

devon

Devon

PATHFINDER
 A Schlumberger Company

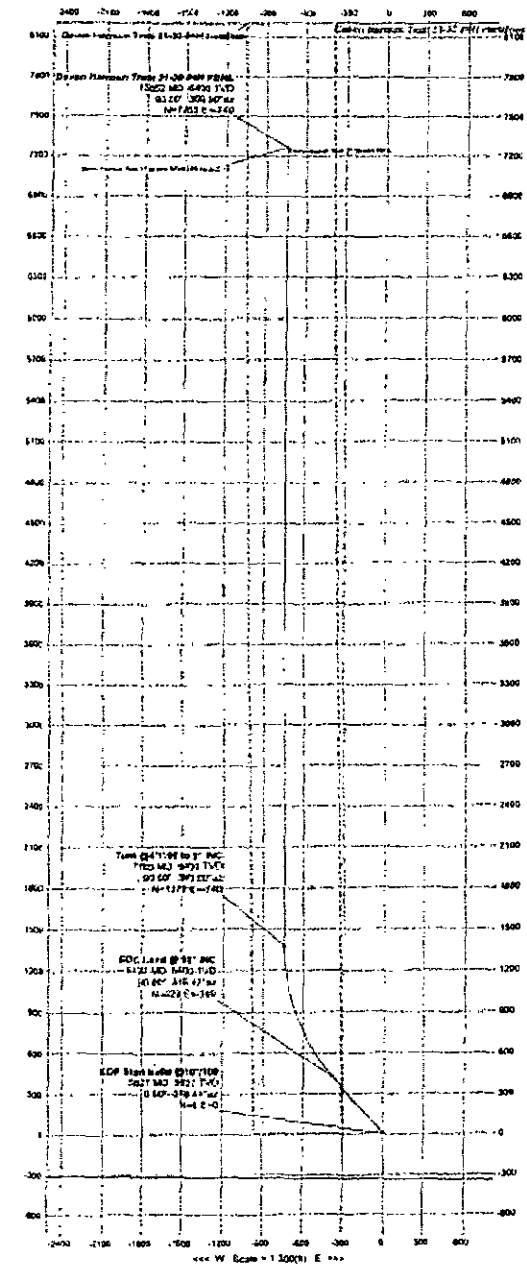
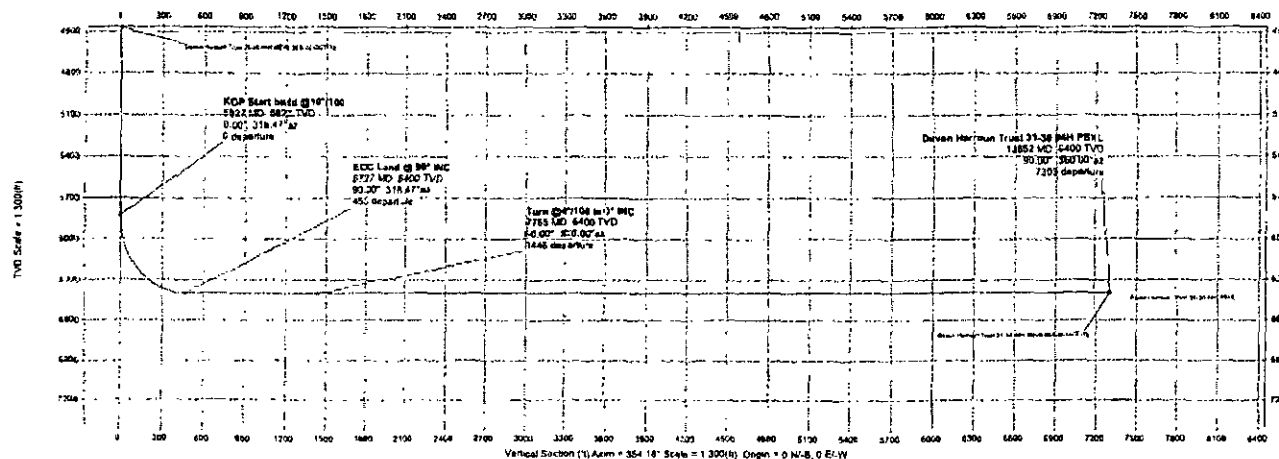
WELL	Devon Harman Trust 31-30 #4H	WELL	NM Eddy County (NAD 83)	STRUCTURE	
Geographic Position	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL

Oil Conservation Division
 Case No. 144
 Exhibit No. 144

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Comments	Survey	MD (ft)	Interval (deg)	Interval (deg)	TVL (ft)	Sub Sea TVD (ft)	VS (ft)	AS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ft)	Northing (ft)	Closure (ft)	Closure Azimuth (deg)	CLS (ft)	Tool Face (deg)
Te-h	0.00	0.00	318.47	0.00	2303.10	0.00	0.00	0.00	0.00	N 32 15 18.431 W 104	1 10.579	630319.40	455687.50	0.00	0.00	0.00	318.47
KOP Start hole @ 10' 100	5927.04	0.00	318.47	5927.04	2843.94	0.00	0.00	0.00	0.00	N 32 15 18.431 W 104	1 10.579	630319.40	455687.50	0.00	0.00	0.00	318.47
EOC Land @ 90' 100	6727.04	90.00	318.47	6400.00	3415.90	455.22	428.92	378.68	0.00	N 32 15 22.656 W 104	1 14.980	637839.55	457116.39	372.95	318.47	90.00	90.00
Turn @ 47' 100 to 7' 100	7765.22	90.00	353.63	5400.00	3415.90	1446.45	1378.55	779.97	0.00	N 32 15 32.023 W 104	1 19.942	637579.45	458065.53	1564.59	351.77	4.00	0.00
Devon Harman Trust 31-30 #4H PSH-L	13651.87	90.00	359.63	6400.00	3415.90	7302.81	7285.20	745.25	0.00	N 32 16 30.342 W 104	1 13.554	637579.22	463552.10	7302.81	354.18	0.00	0.00



Drawn By: Sam Rife
 Date Created: October 28, 2013 11:47 AM
 Checked By:
 Entered Data:
 Approved By:
 Approved Date:



Devon Harroun Trust 31-30 #4H REV0 SEB 29-OCT-12 Proposal Geodetic
Report
(Def Plan)



Report Date: October 29, 2012 - 11:00 AM
Client: Devon
Field: NIM Eddy County (NAD 83)
Structure / Shot: Devon Harroun Trust 31-30 #4H / Devon Harroun Trust 31-30 #4H
Well: Devon Harroun Trust 31-30 #4H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Devon Harroun Trust 31-30 #4H REV0 SEB 29-OCT-12
Survey Date: October 29, 2012
Tort / AHD / DOI / ERD Ratio: 131.527' / 7497.788 R / 6.323 / 1.172
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 15' 18.43085", W 104° 1' 10.57919"
Location Grid N/E Y/X: N 456887.500 RUS, E 838319.400 RUS
CRS Grid Convergence Angle: 0.1674 °
Grid Scale Factor: 0.99991066

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 354.182 ° (Grid North)
Vertical Section Origin: 0 000 R, 0 000 R
TVD Reference Datum: KB
TVD Reference Elevation: 2958.100 R above
Seabed / Ground Elevation: 2958.100 R above
Magnetic Declination: 7.729 °
Total Gravity Field Strength: 999.2094 mgn (9.8 based)
Total Magnetic Field Strength: 48434.714 nT
Magnetic Dip Angle: 60.062 °
Declination Date: October 29, 2012
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.1674 °
Total Corr Mag North->Grid North: 7.5611 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Tie-In	0.00	0.00	318.47	0.00	0.00	0.00	0.00	N/A	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	100.00	0.00	318.47	100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	200.00	0.00	318.47	200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	300.00	0.00	318.47	300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	400.00	0.00	318.47	400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	500.00	0.00	318.47	500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	600.00	0.00	318.47	600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	700.00	0.00	318.47	700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	800.00	0.00	318.47	800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	900.00	0.00	318.47	900.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1000.00	0.00	318.47	1000.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1100.00	0.00	318.47	1100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1200.00	0.00	318.47	1200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1300.00	0.00	318.47	1300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1400.00	0.00	318.47	1400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1500.00	0.00	318.47	1500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1600.00	0.00	318.47	1600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1700.00	0.00	318.47	1700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1800.00	0.00	318.47	1800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	1900.00	0.00	318.47	1900.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2000.00	0.00	318.47	2000.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2100.00	0.00	318.47	2100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2200.00	0.00	318.47	2200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2300.00	0.00	318.47	2300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2400.00	0.00	318.47	2400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2500.00	0.00	318.47	2500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2600.00	0.00	318.47	2600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2700.00	0.00	318.47	2700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2800.00	0.00	318.47	2800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	2900.00	0.00	318.47	2900.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3000.00	0.00	318.47	3000.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3100.00	0.00	318.47	3100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3200.00	0.00	318.47	3200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3300.00	0.00	318.47	3300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3400.00	0.00	318.47	3400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3500.00	0.00	318.47	3500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3600.00	0.00	318.47	3600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3700.00	0.00	318.47	3700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3800.00	0.00	318.47	3800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	3900.00	0.00	318.47	3900.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4000.00	0.00	318.47	4000.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4100.00	0.00	318.47	4100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4200.00	0.00	318.47	4200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4300.00	0.00	318.47	4300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4400.00	0.00	318.47	4400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4500.00	0.00	318.47	4500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4600.00	0.00	318.47	4600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4700.00	0.00	318.47	4700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4800.00	0.00	318.47	4800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	4900.00	0.00	318.47	4900.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5000.00	0.00	318.47	5000.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5100.00	0.00	318.47	5100.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5200.00	0.00	318.47	5200.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5300.00	0.00	318.47	5300.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5400.00	0.00	318.47	5400.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5500.00	0.00	318.47	5500.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5600.00	0.00	318.47	5600.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5700.00	0.00	318.47	5700.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58
	5800.00	0.00	318.47	5800.00	0.00	0.00	0.00	0.00	456887.50	838319.40	N 32 15 18.43	W 104 1 10.58

Comments	MD (ft)	Inc (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100m)	Northing (mUS)	Easting (mUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
KOP Start build @ 10°/100	5827.04	0.00	318.47	5827.04	0.00	0.00	0.00	0.00	458687.50	638319.40	N 32 15 18.43	W 104 1 10.58
	5900.00	7.30	318.47	5899.80	3.77	3.47	-3.08	10.00	458690.97	638318.32	N 32 15 18.47	W 104 1 10.81
	6000.00	17.30	318.47	5897.39	21.04	19.40	-17.18	10.00	458708.88	638302.22	N 32 15 18.82	W 104 1 10.78
	6100.00	27.30	318.47	6089.79	51.80	47.78	-42.30	10.00	458735.26	638277.10	N 32 15 18.90	W 104 1 11.07
	6200.00	37.30	318.47	6174.21	95.13	87.71	-77.68	10.00	458775.20	638241.73	N 32 15 19.30	W 104 1 11.48
	6300.00	47.30	318.47	6248.09	149.70	138.02	-122.24	10.00	458825.51	638197.17	N 32 15 19.80	W 104 1 12.00
	6400.00	57.30	318.47	6309.17	213.86	197.18	-174.83	10.00	458884.66	638144.78	N 32 15 20.39	W 104 1 12.61
	6500.00	67.30	318.47	6355.80	285.86	263.37	-233.28	10.00	458950.85	638088.18	N 32 15 21.04	W 104 1 13.29
	6600.00	77.30	318.47	6385.97	362.91	334.60	-298.34	10.00	459022.07	638023.09	N 32 15 21.75	W 104 1 14.02
	6700.00	87.30	318.47	6399.38	443.27	408.69	-361.90	10.00	459086.15	637957.47	N 32 15 22.49	W 104 1 14.78
EOC Land @ 90° INC	6727.04	90.00	318.47	6400.00	485.22	428.92	-379.88	10.00	459116.39	637938.55	N 32 15 22.89	W 104 1 14.99
	6800.00	90.00	321.39	6400.00	525.52	484.75	-428.84	4.00	459172.21	637892.60	N 32 15 23.24	W 104 1 15.53
	6900.00	90.00	325.39	6400.00	611.40	565.00	-488.47	4.00	459252.45	637832.97	N 32 15 24.04	W 104 1 16.22
	7000.00	90.00	329.39	6400.00	700.65	648.22	-548.35	4.00	459336.87	637779.09	N 32 15 24.87	W 104 1 16.85
	7100.00	90.00	333.39	6400.00	792.82	736.99	-588.23	4.00	459424.43	637731.22	N 32 15 25.74	W 104 1 17.40
	7200.00	90.00	337.39	6400.00	887.47	827.89	-629.86	4.00	459515.32	637689.59	N 32 15 26.64	W 104 1 17.89
	7300.00	90.00	341.39	6400.00	984.13	921.47	-685.06	4.00	459608.89	637654.39	N 32 15 27.57	W 104 1 18.29
	7400.00	90.00	345.39	6400.00	1082.35	1017.27	-753.84	4.00	459704.69	637625.81	N 32 15 28.52	W 104 1 18.62
	7500.00	90.00	349.39	6400.00	1181.62	1114.84	-831.47	4.00	459802.25	637603.99	N 32 15 29.48	W 104 1 18.87
	7600.00	90.00	353.39	6400.00	1281.48	1213.69	-920.44	4.00	459901.08	637589.02	N 32 15 30.48	W 104 1 19.04
	7700.00	90.00	357.39	6400.00	1381.44	1313.35	-1018.48	4.00	459900.74	637580.08	N 32 15 31.45	W 104 1 19.13
Turn @ 4°/100 to 0° INC	7785.22	90.00	360.00	6400.00	1448.45	1378.55	-1099.97	4.00	459965.93	637579.49	N 32 15 32.09	W 104 1 19.15
	7800.00	90.00	360.00	6400.00	1481.05	1413.33	-1139.97	0.00	459100.71	637579.49	N 32 15 32.44	W 104 1 19.15
	7900.00	90.00	360.00	6400.00	1580.54	1513.33	-1239.98	0.00	459200.70	637579.49	N 32 15 33.43	W 104 1 19.14
	8000.00	90.00	360.00	6400.00	1680.03	1613.33	-1339.98	0.00	459300.69	637579.49	N 32 15 34.42	W 104 1 19.14
	8100.00	90.00	360.00	6400.00	1779.51	1713.33	-1439.99	0.00	459400.68	637579.47	N 32 15 35.41	W 104 1 19.14
	8200.00	90.00	360.00	6400.00	1879.00	1813.33	-1539.99	0.00	459500.68	637579.47	N 32 15 36.40	W 104 1 19.13
	8300.00	90.00	360.00	6400.00	1978.48	1913.33	-1639.99	0.00	459600.67	637579.46	N 32 15 37.38	W 104 1 19.13
	8400.00	90.00	360.00	6400.00	2077.97	2013.33	-1739.99	0.00	459700.66	637579.46	N 32 15 38.37	W 104 1 19.13
	8500.00	90.00	360.00	6400.00	2177.45	2113.33	-1839.99	0.00	459800.65	637579.45	N 32 15 39.36	W 104 1 19.12
	8600.00	90.00	360.00	6400.00	2276.94	2213.33	-1939.99	0.00	459900.64	637579.45	N 32 15 40.35	W 104 1 19.12
	8700.00	90.00	360.00	6400.00	2376.42	2313.33	-2039.99	0.00	459900.64	637579.45	N 32 15 41.34	W 104 1 19.12
	8800.00	90.00	360.00	6400.00	2475.91	2413.33	-2139.99	0.00	459100.63	637579.44	N 32 15 42.33	W 104 1 19.11
	8900.00	90.00	360.00	6400.00	2575.39	2513.33	-2239.99	0.00	459200.62	637579.44	N 32 15 43.32	W 104 1 19.11
	9000.00	90.00	360.00	6400.00	2674.88	2613.33	-2339.99	0.00	459300.61	637579.43	N 32 15 44.31	W 104 1 19.11
	9100.00	90.00	360.00	6400.00	2774.36	2713.33	-2439.99	0.00	459400.60	637579.43	N 32 15 45.30	W 104 1 19.10
	9200.00	90.00	360.00	6400.00	2873.85	2813.33	-2539.99	0.00	459500.59	637579.42	N 32 15 46.29	W 104 1 19.10
	9300.00	90.00	360.00	6400.00	2973.34	2913.33	-2639.99	0.00	459600.58	637579.42	N 32 15 47.28	W 104 1 19.10
	9400.00	90.00	360.00	6400.00	3072.82	3013.33	-2739.99	0.00	459700.57	637579.41	N 32 15 48.27	W 104 1 19.09
	9500.00	90.00	360.00	6400.00	3172.31	3113.33	-2839.99	0.00	459800.57	637579.41	N 32 15 49.26	W 104 1 19.09
	9600.00	90.00	360.00	6400.00	3271.79	3213.33	-2939.99	0.00	459900.56	637579.40	N 32 15 50.25	W 104 1 19.09
	9700.00	90.00	360.00	6400.00	3371.28	3313.33	-3039.99	0.00	460000.55	637579.40	N 32 15 51.24	W 104 1 19.09
	9800.00	90.00	360.00	6400.00	3470.76	3413.33	-3139.99	0.00	460100.55	637579.39	N 32 15 52.23	W 104 1 19.08
	9900.00	90.00	360.00	6400.00	3570.25	3513.33	-3239.99	0.00	460200.54	637579.39	N 32 15 53.22	W 104 1 19.08
	10000.00	90.00	360.00	6400.00	3669.73	3613.33	-3339.99	0.00	460300.53	637579.38	N 32 15 54.21	W 104 1 19.08
	10100.00	90.00	360.00	6400.00	3769.22	3713.33	-3439.99	0.00	460400.52	637579.38	N 32 15 55.20	W 104 1 19.07
	10200.00	90.00	360.00	6400.00	3868.70	3813.33	-3539.99	0.00	460500.51	637579.37	N 32 15 56.19	W 104 1 19.07
	10300.00	90.00	360.00	6400.00	3968.19	3913.33	-3639.99	0.00	460600.50	637579.37	N 32 15 57.17	W 104 1 19.07
	10400.00	90.00	360.00	6400.00	4067.68	4013.33	-3739.99	0.00	460700.50	637579.36	N 32 15 58.16	W 104 1 19.06
	10500.00	90.00	360.00	6400.00	4167.16	4113.33	-3839.99	0.00	460800.49	637579.36	N 32 15 59.15	W 104 1 19.06
	10600.00	90.00	360.00	6400.00	4266.65	4213.33	-3939.99	0.00	460900.48	637579.35	N 32 16 0.14	W 104 1 19.05
	10700.00	90.00	360.00	6400.00	4366.13	4313.33	-4039.99	0.00	461000.47	637579.35	N 32 16 1.13	W 104 1 19.05
	10800.00	90.00	360.00	6400.00	4465.62	4413.33	-4139.99	0.00	461100.46	637579.34	N 32 16 2.12	W 104 1 19.05
	10900.00	90.00	360.00	6400.00	4565.10	4513.33	-4239.99	0.00	461200.46	637579.34	N 32 16 3.11	W 104 1 19.05
	11000.00	90.00	360.00	6400.00	4664.59	4613.33	-4339.99	0.00	461300.45	637579.33	N 32 16 4.10	W 104 1 19.04
	11100.00	90.00	360.00	6400.00	4764.07	4713.33	-4439.99	0.00	461400.44	637579.33	N 32 16 5.09	W 104 1 19.04
	11200.00	90.00	360.00	6400.00	4863.56	4813.33	-4539.99	0.00	461500.43	637579.32	N 32 16 6.08	W 104 1 19.04
	11300.00	90.00	360.00	6400.00	4963.04	4913.33	-4639.99	0.00	461600.42	637579.32	N 32 16 7.07	W 104 1 19.03
	11400.00	90.00	360.00	6400.00	5062.53	5013.33	-4739.99	0.00	461700.41	637579.31	N 32 16 8.06	W 104 1 19.03
	11500.00	90.00	360.00	6400.00	5162.01	5113.33	-4839.99	0.00	461800.41	637579.31	N 32 16 9.05	W 104 1 19.03
	11600.00	90.00	360.00	6400.00	5261.50	5213.33	-4939.99	0.00	461900.40	637579.30	N 32 16 10.04	W 104 1 19.02
	11700.00	90.00	360.00	6400.00	5360.99	5313.33	-5039.99	0.00	462000.39	637579.30	N 32 16 11.03	W 104 1 19.02
	11800.00	90.00	360.00	6400.00	5460.47	5413.33	-5139.99	0.00	462100.38	637579.29	N 32 16 12.02	W 104 1 19.02
	11900.00	90.00	360.00	6400.00	5559.96	5513.33	-5239.99	0.00	462200.37	637579.29	N 32 16 13.01	W 104 1 19.01
	12000.00	90.00	360.00	6400.00	5659.44	5613.33	-5339.99	0.00	462300.36	637579.28	N 32 16 14.00	W 104 1 19.01
	12100.00	90.00	360.00	6400.00	5758.93	5713.33	-5439.99	0.00	462400.36	637579.28	N 32 16 14.99	W 104 1 19.01
	12200.00	90.00	360.00	6400.00	5858.41	5813.33	-5539.99	0.00	462500.35	637579.27	N 32 16 15.98	W 104 1 19.00
	12300.00	90.00	360.00	6400.00	5957.90	5913.33	-5639.99	0.00	462600.34	637579.27	N 32 16 16.96	W 104 1 18.99
	12400.00	90.00	360.00	6400.00	6057.38	6013.33	-5739.99	0.00	462700.33	637579.26	N 32 16 17.95	W 104 1 18.99
	12500.00	90.00	360.00	6400.00	6156.87	6113.33	-5839.99	0.00	462800.32	637579.26	N 32 16 18.94	W 104 1 18.99
	12600.00	90.00	360.00	6400.00	6256.35	6213.33	-5939.99	0.00	462900.32	637579.25	N 32 16 19.93	W 104 1 18.99
	12700.00	90.00	360.00	6400.00	6355.84	6313.33	-6039.99	0.00	463000.31	637579.25	N 32 16 20.92	W 104 1 18.99
	12800.00	90.00	360.00	6400.00	6455.33	6413.33	-6139.99	0.00	463100.30	637579.24	N 32 16 21.91	W 104 1 18.98
	12900.00	90.00	360.00	6400.00	6554.81	6513.33	-6239.99	0.00	463200.29	637579.24	N 32 16 22.90	W 104 1 18.98
	13000.00	90.00	360.00	6400.00	6654.30	6613.33	-6339.99	0.00	463300.28	637579.23	N 32 16 23.89	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	13800.00	90.00	380.00	6400.00	7251.21	7213.33	-740.26	0.00	483900.23	837579.20	N 32 18 29.83	W 104 1 18.96
Devon Harroun Trust 31-30 #4H PBHL	13851.87	90.00	380.00	6400.00	7302.81	7265.20	-740.26	0.00	483952.10	837579.20	N 32 18 30.34	W 104 1 18.95

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 "" 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	25.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Devon Harroun Trust 31-30 #4H REV0
	25.000	13851.871	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Devon Harroun Trust 31-30 #4H REV0

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	CI-CI (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Chevron Padua Farms AV 28-1H Gyro-MWD Only OR to 13100R (Def Survey)													
	18281.52	32.81	18258.57	18228.71	39973.71	MAS = 10.00 (m)	0.00	0.00				Pass	
	18188.82	43.21	18158.28	18148.71	898.58	OSF 1.50	4780.00	4780.00				Surface	
	18188.82	44.25	18158.48	18144.57	581.30	OSF 1.50	4870.00	4870.00				MinPt-CICI	
	18188.87	44.80	18158.27	18144.17	574.10	OSF 1.50	5070.00	5070.00				MINPT-O-EOU	
	13150.50	245.87	12984.40	12813.72	81.53	OSF 1.50	13651.87	8400.00				MinPs	
Survey-Chevron Heritage 2-15 #1H Gyro-MWD OR to 12302R (Def Survey)													
	23851.85	32.81	23842.71	23818.84	3718.71	MAS = 10.00 (m)	0.00	0.00				Pass	
	23847.36	73.22	23807.71	23874.14	507.87	OSF 1.50	870.00	870.00				Surface	
	23848.83	82.56	23822.76	23888.07	448.83	OSF 1.50	1240.00	1240.00				MinPt-CICI	
	23811.54	194.03	23781.35	23717.51	187.28	OSF 1.50	3680.00	3680.00				MinPs	
	23811.54	183.79	23781.50	23717.74	187.51	OSF 1.50	3710.00	3710.00				MinPt-CICI	
	19124.01	810.84	18781.34	18613.07	98.81	OSF 1.50	13651.87	8400.00				MinPs	
Chevron Heritage 2-15 #1H Gyro OR to 8448R MD (Def Survey)													
	23851.85	32.81	23842.71	23818.84	3718.71	MAS = 10.00 (m)	0.00	0.00				Pass	
	23847.36	73.22	23807.71	23874.14	507.87	OSF 1.50	870.00	870.00				Surface	
	23848.83	82.56	23822.76	23888.07	448.83	OSF 1.50	1240.00	1240.00				MinPt-CICI	
	23811.54	194.03	23781.35	23717.51	187.28	OSF 1.50	3680.00	3680.00				MinPs	
	23811.54	183.79	23781.50	23717.74	187.51	OSF 1.50	3710.00	3710.00				MinPt-CICI	
	19138.83	814.80	18784.30	18624.83	58.42	OSF 1.50	13651.87	8400.00				MinPs	
Chevron Hymeyer A-3 Offset Inclination only OR to 8450R (Def Survey)													
	25207.44	32.81	25204.83	25174.83	82577.00	MAS = 10.00 (m)	0.00	0.00				Pass	
	20188.80	1237.16	18389.87	18598.94	24.81	OSF 1.50	13651.87	8400.00				MinPs	
Chevron Hymeyer 1 Offset Gyro OR to 8003R (Def Survey)													
	25837.41	32.81	25834.73	25804.80	144885.80	MAS = 10.00 (m)	0.00	0.00				Pass	
	20497.38	188.98	20381.79	20297.37	159.05	OSF 1.50	13651.87	8400.00				Surface	
Chevron Heritage 2-15 #2H Rev1 MOT 10-OCT-12 (Def Plan)													
	25214.87	32.81	25212.25	25182.08	205028.12	MAS = 10.00 (m)	0.00	0.00				Pass	
	20718.24	221.31	20568.74	20498.83	144.22	OSF 1.50	13651.87	8400.00				Surface	
Chevron Hymeyer A-2 Offset Inclination only OR to 8148R (Def Survey)													
	26095.00	32.81	26092.08	26062.15	83138.00	MAS = 10.00 (m)	0.00	0.00				Pass	
	28110.08	81.83	28067.87	28048.16	858.99	OSF 1.50	1310.00	1310.00				MinPs	
	20778.51	1078.83	20054.45	19888.88	29.04	OSF 1.50	13651.87	8400.00				MINPT-O-EOU	
Chevron Hymeyer A-1 Offset Inclination Only OR to 8380R (Def Survey)													
	27024.80	32.81	27021.86	26991.88	81604.35	MAS = 10.00 (m)	0.00	0.00				Pass	
	21578.41	833.76	21018.25	20742.85	39.13	OSF 1.50	13651.87	8400.00				MinPs	
Chickasaw PLU Big Shins 28 Federal 1H Rev0 L0H 22-Sep-09 (Def Plan)													
	30689.28	107.45	30585.92	30561.81	581.31	OSF 1.50	0.00	0.00				Pass	
	39834.25	114.11	39805.83	39820.14	543.83	OSF 1.50	5800.00	5858.98				Surface	
	38134.11	114.81	38055.41	38019.30	541.85	OSF 1.50	8000.00	6280.35				MinPs	
	45564.19	138.84	45478.22	45424.50	486.32	OSF 1.50	13651.87	8400.00				MINPT-O-EOU	
Survey City Devon 8 Fee 2H Gyro-MWD OR to 12121R (Def Survey)													
	48424.05	32.81	48420.82	48381.24	86205.88	MAS = 10.00 (m)	0.00	0.00				Pass	
	48422.92	32.81	48418.82	48380.11	32418.03	MAS = 10.00 (m)	360.00	360.00				Surface	
	48408.86	32.81	48393.29	48373.85	4438.79	MAS = 10.00 (m)	2240.00	2240.00				MinPs	
	48407.12	32.81	48392.79	48374.31	4080.05	MAS = 10.00 (m)	2470.00	2470.00				MINPT-O-EOU	
	48407.20	32.81	48392.82	48374.40	4074.19	MAS = 10.00 (m)	2490.00	2490.00				MINPT-O-EOU	
	48408.86	32.81	48390.23	48373.87	3471.46	MAS = 10.00 (m)	2980.00	2980.00				MinPs	
	48407.89	32.81	48389.18	48374.88	3018.01	MAS = 10.00 (m)	3530.00	3530.00				MINPT-O-EOU	
	48408.93	32.81	48388.66	48378.12	2724.77	MAS = 10.00 (m)	3990.00	3990.00				MINPT-O-EOU	
	48415.22	34.80	48389.12	48380.32	2241.19	OSF 1.50	4920.00	4920.00				MinPs	
	48420.48	38.60	48388.17	48380.79	1953.37	OSF 1.50	5610.00	5610.00				MINPT-O-ADP	
	54384.37	143.52	54297.88	54250.85	878.56	OSF 1.50	13651.87	8400.00				MinPs	