



Weatherford®

Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: July 6, 2015

HOBBS OCD

SEP 23 2015

Attention: Ryan Dzurisin

RECEIVED

Re: Devon Energy
Well: Chiles 28 State 1 Y
Lea 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 Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ryan Broadfoot MWD Supervisor	1Y	1998 MD 15267 MD	6/7/2015 6/30/2015	Measurement While Drilling

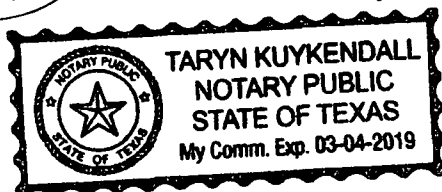
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Ops Coordinator

On this, the 9th day of July, 2015, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, 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



SEP 28 2015

5D Survey Report**Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Chiles 28 State 1Y***Well Name:** *Chiles 28 State 1Y***Survey:** *Wft Mwd Svy*

01 July 2015

**Weatherford®**

Chiles 28 State 1Y

Field Name Lea Co. NM Nad 88 NMEZ	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
Site Name Chiles 28 State 1Y	Units : US ft	North Reference : Grid	Convergence Angle : 0.46	
	Position	Northing : 530722.90 US ft	Latitude : 32° 27' 22.13"	
		Easting : 803812.30 US ft	Longitude : -103° 28' 56.57"	
	Elevation above Mean Sea Level: 3712.00 US ft			
Comment :				
Slot Name Chiles 28 State 1Y	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 530722.90 US ft	Latitude : 32° 27' 22.13"	
	+E / -W : 0.00 US ft	Easting : 803812.30 US ft	Longitude : -103° 28' 56.57"	
	Elevation above Mean Sea Level : 3712.00 US ft			
Comment :				
Well Name Chiles 28 State 1Y	Type : Main well		UWI :	
	Rig Height Well TVD Reference : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3737.00 US ft			
	Closure Distance : 4598.64 US ft		Closure Azimuth : 177.928°	
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 179.10°				

Survey Name : Wft Mwd Svy

Date : 21/Jun/2015	Survey Tool : MWD	Comment :	Company :
Magnetic Model			
Model Name: BGGM	Date: 15/Jun/2015	Field Strength: 48395.7 nT	Declination: 7.22° Dip: 60.38°
Tie Point			
MD: 9888	Inclination: 1.41	Azimuth: 251.27	TVD: 9887.21 North Offset: 26.9135 East Offset: 5.2394

Well path created using minimum curvature.

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
9888.00	1.41	251.27	9887.21	26.91	5.24	-26.83	0.00	530749.81	803817.54	Tie On Extreme	
10021.00	1.71	253.49	10020.16	25.82	1.79	-25.79	0.23	530748.72	803814.09	First Wft Svy	
10115.00	1.27	257.66	10114.13	25.20	-0.58	-25.21	0.48	530748.10	803811.72		
10210.00	1.17	254.07	10209.11	24.71	-2.54	-24.75	0.13	530747.61	803809.76		
10273.00	1.22	247.84	10272.09	24.28	-3.78	-24.34	0.22	530747.18	803808.52		
10304.00	0.92	202.73	10303.09	23.93	-4.18	-23.99	2.79	530746.83	803808.12		
10336.00	2.70	183.79	10335.07	22.94	-4.33	-23.00	5.79	530745.84	803807.97		
10367.00	4.24	186.45	10366.01	21.07	-4.50	-21.14	4.99	530743.97	803807.80		
10399.00	6.46	170.02	10397.87	18.12	-4.32	-18.19	8.36	530741.02	803807.98		
10430.00	8.92	163.15	10428.59	14.10	-3.33	-14.15	8.46	530737.00	803808.97		
10462.00	11.29	163.45	10460.09	8.73	-1.71	-8.75	7.41	530731.63	803810.59		
10493.00	13.79	163.33	10490.35	2.28	0.21	-2.27	8.06	530725.18	803812.51		
10525.00	15.59	161.59	10521.31	-5.46	2.66	5.50	5.79	530717.44	803814.96		

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
10553.00	17.43	160.73	10548.15	-12.99	5.24	13.07	6.63	530709.91	803817.54	
10554.00	17.51	160.70	10549.10	-13.27	5.33	13.35	7.62	530709.63	803817.63	Cross Prod. Box
10588.00	20.08	159.77	10581.29	-23.57	9.04	23.71	7.62	530699.33	803821.34	
10620.00	23.98	160.81	10610.95	-34.87	13.08	35.08	12.25	530688.03	803825.38	
10651.00	27.47	162.46	10638.87	-47.65	17.31	47.91	11.49	530675.25	803829.61	
10683.00	30.58	164.31	10666.85	-62.52	21.74	62.86	10.11	530660.38	803834.04	
10714.00	32.49	165.42	10693.27	-78.17	25.96	78.57	6.44	530644.73	803838.26	
10746.00	34.30	165.47	10719.99	-95.22	30.39	95.69	5.66	530627.68	803842.69	
10777.00	37.26	164.71	10745.13	-112.73	35.06	113.27	9.66	530610.17	803847.36	
10808.00	40.08	164.03	10769.33	-131.38	40.28	132.00	9.20	530591.52	803852.58	
10840.00	41.87	163.67	10793.49	-151.54	46.12	152.24	5.64	530571.36	803858.42	
10871.00	43.79	165.02	10816.23	-171.83	51.80	172.62	6.86	530551.07	803864.10	
10903.00	48.06	164.43	10838.48	-194.00	57.86	194.89	13.41	530528.90	803870.16	
10935.00	52.95	165.80	10858.83	-217.86	64.19	218.84	15.63	530505.04	803876.49	
10966.00	57.77	166.74	10876.44	-242.63	70.23	243.70	15.75	530480.27	803882.53	
10997.00	63.70	167.74	10891.59	-268.99	76.20	270.16	19.33	530453.91	803888.50	
11029.00	68.09	169.85	10904.66	-297.64	81.86	298.89	14.98	530425.26	803894.16	
11061.00	71.03	172.77	10915.83	-327.27	86.39	328.59	12.55	530395.63	803898.69	
11092.00	73.87	176.01	10925.18	-356.68	89.27	358.04	13.54	530366.22	803901.57	
11124.00	77.78	177.85	10933.02	-387.66	90.92	389.04	13.43	530335.24	803903.22	
11153.00	82.84	179.17	10937.90	-416.22	91.66	417.61	18.02	530306.68	803903.96	
11184.00	85.45	179.27	10941.06	-447.06	92.08	448.45	8.43	530275.84	803904.38	
11216.00	87.06	178.93	10943.15	-478.98	92.59	480.38	5.14	530243.92	803904.89	
11279.00	87.76	179.13	10946.00	-541.91	93.65	543.31	1.16	530180.99	803905.95	
11373.00	90.07	179.47	10947.78	-635.88	94.80	637.29	2.48	530087.02	803907.10	
11468.00	90.56	180.23	10947.25	-730.88	95.05	732.28	0.95	529992.02	803907.35	
11562.00	90.63	180.83	10946.28	-824.87	94.18	826.24	0.64	529898.03	803906.48	
11657.00	90.35	181.21	10945.47	-919.85	92.49	921.19	0.50	529803.05	803904.79	
11751.00	90.00	180.45	10945.18	-1013.84	91.13	1015.14	0.89	529709.06	803903.43	
11846.00	89.37	180.91	10945.70	-1108.83	90.00	1110.10	0.82	529614.07	803902.30	
11941.00	89.23	181.17	10946.86	-1203.80	88.27	1205.04	0.31	529519.10	803900.57	
12035.00	88.25	180.82	10948.93	-1297.77	86.64	1298.97	1.11	529425.13	803898.94	
12129.00	89.02	180.96	10951.17	-1391.73	85.18	1392.89	0.83	529331.17	803897.48	
12224.00	91.54	179.16	10950.70	-1486.72	85.08	1487.87	3.26	529236.18	803897.38	
12318.00	91.96	180.28	10947.83	-1580.67	85.54	1581.82	1.27	529142.23	803897.84	
12412.00	92.09	180.95	10944.51	-1674.60	84.53	1675.73	0.73	529048.30	803896.83	
12507.00	91.12	180.07	10941.85	-1769.56	83.69	1770.66	1.38	528953.34	803895.99	
12601.00	90.42	179.40	10940.59	-1863.55	84.12	1864.64	1.03	528859.35	803896.42	
12695.00	90.63	177.80	10939.73	-1957.52	86.42	1958.63	1.72	528765.38	803898.72	
12790.00	90.42	177.80	10938.86	-2052.44	90.07	2053.60	0.22	528670.46	803902.37	
12884.00	90.07	177.98	10938.45	-2146.38	93.53	2147.58	0.42	528576.52	803905.83	
12979.00	90.07	177.84	10938.34	-2241.31	96.99	2242.56	0.15	528481.59	803909.29	
13073.00	88.88	178.19	10939.20	-2335.25	100.25	2336.54	1.32	528387.65	803912.55	
13168.00	87.48	179.08	10942.22	-2430.17	102.51	2431.48	1.75	528292.73	803914.81	
13263.00	87.06	178.48	10946.74	-2525.04	104.53	2526.37	0.77	528197.86	803916.83	
13357.00	85.51	178.52	10952.83	-2618.81	106.99	2620.17	1.65	528104.09	803919.29	
13451.00	86.42	178.12	10959.45	-2712.54	109.74	2713.92	1.06	528010.36	803922.04	
13546.00	84.54	179.19	10966.93	-2807.21	111.96	2808.62	2.28	527915.69	803924.26	
13640.00	83.96	179.29	10976.35	-2900.73	113.20	2902.15	0.63	527822.17	803925.50	
13735.00	85.45	177.79	10985.12	-2995.29	115.61	2996.73	2.22	527727.61	803927.91	
13829.00	87.83	177.35	10990.63	-3089.03	119.59	3090.53	2.57	527633.87	803931.89	
13924.00	88.46	177.15	10993.70	-3183.87	124.15	3185.43	0.70	527539.03	803936.45	
14018.00	88.18	177.61	10996.46	-3277.73	128.44	3279.35	0.57	527445.17	803940.74	
14112.00	87.90	177.84	10999.67	-3371.60	132.17	3373.26	0.39	527351.30	803944.47	
14207.00	87.20	178.03	11003.73	-3466.46	135.59	3468.16	0.76	527256.44	803947.89	
14301.00	88.18	178.06	11007.52	-3560.32	138.79	3562.06	1.04	527162.58	803951.09	
14396.00	87.97	178.52	11010.71	-3655.23	141.63	3657.00	0.53	527067.67	803953.93	
14490.00	88.32	179.01	11013.76	-3749.16	143.65	3750.95	0.64	526973.74	803955.95	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
14584.00	87.48	178.64	11017.20	-3843.07	145.58	3844.88	0.98	526879.83	803957.88	
14679.00	88.04	177.80	11020.91	-3937.95	148.53	3939.80	1.06	526784.95	803960.83	
14773.00	87.49	177.33	11024.58	-4031.79	152.52	4033.69	0.77	526691.11	803964.82	
14868.00	86.85	177.31	11029.27	-4126.57	156.95	4128.53	0.67	526596.33	803969.25	
14962.00	87.62	178.34	11033.80	-4220.40	160.52	4222.40	1.37	526502.50	803972.82	
15057.00	87.13	179.40	11038.16	-4315.28	162.39	4317.29	1.23	526407.62	803974.69	
15151.00	86.70	179.43	11043.21	-4409.13	163.35	4411.16	0.46	526313.77	803975.65	
15245.00	85.94	179.01	11049.25	-4502.93	164.62	4504.96	0.92	526219.97	803976.92	
15267.00	85.44	178.97	11050.90	-4524.87	165.01	4526.90	2.28	526198.03	803977.31	Last Wft Svy 1Y
15338.00	85.44	178.97	11056.55	-4595.63	166.28	4597.67	0.00	526127.27	803978.58	Proj. To Bit



Chiles 28 State 1Y Lea Co, NM



Weatherford

Plan Data for Chiles 28 State 1Y

Plan Point Information:

Dogleg Severity Unit: °/100.00ft									
Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
12884.00	90.07	177.98	10938.69	-2146.38	93.90	528576.52	803906.20	2147.12	0.42
13276.44	86.25	178.88	10951.29	-2538.40	104.65	528184.50	803916.95	2539.22	1.00
13556.44	86.25	178.88	10969.60	-2817.75	110.11	527905.15	803922.41	2818.60	0.00
13656.22	87.25	178.88	10975.26	-2917.35	112.05	527805.55	803924.35	2918.21	1.00
15337.68	87.25	178.88	11056.00	-4596.54	144.91	526126.36	803957.21	4597.63	0.00

Plan Data for Chiles 28 State 1Y

Target Set Information:

Name: Chiles 28 State 1Y

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
PBHL 1H	11056.00	-4596.54	144.91	526126.36	803957.21	Cuboid	

Plan Data for Chiles 28 State 1Y

Slot: Chiles 28 State 1Y

Position:

Offset is from Site centre

+N/-S: 0.00USft Northing: 530722.90USft Latitude: 32°27'22.1"
+E/-W: 0.00USft Easting: 803812.30USft Longitude: -103°28'56.6"
Elevation Above VRD: 3712.00USft

Plan Data for Chiles 28 State 1Y

Well: Chiles 28 State 1Y

Type: Main-Well

File Number:

Plan Folder: P6

Plan: P6:V1

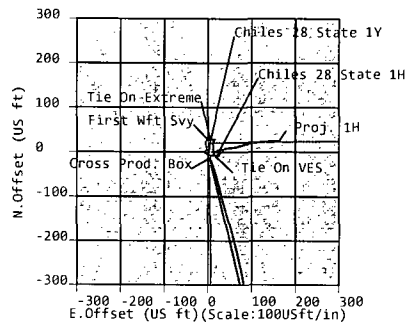
Vertical Section: Position offset of origin from Slot centre:

+N/-S: 0.00USft Azimuth: 179.50°

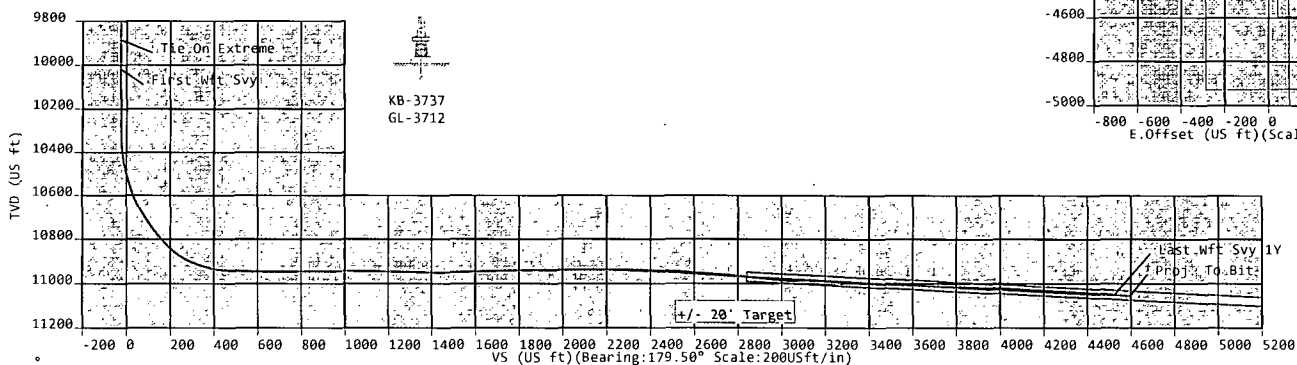
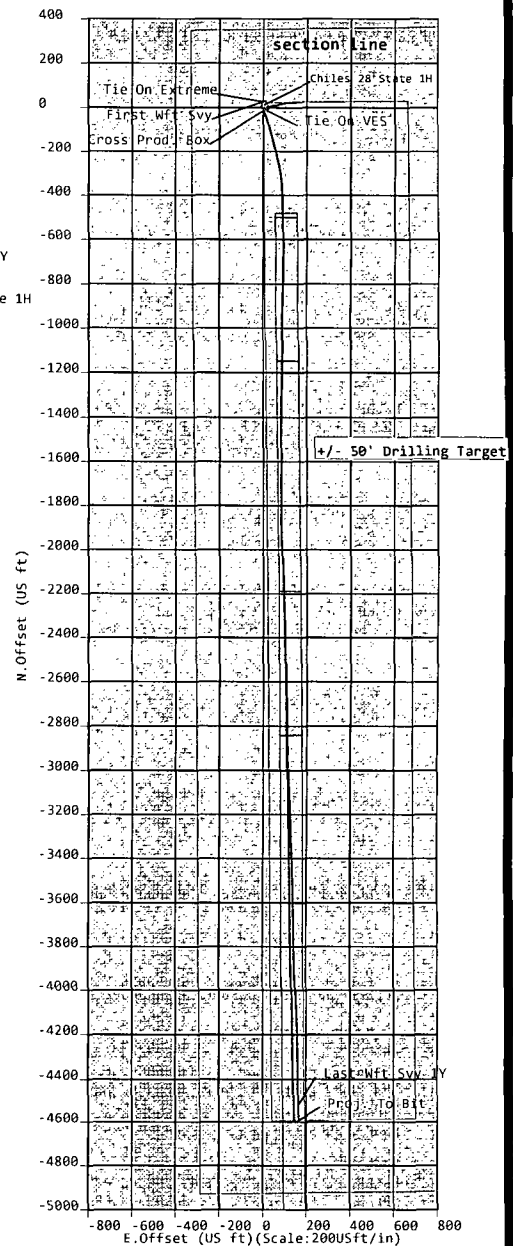
+E/-W: 0.00USft

Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:
BGM 48395(nT) 7.22° 60.38° 2015-06-15



Chiles 28 State 1Y
Chiles 28 State 1H
Chiles 28 State 1Y



Sign Off: Russell Joyner