



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
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: February 21, 2017

Attention: JD Harkrider

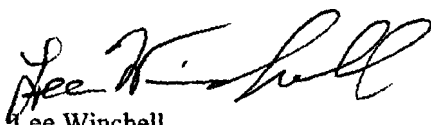
15-40994

Re: Devon Energy
Well: Snapping 10 Federal 5H
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 Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Max Martinez MWD Supervisor	5H	9424' MD 14638' MD	12/8/2013 12/20/2013	Measurement While Drilling

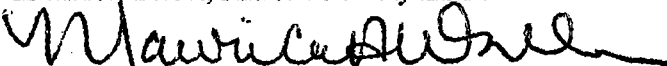
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.



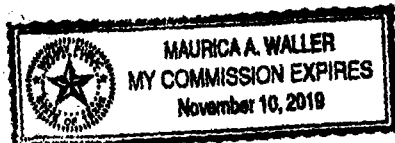
Lee Winchell
Drilling Optimization Specialist

On this, the 22nd day of Feb, 2017, before me a notary public, the undersigned officer, personally appeared Lee Winchell, 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:** *Snapping 10 Federal 5H***Well Name:** *Snapping 10 Federal 5H***Survey:** *Wft Svy*

19 December 2013



devon

Snapping 10 Federal 5H
Eddy Co, NM



Weatherford

Plan Data for Snapping 10 Federal 5H

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)
11275.00	89.86	359.97	10072.78	1394.27	-273.84	384025.95	719333.04	1394.27	1.57
11320.39	88.50	0.04	10073.42	1439.66	-273.84	384071.34	719333.04	1439.66	3.00
11843.99	88.50	0.04	10087.13	1963.08	-273.48	384594.76	719333.40	1963.08	0.00
11894.00	90.00	0.03	10087.79	2013.07	-273.44	384644.75	719333.44	2013.07	3.00
14708.09	90.00	0.03	10087.78	4827.17	-271.75	387458.85	719335.13	4827.17	0.00

Plan Data for Snapping 10 Federal 5H

Target Set Information:

Name: Snapping 10 Federal 5H

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
PBHL 10087.78	4827.17	-271.75	387458.85	719335.13	Cuboid		

Plan Data for Snapping 10 Federal 5H

Slot: Snapping 10 Federal 5H

Position:

Offset is from Site centre

+N/-S: 0.00USft Northing: 382631.68USft Latitude: 32°3'2.3"
+E/-W: 0.00USft Easting: 719606.88USft Longitude: -103°45'28.6"
Elevation Above VRD: 3205.00USft

Survey Data for Snapping 10 Federal 5H

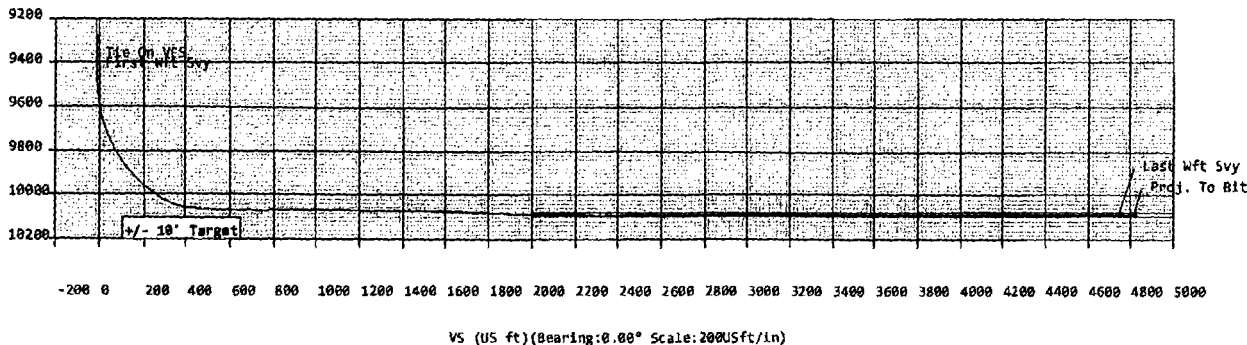
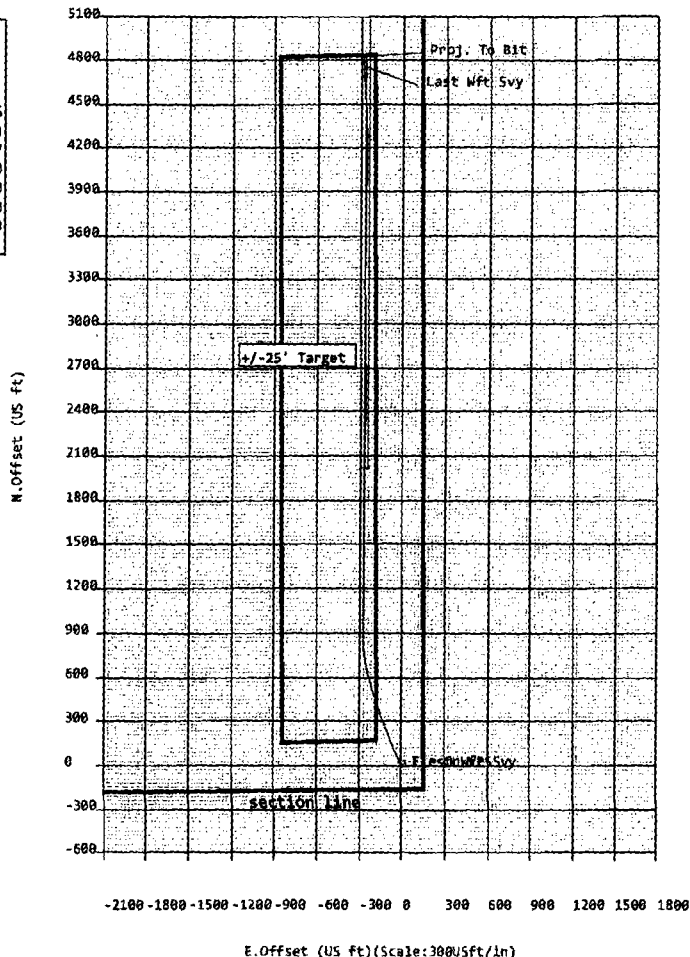
Survey Point Information:

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)
14705.00	89.65	357.20	10093.30	4822.08	-287.78	387454.56	719319.10	-287.78	0.00

Snapping 10 Federal 5H ———
Snapping 10 Federal 5H ———



KB-3230
GL-3205



Sign Off: Russell Joyner


Weatherford

Snapping 10 Federal 5H

Field Name Foley Co, NM (Nad 83 NMI)	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 Snapping 10 Federal 5H	Units : US ft	North Reference : Grid	Convergence Angle : 0.31	
	Elevation above Mean Sea Level: 3205.00 US ft			
	Comment :			
Slot Name Snapping 10 Federal 5H	Slot TVD Reference : Ground Elevation			
	Elevation above Mean Sea Level : 3205.00 US ft			
	Comment :			
Well Name Snapping 10 Federal 5H	Type : Main well		UWI :	
	Rig Height		Comment :	
	Drill Floor : 25.00 US ft			
	Relative to Mean Sea Level: 3230.00 US ft			
	Closure Distance : 4831.44 US ft		Closure Azimuth : 356.585°	
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 0.00°				

Target Set

Name : Snapping 10 Federal 5H
Number of Targets : 1

Comment :

Target Name: PBB	Shape: Cuboid			
	TVD (Drill Floor) : 10087.78 US ft			
	Orientation Azimuth : 0.00°		Inclination : 0.00°	
	Dimensions Length : 5628.00 US ft		Breadth : 50.00 US ft Height : 20.00 US ft	

Well path created using minimum curvature

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										Comment
ID (US F)	Inc (°)	AP (°)	TV (US F)	HOHset (US F)	LOHset (US F)	Borthing (US F)	Fastang (US F)	DLS (% / 100 US F)	VS (US F)	
9378.17	0.58	343.00	9375.67	-7.51	16.83	382624.17	719623.71	0.00	-7.51	Tie On VES
9424.00	0.95	261.95	9421.49	-7.34	16.39	382624.34	719623.27	2.25	-7.34	First Wft Svy
9455.00	1.28	294.27	9452.49	-7.24	15.82	382624.44	719622.70	2.25	-7.24	
9487.00	3.95	310.87	9484.45	-6.37	14.66	382625.31	719621.54	8.59	-6.37	
9519.00	6.30	305.85	9516.32	-4.62	12.40	382627.06	719619.28	7.47	-4.62	
9550.00	8.59	315.53	9547.06	-1.97	9.40	382629.71	719616.28	8.40	-1.97	
9582.00	11.25	319.20	9578.58	2.10	5.68	382633.78	719612.56	8.54	2.10	
9614.00	13.98	320.31	9609.80	7.44	1.17	382639.12	719608.05	8.56	7.44	
9645.00	17.61	321.16	9639.63	13.98	-4.16	382645.66	719602.72	11.73	13.98	
9677.00	20.22	322.28	9669.90	22.12	-10.58	382653.80	719596.30	8.23	22.12	
9708.00	23.09	324.55	9698.71	31.31	-17.38	382662.99	719589.50	9.64	31.31	
9740.00	25.76	326.90	9727.84	42.25	-24.82	382673.93	719582.06	8.88	42.25	
9772.00	28.52	329.13	9756.32	54.64	-32.54	382686.32	719574.34	9.19	54.64	
9803.00	30.81	331.29	9783.25	67.95	-40.15	382699.63	719566.73	8.15	67.95	
9835.00	33.28	332.82	9810.38	82.95	-48.10	382714.63	719558.78	8.12	82.95	
9866.00	36.20	335.39	9835.85	98.85	-55.80	382730.53	719551.08	10.54	98.85	
9898.00	39.42	336.92	9861.13	116.79	-63.72	382748.47	719543.16	10.48	116.79	
9930.00	42.08	338.03	9885.37	136.09	-71.72	382767.77	719535.16	8.62	136.09	
9961.00	45.10	338.46	9907.82	155.94	-79.64	382787.62	719527.24	9.79	155.94	
9992.00	47.53	339.04	9929.23	176.83	-87.76	382808.51	719519.12	7.95	176.83	
10024.00	49.60	339.20	9950.40	199.24	-96.31	382830.92	719510.57	6.48	199.24	
10059.00	52.90	338.44	9972.31	224.69	-106.17	382856.37	719500.71	9.58	224.69	
10091.00	55.90	338.18	9990.93	248.86	-115.79	382880.54	719491.09	9.40	248.86	
10123.00	60.12	338.26	10007.88	274.06	-125.86	382905.74	719481.02	13.19	274.06	
10154.00	65.02	338.37	10022.16	299.62	-136.02	382931.30	719470.86	15.81	299.62	
10186.00	70.17	339.00	10034.35	327.17	-146.77	382958.85	719460.11	16.20	327.17	
10217.00	75.08	339.17	10043.61	354.80	-157.32	382986.48	719449.56	15.85	354.80	
10249.00	79.32	339.54	10050.69	384.00	-168.32	383015.68	719438.56	13.30	384.00	
10266.00	81.09	339.98	10053.59	399.71	-174.12	383031.39	719432.76	10.72	399.71	
10297.00	83.77	340.15	10057.67	428.60	-184.60	383060.28	719422.28	8.66	428.60	
10329.00	84.67	340.68	10060.89	458.59	-195.27	383090.27	719411.61	3.26	458.59	
10360.00	86.64	341.68	10063.24	487.85	-205.24	383119.53	719401.64	7.12	487.85	
10392.00	87.90	343.16	10064.77	518.32	-214.89	383150.00	719391.99	6.07	518.32	
10423.00	88.74	344.42	10065.67	548.07	-223.54	383179.75	719383.34	4.88	548.07	
10455.00	88.81	344.72	10066.36	578.91	-232.05	383210.59	719374.83	0.96	578.91	
10487.00	89.09	345.48	10066.94	609.83	-240.28	383241.51	719366.60	2.53	609.83	
10518.00	89.30	346.49	10067.38	639.91	-247.79	383271.59	719359.09	3.33	639.91	
10550.00	89.37	347.90	10067.75	671.11	-254.88	383302.79	719352.00	4.41	671.11	
10581.00	89.16	349.39	10068.15	701.50	-260.98	383333.18	719345.90	4.85	701.50	
10613.00	89.16	351.15	10068.62	733.03	-266.39	383364.71	719340.49	5.50	733.03	
10644.00	90.21	352.68	10068.79	763.72	-270.75	383395.40	719336.13	5.99	763.72	
10676.00	91.33	354.40	10068.36	795.51	-274.35	383427.19	719332.53	6.41	795.51	
10707.00	91.54	356.51	10067.58	826.41	-276.80	383458.09	719330.08	6.84	826.41	
10802.00	89.93	0.27	10066.36	921.34	-279.47	383553.02	719327.41	4.31	921.34	
10897.00	89.44	0.73	10066.89	1016.33	-278.64	383648.01	719328.24	0.71	1016.33	
10992.00	88.81	1.14	10068.34	1111.31	-277.09	383742.99	719329.79	0.79	1111.31	
11086.00	89.23	0.47	10069.94	1205.29	-275.77	383836.97	719331.11	0.84	1205.29	
11181.00	88.74	0.93	10071.63	1300.26	-274.61	383931.94	719332.27	0.71	1300.26	
11275.00	89.86	359.97	10072.78	1394.25	-273.87	384025.93	719333.01	1.57	1394.25	
11370.00	90.70	359.42	10072.31	1489.25	-274.38	384120.93	719332.50	1.06	1489.25	
11465.00	90.77	359.99	10071.09	1584.24	-274.87	384215.92	719332.01	0.60	1584.24	
11560.00	86.99	0.23	10072.95	1679.20	-274.69	384310.88	719332.19	3.99	1679.20	
11654.00	87.83	0.27	10077.20	1773.10	-274.28	384404.78	719332.60	0.89	1773.10	
11749.00	87.34	0.73	10081.20	1868.02	-273.45	384499.70	719333.43	0.71	1868.02	
11844.00	88.32	0.80	10084.80	1962.94	-272.18	384594.62	719334.70	1.03	1962.94	
11939.00	89.86	0.67	10086.31	2057.92	-270.96	384689.60	719335.92	1.63	2057.92	
12033.00	90.07	0.92	10086.36	2151.91	-269.66	384783.59	719337.22	0.35	2151.91	
12128.00	89.72	1.22	10086.54	2246.89	-267.88	384878.57	719339.00	0.49	2246.89	
12223.00	89.09	1.47	10087.52	2341.86	-265.65	384973.54	719341.23	0.71	2341.86	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										Comment
PD (US ft)	In (°)	Az (°)	TVD (US ft)	R. Offset (US ft)	L. Offset (US ft)	Heighting (US ft)	Fasting (US ft)	D. S. (°/100 US ft)	VS (US ft)	
12317.00	89.37	0.51	10088.79	2435.83	-264.03	385067.51	719342.85	1.06	2435.83	
12411.00	90.84	359.53	10088.61	2529.83	-264.00	385161.51	719342.88	1.88	2529.83	
12506.00	91.05	359.46	10087.05	2624.81	-264.83	385256.49	719342.05	0.23	2624.81	
12601.00	90.56	359.34	10085.71	2719.80	-265.83	385351.48	719341.05	0.53	2719.80	
12696.00	90.42	358.98	10084.90	2814.78	-267.22	385446.46	719339.66	0.41	2814.78	
12790.00	90.49	359.13	10084.15	2908.77	-268.77	385540.45	719338.11	0.18	2908.77	
12885.00	90.98	0.06	10082.94	3003.76	-269.44	385635.44	719337.44	1.11	3003.76	
12980.00	89.65	358.72	10082.41	3098.75	-270.46	385730.43	719336.42	1.99	3098.75	
13075.00	89.30	358.20	10083.28	3193.71	-273.01	385825.39	719333.87	0.66	3193.71	
13170.00	89.37	0.73	10084.39	3288.69	-273.89	385920.37	719332.99	2.66	3288.69	
13264.00	88.88	1.26	10085.82	3382.66	-272.26	386014.34	719334.62	0.77	3382.66	
13359.00	89.65	0.80	10087.04	3477.64	-270.56	386109.32	719336.32	0.94	3477.64	
13454.00	90.00	1.67	10087.33	3572.62	-268.51	386204.30	719338.37	0.99	3572.62	
13548.00	89.16	359.41	10088.02	3666.60	-267.62	386298.28	719339.26	2.56	3666.60	
13643.00	89.58	0.70	10089.06	3761.59	-267.53	386393.27	719339.35	1.43	3761.59	
13738.00	89.44	0.76	10089.88	3856.58	-266.32	386488.26	719340.56	0.16	3856.58	
13833.00	89.09	1.17	10091.10	3951.56	-264.72	386583.24	719342.16	0.57	3951.56	
13927.00	89.02	1.28	10092.65	4045.53	-262.71	386677.21	719344.17	0.14	4045.53	
14022.00	88.95	0.81	10094.33	4140.50	-260.98	386772.18	719345.90	0.50	4140.50	
14117.00	89.65	358.64	10095.49	4235.48	-261.43	386867.16	719345.45	2.40	4235.48	
14212.00	90.42	357.81	10095.43	4330.43	-264.38	386962.11	719342.50	1.19	4330.43	
14306.00	90.77	357.38	10094.46	4424.35	-268.32	387056.03	719338.56	0.59	4424.35	
14401.00	90.56	357.17	10093.35	4519.23	-272.84	387150.91	719334.04	0.31	4519.23	
14496.00	90.14	357.03	10092.77	4614.11	-277.64	387245.79	719329.24	0.47	4614.11	
14590.00	89.93	357.25	10092.71	4707.99	-282.33	387339.67	719324.55	0.32	4707.99	
14638.00	89.65	357.28	10092.89	4755.94	-284.62	387387.62	719322.26	0.59	4755.94	Last Wft Svy
14705.00	89.65	357.28	10093.30	4822.86	-287.80	387454.54	719319.08	0.00	4822.86	Proj. To Bit