

Results of Directional Survey

DD

API number:	30-025-41029		
OGRID:		Operator:	HUNTINGTON ENERGY, LLC
		Property:	HUBBARD # 1

surface	ULSTR:	D	26	T 14S	R 38E
				330 FNL	660 FWL

BH Loc	ULSTR:	D	26	T 14S	R 38E
10010	MD	9993.4	TVD	660 FNL	789 FWL

Top Perf/OH	ULSTR:	D	26	T 14S	R 38E
9272	MD	9257.4	TVD	610 FNL	770 FWL

Bot Perf/OH	ULSTR:	D	26	T 14S	R 38E
9345	MD	9330.1	TVD	615 FNL	771 FWL

	MD	N/S	E/W	VD
	9270	-279.70	109.80	9255.4
TOP PERFS/OH	9272	-279.85	109.83	9257.41
	9314	-282.90	110.40	9299.70
	9314.5	-282.90	110.40	9299.70
BOT PERFS/OH	9345	-285.03	110.87	9330.14
	9366	-286.50	111.20	9351.10

NEXT TO LAST	9936	-325.00	125.80	9919.60
LAST READING	10010	-329.50	128.60	9993.40
TD	10010	-329.50	128.60	9993.40

Surface Location	330	FN	660	FW
Projected BHL	660	FN	789	FW
Location of				
Top Perfs/OH	610	FN	770	FW
Bottom Perfs/OH	615	FN	771	FW

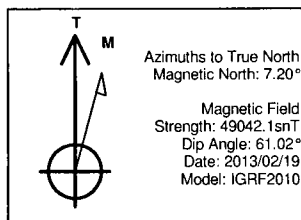
SUMMARY of Subsurface Locations

Surface Location	D-26-14S-38E	330	FN	660	FW	Vert. Depth
Top Perfs/OH	D-26-14S-38E	610	FN	770	FW	9257.41
Bottom Perfs/OH	D-26-14S-38E	615	FN	771	FW	9330.14
Projected TD	D-26-14S-38E	660	FN	789	FW	9993.40

JUL 25 2013

Huntington Energy

Project: Lea County (NM27E)
 Site: Sec 26-T14S-R38E
 Well: Hubbard #1
 Wellbore: Wellbore #1
 Design: 04-03-13

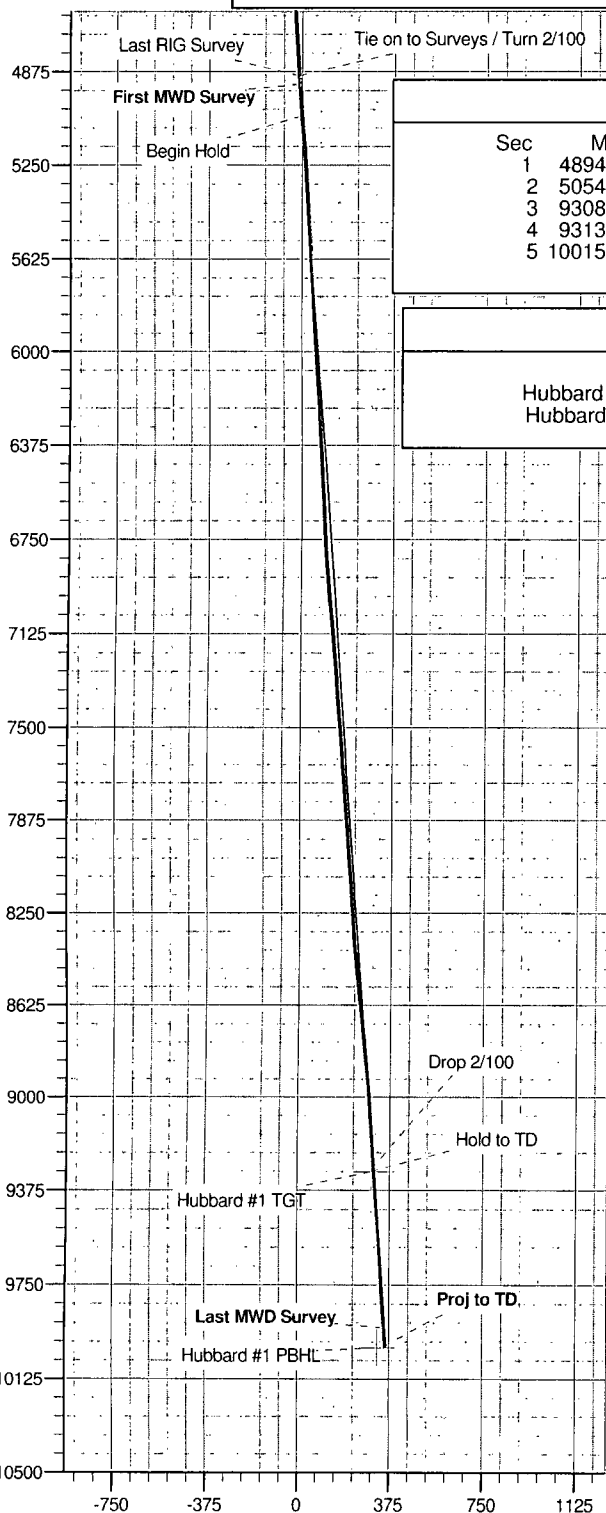


Wolverine Directional

WELL DETAILS: Hubbard #1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	759583.20	927083.70	33° 4' 54.197 N	103° 4' 26.308 W	

SHL: 330' FNL / 660' FWL
 BHL 630' FNL / 780' FWL



SECTION DETAILS

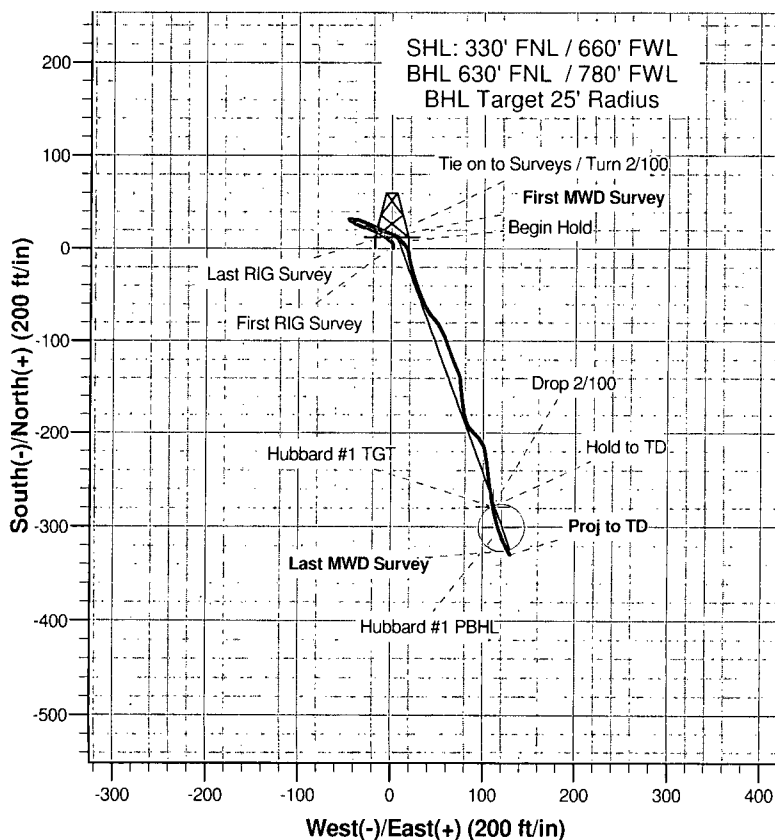
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4894.0	4.20	114.30	4892.0	14.8	-0.8	0.00	0.00	-14.1	
2	5054.5	4.10	159.85	5052.1	7.0	6.5	2.00	114.43	-4.1	
3	9308.5	4.10	159.85	9295.2	-278.3	111.1	0.00	0.00	299.7	
4	9313.3	4.00	159.85	9300.0	-278.6	111.3	2.00	-179.82	300.0	Hubbard #1 TGT
5	10015.0	4.00	159.85	10000.0	-324.6	128.1	0.00	0.00	348.9	

Wellbore Targets

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Hubbard #1 TGT	9300.0	-278.6	111.3	759305.95	927198.30	Point
Hubbard #1 PBHL	10000.0	-301.0	120.2	759283.70	927207.50	Circle (Radius: 25.0)

ANNOTATIONS

TVD	MD	Annotation
4892.0	4894.0	Tie on to Surveys / Turn 2/100
5052.1	5054.5	Begin Hold
9295.2	9308.5	Drop 2/100
9300.0	9313.3	Hold to TD
10000.0	10015.0	TD at 10015.0



OPERATOR
WELL/LEASE
COUNTY

HUNTINGTON ENERGY LLC
HUBBARD # 1
LEA

435-0048

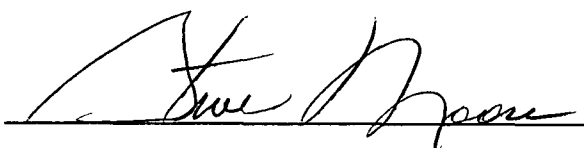
STATE OF NEW MEXICO
DEVIATION REPORT

350

0.90

STATE OF TEXAS

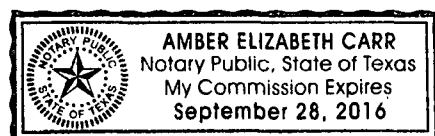
COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

4/17/13, by


Notary Public for Midland County, Texas
My Commission Expires:



Huntington Energy

Lea County (NM27E)

Sec 26-T14S-R38E

Hubbard #1

Wellbore #1

Survey: MWD Surveys

Standard Survey Report

15 April, 2013

Wolverine Directional, LLC

Survey Report

Company:	Huntington Energy	Local Co-ordinate Reference:	Well Hubbard #1
Project:	Lea County (NM27E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 26-T14S-R38E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	Hubbard #1	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	158.23

Survey Program	Date 2013/04/15			
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
290.0	10,010.0	MWD Surveys (Wellbore #1)	mwd	MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
290.0	0.70	0.00	290.0	1.8	0.0	-1.6	0.24	0.24	0.00
First RIG Survey									
400.0	0.90	0.00	400.0	3.3	0.0	-3.1	0.18	0.18	0.00
649.0	1.80	312.00	648.9	7.9	-2.9	-8.4	0.55	0.36	-19.28
903.0	1.80	303.00	902.8	12.7	-9.2	-15.2	0.11	0.00	-3.54
1,186.0	1.80	299.00	1,185.7	17.3	-16.8	-22.3	0.04	0.00	-1.41
1,697.0	0.90	282.00	1,696.5	22.0	-27.8	-30.8	0.19	-0.18	-3.33
2,204.0	0.50	280.00	2,203.5	23.2	-33.8	-34.1	0.08	-0.08	-0.39
2,711.0	1.20	301.00	2,710.4	26.4	-40.6	-39.5	0.15	0.14	4.14
3,204.0	0.50	306.00	3,203.4	30.3	-46.7	-45.5	0.14	-0.14	1.01
3,688.0	0.60	89.00	3,687.3	31.6	-45.9	-46.3	0.22	0.02	29.55
4,188.0	1.20	102.00	4,187.3	30.5	-38.2	-42.5	0.13	0.12	2.60
4,671.0	4.20	115.30	4,669.7	21.9	-17.2	-26.7	0.63	0.62	2.75
4,799.0	5.00	112.30	4,797.3	17.8	-7.8	-19.4	0.65	0.63	-2.34
4,894.0	4.20	114.30	4,892.0	14.8	-0.8	-14.0	0.86	-0.84	2.11
Last RIG Survey									
4,926.0	3.90	117.10	4,923.9	13.8	1.2	-12.4	1.12	-0.94	8.75
First MWD Survey									
5,021.0	4.70	135.20	5,018.6	9.6	6.8	-6.4	1.65	0.84	19.05
5,117.0	5.80	139.40	5,114.2	3.1	12.7	1.8	1.21	1.15	4.38
5,212.0	4.00	166.10	5,208.9	-3.8	16.7	9.7	3.01	-1.89	28.11
5,275.0	3.40	171.60	5,271.8	-7.7	17.5	13.7	1.11	-0.95	8.73
5,371.0	3.50	169.50	5,367.6	-13.4	18.4	19.3	0.17	0.10	-2.19
5,466.0	3.20	165.10	5,462.4	-18.9	19.6	24.8	0.42	-0.32	-4.63
5,561.0	3.30	163.60	5,557.3	-24.0	21.1	30.1	0.14	0.11	-1.58
5,657.0	3.40	161.20	5,653.1	-29.4	22.8	35.7	0.18	0.10	-2.50
5,752.0	3.30	162.20	5,747.9	-34.7	24.5	41.3	0.12	-0.11	1.05
5,847.0	3.20	161.70	5,842.8	-39.8	26.2	46.7	0.11	-0.11	-0.53
5,942.0	3.10	160.00	5,937.6	-44.7	27.9	51.9	0.14	-0.11	-1.79
6,037.0	3.10	158.00	6,032.5	-49.5	29.7	57.0	0.11	0.00	-2.11
6,133.0	3.10	156.70	6,128.4	-54.3	31.7	62.2	0.07	0.00	-1.35
6,227.0	3.00	156.80	6,222.2	-58.9	33.7	67.2	0.11	-0.11	0.11
6,322.0	2.90	152.40	6,317.1	-63.3	35.8	72.1	0.26	-0.11	-4.63
6,418.0	2.80	148.60	6,413.0	-67.5	38.2	76.8	0.22	-0.10	-3.96
6,513.0	2.70	144.00	6,507.9	-71.2	40.7	81.3	0.25	-0.11	-4.84
6,608.0	2.60	142.30	6,602.8	-74.8	43.3	85.5	0.13	-0.11	-1.79
6,703.0	2.60	136.80	6,697.7	-78.0	46.1	89.6	0.26	0.00	-5.79

Wolverine Directional, LLC

Survey Report

Company: Huntington Energy	Local Co-ordinate Reference: Well Hubbard #1	
Project: Lea County (NM27E)	TVD Reference: WELL @ 0.0ft (Original Well Elev)	
Site: Sec 26-T14S-R38E	MD Reference: WELL @ 0.0ft (Original Well Elev)	
Well: Hubbard #1	North Reference: True	
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature	
Design: Wellbore #1	Database: EDM 2003.21 Single User Db	

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,798.0	3.70	146.90	6,792.5	-82.2	49.3	94.6	1.29	1.16	10.63
6,893.0	5.00	149.80	6,887.3	-88.3	53.0	101.7	1.39	1.37	3.05
6,989.0	5.60	160.90	6,982.8	-96.4	56.6	110.5	1.23	0.63	11.56
7,084.0	5.50	161.20	7,077.4	-105.1	59.6	119.7	0.11	-0.11	0.32
7,179.0	5.20	157.10	7,172.0	-113.3	62.8	128.5	0.51	-0.32	-4.32
7,274.0	4.90	158.70	7,266.6	-121.1	65.9	136.9	0.35	-0.32	1.68
7,369.0	4.70	158.20	7,361.3	-128.5	68.8	144.8	0.22	-0.21	-0.53
7,464.0	4.70	155.20	7,456.0	-135.6	71.9	152.6	0.26	0.00	-3.16
7,559.0	4.80	175.90	7,550.6	-143.1	73.8	160.3	1.80	0.11	21.79
7,654.0	4.50	175.20	7,645.3	-150.8	74.4	167.6	0.32	-0.32	-0.74
7,749.0	4.70	174.00	7,740.0	-158.4	75.2	175.0	0.23	0.21	-1.26
7,844.0	4.40	174.50	7,834.7	-165.9	75.9	182.2	0.32	-0.32	0.53
7,939.0	4.30	172.30	7,929.5	-173.0	76.7	189.2	0.20	-0.11	-2.32
8,034.0	4.20	169.10	8,024.2	-180.0	77.9	196.0	0.27	-0.11	-3.37
8,129.0	4.00	161.90	8,119.0	-186.5	79.6	202.7	0.58	-0.21	-7.58
8,227.0	3.90	151.30	8,216.7	-192.7	82.2	209.5	0.75	-0.10	-10.82
8,320.0	3.40	136.40	8,309.5	-197.5	85.6	215.2	1.15	-0.54	-16.02
8,415.0	6.00	137.60	8,404.2	-203.2	90.9	222.4	2.74	2.74	1.26
8,510.0	6.10	148.00	8,498.7	-211.1	97.0	232.0	1.16	0.11	10.95
8,606.0	6.50	171.30	8,594.1	-220.8	100.5	242.4	2.68	0.42	24.27
8,701.0	6.20	170.30	8,688.5	-231.2	102.2	252.6	0.34	-0.32	-1.05
8,796.0	6.00	173.80	8,783.0	-241.2	103.6	262.4	0.44	-0.21	3.68
8,891.0	5.80	172.30	8,877.5	-250.9	104.7	271.9	0.27	-0.21	-1.58
8,986.0	4.50	169.40	8,972.1	-259.3	106.1	280.2	1.40	-1.37	-3.05
9,081.0	4.20	171.60	9,066.8	-266.4	107.3	287.2	0.36	-0.32	2.32
9,176.0	4.00	168.10	9,161.6	-273.1	108.5	293.9	0.34	-0.21	-3.68
9,270.0	4.20	168.80	9,255.4	-279.7	109.8	300.5	0.22	0.21	0.74
9,314.5	4.15	168.57	9,299.7	-282.9	110.4	303.7	0.11	-0.10	-0.51
Hubbard #1 TGT									
9,366.0	4.10	168.30	9,351.1	-286.5	111.2	307.3	0.11	-0.10	-0.53
9,556.0	4.30	163.20	9,540.6	-300.0	114.6	321.1	0.22	0.11	-2.68
9,746.0	4.10	156.10	9,730.1	-313.0	119.4	335.0	0.29	-0.11	-3.74
9,936.0	4.10	148.00	9,919.6	-325.0	125.8	348.4	0.30	0.00	-4.26
Last MWD Survey									
10,010.0	4.10	148.00	9,993.4	-329.5	128.6	353.6	0.00	0.00	0.00
Proj to TD - Hubbard #1 PBHL									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
290.0	290.0	1.8	0.0	First RIG Survey
4,894.0	4,892.0	14.8	-0.8	Last RIG Survey
4,926.0	4,923.9	13.8	1.2	First MWD Survey
9,936.0	9,919.6	-325.0	125.8	Last MWD Survey
10,010.0	9,993.4	-329.5	128.6	Proj to TD

Checked By: _____ Approved By: _____ Date: _____