



**DRILLING SERVICES
END OF WELL REPORT**

FOR

Kurtis Schmitz

Devon Energy

Thistle Unit 44H

Lea County, New Mexico

30-025-41032



Weatherford Drilling Services job start date : 6-24-2013

Weatherford Drilling Services job end date : 7-7-2013

Presented By:

Damien Tarpley
Area Manager

Scott Dixon
Account Manager

Orry Armendariz
Directional Drilling Coordinator

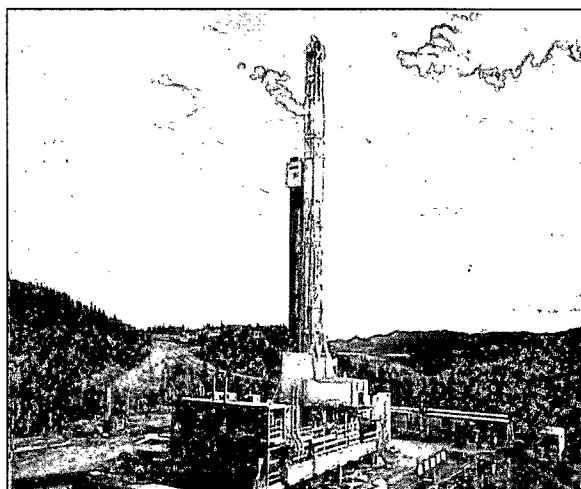
Jesse Aguilar
MWD Coordinator

HOBBS OCD

OCT 10 2013

RECEIVED

H&P 416



OCT 22 2013



10000 West County Road 116
P.O. Box 61028
Midland, Texas 79711
Phone (432) 561-8892

July 9, 2013

Kurtis Schmitz
20 North Broadway
Oklahoma City, OK 73102

Reference Well Name : Thistle Unit 44H
Location : Lea County, New Mexico
Wft Job # : 4029823
Rig : H&P 416

Dear Mr. Schmitz

Thank you for allowing us the opportunity to provide our services on your Thistle Unit 44H in Lea County, New Mexico.

Please find the final End Of Well (EOW) report enclosed behind this coverletter.

The EOW report contains the following information :

Section 1 - Weatherford (Wft) Final Definitive Survey & 8.5" x 11".

* Note: This survey contains the Directional Survey's obtained by Weatherford Drilling Services via Weatherford MWD Services, and any gyro survey needed for Tie On (if required).

Section 2- Days vs. Feet Drilled (24 hrs) and Days vs. Depth Graphs

Section 3- Wft Gamma Logs

Section 4 - Wft Final BHA reports (BHA Graphic Reports, BHA Detail Reports, Motor Evaluation Reports, and BHA Slide Reports).

Section 5 - Wft Final Daily Drilling reports.

Section 6 - Wft Personnel list with contact numbers.

We at *Weatherford Drilling Services'* understand the importance of this project to you and hope that you were satisfied with our Directional Drilling and MWD services provided.

Please feel free to contact me if you have any questions.

Sincerely,

Damien Tarpley
Area Manager
Weatherford Drilling Services
Midland, TX (432) 561-8892



Weatherford®

Devon Energy
Thistle Unit 44H
Lea County, New Mexico

Section 1

Weatherford (Wft) Final Definitive

Plot & Survey



Thistle Unit 44H
Lea County, New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	11576.00	89.37	359.03	11280.98	521.58	-134.83	0.00	0.00	523.70	
2	11657.52	91.00	0.86	11280.71	603.10	-134.91	3.00	48.31	605.21	
3	15666.11	91.00	0.86	11211.00	4610.63	-75.00	0.00	0.00	4611.24	PBHL

WELL DETAILS

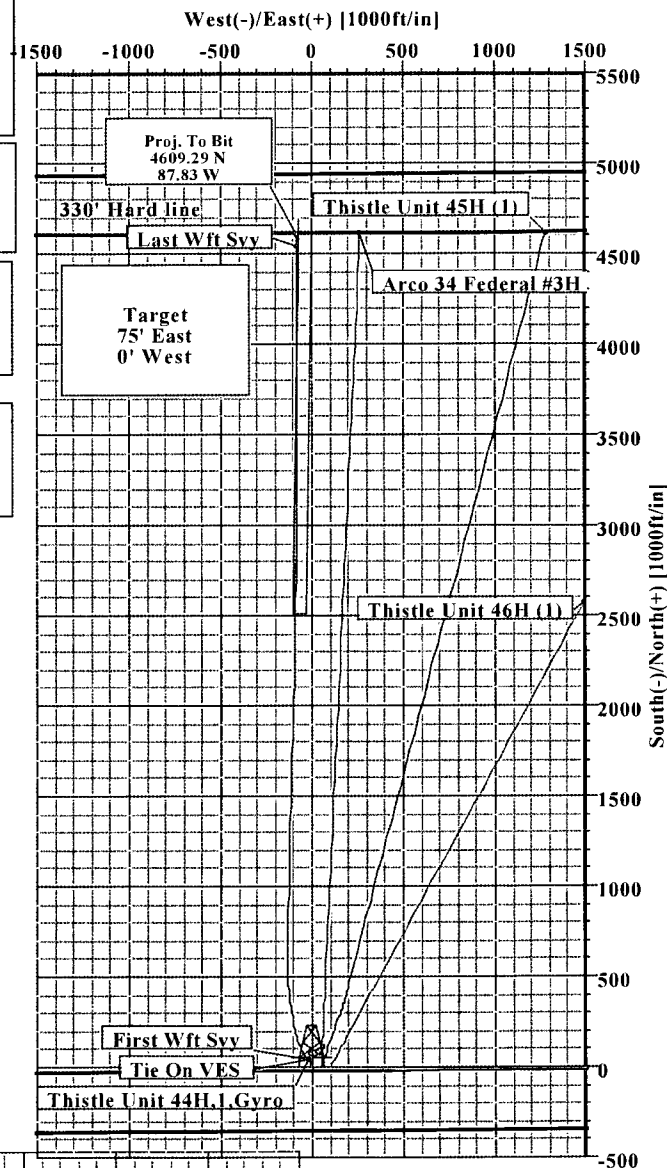
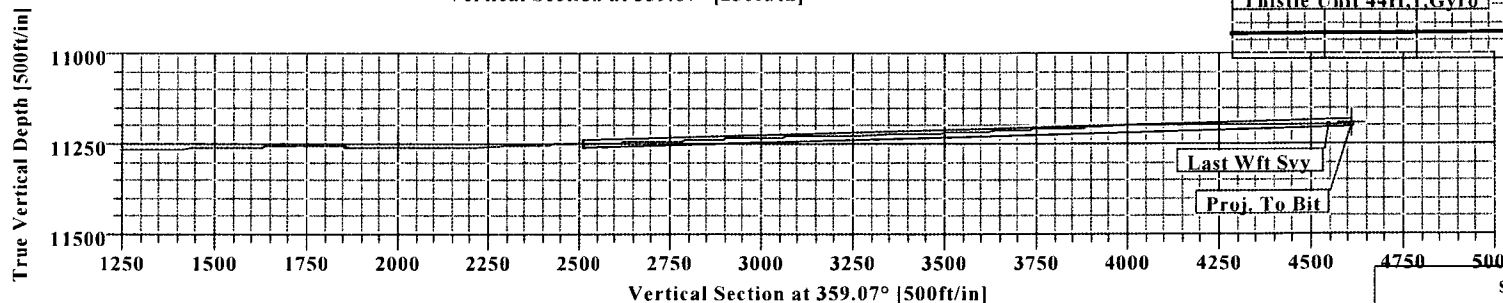
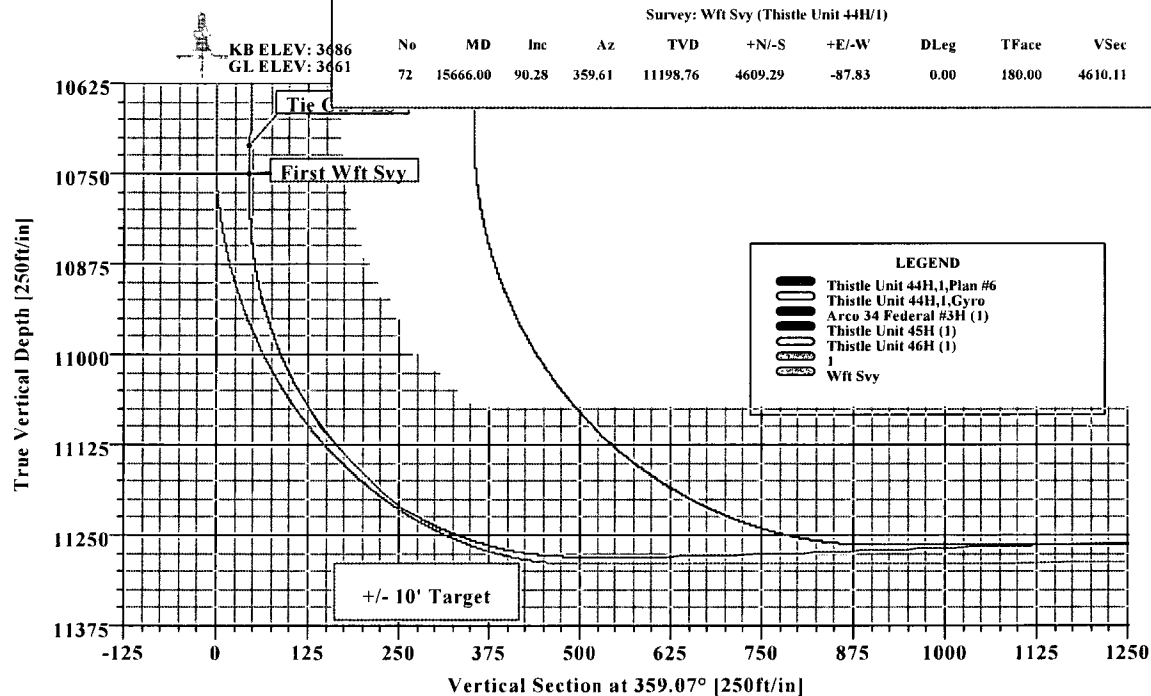
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Thistle Unit 44H	0.00	0.00	457321.40	774378.37	32°15'18.000N	103°34'46.129W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11191.00	4610.63	-75.00	461932.03	774303.37	Rectangle (2100x75)

Survey: Wft Svy (Thistle Unit 44H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
72	15666.00	90.28	359.61	11198.76	4609.29	-87.83	0.00	180.00	4610.11





Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy Date: 7/7/2013 Time: 09:14:25 Page: 1
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Thistle Unit 44H, Grid North
Site: Thistle Unit 44H Vertical (TVD) Reference: SITE 3686.0
Well: Thistle Unit 44H Section (VS) Reference: Well (0.00N,0.00E,359.07Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 6/28/2013
Company: Weatherford Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard Tied-to: User Defined

Site: Thistle Unit 44H

Site Position: Northing: 457321.40 ft Latitude: 32 15 18.000 N
From: Map Easting: 774378.37 ft Longitude: 103 34 46.129 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3661.00 ft Grid Convergence: 0.40 deg

Well: Thistle Unit 44H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 457321.40 ft Latitude: 32 15 18.000 N
+E/-W 0.00 ft Easting: 774378.37 ft Longitude: 103 34 46.129 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3686.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 7/1/2013 Above System Datum: Mean Sea Level
Field Strength: 48455 nT Declination: 7.34 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 60.16 deg
ft ft ft deg
0.00 0.00 0.00 359.07

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
10718.00	3.08	243.71	10710.97	44.89	-17.82	0.00	45.17	457366.29	774360.55	Tie On VES First Wft Svy
10756.00	2.85	256.00	10748.92	44.21	-19.65	1.77	44.52	457365.61	774358.72	
10788.00	3.74	277.19	10780.87	44.15	-21.46	4.67	44.49	457365.55	774356.91	
10819.00	6.41	299.26	10811.75	45.12	-23.97	10.52	45.50	457366.52	774354.40	
10850.00	9.36	305.03	10842.45	47.41	-27.55	9.84	47.85	457368.81	774350.82	
10882.00	12.64	310.38	10873.86	51.18	-32.35	10.72	51.69	457372.58	774346.02	
10913.00	15.59	319.95	10903.92	56.56	-37.61	12.10	57.17	457377.96	774340.76	
10945.00	18.48	327.00	10934.52	64.11	-43.14	11.09	64.80	457385.51	774335.23	
10976.00	21.32	329.49	10963.67	73.09	-48.68	9.56	73.87	457394.49	774329.69	
11008.00	24.64	331.35	10993.12	83.96	-54.84	10.62	84.84	457405.36	774323.53	
11039.00	27.53	333.69	11020.96	96.05	-61.11	9.89	97.03	457417.45	774317.26	
11071.00	30.57	337.08	11048.94	110.18	-67.56	10.80	111.27	457431.58	774310.81	
11103.00	34.07	339.90	11075.98	126.10	-73.81	11.91	127.28	457447.50	774304.56	
11134.00	37.29	342.62	11101.15	143.22	-79.60	11.58	144.50	457464.62	774298.77	
11166.00	40.59	344.02	11126.04	162.49	-85.37	10.67	163.85	457483.89	774293.00	
11197.00	43.48	346.32	11149.07	182.55	-90.67	10.56	184.00	457503.95	774287.70	
11231.00	46.44	348.95	11173.12	206.02	-95.79	10.28	207.54	457527.42	774282.58	
11262.00	50.33	349.98	11193.71	228.80	-100.03	12.79	230.39	457550.20	774278.34	
11294.00	56.27	349.84	11212.82	254.05	-104.52	18.57	255.71	457575.45	774273.85	
11323.00	62.43	349.90	11227.60	278.59	-108.90	21.24	280.32	457599.99	774269.47	
11355.00	67.32	350.60	11241.18	307.14	-113.81	15.41	308.95	457628.54	774264.56	
11386.00	70.37	352.08	11252.37	335.72	-118.16	10.80	337.59	457657.12	774260.21	
11418.00	73.91	353.00	11262.18	365.91	-122.11	11.40	367.85	457687.31	774256.26	
11449.00	77.36	353.87	11269.87	395.74	-125.54	11.46	397.73	457717.14	774252.83	
11481.00	81.78	354.37	11275.66	427.04	-128.76	13.90	429.07	457748.44	774249.61	
11513.00	85.94	355.14	11279.09	458.72	-131.67	13.22	460.79	457780.12	774246.70	
11544.00	88.88	357.13	11280.49	489.61	-133.75	11.45	491.71	457811.01	774244.62	
11576.00	89.37	359.03	11280.98	521.58	-134.83	6.13	523.70	457842.98	774243.54	
11670.00	91.33	0.65	11280.40	615.57	-135.09	2.71	617.69	457936.97	774243.28	
11733.00	91.54	0.57	11278.82	678.55	-134.42	0.36	680.64	457999.95	774243.95	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Thistle Unit 44H
Well: Thistle Unit 44H
Wellpath: 1

Date: 7/7/2013 Time: 09:14:25 Page: 2
Co-ordinate(NE) Reference: Well: Thistle Unit 44H, Grid North
Vertical (TVD) Reference: SITE 3686.0
Section (VS) Reference: Well (0.00N,0.00E,359.07Azi)
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
11828.00	91.75	0.72	11276.10	773.51	-133.35	0.27	775.57	458094.91	774245.02	
11923.00	92.31	0.90	11272.73	868.44	-132.01	0.62	870.46	458189.84	774246.36	
12017.00	91.89	1.31	11269.29	962.36	-130.19	0.62	964.34	458283.76	774248.18	
12112.00	92.24	1.48	11265.86	1057.27	-127.88	0.41	1059.20	458378.67	774250.49	
12206.00	89.86	1.41	11264.14	1151.21	-125.51	2.53	1153.10	458472.61	774252.86	
12301.00	90.00	1.21	11264.26	1246.19	-123.34	0.26	1248.03	458567.59	774255.03	
12395.00	90.49	1.63	11263.86	1340.16	-121.01	0.69	1341.95	458661.56	774257.36	
12490.00	90.84	1.78	11262.75	1435.11	-118.19	0.40	1436.84	458756.51	774260.18	
12584.00	91.47	1.83	11260.86	1529.04	-115.23	0.67	1530.71	458850.44	774263.14	
12679.00	92.03	1.86	11257.96	1623.95	-112.17	0.59	1625.56	458945.35	774266.20	
12774.00	89.51	1.28	11256.68	1718.90	-109.57	2.72	1720.45	459040.30	774268.80	
12869.00	89.65	1.60	11257.38	1813.86	-107.18	0.37	1815.37	459135.26	774271.19	
12963.00	88.39	1.97	11258.98	1907.80	-104.25	1.40	1909.24	459229.20	774274.12	
13080.00	89.44	1.81	11261.20	2024.72	-100.39	0.91	2026.08	459346.12	774277.98	
13175.00	90.84	1.03	11260.97	2119.68	-98.04	1.69	2121.00	459441.08	774280.33	
13270.00	91.82	0.87	11258.76	2214.64	-96.46	1.05	2215.92	459536.04	774281.91	
13364.00	91.75	0.64	11255.83	2308.59	-95.23	0.26	2309.83	459629.99	774283.14	
13459.00	91.47	1.01	11253.17	2403.54	-93.86	0.49	2404.75	459724.94	774284.51	
13554.00	91.68	1.70	11250.55	2498.48	-91.61	0.76	2499.64	459819.88	774286.76	
13648.00	91.40	0.54	11248.03	2592.43	-89.78	1.27	2593.54	459913.83	774288.59	
13743.00	91.61	1.02	11245.53	2687.38	-88.48	0.55	2688.47	460008.78	774289.89	
13838.00	92.17	1.08	11242.40	2782.32	-86.74	0.59	2783.36	460103.72	774291.63	
13932.00	93.08	1.59	11238.09	2876.19	-84.56	1.11	2877.18	460197.59	774293.81	
14027.00	91.33	0.98	11234.44	2971.09	-82.43	1.95	2972.04	460292.49	774295.94	
14122.00	92.17	1.36	11231.54	3066.03	-80.49	0.97	3066.93	460387.43	774297.88	
14216.00	91.05	359.99	11228.90	3159.98	-79.38	1.88	3160.85	460481.38	774298.99	
14311.00	91.12	0.21	11227.10	3254.96	-79.22	0.24	3255.82	460576.36	774299.15	
14406.00	91.12	359.35	11225.24	3349.94	-79.58	0.91	3350.79	460671.34	774298.79	
14501.00	91.61	359.23	11222.98	3444.91	-80.76	0.53	3445.77	460766.31	774297.61	
14596.00	92.10	359.15	11219.90	3539.85	-82.10	0.52	3540.72	460861.25	774296.27	
14691.00	92.52	358.85	11216.07	3634.76	-83.76	0.54	3635.64	460956.16	774294.61	
14785.00	93.15	358.70	11211.43	3728.62	-85.76	0.69	3729.52	461050.02	774292.61	
14880.00	91.54	359.37	11207.54	3823.52	-87.36	1.84	3824.44	461144.92	774291.01	
14975.00	92.66	359.36	11204.06	3918.45	-88.42	1.18	3919.37	461239.85	774289.95	
15070.00	92.66	1.34	11199.65	4013.34	-87.84	2.08	4014.24	461334.74	774290.53	
15164.00	90.07	359.88	11197.41	4107.30	-86.84	3.16	4108.17	461428.70	774291.53	
15259.00	89.58	0.06	11197.70	4202.30	-86.89	0.55	4203.16	461523.70	774291.48	
15354.00	89.58	359.79	11198.40	4297.30	-87.01	0.28	4298.14	461618.70	774291.36	
15448.00	89.65	0.11	11199.03	4391.29	-87.09	0.35	4392.13	461712.69	774291.28	
15543.00	90.07	359.86	11199.26	4486.29	-87.12	0.51	4487.12	461807.69	774291.25	
15601.00	90.28	359.61	11199.08	4544.29	-87.39	0.56	4545.11	461865.69	774290.98	Last Wft Svy
15666.00	90.28	359.61	11198.76	4609.29	-87.83	0.00	4610.11	461930.69	774290.54	Proj. To Bit

Annotation

MD ft	TVD ft	
10718.00	10710.97	Tie On VES
10756.00	10748.92	First Wft Svy
15601.00	11199.08	Last Wft Svy
15666.00	11198.76	Proj. To Bit