

30-015-38193



Snapping 11 Federal #1H
Eddy Co., NM

Rig H&P 214

RECEIVED

JUL 15 2011

NMOCD ARTESIA

KB ELEV: 3237
GL ELEV: 3212

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7900.00	0.66	172.02	7897.83	-108.50	6.51	0.00	0.00	-108.54	
2	7957.09	0.72	185.21	7954.92	-109.18	6.52	0.29	77.10	-109.22	
3	8864.22	90.00	359.56	8535.00	463.71	1.43	10.00	174.35	463.69	
4	12974.70	90.00	359.56	8535.00	4574.07	-30.02	0.00	0.00	4574.17	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Snapping 11 Fed #1H	0.00	0.00	382901.90	721414.60	32°03'04.833N	103°45'07.567W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8535.00	4574.07	-30.02	387475.97	721384.58	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Snapping 11 Federal #1H

Site Centre Northing: 382901.90
Easting: 721414.60

Ground Level: 3212.00
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

- Snapping 11 Fed #1H, Gyro
- Snapping 11 Fed #1H, Plan #2
- Wft Svy



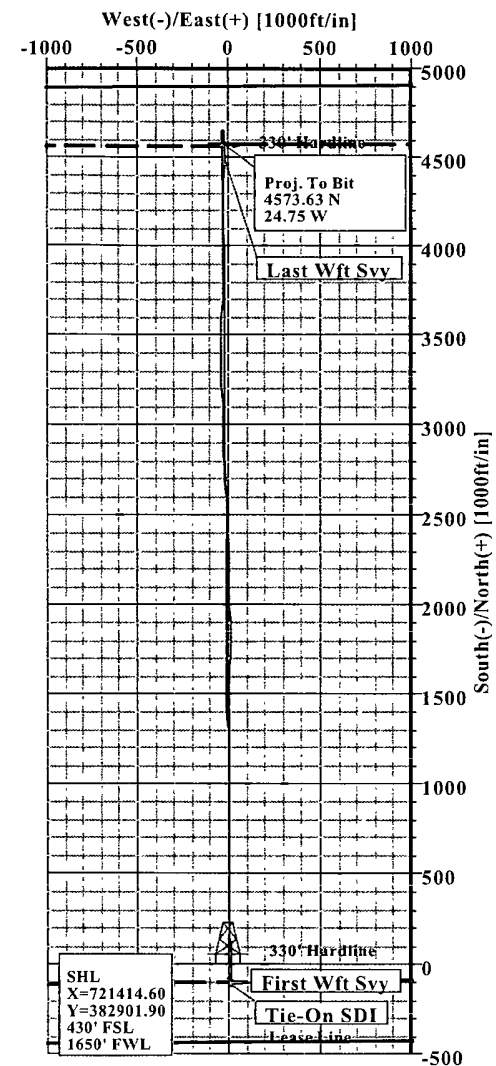
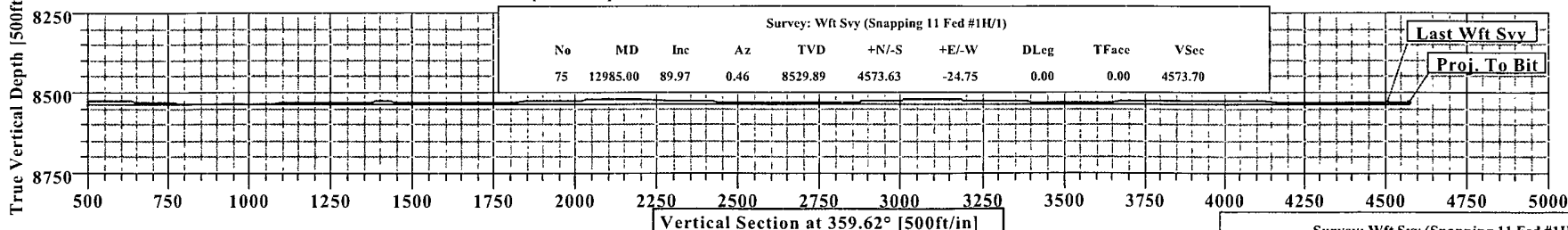
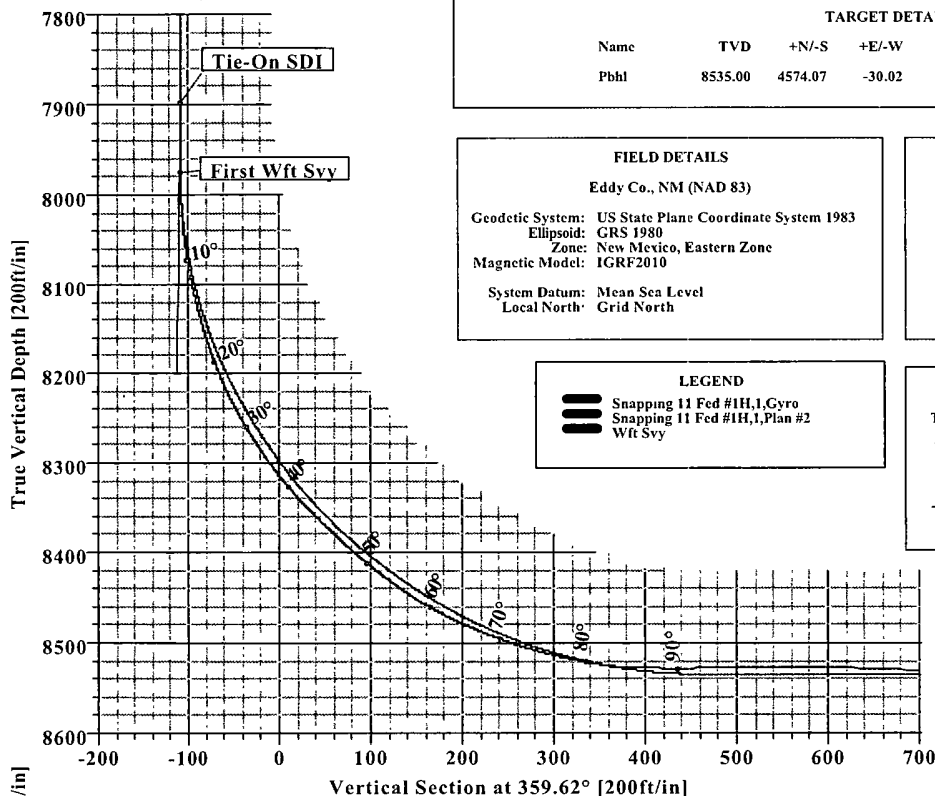
Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.41°

Magnetic Field
Strength: 48570nT
Dip Angle: 60.01°
Date: 12/5/2010
Model: IGRF2010

Total Correction to Grid North: 7.41°



Weatherford



Last Wft Svy
Proj. To Bit

Survey: Wft Svy (Snapping 11 Fed #1H/1)

Created By: Russell W. Joyner

Date: 12/13/2010



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 12/13/2010	Time: 06:54:30	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Snapping 11 Fed #1H, Grid North		
Site: Snapping 11 Federal #1H	Vertical (TVD) Reference: SITE 3237.0		
Well: Snapping 11 Fed #1H	Section (VS) Reference: Well (0.00N, 0.00E, 359.62Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 12/6/2010
Company: Weatherford International Ltd	Engineer: Russell W Joyner
Tool: MWD,MWD - Standard	Tied-to: User Defined

Field: Eddy Co , NM (NAD 83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Snapping 11 Federal #1H

Site Position:	Northing: 382901.90 ft	Latitude: 32 3 4.833 N
From: Map	Easting: 721414.60 ft	Longitude: 103 45 7.567 W
Position Uncertainty: 0.00 ft		North Reference: Grd
Ground Level: 3212.00 ft		Grid Convergence: 0 31 deg

Well: Snapping 11 Fed #1H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 382901.90 ft	Latitude: 32 3 4.833 N
+E/-W 0.00 ft	Easting: 721414.60 ft	Longitude: 103 45 7.567 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 12/5/2010	Above System Datum: Mean Sea Level		
Field Strength: 48570 nT	Declination: 7.72 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.01 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	359.62

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7900.00	0.66	172.02	7897.83	-108.50	6.57	0.00	-108.54	382793.40	721421.17	Tie-On SDI First Wft Svy
7978.00	0.35	253.38	7975.83	-109.01	6.40	0.90	-109.05	382792.89	721421.00	
8009.00	2.90	344.78	8006.82	-108.28	6.11	9.45	-108.32	382793.62	721420.71	
8041.00	6.24	0.28	8038.71	-105.76	5.90	11.04	-105.80	382796.14	721420.50	
8072.00	9.76	11.49	8069.41	-101.50	6.44	12.37	-101.54	382800.40	721421.04	
8103.00	12.61	11.82	8099.81	-95.61	7.65	9.20	-95.66	382806.29	721422.25	
8135.00	14.78	8.19	8130.90	-88.15	8.95	7.29	-88.21	382813.75	721423.55	
8166.00	17.38	6.59	8160.69	-79.64	10.04	8.51	-79.70	382822.26	721424.64	
8197.00	20.27	4.57	8190.03	-69.68	11.00	9.56	-69.75	382832.22	721425.60	
8229.00	24.53	2.15	8219.61	-57.51	11.69	13.62	-57.59	382844.39	721426.29	
8260.00	28.20	1.34	8247.38	-43.76	12.11	11.90	-43.83	382858.14	721426.71	
8291.00	31.80	358.01	8274.22	-28.26	12.00	12.79	-28.34	382873.64	721426.60	
8323.00	35.64	355.16	8300.83	-10.54	10.92	12.98	-10.61	382891.36	721425.52	
8354.00	39.79	353.75	8325.35	8.33	9.07	13.67	8.27	382910.23	721423.67	
8385.00	42.85	357.30	8348.63	28.73	7.50	12.43	28.68	382930.63	721422.10	
8417.00	45.75	0.14	8371.54	51.06	7.01	10.98	51.02	382952.96	721421.61	
8448.00	47.66	359.12	8392.79	73.62	6.86	6.61	73.58	382975.52	721421.46	
8479.00	50.11	358.65	8413.18	96.97	6.41	7.99	96.93	382998.87	721421.01	
8511.00	53.02	358.42	8433.07	122.03	5.76	9.11	121.99	383023.93	721420.36	
8542.00	57.69	357.96	8450.69	147.51	4.96	15.11	147.48	383049.41	721419.56	
8574.00	61.62	357.76	8466.85	175.10	3.92	12.29	175.07	383077.00	721418.52	
8605.00	66.43	358.07	8480.42	202.94	2.91	15.54	202.92	383104.84	721417.51	
8636.00	68.86	359.59	8492.21	231.60	2.33	9.06	231.58	383133.50	721416.93	
8668.00	72.07	1.48	8502.91	261.76	2.62	11.47	261.73	383163.66	721417.22	



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Snapping 11 Federal #1H
Well: Snapping 11 Fed #1H
Wellpath: 1

Date: 12/13/2010 Time: 06:54:30 Page: 2
Co-ordinate(NE) Reference: Well: Snapping 11 Fed #1H, Grid North
Vertical (TVD) Reference: SITE 3237.0
Section (VS) Reference: Well (0.00N,0.00E,359 62Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg.	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8699.00	74.74	2.28	8511.77	291.45	3.59	8.96	291.42	383193.35	721418.19	
8730.00	78.48	1.12	8518.94	321.58	4.48	12.60	321.55	383223.48	721419.08	
8762.00	81.96	359.72	8524.38	353.11	4.71	11.70	353.07	383255.01	721419.31	
8793.00	87.45	358.68	8527.24	383.96	4.28	18.02	383.93	383285.86	721418.88	
8824.00	89.34	359.14	8528.11	414.95	3.69	6.27	414.91	383316.85	721418.29	
8856.00	90.38	359.27	8528.18	446.94	3.25	3.28	446.91	383348.84	721417.85	
8908.00	92.06	359.30	8527.08	498.92	2.60	3.23	498.90	383400.82	721417.20	
9002.00	88.22	359.13	8526.85	592.90	1.31	4.09	592.88	383494.80	721415.91	
9096.00	87.45	359.50	8530.40	686.82	0.19	0.91	686.81	383588.72	721414.79	
9190.00	88.15	359.35	8534.01	780.75	-0.75	0.76	780.74	383682.65	721413.85	
9285.00	88.64	359.87	8536.67	875.71	-1.40	0.75	875.70	383777.61	721413.20	
9379.00	91.01	359.07	8536.96	969.70	-2.27	2.66	969.69	383871.60	721412.33	
9473.00	91.71	359.94	8534.72	1063.66	-3.08	1.19	1063.66	383965.56	721411.52	
9567.00	91.50	0.10	8532.09	1157.63	-3.05	0.28	1157.62	384059.53	721411.55	
9661.00	91.01	0.29	8530.03	1251.60	-2.73	0.56	1251.60	384153.50	721411.87	
9755.00	90.45	0.65	8528.84	1345.59	-1.96	0.71	1345.58	384247.49	721412.64	
9850.00	89.76	1.35	8528.66	1440.58	-0.30	1.03	1440.55	384342.48	721414.30	
9944.00	89.34	1.84	8529.40	1534.54	2.32	0.69	1534.49	384436.44	721416.92	
10038.00	88.42	1.60	8531.24	1628.48	5.14	1.01	1628.41	384530.38	721419.74	
10132.00	91.51	359.60	8531.29	1722.45	6.12	3.92	1722.38	384624.35	721420.72	
10226.00	91.37	0.01	8528.93	1816.42	5.80	0.46	1816.35	384718.32	721420.40	
10321.00	91.57	359.82	8526.49	1911.39	5.66	0.29	1911.31	384813.29	721420.26	
10415.00	91.57	357.60	8523.92	2005.33	3.54	2.36	2005.26	384907.23	721418.14	
10509.00	90.94	357.87	8521.86	2099.23	-0.17	0.73	2099.19	385001.13	721414.43	
10603.00	88.36	358.74	8522.43	2193.18	-2.95	2.90	2193.15	385095.08	721411.65	
10697.00	88.28	358.78	8525.19	2287.12	-4.98	0.10	2287.10	385189.02	721409.62	
10791.00	88.85	359.30	8527.54	2381.07	-6.56	0.82	2381.07	385282.97	721408.04	
10885.00	88.43	359.23	8529.78	2475.04	-7.76	0.45	2475.04	385376.94	721406.84	
10979.00	89.69	357.76	8531.32	2568.99	-10.23	2.06	2569.00	385470.89	721404.37	
11073.00	90.45	356.83	8531.20	2662.88	-14.67	1.28	2662.92	385564.78	721399.93	
11167.00	89.76	356.22	8531.03	2756.71	-20.36	0.98	2756.78	385658.61	721394.24	
11261.00	92.06	356.65	8529.54	2850.51	-26.21	2.49	2850.62	385752.41	721388.39	
11355.00	92.69	357.75	8525.64	2944.31	-30.80	1.35	2944.45	385846.21	721383.80	
11449.00	91.01	358.27	8522.61	3038.20	-34.06	1.87	3038.36	385940.10	721380.54	
11543.00	89.13	359.45	8522.49	3132.18	-35.93	2.36	3132.35	386034.08	721378.67	
11636.00	88.57	358.59	8524.36	3225.15	-37.52	1.10	3225.32	386127.05	721377.08	
11731.00	88.36	358.25	8526.90	3320.08	-40.14	0.42	3320.27	386221.98	721374.46	
11823.00	88.71	358.77	8529.26	3412.01	-42.53	0.68	3412.22	386313.91	721372.07	
11919.00	89.34	1.11	8530.89	3507.99	-42.63	2.52	3508.20	386409.89	721371.97	
12014.00	91.64	2.50	8530.08	3602.93	-39.64	2.83	3603.12	386504.83	721374.96	
12108.00	91.99	2.38	8527.10	3696.80	-35.64	0.39	3696.96	386598.70	721378.96	
12202.00	89.76	2.14	8525.67	3790.71	-31.93	2.39	3790.84	386692.61	721382.67	
12297.00	89.27	1.29	8526.47	3885.66	-29.09	1.03	3885.77	386787.56	721385.51	
12390.00	89.41	0.15	8527.54	3978.65	-27.92	1.23	3978.75	386880.55	721386.68	
12484.00	89.68	0.22	8528.29	4072.65	-27.62	0.30	4072.74	386974.55	721386.98	
12578.00	89.54	0.08	8528.93	4166.64	-27.37	0.21	4166.73	387068.54	721387.23	
12672.00	89.90	0.18	8529.39	4260.64	-27.16	0.40	4260.73	387162.54	721387.44	
12766.00	89.97	0.56	8529.49	4354.64	-26.55	0.41	4354.72	387256.54	721388.05	
12860.00	89.76	0.43	8529.71	4448.64	-25.74	0.26	4448.71	387350.54	721388.86	
12920.00	89.97	0.46	8529.86	4508.63	-25.27	0.35	4508.70	387410.53	721389.33	Last Wft Svy
12985.00	89.97	0.46	8529.89	4573.63	-24.75	0.00	4573.70	387475.53	721389.85	Proj. To Bit



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Devon Energy	Date: 12/13/2010	Time: 06:54:30	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Snapping 11 Fed #1H, Grid North	
Site: Snapping 11 Federal #1H	Vertical (TVD) Reference:	SITE 3237.0	
Well: Snapping 11 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,359.62Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
7900.00	7897.83	Tie-On SDI
7978.00	7975.83	First Wft Svy
12920.00	8529.86	Last Wft Svy
12985.00	8529.89	Proj. To Bit

Weatherford[®]

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: December 14, 2010

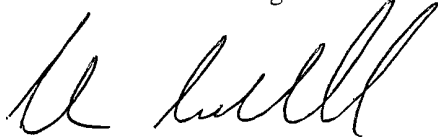
Attention: Wes Handley

Re: Devon Energy
Well: Snapping 11 Fed #1H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title <u>Of Surveyor</u>	Well <u>Number</u>	Surveyed <u>Depths</u>	Dates <u>Performed</u>	Type of <u>Survey</u>
Ralph Zamora MWD Supervisor	1H	7978' MD 12920' MD	11/28/2010 12/13/2010	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.



Luke Schnell
Area Manager

On this, the 14th day of December, 2010, before me a notary public, the undersigned officer, personally appeared Luke Schnell, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public

