

30-015-37429



Survey Report

17.28.05 UL E 1050FNL 330FWL

Company: Devon

Location: Artesia, NM

Well: Mark Twain 5 Fed Com 3H

Rig: Patterson 41

API or UWI:

Job Number: 02741-433-22

State: New Mexico

Operator: Great White

County: Eddy

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 275.57

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
5800.00	0.63	49.45	5799.75	22.11	-8.80

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5871.00	0.50	53.20	5870.75	22.55	-8.26	339.89	24.01	10.41	0.19
5902.00	1.10	285.60	5901.75	22.71	-8.43	339.63	24.23	10.60	4.71
5934.00	4.50	269.90	5933.70	22.79	-9.99	336.34	24.88	12.15	10.79
5966.00	8.40	269.40	5965.49	22.76	-13.58	329.18	26.51	15.72	12.19
5998.00	12.00	271.90	5996.98	22.85	-19.24	319.90	29.87	21.37	11.33
6029.00	14.90	273.40	6027.13	23.19	-26.44	311.25	35.17	28.57	9.42
6061.00	17.10	273.20	6057.89	23.70	-35.25	303.92	42.48	37.38	6.88
6093.00	19.30	272.90	6088.29	24.23	-45.23	298.18	51.31	47.37	6.88
6124.00	21.60	273.40	6117.33	24.83	-56.04	293.89	61.30	58.19	7.44
6156.00	24.50	273.60	6146.77	25.59	-68.55	290.47	73.17	70.71	9.07
6188.00	27.40	274.20	6175.54	26.55	-82.52	287.84	86.68	84.70	9.10
6220.00	29.90	275.00	6203.62	27.78	-97.81	285.86	101.68	100.04	7.90
6251.00	32.60	275.10	6230.12	29.20	-113.83	284.39	117.51	116.12	8.71
6283.00	35.60	274.90	6256.62	30.76	-131.70	283.15	135.24	134.06	9.38
6315.00	37.80	274.70	6282.27	32.36	-150.75	282.12	154.19	153.18	6.89
6346.00	40.00	274.00	6306.40	33.84	-170.16	281.25	173.49	172.64	7.24
6378.00	42.40	274.00	6330.47	35.31	-191.19	280.46	194.42	193.71	7.50
6410.00	45.20	274.50	6353.57	36.95	-213.27	279.83	216.45	215.85	8.82
6441.00	47.30	275.40	6375.00	38.88	-235.58	279.37	238.77	238.24	7.09

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6473.00	49.90	276.10	6396.16	41.29	-259.46	279.04	262.72	262.24	8.29
6505.00	53.40	276.70	6416.02	44.09	-284.39	278.81	287.79	287.33	11.04
6536.00	57.30	277.20	6433.64	47.18	-309.70	278.66	313.28	312.82	12.65
6568.00	60.40	277.20	6450.19	50.61	-336.87	278.54	340.65	340.19	9.69
6600.00	63.60	277.00	6465.21	54.10	-364.90	278.43	368.89	368.43	10.02
6632.00	66.50	276.60	6478.71	57.54	-393.71	278.31	397.89	397.44	9.13
6663.00	69.80	276.50	6490.24	60.82	-422.29	278.20	426.65	426.20	10.65
6695.00	73.00	276.30	6500.45	64.20	-452.43	278.08	456.96	456.52	10.02
6727.00	75.20	276.40	6509.21	67.60	-483.01	277.97	487.72	487.29	6.88
6759.00	78.10	275.80	6516.60	70.91	-513.97	277.86	518.84	518.42	9.24
6790.00	81.10	275.50	6522.20	73.91	-544.31	277.73	549.30	548.91	9.72
6822.00	84.50	275.40	6526.21	76.93	-575.91	277.61	581.02	580.65	10.63
6854.00	86.40	275.10	6528.75	79.84	-607.67	277.49	612.89	612.55	6.01
6885.00	89.00	276.90	6529.99	83.08	-638.47	277.41	643.85	643.52	10.20
6917.00	89.40	276.80	6530.44	86.90	-670.24	277.39	675.85	675.51	1.29
7012.00	90.20	276.90	6530.77	98.23	-764.56	277.32	770.85	770.49	0.85
7106.00	89.60	275.80	6530.93	108.62	-857.98	277.22	864.83	864.47	1.33
7201.00	88.00	275.00	6532.92	117.56	-952.54	277.04	959.76	959.45	1.88
7297.00	89.10	275.30	6535.35	126.18	-1048.12	276.86	1055.68	1055.41	1.19
7391.00	89.60	275.20	6536.42	134.78	-1141.72	276.73	1149.64	1149.41	0.54
7487.00	90.70	274.80	6536.17	143.14	-1237.35	276.60	1245.60	1245.40	1.22
7582.00	89.50	275.30	6536.00	151.51	-1331.98	276.49	1340.57	1340.39	1.37
7677.00	90.00	275.30	6536.42	160.28	-1426.57	276.41	1435.55	1435.39	0.53
7772.00	89.50	274.90	6536.83	168.73	-1521.19	276.33	1530.52	1530.39	0.67
7867.00	89.70	275.30	6537.49	177.17	-1615.81	276.26	1625.50	1625.38	0.47
7962.00	89.40	276.00	6538.24	186.52	-1710.35	276.22	1720.49	1720.38	0.80
8057.00	89.60	276.10	6539.07	196.54	-1804.82	276.21	1815.49	1815.37	0.24
8152.00	89.10	276.30	6540.15	206.80	-1899.25	276.21	1910.48	1910.36	0.57
8247.00	89.50	276.20	6541.31	217.14	-1993.68	276.22	2005.47	2005.34	0.43
8342.00	90.40	276.50	6541.39	227.64	-2088.10	276.22	2100.47	2100.33	1.00
8437.00	89.20	276.90	6541.72	238.73	-2182.45	276.24	2195.46	2195.31	1.33
8533.00	89.60	275.90	6542.73	249.43	-2277.84	276.25	2291.46	2291.30	1.12
8628.00	88.70	275.60	6544.14	258.94	-2372.35	276.23	2386.44	2386.28	1.00
8723.00	88.80	275.00	6546.21	267.72	-2466.92	276.19	2481.41	2481.26	0.64
8818.00	89.50	275.00	6547.62	276.00	-2561.55	276.15	2576.38	2576.24	0.74

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8913.00	90.50	274.40	6547.62	283.78	-2656.23	276.10	2671.35	2671.23	1.23
9008.00	88.60	274.00	6548.36	290.74	-2750.97	276.03	2766.29	2766.20	2.04
9103.00	89.60	273.90	6549.85	297.28	-2845.73	275.96	2861.21	2861.15	1.06
9198.00	89.10	274.10	6550.93	303.91	-2940.49	275.90	2956.15	2956.10	0.57
9293.00	88.80	275.50	6552.67	311.85	-3035.14	275.87	3051.12	3051.08	1.51
9388.00	89.70	275.60	6553.92	321.04	-3129.68	275.86	3146.11	3146.07	0.95
9483.00	89.30	274.90	6554.75	329.73	-3224.28	275.84	3241.10	3241.06	0.85
9578.00	88.30	274.80	6556.74	337.76	-3318.92	275.81	3336.06	3336.03	1.06
9673.00	88.90	274.60	6559.06	345.55	-3413.57	275.78	3431.02	3430.99	0.67
9768.00	89.10	275.30	6560.71	353.74	-3508.20	275.76	3525.99	3525.97	0.77
9863.00	89.00	275.10	6562.29	362.35	-3602.80	275.74	3620.97	3620.96	0.24
9959.00	89.60	274.70	6563.46	370.55	-3698.44	275.72	3716.96	3716.94	0.75
10054.00	89.70	276.00	6564.04	379.41	-3793.02	275.71	3811.95	3811.94	1.37
10149.00	90.50	276.00	6563.88	389.34	-3887.50	275.72	3906.95	3906.94	0.84
10244.00	89.80	276.10	6563.63	399.35	-3981.97	275.73	4001.95	4001.93	0.74
10399.00	90.50	275.80	6563.22	415.42	-4136.13	275.74	4156.94	4156.93	0.49

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End of Well Recap FOR

Devon Energy
Mark Twain 5 Fed Com #3H
Eddy Co, NM

Proposal No. 02741-433-22

Presented By:

Terry Morgan
Regional Manager

Mirenda Morgan
Well Planner



HOBBS OCD

JUN 23 2011

RECEIVED

RECEIVED

JUL 08 2011

NMOCD ARTESIA

GREAT WHITE
DIRECTIONAL SERVICES, L.L.C.



Overlay Well & Survey Report



Devon Energy
 Project: Eddy County
 Site: Sec 5 - T17S - R28E
 Well: Mark Twain 5 Fed Com #3H
 Wellbore: Wellbore #1
 Design: Plan #7
 Lat: 32° 51' 53.459 N
 Long: 104° 11' 30.516 W
 Pad GL: 0.0
 KB: WELL @ 3611.0usft (Original Well Elev)

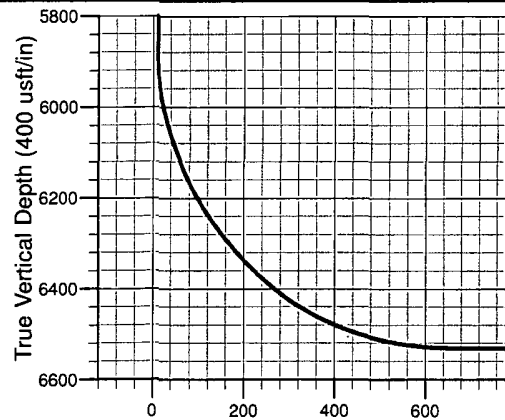


PROJECT DETAILS: Eddy County	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

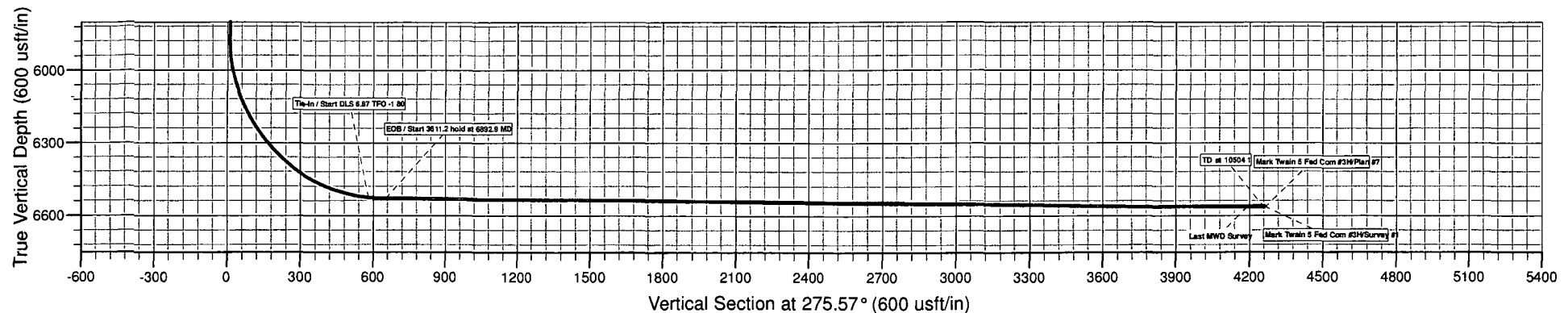
	Azimuths to Grid North
	True North: -0.08°
	Magnetic North: 7.88°
	Magnetic Field
	Strength: 48958.5snT
	Dip Angle: 60.68°
	Date: 2011/03/08
	Model: IGRF2010

WELL DETAILS: Mark Twain 5 Fed Com #3H						
+N/-S	+E/-W	Northing	Ground Level: Easting	0.0 Latitude	Longitude	Slot
0.0	0.0	678394.93	584791.30	32° 51' 53.459 N	104° 11' 30.516 W	

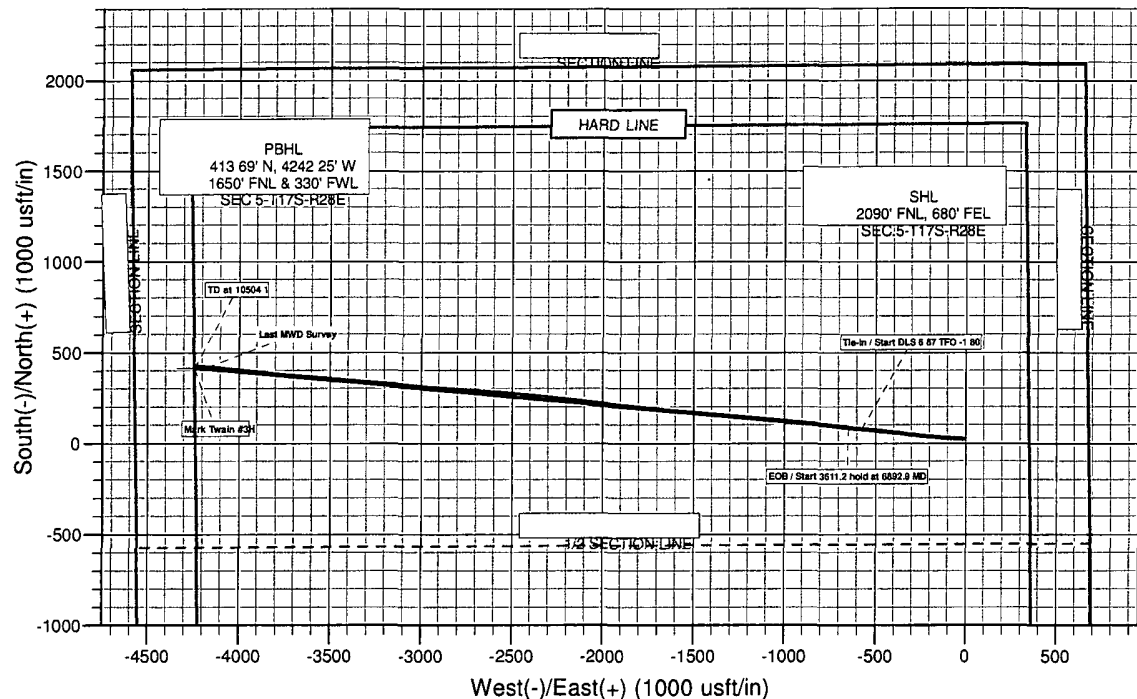
WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Toe	6570.0	413.7	-4242.3	32° 51' 57.606 N	104° 12' 20.249 W	Point



Vertical Section at 275.57° (400 usft/in)



Vertical Section at 275.57° (600 usft/in)



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
6822.0	84.50	275.40	6526.2	76.9	-575.9	0.00	0.00	580.7	
6892.9	89.37	275.25	6530.0	83.4	-646.4	6.87	-1.80	651.5	
10504.1	89.37	275.25	6569.7	413.7	-4242.3	0.00	0.00	4262.4	