



Weatherford

Evaluation, Drilling & Intervention
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30-015-42357

Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: July 23, 2015

Attention: Art Alarcon

Re: Devon Energy
Well: Hadar 10 Fed Com 3H
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:

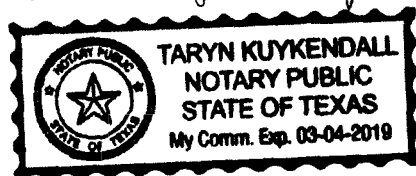
Name & Title <u>Of Surveyor</u>	Well <u>Number</u>	Surveyed <u>Depths</u>	Dates <u>Performed</u>	Type of <u>Survey</u>
Ben Hernandez	3H	8549 MD	7/8/2015	Measurement
MWD Supervisor		13720 MD	7/16/2015	While Drilling

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 20th day of August, 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

WIM OIL CONSERVATION
ARTESIA DISTRICT
DEC 21 2016
RECEIVED

**5D Survey Report**

Devon Energy**Field Name:** *Eddy Co, NM (Nad 83 NME)***Site Name:** *Hadar 10 Fed Com 3H***Well Name:** *Hadar 10 Fed Com 3H Lat***Survey:** *Wft MWD Svy*

16 July 2015





Hadar 10 Fed Com 3H Lat

Field Name: Eddy Co, NM (Nad 83 NME)	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: Hadar 10 Fed Com 3H	Units: US ft	North Reference: Grid	Convergence Angle: 0.25	
	Position:	Northings: 609114.35US ft	Latitude: 32° 40' 25.07"	
		Easting: 685210.40US ft	Longitude: -103° 51' 56.74"	
		Elevation above MSL: 3570.00 US ft		
Comment:				
Slot: Hadar 10 Fed Com 3H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northings: 609114.35US ft	Latitude: 32°40'25.07"	
	+E/-W: 0.00US ft	Easting: 685210.40US ft	Longitude: -103°51'56.74"	
	Elevation above MSL: 3570.00US ft			
Comment:				
Well: Hadar 10 Fed Com 3H Lat	Type: Sidetrack		UWI:	
	Parent: Hadar 10 Fed Com 3H Pilot		Tie Point Method: MD	
	File Number:	Comment:		
	Closure Distance: 4983.71US ft		Closure Azimuth: 88.37°	
Vertical Section: Position of Origin (Relative to Slot centre)				
+N/-S: 0.00US ft		+E/-W: 0.00US ft		Az: 89.64°

Drill floor: Survey Name: Wft MWD Svy			
Rig Height (Well TVD Reference): 25.00us ft	Elevation above MSL: 3595.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Wft MWD Svy			
Date: 10/Jul/2015	Survey Tool: MWD	Comment:	Company: Wft
Magnetic Model:			
Model Name: BGGM	Date: 15/Jul/2015	Field Strength: 48476.2nT	Declination: 7.43° Dip: 60.50°
Tie Point:			
MD: 8456.58 US ft	Inclination: 2.11°	Azimuth: 290.16°	TVD: 8455.58 US ft
		North Offset: 21.98 US ft	East Offset: 11.45 US ft

Wellpath 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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
8456.58	2.11	290.16	8455.58	21.98	11.45	11.59	0.00	609136.33	685221.85	Tie On VES
8549.00	8.04	60.17	8547.73	25.79	15.47	15.63	10.32	609140.14	685225.87	First Wft Svy

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 (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
8580.00	9.55	44.01	8578.37	28.72	19.14	19.32	9.29	609143.07	685229.54	
8612.00	12.73	41.32	8609.76	33.28	23.31	23.52	10.07	609147.63	685233.71	
8644.00	16.33	40.78	8640.73	39.33	28.58	28.82	11.26	609153.68	685238.98	
8675.00	19.61	43.49	8670.22	46.41	35.01	35.30	10.92	609160.76	685245.41	
8707.00	22.51	48.39	8700.08	54.38	43.29	43.63	10.59	609168.73	685253.69	
8737.00	25.98	52.50	8727.43	62.19	52.80	53.19	12.86	609176.54	685263.20	
8769.00	29.24	56.98	8755.79	70.72	64.91	65.36	12.07	609185.07	685275.31	
8801.00	32.35	62.08	8783.28	78.99	79.04	79.53	12.68	609193.34	685289.44	
8833.00	34.93	67.99	8809.92	86.44	95.10	95.64	13.02	609200.79	685305.50	
8864.00	37.42	72.39	8834.95	92.61	112.31	112.89	11.60	609206.96	685322.71	
8896.00	39.99	76.83	8859.92	97.90	131.60	132.21	11.82	609212.25	685342.00	
8927.00	43.80	78.92	8883.00	102.23	151.84	152.48	13.09	609216.58	685362.24	
8959.00	47.66	81.22	8905.33	106.17	174.40	175.07	13.11	609220.52	685384.80	
8990.00	51.16	83.59	8925.50	109.27	197.73	198.41	12.69	609223.62	685408.13	
9022.00	55.23	85.07	8944.67	111.79	223.22	223.92	13.25	609226.14	685433.62	
9054.00	59.21	86.55	8961.99	113.75	250.05	250.76	13.03	609228.10	685460.45	
9085.00	62.99	87.50	8976.97	115.15	277.15	277.86	12.49	609229.50	685487.55	
9117.00	66.87	88.34	8990.52	116.20	306.11	306.83	12.36	609230.55	685516.51	
9136.50	69.50	88.43	8997.77	116.71	324.20	324.93	13.47	609231.06	685534.60	Cross Prod. Box
9149.00	71.18	88.48	9001.98	117.03	335.97	336.70	13.47	609231.38	685546.37	
9181.00	74.99	88.54	9011.29	117.82	366.57	367.30	11.91	609232.17	685576.97	
9212.00	78.60	88.84	9018.37	118.51	396.73	397.47	11.68	609232.86	685607.13	
9244.00	81.58	89.35	9023.87	119.01	428.25	428.99	9.44	609233.36	685638.65	
9284.00	85.38	90.05	9028.41	119.22	467.98	468.72	9.66	609233.57	685678.38	
9316.00	86.64	90.48	9030.64	119.07	499.90	500.64	4.16	609233.42	685710.30	
9378.00	86.78	90.57	9034.20	118.50	561.80	562.53	0.27	609232.85	685772.20	
9472.00	86.36	90.67	9039.82	117.49	655.62	656.35	0.46	609231.84	685866.02	
9567.00	86.08	90.47	9046.09	116.54	750.41	751.13	0.36	609230.89	685960.81	
9662.00	87.13	89.28	9051.71	116.75	845.24	845.96	1.67	609231.10	686055.64	
9758.00	86.78	88.88	9056.81	118.29	941.10	941.82	0.55	609232.64	686151.50	
9852.00	87.20	89.33	9061.75	119.76	1034.95	1035.69	0.65	609234.11	686245.35	
9947.00	87.76	88.98	9065.92	121.16	1129.85	1130.59	0.69	609235.51	686340.25	
10041.00	88.67	86.96	9068.85	124.48	1223.74	1224.50	2.36	609238.83	686434.14	
10136.00	88.67	89.19	9071.06	127.67	1318.66	1319.43	2.35	609242.02	686529.06	
10231.00	88.39	89.70	9073.49	128.59	1413.62	1414.40	0.61	609242.94	686624.02	
10327.00	88.04	88.81	9076.48	129.84	1509.56	1510.35	1.00	609244.19	686719.96	
10422.00	89.65	89.15	9078.40	131.53	1604.53	1605.32	1.73	609245.88	686814.93	
10517.00	89.93	88.47	9078.75	133.51	1699.50	1700.31	0.77	609247.86	686909.90	
10611.00	90.56	88.34	9078.35	136.12	1793.47	1794.29	0.68	609250.47	687003.87	
10705.00	91.19	89.26	9076.91	138.09	1887.43	1888.26	1.19	609252.44	687097.83	
10799.00	90.63	89.56	9075.42	139.06	1981.42	1982.25	0.68	609253.41	687191.82	
10895.00	90.21	89.84	9074.71	139.56	2077.41	2078.25	0.53	609253.91	687287.81	
10990.00	90.21	89.67	9074.37	139.97	2172.41	2173.25	0.18	609254.32	687382.81	
11085.00	90.49	90.16	9073.79	140.11	2267.41	2268.24	0.59	609254.46	687477.81	
11180.00	88.81	90.31	9074.37	139.72	2362.40	2363.23	1.78	609254.07	687572.80	
11275.00	88.88	90.70	9076.28	138.88	2457.38	2458.20	0.42	609253.23	687667.78	
11370.00	88.88	91.21	9078.14	137.30	2552.35	2553.16	0.54	609251.65	687762.75	
11465.00	89.23	91.75	9079.70	134.84	2647.30	2648.10	0.68	609249.19	687857.70	
11560.00	88.95	90.39	9081.21	133.07	2742.27	2743.05	1.46	609247.42	687952.67	
11655.00	88.39	91.91	9083.42	131.17	2837.22	2837.99	1.70	609245.52	688047.62	
11750.00	89.44	91.03	9085.22	128.73	2932.17	2932.92	1.44	609243.08	688142.57	
11845.00	89.09	91.15	9086.44	126.92	3027.15	3027.88	0.39	609241.27	688237.55	
11940.00	89.30	90.29	9087.77	125.73	3122.13	3122.86	0.93	609240.08	688332.53	
12035.00	88.95	90.23	9089.22	125.30	3217.12	3217.84	0.37	609239.65	688427.52	
12130.00	89.86	89.45	9090.21	125.56	3312.11	3312.83	1.26	609239.91	688522.51	
12226.00	89.79	89.42	9090.50	126.51	3408.10	3408.83	0.08	609240.86	688618.50	
12320.00	90.07	89.42	9090.62	127.46	3502.10	3502.83	0.30	609241.81	688712.50	
12416.00	90.00	89.39	9090.56	128.46	3598.09	3598.83	0.08	609242.81	688808.49	

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
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12510.00	90.14	89.10	9090.44	129.70	3692.09	3692.83	0.34	609244.05	688902.49	
12605.00	89.79	89.39	9090.50	130.95	3787.08	3787.83	0.48	609245.30	688997.48	
12700.00	89.30	89.78	9091.25	131.64	3882.07	3882.82	0.66	609245.99	689092.47	
12795.00	89.09	90.83	9092.59	131.13	3977.06	3977.81	1.13	609245.48	689187.46	
12890.00	88.67	89.90	9094.45	130.53	4072.04	4072.78	1.07	609244.88	689282.44	
12985.00	88.39	89.71	9096.88	130.85	4167.01	4167.75	0.36	609245.20	689377.41	
13080.00	89.09	89.16	9098.97	131.79	4261.98	4262.72	0.94	609246.14	689472.38	
13174.00	88.60	89.52	9100.87	132.87	4355.95	4356.70	0.65	609247.22	689566.35	
13270.00	89.44	89.35	9102.51	133.81	4451.93	4452.69	0.89	609248.16	689662.33	
13365.00	90.84	88.84	9102.28	135.31	4546.92	4547.68	1.57	609249.66	689757.32	
13460.00	91.61	88.69	9100.25	137.36	4641.87	4642.64	0.83	609251.71	689852.27	
13555.00	91.82	88.96	9097.40	139.31	4736.81	4737.59	0.36	609253.66	689947.21	
13650.00	91.61	89.52	9094.56	140.57	4831.76	4832.55	0.63	609254.92	690042.16	
13720.00	91.61	89.51	9092.59	141.16	4901.73	4902.52	0.01	609255.51	690112.13	Last Wft Svy 3H
13760.08	91.61	89.51	9091.47	141.50	4941.79	4942.58	0.00	609255.85	690152.19	Cross Prod. Box
13800.00	91.61	89.51	9090.35	141.84	4981.69	4982.49	0.00	609256.19	690192.09	Proj.