963.79	322.64	908.18	0.10	963.79	70.44
3184.00	22.83	69.72	2991.26	988.42	331.18	931.29	0.59	988.42	70.42
3247.00	22.57	70.29	3049.38	1012.73	339.50	954.13	0.54	1012.73	70.41
3310.00	21.56	70.90	3107.76	1036.40	347.36	976.45	1.64	1036.40	70.42



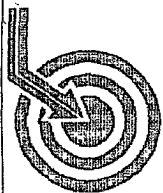
Scientific Drilling International

Survey Report

Company: CONOCOPHILLIPS Date: 08/23/2007 Time: 07:51:22 Page: 2
Field: San Juan Co-ordinate(NE) Reference: Site: San Juan County, NM; Grid-North
Site: San Juan County, NM Vertical (TVD) Reference: SITE 0.0
Well: San Juan 28-7 #248M Section (VS) Reference: Well (0.00N,0.00E,70.40Azi)
Wellpath: DH Job #33D0707629 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	21.82	70.09	3166.30	1059.68	355.14	998.40	0.63	1059.68	70.42
3436.00	22.64	68.68	3224.62	1083.51	363.53	1020.70	1.55	1083.51	70.40
3498.00	22.26	69.34	3281.92	1107.18	372.01	1042.81	0.74	1107.18	70.37
3561.00	22.57	69.19	3340.16	1131.20	380.52	1065.28	0.50	1131.20	70.34
3624.00	21.29	68.68	3398.60	1154.72	388.97	1087.23	2.05	1154.72	70.31
3688.00	19.42	68.05	3458.60	1176.96	397.18	1107.93	2.94	1176.97	70.28
3751.00	17.76	67.15	3518.31	1197.02	404.82	1126.50	2.67	1197.03	70.23
3812.00	16.56	65.82	3576.60	1214.98	412.00	1143.00	2.07	1214.99	70.18
3876.00	14.60	65.89	3638.24	1232.11	419.03	1158.68	3.06	1232.13	70.12
3937.00	12.35	62.92	3697.56	1246.25	425.14	1171.51	3.86	1246.27	70.05
4000.00	10.06	66.32	3759.36	1258.42	430.42	1182.55	3.78	1258.45	70.00
4064.00	7.83	70.57	3822.58	1268.35	434.11	1191.78	3.63	1268.39	69.99
4127.00	6.38	73.36	3885.09	1276.14	436.54	1199.18	2.37	1276.17	70.00
4190.00	4.76	75.44	3947.79	1282.24	438.20	1205.07	2.59	1282.27	70.02
4254.00	3.52	75.66	4011.62	1286.84	439.36	1209.54	1.94	1286.87	70.04
4315.00	2.25	77.23	4072.54	1289.89	440.08	1212.52	2.09	1289.92	70.05
4356.00	1.40	78.29	4113.52	1291.19	440.36	1213.80	2.07	1291.21	70.06



**Scientific
Drilling**

Field: San Juan
Site: San Juan County, NM
Well: San Juan 28-7 #248M
Wellpath: DH - Job #33D0707629
Survey: 07/22/07-07/27/07



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 08/23/2007
Model: igrf2000

