



Weatherford

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

Date: August 19, 2015

Attention: Art Alarcon

Re: Devon Energy
Well: Hadar 10 Fed Com 4H
Eddy County, New Mexico

15- 42572

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:

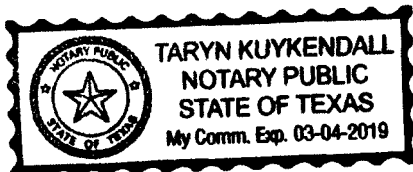
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Benjamin Hernandez	4H	4529 MD	7/29/2015	Measurement
MWD Supervisor		13638 MD	8/14/2015	While Drilling

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 5th day of October, 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

**5D Survey Report**

Devon Energy**Field Name:** *Eddy Co, NM (Nad 83 NME)***Site Name:** *Hadar 10 Fed Com 4H***Well Name:** *Hadar 10 Fed Com 4H***Survey:** *Wft MWD Svy*

14 August 2015





Hadar 10 Fed Com 4H

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 4H	Units: US ft	North Reference: Grid	Convergence Angle: 0.25	
	Position:	Northing: 607504.35US ft	Latitude: 32° 40' 9.13"	
		Easting: 685311.81US ft	Longitude: -103° 51' 55.64"	
	Elevation above MSL: 3561.00 US ft			
Comment:				
Slot: Hadar 10 Fed Com 4H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 607504.35US ft	Latitude: 32°40'9.13"	
	+E/-W: 0.00US ft	Easting: 685311.81US ft	Longitude: -103°51'55.64"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3561.00US ft				
Comment:				
Well: Hadar 10 Fed Com 4H	Type: Main well		UWI:	
	File Number:	Comment:		
	Closure Distance: 4896.33US ft		Closure Azimuth: 91.72°	
	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 (Drill Floor): 25.00us ft	Elevation above MSL: 3586.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Wft MWD Svy			
Date: 03/Aug/2015	Survey Tool: MWD	Comment:	Company:
Magnetic Model:			
Model Name: BGGM	Date: 15/Jul/2015	Field Strength: 48473.5nT	Declination: 7.43° Dip: 60.49°
Tie Point:			
MD: 4331.26 US ft	Inclination: 0.90°	Azimuth: 54.64°	TVD: 4331.03 US ft
			North Offset: 11.24 US ft
			East Offset: 31.30 US ft

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
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
4331.26	0.90	54.64	4331.03	11.24	31.30	31.37	0.00	607515.59	685343.11	Tie On VES
4529.00	0.50	53.08	4528.75	12.66	33.26	33.34	0.20	607517.01	685345.07	First Wft Svy

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
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
4560.00	0.53	58.11	4559.75	12.81	33.49	33.57	0.17	607517.16	685345.30	
4656.00	0.45	48.62	4655.75	13.30	34.15	34.23	0.12	607517.65	685345.96	
4751.00	0.41	41.02	4750.74	13.80	34.65	34.74	0.07	607518.15	685346.46	
4846.00	0.40	38.49	4845.74	14.32	35.08	35.17	0.02	607518.67	685346.89	
4941.00	0.51	37.55	4940.74	14.91	35.54	35.64	0.12	607519.26	685347.35	
5036.00	0.51	28.59	5035.73	15.62	36.00	36.10	0.08	607519.97	685347.81	
5132.00	0.78	351.88	5131.73	16.64	36.11	36.22	0.50	607520.99	685347.92	
5227.00	0.92	334.62	5226.72	17.97	35.70	35.81	0.31	607522.32	685347.51	
5322.00	1.07	328.15	5321.70	19.41	34.90	35.02	0.20	607523.76	685346.71	
5418.00	1.15	287.60	5417.69	20.46	33.51	33.64	0.81	607524.81	685345.32	
5513.00	1.81	234.96	5512.66	19.89	31.37	31.50	1.52	607524.24	685343.18	
5608.00	3.12	208.10	5607.57	16.75	28.93	29.03	1.80	607521.10	685340.74	
5704.00	4.49	207.26	5703.36	11.10	25.98	26.04	1.43	607515.45	685337.79	
5799.00	5.17	200.07	5798.02	3.78	22.80	22.83	0.96	607508.13	685334.61	
5894.00	4.71	186.43	5892.67	-4.12	20.90	20.87	1.32	607500.23	685332.71	
5990.00	4.63	189.50	5988.35	-11.86	19.82	19.74	0.27	607492.49	685331.63	
6085.00	4.47	189.00	6083.05	-19.29	18.60	18.48	0.17	607485.06	685330.41	
6180.00	4.43	187.50	6177.77	-26.59	17.55	17.38	0.13	607477.76	685329.36	
6276.00	4.24	190.30	6273.49	-33.76	16.43	16.22	0.30	607470.59	685328.24	
6371.00	4.28	188.11	6368.23	-40.72	15.30	15.04	0.18	607463.63	685327.11	
6466.00	4.70	188.45	6462.94	-48.08	14.23	13.93	0.44	607456.27	685326.04	
6561.00	5.56	181.44	6557.56	-56.53	13.54	13.18	1.12	607447.82	685325.35	
6656.00	6.59	186.51	6652.02	-66.55	12.81	12.39	1.22	607437.80	685324.62	
6752.00	6.42	186.48	6747.41	-77.35	11.58	11.09	0.18	607427.00	685323.39	
6847.00	6.22	188.92	6841.83	-87.72	10.18	9.63	0.35	607416.63	685321.99	
6943.00	5.87	186.75	6937.29	-97.73	8.80	8.18	0.44	607406.62	685320.61	
7038.00	5.68	183.42	7031.81	-107.25	7.94	7.27	0.41	607397.10	685319.75	
7133.00	4.94	184.12	7126.40	-116.02	7.37	6.64	0.78	607388.33	685319.18	
7229.00	4.46	184.03	7222.08	-123.86	6.81	6.03	0.50	607380.49	685318.62	
7325.00	4.21	180.47	7317.81	-131.11	6.52	5.70	0.38	607373.24	685318.33	
7420.00	3.81	177.91	7412.57	-137.75	6.61	5.74	0.46	607366.60	685318.42	
7515.00	4.06	185.04	7507.35	-144.26	6.43	5.52	0.58	607360.09	685318.24	
7611.00	3.56	187.41	7603.14	-150.60	5.74	4.80	0.55	607353.75	685317.55	
7705.00	3.03	198.04	7696.98	-155.85	4.60	3.62	0.86	607348.50	685316.41	
7801.00	2.84	201.76	7792.86	-160.48	2.93	1.92	0.28	607343.87	685314.74	
7896.00	2.85	200.50	7887.74	-164.87	1.23	0.19	0.07	607339.48	685313.04	
7992.00	2.92	209.17	7983.62	-169.24	-0.80	-1.86	0.46	607335.11	685311.01	
8087.00	2.08	207.73	8078.53	-172.88	-2.78	-3.87	0.89	607331.47	685309.03	
8182.00	1.90	200.18	8173.47	-175.89	-4.13	-5.23	0.33	607328.46	685307.68	
8277.00	0.70	192.66	8268.44	-177.93	-4.80	-5.91	1.27	607326.42	685307.01	
8372.00	0.45	242.36	8363.44	-178.67	-5.25	-6.38	0.56	607325.68	685306.56	
8432.00	0.58	273.61	8423.44	-178.76	-5.77	-6.89	0.51	607325.59	685306.04	
8523.00	0.10	111.25	8514.44	-178.76	-6.15	-7.27	0.74	607325.59	685305.66	
8555.00	3.82	88.58	8546.41	-178.75	-5.06	-6.18	11.65	607325.60	685306.75	
8586.00	7.67	89.62	8577.25	-178.71	-1.96	-3.08	12.42	607325.64	685309.85	
8618.00	10.85	86.66	8608.83	-178.52	3.19	2.07	10.05	607325.83	685315.00	
8649.00	14.55	84.19	8639.07	-177.95	9.98	8.86	12.06	607326.40	685321.79	
8681.00	17.86	84.15	8669.97	-177.04	18.86	17.75	10.34	607327.31	685330.67	
8713.00	20.89	83.95	8699.97	-175.94	29.42	28.31	9.47	607328.41	685341.23	
8745.00	24.80	84.74	8729.46	-174.73	41.78	40.68	12.26	607329.62	685353.59	
8777.00	28.52	86.40	8758.05	-173.63	56.09	55.00	11.85	607330.72	685367.90	
8809.00	30.87	89.17	8785.85	-173.03	71.93	70.84	8.50	607331.32	685383.74	
8840.00	34.60	90.22	8811.92	-172.95	88.69	87.60	12.17	607331.40	685400.50	
8872.00	37.86	90.46	8837.73	-173.06	107.60	106.51	10.20	607331.29	685419.41	
8904.00	41.47	91.06	8862.36	-173.34	128.02	126.92	11.34	607331.01	685439.83	
8935.00	45.20	91.27	8884.90	-173.77	149.28	148.19	12.04	607330.58	685461.09	
8967.00	49.33	91.71	8906.61	-174.39	172.77	171.67	12.95	607329.96	685484.58	
8999.00	53.17	90.43	8926.64	-174.85	197.72	196.62	12.40	607329.50	685509.53	
9031.00	56.53	88.66	8945.06	-174.63	223.88	222.78	11.43	607329.72	685535.69	

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
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
9046.00	57.83	87.83	8953.19	-174.24	236.48	235.38	9.86	607330.11	685548.29	Cross Prod Box
9063.00	59.32	86.92	8962.05	-173.58	250.97	249.87	9.86	607330.77	685562.78	
9094.00	62.11	86.95	8977.22	-172.13	277.96	276.88	9.00	607332.22	685589.77	
9126.00	66.02	87.58	8991.21	-170.76	306.70	305.62	12.35	607333.59	685618.51	
9158.00	69.34	88.85	9003.36	-169.84	336.29	335.21	11.01	607334.51	685648.10	
9190.00	71.93	89.50	9013.97	-169.41	366.47	365.40	8.32	607334.94	685678.28	
9221.00	74.93	90.04	9022.81	-169.29	396.18	395.11	9.82	607335.06	685707.99	
9253.00	77.17	90.55	9030.53	-169.45	427.23	426.16	7.17	607334.90	685739.04	
9285.00	80.01	90.66	9036.85	-169.78	458.60	457.52	8.88	607334.57	685770.41	
9313.00	82.08	91.77	9041.21	-170.37	486.25	485.17	8.37	607333.98	685798.06	
9345.00	83.69	91.92	9045.18	-171.39	517.98	516.90	5.05	607332.96	685829.79	
9376.00	85.10	90.96	9048.20	-172.17	548.82	547.73	5.49	607332.18	685860.63	
9471.00	89.58	89.82	9052.61	-172.81	643.69	642.59	4.87	607331.54	685955.50	
9567.00	90.49	88.71	9052.55	-171.58	739.68	738.59	1.50	607332.77	686051.49	
9662.00	90.14	87.66	9052.03	-168.57	834.63	833.56	1.17	607335.78	686146.44	
9757.00	89.65	88.17	9052.21	-165.12	929.57	928.51	0.74	607339.23	686241.38	
9852.00	89.37	89.53	9053.02	-163.21	1024.54	1023.50	1.46	607341.14	686336.35	
9948.00	88.32	89.90	9054.95	-162.73	1120.52	1119.48	1.16	607341.62	686432.33	
10043.00	89.30	89.99	9056.93	-162.64	1215.50	1214.45	1.04	607341.71	686527.31	
10139.00	89.09	89.36	9058.27	-162.10	1311.49	1310.44	0.69	607342.25	686623.30	
10234.00	87.34	89.32	9061.23	-161.00	1406.43	1405.39	1.84	607343.35	686718.24	
10328.00	86.64	89.21	9066.17	-159.80	1500.29	1499.26	0.75	607344.55	686812.10	
10423.00	86.85	89.19	9071.56	-158.47	1595.13	1594.10	0.22	607345.88	686906.94	
10519.00	87.69	89.02	9076.14	-156.98	1691.01	1689.99	0.89	607347.37	687002.82	
10614.00	88.32	88.38	9079.44	-154.82	1785.93	1784.92	0.95	607349.53	687097.74	
10709.00	88.95	88.10	9081.71	-151.91	1880.85	1879.86	0.73	607352.44	687192.66	
10805.00	88.11	89.60	9084.17	-149.98	1976.80	1975.82	1.79	607354.37	687288.61	
10900.00	86.78	90.29	9088.40	-149.89	2071.70	2070.72	1.58	607354.46	687383.51	
10995.00	88.88	90.75	9092.00	-150.75	2166.63	2165.64	2.26	607353.60	687478.44	
11091.00	89.16	90.91	9093.64	-152.14	2262.60	2261.60	0.34	607352.21	687574.41	
11185.00	89.72	90.78	9094.56	-153.53	2356.59	2355.57	0.61	607350.82	687668.40	
11281.00	91.12	90.10	9093.86	-154.26	2452.58	2451.56	1.62	607350.09	687764.39	
11376.00	89.86	90.34	9093.05	-154.63	2547.57	2546.55	1.35	607349.72	687859.38	
11472.00	89.51	90.12	9093.57	-155.01	2643.57	2642.54	0.43	607349.34	687955.38	
11567.00	90.14	90.69	9093.86	-155.69	2738.57	2737.53	0.89	607348.66	688050.38	
11662.00	89.72	89.91	9093.98	-156.18	2833.56	2832.53	0.93	607348.17	688145.37	
11757.00	89.93	90.03	9094.27	-156.13	2928.56	2927.52	0.25	607348.22	688240.37	
11852.00	89.65	90.87	9094.62	-156.88	3023.56	3022.51	0.93	607347.47	688335.37	
11948.00	89.16	90.41	9095.61	-157.95	3119.55	3118.49	0.70	607346.40	688431.36	
12043.00	88.04	90.07	9097.94	-158.35	3214.52	3213.46	1.23	607346.00	688526.33	
12138.00	87.48	89.72	9101.65	-158.18	3309.44	3308.38	0.69	607346.17	688621.25	
12234.00	87.55	89.95	9105.81	-157.90	3405.35	3404.29	0.25	607346.45	688717.16	
12330.00	88.11	90.78	9109.45	-158.51	3501.28	3500.21	1.04	607345.84	688813.09	
12425.00	88.88	90.08	9111.94	-159.22	3596.24	3595.17	1.10	607345.13	688908.05	
12494.00	88.60	90.34	9113.46	-159.48	3665.23	3664.15	0.55	607344.87	688977.04	
12590.00	88.81	90.47	9115.63	-160.15	3761.20	3760.12	0.26	607344.20	689073.01	
12685.00	90.70	89.67	9116.03	-160.27	3856.19	3855.11	2.16	607344.08	689168.00	
12780.00	91.89	90.03	9113.89	-160.02	3951.17	3950.08	1.31	607344.33	689262.98	
12875.00	91.19	90.64	9111.33	-160.58	4046.13	4045.04	0.98	607343.77	689357.94	
12971.00	87.90	90.96	9112.10	-161.92	4142.10	4141.00	3.44	607342.43	689453.91	
13066.00	87.90	91.63	9115.58	-164.06	4237.01	4235.90	0.70	607340.29	689548.82	
13161.00	88.60	92.24	9118.48	-167.27	4331.92	4330.78	0.98	607337.08	689643.73	
13257.00	88.39	90.37	9121.00	-169.45	4427.85	4426.70	1.96	607334.90	689739.66	
13352.00	87.90	88.02	9124.08	-168.12	4522.79	4521.64	2.53	607336.23	689834.60	
13447.00	88.74	86.18	9126.86	-163.32	4617.62	4616.50	2.13	607341.03	689929.43	
13542.00	89.23	86.20	9128.54	-157.00	4712.39	4711.31	0.52	607347.35	690024.20	
13638.00	89.72	86.84	9129.42	-151.18	4808.21	4807.17	0.84	607353.17	690120.02	Last Wft Svy

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
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
13685.30	89.72	87.39	9129.66	-148.80	4855.45	4854.42	1.16	607355.55	690167.26	Cross Prod Box
13724.00	89.72	87.84	9129.84	-147.19	4894.12	4893.10	1.16	607357.16	690205.93	Proj, To Bit