

30-045-34371



FARMINGTON C COM #1E
SAN JUAN COUNTY, NM
LAT 36.72388
LONG 108.19781 W
PLAN 1

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	350.80	0.00	0.00	0.00	0.00	0.00	0.00
2	2115.00	0.00	350.80	2115.00	0.00	0.00	0.00	0.00	0.00
3	2889.00	23.22	350.80	2867.99	152.71	-24.73	3.00	350.80	154.70
4	6438.00	23.22	350.80	6129.51	1533.95	-248.45	0.00	0.00	1553.94 PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Farmington C Com #1E	0.00	0.00	2083015.85	2616282.94	36°43'25.968N	108°11'52.116W	N/A

LEGEND

Farmington C Com #1E, 1, Plan #1 WFT SVY

FIELD DETAILS

San Juan County, NM
USA

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Western Zone
Magnetic Model: bggm2006

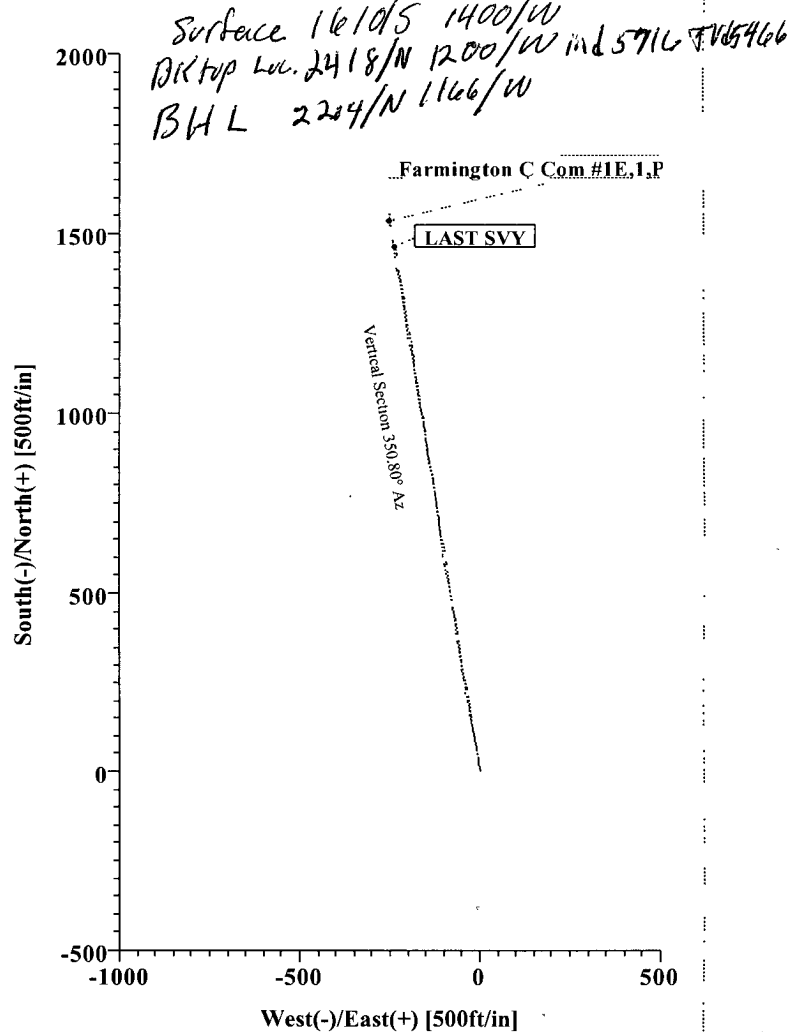
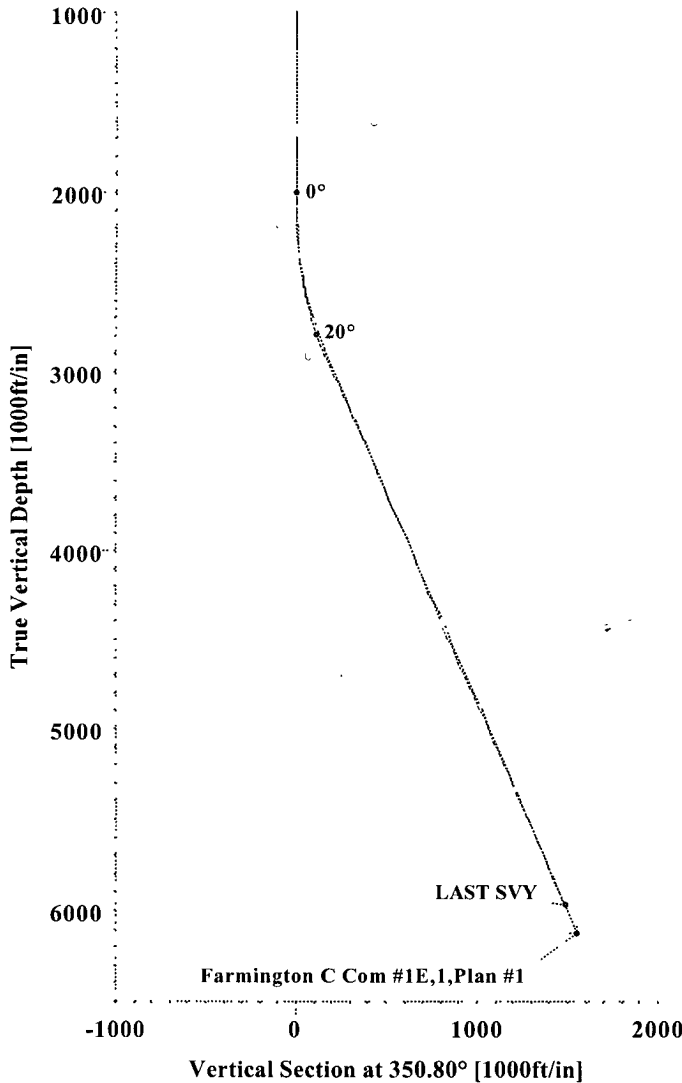
System Datum: Mean Sea Level
Local North: True North

Azimuths to True North
Magnetic North: 10.58°

Magnetic Field
Strength: 51103nT
Dip Angle: 63.49°
Date: 9/14/2007
Model: bggm2006

TOTAL CORRECTION TO TRUE NORTH 10.58°

10/11/07



Weatherford International, Inc.

Survey Report



Company: Merrion Oil & Gas
Field: San Juan County, NM
Site: Farmington C Com #1E
Well: Farmington C Com #1E
Wellpath: 1

Date: 9/28/2007
Co-ordinate(NE) Reference: Site, Farmington C Com #1E, True-North
Vertical (TVD) Reference: SITE 0 0
Section (VS) Reference: Well (0 00N,0 00E,350.80Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Field: San Juan County, NM

USA
Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
Coordinate System: Site Centre
Geomagnetic Model: bggm2006

Site: Farmington C Com #1E
 Sect 15 T29N R13W
 San Juan County, NM

Site Position: Northing: 2083015 85 ft Latitude: 36 43 25 968 N
From: Geographic Easting: 2616282 94 ft Longitude: 108 11 52.116 W
Position Uncertainty: 0 00 ft North Reference: True
Ground Level: 5286.00 ft Grid Convergence: -0 22 deg

Well: Farmington C Com #1E

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 2083015 85 ft Latitude: 36 43 25.968 N
 +E/-W 0.00 ft Easting: 2616282.94 ft Longitude: 108 11 52.116 W
Position Uncertainty: 0 00 ft

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10 58 deg
Mag Dip Angle: 63 49 deg
+E/-W Direction
 ft deg
 0.00 350.80

Current Datum: SITE Height 0.00 ft
Magnetic Data: 9/14/2007
Field Strength: 51103 nT
Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0 00 0 00

Survey: WFT SVY

Start Date: 9/18/2007

Company: Weatherford International, Inc
Tool:

Engineer: Lindsey Maddux
Tied-to: From Surface

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1999.00	0.00	300.71	1999.00	0.00	0.00	0.00	0.00	0.00	0.00	
2030.00	0.06	330.71	2030.00	0.01	-0.01	0.02	0.19	0.19	0.00	
2061.00	0.75	1.20	2061.00	0.23	-0.01	0.23	2.25	2.23	98.35	
2092.00	1.56	357.21	2091.99	0.86	-0.03	0.85	2.62	2.61	-12.87	
2124.00	2.50	350.96	2123.97	1.98	-0.16	1.98	3.01	2.94	-19.53	
2155.00	3.50	349.83	2154.93	3.58	-0.43	3.60	3.23	3.23	-3.65	
2186.00	3.81	345.08	2185.87	5.51	-0.86	5.57	1.40	1.00	-15.32	
2280.00	5.81	346.46	2279.53	13.15	-2.78	13.43	2.13	2.13	1.47	
2373.00	7.38	347.58	2371.91	23.56	-5.17	24.08	1.69	1.69	1.20	
2466.00	8.06	354.71	2464.07	35.89	-7.06	36.55	1.26	0.73	7.67	
2590.00	11.44	353.46	2586.26	56.76	-9.26	57.51	2.73	2.73	-1.01	
2621.00	12.13	355.21	2616.61	63.06	-9.88	63.83	2.51	2.23	5.65	
2652.00	13.63	349.46	2646.83	69.90	-10.82	70.73	6.36	4.84	-18.55	
2683.00	14.94	348.83	2676.87	77.41	-12.26	78.38	4.26	4.23	-2.03	
2714.00	16.44	348.71	2706.71	85.64	-13.90	86.76	4.84	4.84	-0.39	
2742.00	17.56	347.96	2733.49	93.65	-15.55	94.93	4.08	4.00	-2.68	
2773.00	18.81	347.83	2762.94	103.11	-17.58	104.60	4.03	4.03	-0.42	
2804.00	20.06	346.96	2792.17	113.18	-19.83	114.89	4.14	4.03	-2.81	
2834.00	20.94	346.46	2820.27	123.40	-22.25	125.37	2.99	2.93	-1.67	
2865.00	21.94	348.21	2849.13	134.46	-24.73	136.68	3.83	3.23	5.65	
2897.00	22.63	349.46	2878.74	146.36	-27.08	148.81	2.62	2.16	3.91	
2928.00	23.38	350.83	2907.27	158.30	-29.15	160.92	2.97	2.42	4.42	
2959.00	24.13	351.33	2935.65	170.63	-31.09	173.41	2.51	2.42	1.61	

Weatherford International, Inc.

Survey Report



Weatherford

Company: Merrion Oil & Gas Field: San Juan County, NM Site: Farmington C Com #1E Well: Farmington C Com #1E Wellpath: 1	Date: 9/28/2007 Co-ordinate(NE) Reference: Site Farmington C Com #1E, True North Vertical (TVD) Reference: SITE 0 0 Section (VS) Reference: Well (0.00N,0.00E,350 80Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2991.00	24.88	351.58	2964.76	183.76	-33.06	186.68	2.37	2.34	0.78	
3020.00	24.50	350.46	2991.11	195.72	-34.95	198.79	2.08	-1.31	-3.86	
3050.00	24.31	350.21	3018.43	207.94	-37.03	211.19	0.72	-0.63	-0.83	
3082.00	24.63	350.83	3047.56	221.02	-39.21	224.44	1.28	1.00	1.94	
3114.00	25.44	350.58	3076.55	234.38	-41.40	237.98	2.55	2.53	-0.78	
3145.00	23.94	349.46	3104.72	247.13	-43.64	250.93	5.07	-4.84	-3.61	
3176.00	24.44	350.46	3133.00	259.64	-45.85	263.63	2.09	1.61	3.23	
3208.00	24.72	350.30	3162.10	272.77	-48.08	276.94	0.90	0.87	-0.50	
3239.00	25.25	351.21	3190.19	285.69	-50.18	290.04	2.11	1.71	2.94	
3270.00	25.00	351.33	3218.26	298.70	-52.18	303.20	0.82	-0.81	0.39	
3302.00	24.50	350.71	3247.32	311.93	-54.27	316.60	1.76	-1.56	-1.94	
3333.00	24.04	350.15	3275.58	324.50	-56.39	329.34	1.66	-1.48	-1.81	
3364.00	24.88	349.96	3303.80	337.14	-58.60	342.17	2.72	2.71	-0.61	
3426.00	24.94	350.46	3360.03	362.87	-63.04	368.28	0.35	0.10	0.81	
3457.00	25.31	351.08	3388.10	375.86	-65.15	381.45	1.46	1.19	2.00	
3549.00	21.19	354.33	3472.61	411.86	-69.85	417.72	4.69	-4.48	3.53	
3609.00	21.38	352.83	3528.52	433.50	-72.28	439.48	0.96	0.32	-2.50	
3640.00	21.13	350.46	3557.41	444.61	-73.92	450.71	2.89	-0.81	-7.65	
3671.00	21.63	349.21	3586.28	455.74	-75.91	462.01	2.18	1.61	-4.03	
3732.00	23.44	348.96	3642.62	478.69	-80.34	485.38	2.97	2.97	-0.41	
3794.00	24.13	349.21	3699.35	503.24	-85.07	510.37	1.12	1.11	0.40	
3857.00	24.44	349.33	3756.78	528.70	-89.90	536.27	0.50	0.49	0.19	
3919.00	24.13	349.58	3813.29	553.77	-94.56	561.76	0.53	-0.50	0.40	
3979.00	24.06	350.83	3868.06	577.91	-98.73	586.26	0.86	-0.12	2.08	
4040.00	22.63	350.96	3924.07	601.77	-102.56	610.43	2.35	-2.34	0.21	
4102.00	21.94	352.83	3981.44	625.05	-105.88	633.93	1.60	-1.11	3.02	
4156.00	21.00	354.46	4031.69	644.69	-108.07	653.67	2.06	-1.74	3.02	
4218.00	21.13	353.33	4089.55	666.84	-110.44	675.92	0.69	0.21	-1.82	
4281.00	20.94	351.83	4148.35	689.26	-113.36	698.52	0.91	-0.30	-2.38	
4343.00	21.19	352.21	4206.21	711.33	-116.45	720.80	0.46	0.40	0.61	
4374.00	22.00	352.46	4235.03	722.64	-117.97	732.21	2.63	2.61	0.81	
4435.00	23.19	353.33	4291.35	745.90	-120.87	755.63	2.03	1.95	1.43	
4528.00	22.94	352.58	4376.91	782.06	-125.34	792.04	0.41	-0.27	-0.81	
4589.00	22.44	352.09	4433.19	805.38	-128.47	815.56	0.88	-0.82	-0.80	
4617.00	22.75	351.21	4459.04	816.02	-130.04	826.31	1.64	1.11	-3.14	
4648.00	22.81	348.71	4487.63	827.84	-132.13	838.31	3.13	0.19	-8.06	
4679.00	22.81	346.58	4516.20	839.58	-134.70	850.31	2.66	0.00	-6.87	
4710.00	22.63	346.46	4544.80	851.22	-137.49	862.25	0.60	-0.58	-0.39	
4741.00	22.94	348.46	4573.38	862.94	-140.10	874.23	2.69	1.00	6.45	
4772.00	22.56	349.71	4601.97	874.71	-142.37	886.22	1.98	-1.23	4.03	
4803.00	23.06	350.83	4630.54	886.55	-144.40	898.23	2.14	1.61	3.61	
4834.00	24.19	350.83	4658.94	898.82	-146.38	910.66	3.65	3.65	0.00	
4865.00	25.31	352.33	4687.10	911.65	-148.27	923.63	4.14	3.61	4.84	
4896.00	25.25	353.20	4715.13	924.79	-149.94	936.86	1.21	-0.19	2.81	
4927.00	24.63	353.20	4743.24	937.77	-151.49	949.92	2.00	-2.00	0.00	
4959.00	23.69	353.08	4772.43	950.77	-153.05	963.01	2.94	-2.94	-0.37	
4990.00	23.69	351.58	4800.82	963.11	-154.71	975.46	1.94	0.00	-4.84	
5022.00	24.75	351.33	4830.00	976.09	-156.67	988.59	3.33	3.31	-0.78	
5053.00	24.31	351.21	4858.21	988.81	-158.62	1001.46	1.43	-1.42	-0.39	
5084.00	23.44	351.08	4886.55	1001.21	-160.55	1014.00	2.81	-2.81	-0.42	
5144.00	22.56	350.58	4941.78	1024.36	-164.28	1037.45	1.50	-1.47	-0.83	
5175.00	22.69	350.83	4970.40	1036.13	-166.21	1049.37	0.52	0.42	0.81	
5207.00	22.94	350.33	4999.89	1048.37	-168.24	1061.78	0.99	0.78	-1.56	

Weatherford International, Inc.

Survey Report



Weatherford

Company: Merrion Oil & Gas
Field: San Juan County, NM
Site: Farmington C Com #1E
Well: Farmington C Com #1E
Wellpath: 1

Date: 9/28/2007 Time: 08:32:29 Page: 3
Co-ordinate(NE) Reference: Site: Farmington C Com #1E, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0 00N, 0 00E, 350.80Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5237.00	23.56	350.33	5027.46	1060.04	-170.23	1073.62	2.07	2.07	0.00	
5267.00	24.00	350.71	5054.91	1071.97	-172.22	1085.72	1.55	1.47	1.27	
5298.00	24.56	351.33	5083.17	1084.56	-174.21	1098.46	1.98	1.81	2.00	
5330.00	24.06	351.21	5112.33	1097.58	-176.21	1111.64	1.57	-1.56	-0.37	
5361.00	23.63	351.33	5140.68	1109.97	-178.11	1124.17	1.40	-1.39	0.39	
5392.00	23.81	352.33	5169.06	1122.31	-179.88	1136.64	1.42	0.58	3.23	
5423.00	23.50	352.33	5197.46	1134.64	-181.54	1149.07	1.00	-1.00	0.00	
5454.00	24.00	353.08	5225.83	1147.02	-183.13	1161.55	1.88	1.61	2.42	
5485.00	24.69	353.71	5254.08	1159.72	-184.60	1174.31	2.38	2.23	2.03	
5516.00	24.31	354.71	5282.29	1172.51	-185.90	1187.15	1.81	-1.23	3.23	
5547.00	23.94	352.46	5310.58	1185.10	-187.31	1199.80	3.20	-1.19	-7.26	
5577.00	24.13	350.08	5337.98	1197.17	-189.16	1212.02	3.29	0.63	-7.93	
5608.00	24.38	348.58	5366.24	1209.69	-191.52	1224.75	2.15	0.81	-4.84	
5640.00	23.88	347.96	5395.45	1222.49	-194.18	1237.81	1.75	-1.56	-1.94	
5670.00	23.25	348.08	5422.95	1234.23	-196.67	1249.79	2.11	-2.10	0.40	
5702.00	22.94	349.08	5452.38	1246.53	-199.16	1262.34	1.56	-0.97	3.12	
5733.00	23.00	350.08	5480.92	1258.43	-201.35	1274.43	1.27	0.19	3.23	
5764.00	23.69	351.70	5509.38	1270.56	-203.29	1286.71	3.04	2.23	5.23	
5795.00	24.56	353.08	5537.68	1283.11	-204.96	1299.38	3.34	2.81	4.45	
5827.00	24.69	353.58	5566.77	1296.36	-206.51	1312.70	0.77	0.41	1.56	
5858.00	23.56	353.71	5595.06	1308.95	-207.91	1325.35	3.65	-3.65	0.42	
5889.00	22.25	351.83	5623.61	1320.92	-209.43	1337.41	4.84	-4.23	-6.06	
5920.00	22.44	350.83	5652.29	1332.57	-211.20	1349.19	1.37	0.61	-3.23	
5951.00	23.25	350.33	5680.85	1344.44	-213.18	1361.23	2.69	2.61	-1.61	
5982.00	23.94	349.95	5709.26	1356.67	-215.30	1373.64	2.28	2.23	-1.23	
6013.00	23.75	350.58	5737.62	1369.02	-217.42	1386.17	1.02	-0.61	2.03	
6044.00	23.56	350.95	5766.01	1381.29	-219.42	1398.61	0.78	-0.61	1.19	
6076.00	23.31	350.45	5795.37	1393.85	-221.47	1411.33	1.00	-0.78	-1.56	
6107.00	23.38	351.71	5823.83	1405.99	-223.38	1423.62	1.63	0.23	4.06	
6138.00	23.13	352.08	5852.32	1418.11	-225.10	1435.85	0.93	-0.81	1.19	
6200.00	23.00	349.33	5909.36	1442.07	-229.02	1460.14	1.75	-0.21	-4.44	
6230.00	23.31	346.83	5936.95	1453.61	-231.46	1471.92	3.44	1.03	-8.33	
6261.00	23.38	347.58	5965.41	1465.59	-234.18	1484.18	0.98	0.23	2.42	
6262.00	23.13	346.33	5966.33	1465.97	-234.27	1484.57	55.32	-25.00	-125.00	LAST SVY

Annotation

MD ft	TVD ft	
6262.00	5966.33	LAST SVY

Top
Kd

TO