



Weatherford[®]

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

Date: February 24, 2014

30-015-41963

Attention: Art Alarcon

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 07 2014

Re: Devon Energy
Well: Harroun Trust 31-30 Fed Com 2H
Eddy County, New Mexico

RECEIVED

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:

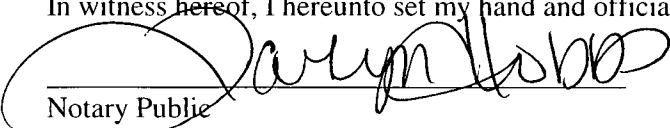
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ben Hernandez MWD Supervisor	2H	2715' MD 13147' MD	2/3/2014 2/22/2014	Measurement While Drilling

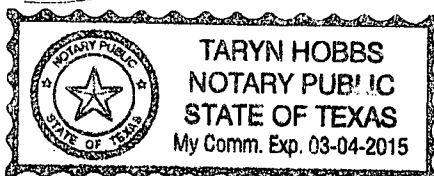
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Daniel Rodriguez
MWD Coordinator

On this, the 12th day of March, 2014, before me a notary public, the undersigned officer, personally appeared Daniel Rodriguez, 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



Harroun Trust 31-30 Fed Com #2H

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 Name Harroun Trust 31-30 Fed Com 2,3H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.16
	Position	Northing : 456706.60 US ft Easting : 635686.20 US ft	Latitude : 32° 15' 18.69" Longitude : -104° 1' 41.24"
	Elevation above Mean Sea Level: 2957.00 US ft		
	Comment :		
Slot Name Harroun Trust 31-30 Fed Com #2H	Position (Offsets relative to Site Centre)		
	+N / -S : 0.00 US ft Northing : 456706.60 US ft Latitude : 32° 15' 18.69" +E / -W : 0.00 US ft Easting : 635686.20 US ft Longitude : -104° 1' 41.24"		
	Slot TVD Reference : Ground Elevation		
	Elevation above Mean Sea Level : 2957.00 US ft		
	Comment :		
Well Name Harroun Trust 31-30 Fed Com #2H	Type : Main well		UWI :
	Rig Height Drill Floor : 25.00 US ft		Comment :
	Relative to Mean Sea Level: 2982.00 US ft		
	Closure Distance : 7331.69 US ft	Closure Azimuth : 355.018°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 358.56°		

Target Set

Name : Harroun Trust 31-30 **Number of Targets :** 2
 Fed Com #2H

Comment :

Target Name: Lp Tgt Shape: Cuboid	Position (Relative to Slot centre) +N / -S : 790.49 US ft Northing : 457497.09 US ft Latitude : 32° 15' 26.53" +E / -W : -475.07 US ft Easting : 635211.13 US ft Longitude : -104° 1' 46.75" TVD (Drill Floor) : 6375.00 US ft
	Orientation Azimuth : 0.00° Inclination : 0.00° Dimensions Length : 0.00 US ft Breadth : 0.00 US ft Height : 0.00 US ft
Target Name: PBHL Shape: Cuboid	Position (Relative to Slot centre) +N / -S : 7297.00 US ft Northing : 464003.60 US ft Latitude : 32° 16' 30.92" +E / -W : -639.20 US ft Easting : 635047.00 US ft Longitude : -104° 1' 48.45" TVD (Drill Floor) : 6330.00 US ft
	Orientation Azimuth : 358.62° Inclination : 0.31° Dimensions Length : 6562.00 US ft Breadth : 50.00 US ft Height : 20.00 US ft

SD Survey Report

Survey Name : Wft Svy**Date :** 06/Feb/2014**Survey Tool :** MWD**Comment :****Company :****Magnetic Model****Model Name:** BGGM**Date:** 20/Mar/2014**Field Strength:**
48308.6 nT**Declination:** 7.58°**Dip:** 60.05°**Tie Point****MD:** 2583**Inclination:** 3.21 **Azimuth:** 149.65**TVD:** 2582.09**North Offset:** 32.63**East Offset:** -2.27**Well path created using minimum curvature**

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Incl (°)	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	
2583.00	3.21	149.65	2582.09	32.63	-2.27	32.68	0.00	456739.23	635683.93	Tie On VES	
2715.00	2.04	163.52	2713.95	27.19	0.26	27.17	1.00	456733.79	635686.46	First Wft Svy	
2778.00	1.23	159.43	2776.92	25.48	0.82	25.45	1.30	456732.08	635687.02		
2873.00	0.70	294.04	2871.92	24.76	0.65	24.74	1.89	456731.36	635686.85		
2968.00	2.55	305.87	2966.87	26.24	-1.59	26.27	1.97	456732.84	635684.61		
3062.00	4.19	306.37	3060.71	29.50	-6.05	29.64	1.74	456736.10	635680.15		
3157.00	5.78	304.91	3155.35	34.29	-12.77	34.60	1.68	456740.89	635673.43		
3251.00	6.72	299.02	3248.79	39.67	-21.46	40.20	1.21	456746.27	635664.74		
3346.00	7.68	296.00	3343.04	45.15	-32.03	45.94	1.09	456751.75	635654.17		
3440.00	7.73	295.94	3436.19	50.67	-43.36	51.74	0.05	456757.27	635642.84		
3535.00	7.83	295.73	3530.32	56.27	-54.93	57.64	0.11	456762.87	635631.27		
3630.00	8.24	297.05	3624.38	62.18	-66.83	63.84	0.47	456768.78	635619.37		
3724.00	9.05	299.92	3717.31	68.93	-79.23	70.90	0.98	456775.53	635606.97		
3818.00	10.18	295.24	3809.99	76.16	-93.16	78.48	1.46	456782.76	635593.04		
3913.00	10.44	294.14	3903.46	83.26	-108.60	85.96	0.34	456789.86	635577.60		
4007.00	10.64	293.96	3995.87	90.27	-124.31	93.36	0.22	456796.87	635561.89		
4102.00	9.49	293.30	4089.41	96.93	-139.52	100.40	1.22	456803.53	635546.68		
4197.00	9.33	293.00	4183.13	103.03	-153.80	106.86	0.18	456809.63	635532.40		
4291.00	9.24	292.76	4275.90	108.93	-167.77	113.11	0.10	456815.53	635518.43		
4386.00	9.05	291.79	4369.69	114.65	-181.74	119.18	0.26	456821.25	635504.46		
4480.00	8.96	296.41	4462.54	120.65	-195.16	125.52	0.78	456827.25	635491.04		
4574.00	9.40	298.18	4555.33	127.53	-208.48	132.73	0.56	456834.13	635477.72		
4669.00	9.66	298.50	4649.02	135.00	-222.33	140.55	0.28	456841.60	635463.87		
4764.00	9.70	298.12	4742.67	142.58	-236.39	148.47	0.08	456849.18	635449.81		
4858.00	9.57	297.64	4835.34	149.93	-250.30	156.18	0.16	456856.53	635435.90		
4953.00	9.38	296.96	4929.05	157.11	-264.19	163.70	0.23	456863.71	635422.01		
5047.00	9.29	296.72	5021.80	163.99	-277.80	170.92	0.10	456870.59	635408.40		
5142.00	9.12	296.96	5115.58	170.85	-291.36	178.12	0.18	456877.45	635394.84		
5236.00	8.86	296.59	5208.42	177.47	-304.47	185.07	0.28	456884.07	635381.73		
5331.00	8.94	297.41	5302.28	184.14	-317.57	192.07	0.16	456890.74	635368.63		
5425.00	9.66	298.30	5395.04	191.24	-330.99	199.50	0.78	456897.84	635355.21		
5520.00	9.49	298.51	5488.72	198.76	-344.89	207.37	0.18	456905.36	635341.31		
5614.00	10.17	298.88	5581.34	206.47	-358.97	215.42	0.73	456913.07	635327.23		
5709.00	10.27	301.29	5674.83	214.92	-373.55	224.24	0.46	456921.52	635312.65		
5804.00	10.60	306.04	5768.26	224.46	-387.85	234.13	0.97	456931.06	635298.35		
5868.00	11.66	310.46	5831.06	232.12	-397.53	242.03	2.13	456938.72	635288.67		
5900.00	15.25	316.97	5862.18	237.29	-402.87	247.34	12.16	456943.89	635283.33		
5931.00	19.85	322.36	5891.73	244.45	-408.87	254.64	15.72	456951.05	635277.33		
5962.00	23.45	328.80	5920.54	253.89	-415.28	264.25	13.90	456960.49	635270.92		
5993.00	25.40	336.75	5948.77	265.28	-421.10	275.78	12.32	456971.88	635265.10		
6025.00	27.03	344.28	5977.49	278.59	-425.78	289.21	11.57	456985.19	635260.42		
6056.00	28.79	348.40	6004.88	292.69	-429.19	303.38	8.42	456999.29	635257.01		
6088.00	30.47	349.41	6032.70	308.21	-432.23	318.98	5.48	457014.81	635253.97		
6119.00	32.20	349.64	6059.18	324.07	-435.16	334.90	5.59	457030.67	635251.04		
6151.00	33.96	349.86	6085.99	341.25	-438.27	352.16	5.51	457047.85	635247.93		
6182.00	36.09	350.00	6111.37	358.77	-441.38	369.75	6.88	457065.37	635244.82		
6214.00	39.17	350.65	6136.71	378.03	-444.66	389.08	9.70	457084.63	635241.54		

SD SURVEY REPORT

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										Comment
MD (US ft)	Incl (°)	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)	
6245.00	41.66	351.01	6160.31	397.87	-447.86	409.00	8.07	457104.47	635238.34	
6277.00	43.97	352.21	6183.79	419.38	-451.03	430.58	7.66	457125.98	635235.17	
6309.00	46.94	353.23	6206.23	442.00	-453.91	453.27	9.55	457148.60	635232.29	
6340.00	49.97	354.34	6226.79	465.06	-456.42	476.39	10.13	457171.66	635229.78	
6372.00	52.78	355.00	6246.76	489.95	-458.74	501.33	8.93	457196.55	635227.46	
6403.00	56.44	355.74	6264.71	515.14	-460.78	526.55	11.97	457221.74	635225.42	
6435.00	59.98	356.20	6281.57	542.27	-462.69	553.72	11.13	457248.87	635223.51	
6466.00	63.27	356.40	6296.30	569.48	-464.44	580.97	10.63	457276.08	635221.76	
6498.00	66.43	356.80	6309.89	598.39	-466.16	609.92	9.94	457304.99	635220.04	
6529.00	69.48	357.69	6321.53	627.09	-467.54	638.64	10.19	457333.69	635218.66	
6561.00	72.22	358.64	6332.03	657.30	-468.50	668.87	9.01	457363.90	635217.70	
6593.00	74.87	358.59	6341.09	687.98	-469.25	699.55	8.28	457394.58	635216.95	
6624.00	77.53	358.70	6348.48	718.07	-469.96	729.65	8.59	457424.67	635216.24	
6656.00	78.95	358.62	6355.00	749.39	-470.69	760.98	4.44	457455.99	635215.51	
6687.00	80.44	358.42	6360.55	779.88	-471.48	791.48	4.85	457486.48	635214.72	
6718.00	82.49	358.20	6365.15	810.52	-472.38	822.14	6.65	457517.12	635213.82	
6750.00	85.38	358.38	6368.53	842.32	-473.33	853.95	9.05	457548.92	635212.87	
6844.00	90.91	356.79	6371.57	936.15	-477.29	947.85	6.12	457642.75	635208.91	
6939.00	91.05	356.10	6369.95	1030.95	-483.18	1042.77	0.74	457737.55	635203.02	
7034.00	91.33	355.18	6367.98	1125.66	-490.40	1137.63	1.01	457832.26	635195.80	
7128.00	90.63	355.63	6366.37	1219.34	-497.93	1231.47	0.89	457925.94	635188.27	
7223.00	89.86	357.25	6365.96	1314.15	-503.83	1326.40	1.89	458020.75	635182.37	
7318.00	89.09	358.68	6366.83	1409.09	-507.20	1421.39	1.71	458115.69	635179.00	
7412.00	89.37	358.21	6368.10	1503.04	-509.75	1515.38	0.58	458209.64	635176.45	
7507.00	90.84	359.45	6367.92	1598.02	-511.69	1610.37	2.02	458304.62	635174.51	
7601.00	93.01	359.81	6364.76	1691.96	-512.30	1704.30	2.34	458398.56	635173.90	
7696.00	90.91	359.65	6361.51	1786.90	-512.75	1799.22	2.22	458493.50	635173.45	
7791.00	91.05	359.31	6359.89	1881.88	-513.61	1894.19	0.39	458588.48	635172.59	
7885.00	91.05	358.65	6358.17	1975.85	-515.28	1988.17	0.70	458682.45	635170.92	
7979.00	90.14	359.10	6357.19	2069.82	-517.13	2082.16	1.08	458776.42	635169.07	
8074.00	91.12	359.39	6356.15	2164.81	-518.38	2177.15	1.08	458871.41	635167.82	
8168.00	89.51	0.03	6355.63	2258.80	-518.86	2271.13	1.84	458965.40	635167.34	
8263.00	90.28	1.13	6355.80	2353.79	-517.89	2366.07	1.41	459060.39	635168.31	
8358.00	89.37	0.06	6356.09	2448.79	-516.91	2461.00	1.48	459155.39	635169.29	
8452.00	88.32	357.75	6357.99	2542.74	-518.70	2554.97	2.70	459249.34	635167.50	
8547.00	89.16	358.28	6360.08	2637.66	-521.99	2649.95	1.05	459344.26	635164.21	
8641.00	89.93	358.51	6360.82	2731.62	-524.63	2743.94	0.85	459438.22	635161.57	
8736.00	90.35	358.46	6360.59	2826.59	-527.14	2838.94	0.45	459533.19	635159.06	
8830.00	90.49	358.36	6359.90	2920.55	-529.75	2932.94	0.18	459627.15	635156.45	
8925.00	90.42	357.14	6359.15	3015.47	-533.47	3027.92	1.29	459722.07	635152.73	
9020.00	90.28	356.36	6358.57	3110.31	-538.86	3122.87	0.83	459816.91	635147.34	
9114.00	90.56	358.05	6357.88	3204.20	-543.44	3216.84	1.82	459910.80	635142.76	
9208.00	90.77	358.15	6356.79	3298.14	-546.56	3310.83	0.25	460004.74	635139.64	
9303.00	90.84	357.88	6355.45	3393.07	-549.85	3405.82	0.29	460099.67	635136.35	
9398.00	91.05	358.11	6353.89	3488.00	-553.17	3500.80	0.33	460194.60	635133.03	
9492.00	91.26	358.34	6351.99	3581.94	-556.08	3594.78	0.33	460288.54	635130.12	
9587.00	92.94	0.30	6348.51	3676.86	-557.21	3689.70	2.72	460383.46	635128.99	
9682.00	90.28	359.87	6345.84	3771.81	-557.07	3784.62	2.84	460478.41	635129.13	
9776.00	89.37	0.07	6346.13	3865.81	-557.12	3878.59	0.99	460572.41	635129.08	
9870.00	89.23	358.25	6347.28	3959.79	-558.50	3972.57	1.94	460666.39	635127.70	
9965.00	88.95	357.73	6348.79	4054.72	-561.83	4067.56	0.62	460761.32	635124.37	
10059.00	90.56	0.81	6349.19	4148.70	-563.03	4161.53	3.70	460855.30	635123.17	
10154.00	91.26	2.18	6347.68	4243.65	-560.55	4256.39	1.62	460950.25	635125.65	
10248.00	89.44	359.21	6347.11	4337.62	-559.41	4350.31	3.71	461044.22	635126.79	
10343.00	89.16	358.58	6348.27	4432.60	-561.24	4445.30	0.73	461139.20	635124.96	
10437.00	89.58	358.54	6349.30	4526.56	-563.60	4539.30	0.45	461233.16	635122.60	
10532.00	89.44	358.11	6350.11	4621.52	-566.38	4634.29	0.48	461328.12	635119.82	
10626.00	90.63	357.79	6350.05	4715.46	-569.74	4728.29	1.31	461422.06	635116.46	
10707.00	90.91	357.46	6348.97	4796.38	-573.10	4809.27	0.53	461502.98	635113.10	

SD Survey report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Incl (°)	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
10801.00	91.96	357.14	6346.61	4890.25	-577.53	4903.21	1.17	461596.85	635108.67	
10896.00	91.82	357.37	6343.48	4985.08	-582.07	4998.14	0.28	461691.68	635104.13	
10991.00	90.49	357.50	6341.56	5079.97	-586.32	5093.10	1.41	461786.57	635099.88	
11085.00	91.54	358.00	6339.90	5173.88	-590.01	5187.07	1.24	461880.48	635096.19	
11179.00	90.63	358.27	6338.12	5267.81	-593.07	5281.05	1.01	461974.41	635093.13	
11274.00	90.77	356.76	6336.96	5362.71	-597.19	5376.03	1.60	462069.31	635089.01	
11369.00	90.98	354.40	6335.51	5457.41	-604.51	5470.88	2.49	462164.01	635081.69	
11464.00	89.16	354.59	6335.39	5551.97	-613.62	5565.64	1.93	462258.57	635072.58	
11558.00	88.95	355.93	6336.94	5645.63	-621.39	5659.47	1.44	462352.23	635064.81	
11652.00	89.30	357.82	6338.38	5739.48	-626.51	5753.41	2.04	462446.08	635059.69	
11747.00	89.09	359.45	6339.71	5834.44	-628.78	5848.40	1.73	462541.04	635057.42	
11841.00	89.51	359.07	6340.86	5928.42	-629.99	5942.38	0.60	462635.02	635056.21	
11936.00	89.65	359.31	6341.56	6023.41	-631.33	6037.37	0.29	462730.01	635054.87	
12031.00	89.93	0.22	6341.91	6118.41	-631.72	6132.35	1.00	462825.01	635054.48	
12125.00	89.65	359.34	6342.25	6212.41	-632.08	6226.33	0.98	462919.01	635054.12	
12220.00	90.21	1.02	6342.37	6307.40	-631.79	6321.29	1.86	463014.00	635054.41	
12314.00	91.05	1.15	6341.33	6401.38	-630.01	6415.19	0.90	463107.98	635056.19	
12408.00	91.68	0.78	6339.09	6495.34	-628.42	6509.08	0.78	463201.94	635057.78	
12503.00	90.28	0.61	6337.47	6590.31	-627.27	6604.00	1.48	463296.91	635058.93	
12598.00	90.49	0.51	6336.83	6685.31	-626.34	6698.94	0.24	463391.91	635059.86	
12692.00	91.05	0.01	6335.57	6779.30	-625.92	6792.89	0.80	463485.90	635060.28	
12787.00	91.82	359.98	6333.19	6874.27	-625.92	6887.83	0.81	463580.87	635060.28	
12881.00	90.00	359.54	6331.69	6968.25	-626.32	6981.79	1.99	463674.85	635059.88	
12976.00	90.42	358.95	6331.35	7063.24	-627.57	7076.78	0.76	463769.84	635058.63	
13070.00	91.12	358.21	6330.08	7157.20	-629.90	7170.77	1.08	463863.80	635056.30	
13147.00	91.54	357.06	6328.30	7234.11	-633.07	7247.74	1.59	463940.71	635053.13	Last Wft Svy
13217.00	91.54	357.06	6326.41	7304.00	-636.66	7317.69	0.00	464010.60	635049.54	Proj. To Bit



Weatherford

Harroun Trust 31-30 Fed Com 2H
Eddy Co, NM

Plan Data for Harroun Trust 31-30 Fed Com #2H

Plan Point Information:
Dogleg Severity Unit: $\frac{1}{100.00\text{ft}}$ 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)
9870.00 89.23 358.25 6347.28 3959.83 -558.55 460666.43 635127.65 3972.62 1.94
9926.86 90.31 358.62 6347.51 4016.67 -560.11 460723.27 635126.09 4029.48 2.08
13208.19 90.31 358.62 6330.00 7297.00 -639.20 464003.60 635047.00 7310.76 0.00

Plan Data for Harroun Trust 31-30 Fed Com #2H

Slot: Harroun Trust 31-30 Fed Com #2H

Position:

Offset 15 from Site centre

+N/-S: 0.00USft Northing: 456706.60USft Latitude: $32^{\circ}15'18.7''$
+E/-W: 0.00USft Easting: 635686.20USft Longitude: $-104^{\circ}1'41.2''$
Elevation Above VRD: 2957.00USft

Plan Data for Harroun Trust 31-30 Fed Com #2H

Target Slot Information:

Name: Harroun Trust 31-30 Fed Com #2H

Position offsets from Slot centre

Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft) (USft)
Lp 1gt 6375.00 790.49 -475.07 457497.09 635211.13 Cuboid
PBHL 6330.00 7297.00 -639.20 464003.60 635047.00 Cuboid

Harroun Trust 31-30 Fed Com #2H

Harroun Trust 31-30 3H

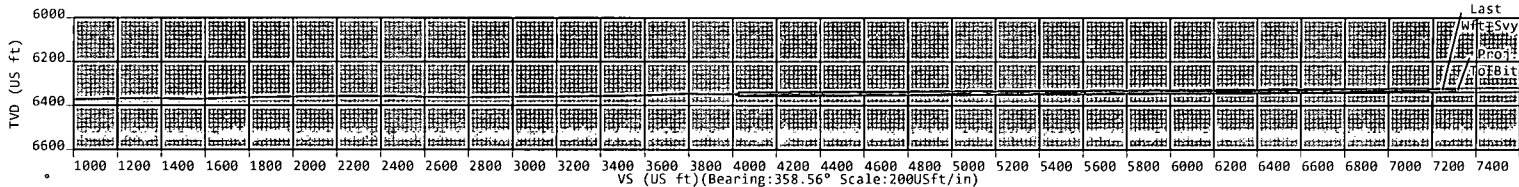
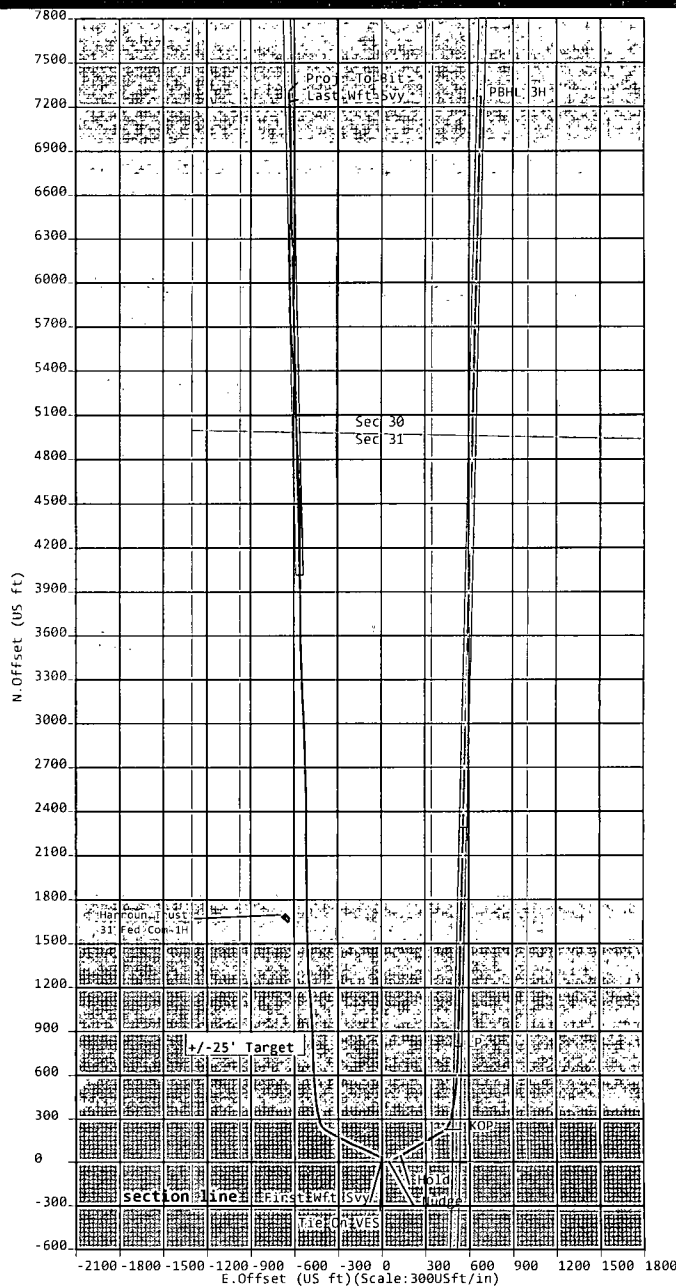
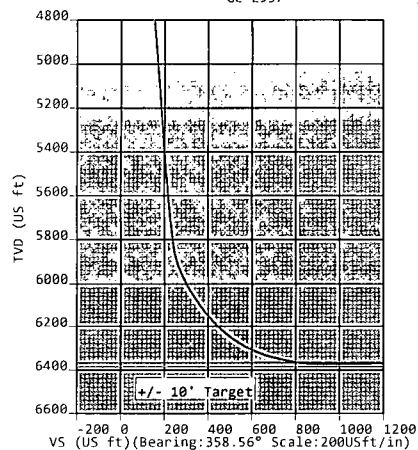
Harroun Trust 31 Fed Com 1H

Harroun Trust 31-30 Fed Com #2H

Harroun Trust 31-30 Fed Com #2H

KB-2982

GL-2957



Sign Off: Russell Joyner

Well Report



Company : Devon Energy
Well : Harroun Trust 31-30 Fed Com 2H
Location : Eddy County, NM
Reference: Grid North

Page: 1
Date : 2/19/2014
File : 4031801 S

Formation: 6369.31
Dip Azi : 358.62
Comment : J. Vinson / M. Martinez

Dip Inc : .31

Vertical Section Calculated Along Azimuth 358.56°

KB Elevation = 2982.00ft GR. Elevation = 2957.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	%/100	%/100	%/100
0	2583.00	3.21	149.65	2582.09	32.63	-2.27	32.68	0.00	0.00	0.00
1	2715.00	2.04	163.52	2713.95	27.19	0.26	27.17	1.00	-0.89	10.51
2	2778.00	1.23	159.43	2776.92	25.48	0.82	25.45	1.30	-1.29	-6.49
3	2873.00	0.70	294.04	2871.92	24.76	0.65	24.74	1.89	-0.56	141.69
4	2968.00	2.55	305.87	2966.88	26.24	-1.59	26.27	1.97	1.95	12.45
5	3062.00	4.19	306.37	3060.71	29.50	-6.05	29.64	1.74	1.74	0.53
6	3157.00	5.78	304.91	3155.35	34.29	-12.77	34.60	1.68	1.67	-1.54
7	3251.00	6.72	299.02	3248.79	39.67	-21.46	40.20	1.21	1.00	-6.27
8	3346.00	7.68	296.00	3343.04	45.15	-32.03	45.94	1.09	1.01	-3.18
9	3440.00	7.73	295.94	3436.19	50.67	-43.36	51.74	0.05	0.05	-0.06
10	3535.00	7.83	295.73	3530.32	56.27	-54.93	57.64	0.11	0.11	-0.22
11	3630.00	8.24	297.05	3624.38	62.18	-66.83	63.84	0.47	0.43	1.39
12	3724.00	9.05	299.92	3717.31	68.93	-79.23	70.90	0.98	0.86	3.05
13	3818.00	10.18	295.24	3809.99	76.16	-93.16	78.48	1.46	1.20	-4.98
14	3913.00	10.44	294.14	3903.46	83.26	-108.60	85.96	0.34	0.27	-1.16
15	4007.00	10.64	293.96	3995.87	90.27	-124.31	93.36	0.22	0.21	-0.19
16	4102.00	9.49	293.30	4089.41	96.93	-139.52	100.40	1.22	-1.21	-0.69
17	4197.00	9.33	293.00	4183.13	103.03	-153.80	106.86	0.18	-0.17	-0.32
18	4291.00	9.24	292.76	4275.90	108.93	-167.77	113.11	0.10	-0.10	-0.26
19	4386.00	9.05	291.79	4369.69	114.65	-181.74	119.18	0.26	-0.20	-1.02
20	4480.00	8.96	296.41	4462.54	120.65	-195.16	125.52	0.78	-0.10	4.91
21	4574.00	9.40	298.18	4555.33	127.53	-208.48	132.73	0.56	0.47	1.88
22	4669.00	9.66	298.50	4649.02	135.00	-222.33	140.55	0.28	0.27	0.34
23	4764.00	9.70	298.12	4742.67	142.58	-236.39	148.47	0.08	0.04	-0.40
24	4858.00	9.57	297.64	4835.34	149.93	-250.30	156.18	0.16	-0.14	-0.51
25	4953.00	9.38	296.96	4929.05	157.11	-264.19	163.70	0.23	-0.20	-0.72
26	5047.00	9.29	296.72	5021.80	163.99	-277.80	170.92	0.10	-0.10	-0.26
27	5142.00	9.12	296.96	5115.58	170.85	-291.36	178.12	0.18	-0.18	0.25
28	5236.00	8.86	296.59	5208.42	177.47	-304.47	185.07	0.28	-0.28	-0.39
29	5331.00	8.94	297.41	5302.28	184.14	-317.57	192.07	0.16	0.08	0.86
30	5425.00	9.66	298.30	5395.04	191.24	-330.99	199.50	0.78	0.77	0.95
31	5520.00	9.49	298.51	5488.72	198.76	-344.89	207.37	0.18	-0.18	0.22
32	5614.00	10.17	298.88	5581.34	206.47	-358.97	215.42	0.73	0.72	0.39
33	5709.00	10.27	301.29	5674.83	214.92	-373.55	224.24	0.46	0.11	2.54

Well Report



Company : Devon Energy
Well : Harroun Trust 31-30 Fed Com 2H
Location : Eddy County, NM
Reference: Grid North

Page: 2
Date : 2/19/2014
File : 4031801 S

Formation: 6369.31
Dip Azi : 358.62
Comment : J. Vinson / M. Martinez

Dip Inc : .31

Vertical Section Calculated Along Azimuth 358.56°

KB Elevation = 2982.00ft GR. Elevation = 2957.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
34	5804.00	10.60	306.04	5768.26	224.46	-387.85	234.13	0.97	0.35	5.00
35	5868.00	11.66	310.46	5831.06	232.12	-397.53	242.03	2.13	1.66	6.91
36	5900.00	15.25	316.97	5862.18	237.29	-402.87	247.34	12.16	11.22	20.34
37	5931.00	19.85	322.36	5891.73	244.45	-408.87	254.64	15.72	14.84	17.39
38	5962.00	23.45	328.80	5920.54	253.89	-415.28	264.25	13.90	11.61	20.77
39	5993.00	25.40	336.75	5948.77	265.28	-421.10	275.78	12.32	6.29	25.65
40	6025.00	27.03	344.28	5977.49	278.59	-425.78	289.21	11.57	5.09	23.53
41	6056.00	28.79	348.40	6004.88	292.69	-429.19	303.38	8.42	5.68	13.29
42	6088.00	30.47	349.41	6032.70	308.21	-432.23	318.98	5.48	5.25	3.16
43	6119.00	32.20	349.64	6059.18	324.07	-435.16	334.90	5.59	5.58	0.74
44	6151.00	33.96	349.86	6085.99	341.25	-438.27	352.16	5.51	5.50	0.69
45	6182.00	36.09	350.00	6111.37	358.77	-441.38	369.75	6.88	6.87	0.45
46	6214.00	39.17	350.65	6136.71	378.03	-444.66	389.08	9.70	9.62	2.03
47	6245.00	41.66	351.01	6160.31	397.87	-447.86	409.00	8.07	8.03	1.16
48	6277.00	43.97	352.21	6183.79	419.38	-451.03	430.58	7.66	7.22	3.75
49	6309.00	46.94	353.23	6206.23	442.00	-453.91	453.27	9.55	9.28	3.19
50	6340.00	49.97	354.34	6226.79	465.06	-456.42	476.39	10.13	9.77	3.58
51	6372.00	52.78	355.00	6246.76	489.95	-458.74	501.33	8.93	8.78	2.06
52	6403.00	56.44	355.74	6264.71	515.14	-460.78	526.55	11.97	11.81	2.39
53	6435.00	59.98	356.20	6281.57	542.27	-462.69	553.72	11.13	11.06	1.44
54	6466.00	63.27	356.40	6296.30	569.48	-464.44	580.97	10.63	10.61	0.65
55	6498.00	66.43	356.80	6309.90	598.39	-466.16	609.92	9.94	9.88	1.25
56	6529.00	69.48	357.69	6321.53	627.09	-467.54	638.64	10.19	9.84	2.87
57	6561.00	72.22	358.64	6332.03	657.30	-468.50	668.87	9.01	8.56	2.97
58	6593.00	74.87	358.59	6341.09	687.98	-469.25	699.55	8.28	8.28	-0.16
59	6624.00	77.53	358.70	6348.48	718.07	-469.96	729.65	8.59	8.58	0.35
60	6656.00	78.95	358.62	6355.01	749.39	-470.69	760.98	4.44	4.44	-0.25
61	6687.00	80.44	358.42	6360.55	779.88	-471.48	791.48	4.85	4.81	-0.65
62	6718.00	82.49	358.20	6365.15	810.52	-472.38	822.14	6.65	6.61	-0.71
63	6750.00	85.38	358.38	6368.53	842.32	-473.33	853.95	9.05	9.03	0.56
64	6844.00	90.91	356.79	6371.57	936.15	-477.29	947.85	6.12	5.88	-1.69
65	6939.00	91.05	356.10	6369.95	1030.95	-483.18	1042.77	0.74	0.15	-0.73
66	7034.00	91.33	355.18	6367.98	1125.66	-490.40	1137.63	1.01	0.29	-0.97

Well Report



Weatherford

Company : Devon Energy
Well : Harroun Trust 31-30 Fed Com 2H
Location : Eddy County, NM
Reference: Grid North

Page: 3
Date : 2/19/2014
File : 4031801 S

Formation: 6369.31
Dip Azi : 358.62
Comment : J. Vinson / M. Martinez

Dip Inc : .31

Vertical Section Calculated Along Azimuth 358.56°

KB Elevation = 2982.00ft GR. Elevation = 2957.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
67	7128.00	90.63	355.63	6366.37	1219.34	-497.93	1231.47	0.89	-0.74	0.48
68	7223.00	89.86	357.25	6365.96	1314.15	-503.83	1326.40	1.89	-0.81	1.71
69	7318.00	89.09	358.68	6366.83	1409.09	-507.20	1421.39	1.71	-0.81	1.51
70	7412.00	89.37	358.21	6368.10	1503.04	-509.75	1515.38	0.58	0.30	-0.50
71	7507.00	90.84	359.45	6367.92	1598.02	-511.69	1610.37	2.02	1.55	1.31
72	7601.00	93.01	359.81	6364.76	1691.96	-512.30	1704.30	2.34	2.31	0.38
73	7696.00	90.91	359.65	6361.52	1786.90	-512.75	1799.22	2.22	-2.21	-0.17
74	7791.00	91.05	359.31	6359.89	1881.88	-513.61	1894.19	0.39	0.15	-0.36
75	7885.00	91.05	358.65	6358.17	1975.85	-515.28	1988.17	0.70	0.00	-0.70
76	7979.00	90.14	359.10	6357.19	2069.82	-517.13	2082.16	1.08	-0.97	0.48
77	8074.00	91.12	359.39	6356.15	2164.81	-518.38	2177.15	1.08	1.03	0.31
78	8168.00	89.51	0.03	6355.63	2258.80	-518.86	2271.13	1.84	-1.71	0.68
79	8263.00	90.28	1.13	6355.80	2353.79	-517.89	2366.07	1.41	0.81	1.16
80	8358.00	89.37	0.06	6356.09	2448.79	-516.91	2461.00	1.48	-0.96	-1.13
81	8452.00	88.32	357.75	6357.99	2542.74	-518.70	2554.97	2.70	-1.12	-2.46
82	8547.00	89.16	358.28	6360.08	2637.66	-521.99	2649.95	1.05	0.88	0.56
83	8641.00	89.93	358.51	6360.83	2731.62	-524.63	2743.94	0.85	0.82	0.24
84	8736.00	90.35	358.46	6360.59	2826.59	-527.14	2838.94	0.45	0.44	-0.05
85	8830.00	90.49	358.36	6359.90	2920.55	-529.75	2932.94	0.18	0.15	-0.11
86	8925.00	90.42	357.14	6359.15	3015.47	-533.47	3027.92	1.29	-0.07	-1.28
87	9020.00	90.28	356.36	6358.57	3110.31	-538.86	3122.87	0.83	-0.15	-0.82
88	9114.00	90.56	358.05	6357.88	3204.20	-543.44	3216.84	1.82	0.30	1.80
89	9208.00	90.77	358.15	6356.79	3298.14	-546.56	3310.83	0.25	0.22	0.11
90	9303.00	90.84	357.88	6355.45	3393.07	-549.85	3405.82	0.29	0.07	-0.28
91	9398.00	91.05	358.11	6353.89	3488.00	-553.17	3500.80	0.33	0.22	0.24
92	9492.00	91.26	358.34	6351.99	3581.94	-556.08	3594.78	0.33	0.22	0.24
93	9587.00	92.94	0.30	6348.51	3676.86	-557.21	3689.70	2.72	1.77	2.06
94	9682.00	90.28	359.87	6345.84	3771.81	-557.07	3784.62	2.84	-2.80	-0.45
95	9776.00	89.37	0.07	6346.13	3865.81	-557.12	3878.59	0.99	-0.97	0.21
96	9870.00	89.23	358.25	6347.28	3959.79	-558.50	3972.57	1.94	-0.15	-1.94
97	9965.00	88.95	357.73	6348.79	4054.72	-561.83	4067.56	0.62	-0.29	-0.55
98	10059.00	90.56	0.81	6349.19	4148.70	-563.03	4161.53	3.70	1.71	3.28
99	10154.00	91.26	2.18	6347.68	4243.65	-560.55	4256.39	1.62	0.74	1.44

Well Report



Company : Devon Energy
Well : Harroun Trust 31-30 Fed Com 2H
Location : Eddy County, NM
Reference: Grid North

Page: 4
Date : 2/19/2014
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Formation: 6369.31
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Vertical Section Calculated Along Azimuth 358.56°

KB Elevation = 2982.00ft GR. Elevation = 2957.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
100	10248.00	89.44	359.21	6347.11	4337.62	-559.41	4350.31	3.71	-1.94	-3.16
101	10343.00	89.16	358.58	6348.27	4432.60	-561.24	4445.30	0.73	-0.29	-0.66
102	10437.00	89.58	358.54	6349.30	4526.56	-563.60	4539.30	0.45	0.45	-0.04
103	10532.00	89.44	358.11	6350.11	4621.52	-566.38	4634.29	0.48	-0.15	-0.45
104	10626.00	90.63	357.79	6350.06	4715.46	-569.74	4728.29	1.31	1.27	-0.34
105	10707.00	90.91	357.46	6348.97	4796.38	-573.10	4809.27	0.53	0.35	-0.41
106	10801.00	91.96	357.14	6346.61	4890.25	-577.53	4903.21	1.17	1.12	-0.34
107	10896.00	91.82	357.37	6343.48	4985.08	-582.07	4998.14	0.28	-0.15	0.24
108	10991.00	90.49	357.50	6341.56	5079.97	-586.32	5093.10	1.41	-1.40	0.14
109	11085.00	91.54	358.00	6339.90	5173.88	-590.01	5187.07	1.24	1.12	0.53
110	11179.00	90.63	358.27	6338.12	5267.81	-593.07	5281.05	1.01	-0.97	0.29
111	11274.00	90.77	356.76	6336.96	5362.71	-597.19	5376.03	1.60	0.15	-1.59
112	11369.00	90.98	354.40	6335.51	5457.41	-604.51	5470.88	2.49	0.22	-2.48
113	11464.00	89.16	354.59	6335.39	5551.97	-613.62	5565.64	1.93	-1.92	0.20
114	11558.00	88.95	355.93	6336.94	5645.63	-621.39	5659.47	1.44	-0.22	1.43
115	11652.00	89.30	357.82	6338.38	5739.48	-626.51	5753.41	2.04	0.37	2.01
116	11747.00	89.09	359.45	6339.71	5834.44	-628.78	5848.40	1.73	-0.22	1.72
117	11841.00	89.51	359.07	6340.86	5928.42	-629.99	5942.38	0.60	0.45	-0.40
118	11936.00	89.65	359.31	6341.56	6023.41	-631.33	6037.37	0.29	0.15	0.25
119	12031.00	89.93	0.22	6341.91	6118.41	-631.72	6132.35	1.00	0.29	0.96
120	12125.00	89.65	359.34	6342.25	6212.41	-632.08	6226.33	0.98	-0.30	-0.94
121	12220.00	90.21	1.02	6342.37	6307.40	-631.79	6321.29	1.86	0.59	1.77
122	12314.00	91.05	1.15	6341.33	6401.38	-630.01	6415.19	0.90	0.89	0.14
123	12408.00	91.68	0.78	6339.09	6495.34	-628.42	6509.08	0.78	0.67	-0.39
124	12503.00	90.28	0.61	6337.47	6590.31	-627.27	6604.00	1.48	-1.47	-0.18
125	12598.00	90.49	0.51	6336.83	6685.31	-626.34	6698.94	0.24	0.22	-0.11
126	12692.00	91.05	0.01	6335.57	6779.30	-625.92	6792.89	0.80	0.60	-0.53
127	12787.00	91.82	359.98	6333.19	6874.27	-625.92	6887.83	0.81	0.81	-0.03
128	12881.00	90.00	359.54	6331.70	6968.25	-626.32	6981.79	1.99	-1.94	-0.47
129	12976.00	90.42	358.95	6331.35	7063.24	-627.57	7076.78	0.76	0.44	-0.62
130	13070.00	91.12	358.21	6330.08	7157.20	-629.90	7170.77	1.08	0.74	-0.79
131	13147.00	91.54	357.06	6328.30	7234.11	-633.07	7247.74	1.59	0.55	-1.49
Straightline Projection To Bit @ TD										
EXT	13217.00	91.54	357.06	6326.42	7304.00	-636.66	7317.69	0.00	0.00	0.00

Bottom Hole Closure 7331.69ft Along Azimuth 355.02°