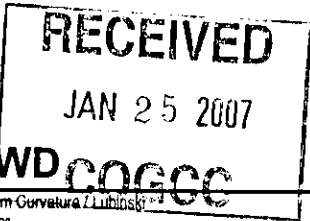




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103-10592-00



Schlumberger

PCU T62X-11G4 OH Final Surveys Report - MWD

Report Date: January 10, 2007 Client: ExxonMobil Field: CO, Rio Blanco County (NAD 27 NZ) ExxonMobil 2005 Structure / Slot: ExxonMobil 11-2S-97W (PCU T62X-11G Pad) H&P 215 / PCU T62X-11G4 Well: PCU T62X-11G4 Borehole: Original Hole ✓ UW/API#: Survey Name / Date: PCU T62X-11G4 OH Final Surveys / January 17, 2006 Tort / AHD / DDI / ERD ratio: 47.102° / 1269.07 ft / 4.788 / 0.216 Grid Coordinate System: NAD27 Colorado State Planes, Northern Zone, US Feet Location Lat/Long: N 39 53 48.398, W 108 14 39.990 Location Grid N/E Y/X: N 217157.210 ftUS, E 1230073.830 ftUS Grid Convergence Angle: -1.77327558° Grid Scale Factor: 0.99997582	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 343.990° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 7089.0 ft relative to MSL Sea Bed / Ground Level Elevation: 7064.000 ft relative to MSL Magnetic Declination: 11.205° Total Field Strength: 52952.989 nT Magnetic Dip: 68.196° Declination Date: April 07, 2006 Magnetic Declination Model: BGGM 2006 North Reference: Grid North Total Corr Mag North -> Grid North: +12.978° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Tie-In/Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	217157.21	1230073.83	N 39 53 48.398	W 108 14 39.990
Begin Gyro Surveys	212.00	2.60	58.76	211.93	1.26	2.49	4.11	1.23	217159.70	1230077.94	N 39 53 48.424	W 108 14 39.938
	309.00	2.86	56.86	308.82	2.55	4.96	8.02	0.28	217162.17	1230081.85	N 39 53 48.449	W 108 14 39.889
	400.00	2.92	43.36	399.70	4.40	7.88	11.51	0.75	217165.09	1230085.34	N 39 53 48.479	W 108 14 39.845
	560.00	2.54	325.69	559.57	9.85	13.78	12.31	2.15	217170.99	1230086.14	N 39 53 48.538	W 108 14 39.838
	747.00	5.83	334.34	746.05	23.15	25.76	5.86	1.79	217182.97	1230079.69	N 39 53 48.654	W 108 14 39.925
Last Gyro	936.00	9.31	338.92	933.37	47.85	48.69	-3.80	1.87	217205.90	1230070.03	N 39 53 48.878	W 108 14 40.058
Begin SLB MWD Surveys	997.00	10.33	340.43	993.48	58.22	58.45	-7.40	1.72	217215.65	1230066.43	N 39 53 48.973	W 108 14 40.108
	1092.00	11.67	343.68	1086.73	76.33	75.69	-12.96	1.55	217232.90	1230060.87	N 39 53 49.142	W 108 14 40.186
	1186.00	14.01	345.77	1178.37	97.21	95.85	-18.43	2.54	217253.06	1230055.40	N 39 53 49.339	W 108 14 40.264
	1281.00	15.15	341.74	1270.32	121.11	118.79	-25.14	1.61	217275.99	1230048.69	N 39 53 49.564	W 108 14 40.360
	1376.00	14.77	338.05	1362.10	145.56	141.81	-33.56	1.08	217299.01	1230040.27	N 39 53 49.789	W 108 14 40.477
	1470.00	14.60	336.19	1453.03	169.22	163.76	-42.82	0.53	217320.97	1230031.01	N 39 53 50.003	W 108 14 40.604
	1565.00	15.30	338.10	1544.81	193.55	186.34	-52.33	0.90	217343.55	1230021.50	N 39 53 50.223	W 108 14 40.735
	1659.00	15.17	336.87	1635.51	218.09	209.16	-61.79	0.37	217366.37	1230012.04	N 39 53 50.445	W 108 14 40.865
	1754.00	15.06	337.49	1727.22	242.69	231.99	-71.39	0.21	217389.20	1230002.44	N 39 53 50.668	W 108 14 40.998
	1849.00	14.77	335.70	1819.02	266.93	254.43	-81.10	0.57	217411.64	1229992.73	N 39 53 50.886	W 108 14 41.131
	1944.00	15.39	336.73	1910.75	291.42	277.05	-91.07	0.71	217434.25	1229982.77	N 39 53 51.107	W 108 14 41.268
	2039.00	15.74	338.18	2002.27	318.75	300.59	-100.84	0.55	217457.80	1229973.00	N 39 53 51.336	W 108 14 41.402
	2134.00	15.99	341.96	2093.65	342.64	325.00	-109.68	1.12	217482.20	1229964.15	N 39 53 51.575	W 108 14 41.526
	2228.00	15.67	345.67	2184.09	368.27	349.61	-116.83	1.13	217506.81	1229957.00	N 39 53 51.816	W 108 14 41.627
	2322.00	15.05	346.93	2274.73	393.15	373.80	-122.73	0.75	217531.00	1229951.10	N 39 53 52.053	W 108 14 41.712
	2417.00	14.64	345.97	2366.56	417.46	397.46	-128.43	0.50	217554.66	1229945.40	N 39 53 52.285	W 108 14 41.795
	2512.00	13.92	348.13	2458.62	440.86	420.29	-133.69	0.94	217577.49	1229940.14	N 39 53 52.509	W 108 14 41.871
	2607.00	13.92	350.03	2550.83	463.62	442.73	-138.02	0.48	217599.92	1229935.81	N 39 53 52.729	W 108 14 41.936
	2701.00	14.61	351.93	2641.93	486.61	465.60	-141.64	0.89	217622.80	1229932.19	N 39 53 52.954	W 108 14 41.991
	2796.00	14.78	352.53	2733.83	510.46	489.48	-144.90	0.24	217646.67	1229928.93	N 39 53 53.189	W 108 14 42.043
	2891.00	14.80	351.30	2825.68	534.48	513.49	-148.31	0.33	217670.68	1229925.52	N 39 53 53.425	W 108 14 42.096
	2986.00	15.02	351.02	2917.48	558.73	537.64	-152.07	0.24	217694.84	1229921.77	N 39 53 53.662	W 108 14 42.154
	3080.00	14.91	350.05	3008.29	582.84	561.58	-156.06	0.29	217718.78	1229917.78	N 39 53 53.898	W 108 14 42.214
	3175.00	14.55	350.63	3100.17	606.85	585.39	-160.11	0.41	217742.59	1229913.72	N 39 53 54.132	W 108 14 42.276
	3338.00	14.06	350.19	3258.12	646.87	625.11	-166.82	0.31	217782.30	1229907.01	N 39 53 54.522	W 108 14 42.377
	3444.00	11.65	349.41	3361.45	670.33	648.32	-170.98	2.28	217805.51	1229902.85	N 39 53 54.750	W 108 14 42.440
	3526.00	9.94	349.31	3442.00	685.62	663.41	-173.82	2.09	217820.60	1229900.02	N 39 53 54.898	W 108 14 42.482
	3615.00	10.47	349.43	3529.59	701.32	678.91	-176.72	0.60	217836.10	1229897.11	N 39 53 55.050	W 108 14 42.526
	3710.00	10.66	348.64	3622.98	718.67	696.01	-180.04	0.25	217853.20	1229893.80	N 39 53 55.218	W 108 14 42.575
	3805.00	10.75	349.01	3716.33	736.25	713.32	-183.46	0.12	217870.51	1229890.38	N 39 53 55.388	W 108 14 42.626
	3900.00	11.01	349.70	3809.62	754.10	730.94	-186.77	0.31	217888.13	1229887.07	N 39 53 55.561	W 108 14 42.675
	3995.00	11.26	350.15	3902.83	772.35	749.01	-189.98	0.28	217906.20	1229883.86	N 39 53 55.739	W 108 14 42.724
	4091.00	11.59	350.13	3996.93	791.26	767.74	-193.23	0.34	217924.93	1229880.60	N 39 53 55.923	W 108 14 42.773
	4283.00	11.90	348.96	4184.91	830.16	806.17	-200.33	0.20	217963.36	1229873.50	N 39 53 56.300	W 108 14 42.879
	4378.00	12.06	348.41	4277.84	849.81	825.51	-204.20	0.21	217982.70	1229869.63	N 39 53 56.490	W 108 14 42.936
	4473.00	12.11	348.17	4370.73	869.64	844.98	-208.24	0.07	218002.17	1229865.60	N 39 53 56.681	W 108 14 42.996
	4568.00	12.39	347.48	4463.57	889.75	864.69	-212.49	0.33	218021.87	1229861.35	N 39 53 56.874	W 108 14 43.058
	4662.00	12.42	346.75	4555.38	909.92	884.37	-216.99	0.17	218041.56	1229858.84	N 39 53 57.067	W 108 14 43.124

4756.00	12.61	346.93	4647.14	930.26	904.21	-221.63	0.21	218061.39	1229852.21	N 39 53 57.262	W 108 14 43.191
4853.00	12.81	347.11	4741.77	951.57	925.00	-226.42	0.21	218082.19	1229847.41	N 39 53 57.466	W 108 14 43.261
4947.00	14.30	346.35	4833.14	973.58	946.44	-231.49	1.60	218103.63	1229842.35	N 39 53 57.676	W 108 14 43.334
5042.00	15.11	345.04	4925.03	997.68	969.81	-237.45	0.92	218126.99	1229836.38	N 39 53 57.905	W 108 14 43.420
5137.00	15.19	342.77	5016.73	1022.50	993.66	-244.34	0.63	218150.84	1229829.50	N 39 53 58.139	W 108 14 43.518
5232.00	15.30	340.52	5108.39	1047.46	1017.36	-252.20	0.63	218174.54	1229821.63	N 39 53 58.370	W 108 14 43.628
5329.00	15.29	337.74	5201.95	1072.95	1041.26	-261.32	0.76	218198.44	1229812.52	N 39 53 58.604	W 108 14 43.755
5424.00	15.10	336.41	5293.63	1097.66	1064.19	-271.01	0.42	218221.38	1229802.82	N 39 53 58.827	W 108 14 43.888
5518.00	15.03	336.20	5384.40	1121.88	1086.57	-280.83	0.09	218243.75	1229793.01	N 39 53 59.045	W 108 14 44.023
5613.00	14.67	337.50	5476.23	1146.03	1108.95	-290.41	0.52	218266.13	1229783.43	N 39 53 59.263	W 108 14 44.155
5708.00	15.07	340.00	5568.05	1170.31	1131.67	-299.23	0.80	218288.85	1229774.61	N 39 53 59.485	W 108 14 44.277
5804.00	14.96	340.88	5660.77	1195.13	1155.11	-307.56	0.26	218312.28	1229766.28	N 39 53 59.714	W 108 14 44.393
5899.00	14.82	342.70	5752.58	1219.52	1178.29	-315.19	0.51	218335.47	1229758.65	N 39 53 59.941	W 108 14 44.500
5994.00	15.04	344.40	5844.38	1243.99	1201.76	-322.12	0.52	218358.94	1229751.72	N 39 54 0.170	W 108 14 44.598
6028.00	15.04	344.40	5877.21	1252.81	1210.26	-324.49	0.00	218367.44	1229749.35	N 39 54 0.254	W 108 14 44.632

MD

TVD VS NS EW

Survey Type: Definitive Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00
25.00
747.00
5994.00

MD To (ft)

25.00
747.00
5994.00
6028.00

EOU Freq Survey Tool Type

Act-Stns SLB_CNSG+DPIPE-Depth Only
Act-Stns SLB_CNSG+DPIPE
Act-Stns SLB_MWD-STD
Act-Stns SLB_BLIND+TREND

Borehole -> Survey

Original Hole -> PCU T62X-11G4 OH Final Surveys
Original Hole -> PCU T62X-11G4 OH Final Surveys
Original Hole -> PCU T62X-11G4 OH Final Surveys
Original Hole -> PCU T62X-11G4 OH Final Surveys