

30-045-32489

Job Number: 063217505275

Company: ConocoPhillips

Lease/Well: San Juan 32-7-69M

Location: San Juan County, New Mexico

Rig Name: H & P #282

RKB:

G.L. or M.S.L.:

State/Country: New Mexico/USA

Declination: 10.50°

Grid: East To Grid

File name: F:\SURVEY\2006SU~1\CONOCO~1\SA32769M.SVY

Date/Time: 27-Sep-06 / 11:00

Curve Name: Surface - 3,800' M.D.



Directional Services

Surface 1964/N 2505/W
BNL 2183/N 2275/W

We hereby certify that our survey data from
SURFACE MD to 3,800' MD is, to the best of
our knowledge a true and accurate account of the
well bore.

David J. Wells
Multi-Shot
Date

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane .00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	176.21	100.00	-.22	.01	-.22	.22	176.21	.25
200.00	.25	235.50	200.00	-.56	-.15	-.56	.58	195.11	.25
300.00	.75	242.79	299.99	-.98	-.91	-.98	1.34	222.91	.50
400.00	1.50	246.08	399.97	-1.81	-2.69	-1.81	3.24	236.05	.75
500.00	1.75	251.36	499.93	-2.83	-5.33	-2.83	6.04	242.05	.29
600.00	2.50	244.66	599.87	-4.25	-8.75	-4.25	9.73	244.09	.79
700.00	3.25	246.96	699.74	-6.29	-13.33	-6.29	14.74	244.73	.76
800.00	4.25	247.28	799.52	-8.84	-19.36	-8.84	21.28	245.47	1.00
900.00	5.25	245.60	899.18	-12.16	-26.94	-12.16	29.56	245.72	1.01
1000.00	6.50	244.94	998.65	-16.44	-36.24	-16.44	39.79	245.59	1.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
1100.00	7.75	234.74	1097.88	-22.73	-46.87	-22.73	52.09	244.12	1.77
1200.00	8.75	234.10	1196.85	-31.09	-58.54	-31.09	66.28	242.03	1.00
1300.00	9.50	228.46	1295.58	-41.02	-70.88	-41.02	81.89	239.94	1.17
1400.00	11.00	226.88	1393.98	-53.01	-84.02	-53.01	99.35	237.75	1.53
1500.00	12.00	225.27	1491.97	-66.85	-98.37	-66.85	118.93	235.80	1.05
1600.00	12.75	220.63	1589.65	-82.54	-112.94	-82.54	139.89	233.84	1.24
1700.00	12.50	220.89	1687.23	-99.10	-127.21	-99.10	161.25	232.08	.26
1800.00	10.50	218.97	1785.22	-114.37	-140.03	-114.37	180.79	230.76	2.04
1900.00	9.25	220.15	1883.74	-127.59	-150.94	-127.59	197.64	229.79	1.27
2000.00	7.50	223.30	1982.67	-138.49	-160.60	-138.49	212.06	229.23	1.81
2100.00	6.75	220.69	2081.90	-147.69	-168.91	-147.69	224.37	228.83	.82
2200.00	6.00	222.08	2181.28	-156.03	-176.24	-156.03	235.38	228.48	.77
2300.00	5.25	222.48	2280.80	-163.28	-182.83	-163.28	245.13	228.23	.75
2400.00	5.25	228.90	2380.38	-169.66	-189.37	-169.66	254.26	228.14	.59
2500.00	4.25	229.30	2480.03	-175.09	-195.63	-175.09	262.54	228.17	1.00
2600.00	4.00	230.72	2579.77	-179.71	-201.14	-179.71	269.73	228.22	.27
2700.00	4.25	228.16	2679.51	-184.39	-206.60	-184.39	276.92	228.25	.31
2800.00	4.00	228.59	2779.25	-189.17	-211.97	-189.17	284.11	228.25	.25
2900.00	3.75	228.01	2879.03	-193.67	-217.02	-193.67	290.87	228.25	.25
3000.00	2.75	218.42	2978.86	-197.73	-220.94	-197.73	296.50	228.17	1.13
3100.00	2.25	214.01	3078.77	-201.24	-223.53	-201.24	300.77	228.00	.54
3200.00	2.00	213.44	3178.70	-204.32	-225.59	-204.32	304.37	227.83	.25
3300.00	1.25	252.29	3278.66	-206.11	-227.59	-206.11	307.05	227.84	1.29
3400.00	1.25	206.73	3378.64	-207.42	-229.12	-207.42	309.06	227.85	.97
3500.00	1.25	180.15	3478.62	-209.48	-229.61	-209.48	310.81	227.62	.57
3600.00	1.50	180.59	3578.59	-211.88	-229.63	-211.88	312.45	227.30	.25
3700.00	2.25	182.03	3678.53	-215.15	-229.71	-215.15	314.73	226.87	.75
Last Survey Depth Recorded									
3800.00	2.75	173.90	3778.44	-219.50	-229.53	-219.50	317.59	226.28	.61