

HOBBS OCD

APR 27 2016

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5D Anti-Collision Report**Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Coachwhip 26 Fed 4H, 6H, 8H Pad***Well Name:** *Coachwhip 26 Fed 6H*

08 May 2015

**Weatherford®**



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Coachwhip 26 Fed 6H

Field Name Lea Co, NM Nad 83 NMEZ	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 Coachwhip 26 Fed 4H, 6H, 8H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.43	
	Position	Northing : 467236.68 US ft	Latitude : 32° 16' 55.16"	
		Easting : 787875.60 US ft	Longitude : -103° 32' 8.08"	
Elevation above Mean Sea Level: 3662.00 US ft				
Comment :				
Slot Name Coachwhip 26 Fed 6H	Position (Offsets relative to Site Centre)			
	+N / -S : ±0.27 US ft	Northing : 467236.41 US ft	Latitude : 32° 16' 55.16"	
	+E / -W : ±50.03 US ft	Easting : 787825.57 US ft	Longitude : -103° 32' 8.67"	
Slot TVD Reference : Ground Elevation				
Elevation above Mean Sea Level : 3662.00 US ft				
Comment :				
Well Name Coachwhip 26 Fed 6H	Type : Main well	UWI :	Plan : Working Plan	
	Rig Height US ft	Well TVD Reference : 25.00	Comment :	
	Relative to Mean Sea Level: 3687.00 US ft			
	Closure Distance : 4628.84 US ft	Closure Azimuth : 180.522°		
	Vertical Section (Position of Origin Relative to Slot)			
		+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 179.53°
Magnetic Parameters				
Model : BGGM	Field Strength : 48183.1nT	Dec : 7.23°	Dip : 60.13°	Date : 15/Oct/2015

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Coachwhip 26 Fed 6H (p)	0.00	14444.18	100.00	2

Secondary Well Names

Coachwhip 26 Federal 1H (s)
Coachwhip 26 Fed 8H (p)
Coachwhip 26 Fed 4H (p)

Anti-Collision Report Terminology

S.Minor, S.Major : Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.

PHI : Angle between high-side vector and semi-minor axis

TVD Spread : Total TVD range of the ellipsoid of uncertainty at the current location

ES : Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr

T.Face to Sec : Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

5D Anti-Collision Report

Separation factors calculated using Pedal Curve (Independent Uncertainty). Well path created using minimum curvature.

Anti Collision Proximity Summary (TVD relative to Well TVD Reference)

Secondary Well Name	Pr MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Coachwhip 26 Fed 4H (p)	5558.01	5557.59	5558.01	51.00	25.53	2.00	
Coachwhip 26 Fed 8H (p)	5300.00	5300.00	5300.00	49.97	25.64	2.05	
Coachwhip 26 Federal 1H (s)	14444.18	10021.58	9997.00	597.84	494.75	5.80	

Primary Well : Coachwhip 26 Fed 6H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	269.78	0.00	0.00	Coachwhip 26 Fed 8H (p)	49.97	48.85	44.67	
100.00	100.00	269.78	0.11	0.11	Coachwhip 26 Fed 8H (p)	49.97	48.63	37.31	
200.00	200.00	269.78	0.34	0.34	Coachwhip 26 Fed 8H (p)	49.97	48.18	27.93	
300.00	300.00	269.78	0.56	0.56	Coachwhip 26 Fed 8H (p)	49.97	47.73	22.32	
400.00	400.00	269.78	0.79	0.79	Coachwhip 26 Fed 8H (p)	49.97	47.28	18.59	
500.00	500.00	269.78	1.01	1.01	Coachwhip 26 Fed 8H (p)	49.97	46.83	15.93	
600.00	600.00	269.78	1.24	1.24	Coachwhip 26 Fed 8H (p)	49.97	46.38	13.93	
700.00	700.00	269.78	1.46	1.46	Coachwhip 26 Fed 8H (p)	49.97	45.93	12.38	
800.00	800.00	269.78	1.69	1.69	Coachwhip 26 Fed 8H (p)	49.97	45.48	11.14	
900.00	900.00	269.78	1.91	1.91	Coachwhip 26 Fed 8H (p)	49.97	45.03	10.12	
1000.00	1000.00	269.78	2.14	2.14	Coachwhip 26 Fed 8H (p)	49.97	44.58	9.28	
1100.00	1100.00	269.78	2.36	2.36	Coachwhip 26 Fed 8H (p)	49.97	44.14	8.56	
1200.00	1200.00	269.78	2.59	2.59	Coachwhip 26 Fed 8H (p)	49.97	43.69	7.95	
1300.00	1300.00	269.78	2.81	2.81	Coachwhip 26 Fed 8H (p)	49.97	43.24	7.42	
1400.00	1400.00	269.78	3.03	3.03	Coachwhip 26 Fed 8H (p)	49.97	42.79	6.96	
1500.00	1500.00	269.78	3.26	3.26	Coachwhip 26 Fed 8H (p)	49.97	42.65	6.83	
1600.00	1600.00	269.78	3.48	3.48	Coachwhip 26 Fed 8H (p)	49.97	42.20	6.43	
1700.00	1700.00	269.78	3.71	3.71	Coachwhip 26 Fed 8H (p)	49.97	41.75	6.08	
1800.00	1800.00	269.78	3.93	3.93	Coachwhip 26 Fed 8H (p)	49.97	41.30	5.76	
1900.00	1900.00	269.78	4.16	4.16	Coachwhip 26 Fed 8H (p)	49.97	40.85	5.48	
2000.00	2000.00	269.78	4.38	4.38	Coachwhip 26 Fed 8H (p)	49.97	40.40	5.22	
2100.00	2100.00	269.78	4.61	4.61	Coachwhip 26 Fed 8H (p)	49.97	39.95	4.99	
2200.00	2200.00	269.78	4.83	4.83	Coachwhip 26 Fed 8H (p)	49.97	39.50	4.77	
2300.00	2300.00	269.78	5.06	5.06	Coachwhip 26 Fed 8H (p)	49.97	39.05	4.58	
2400.00	2400.00	269.78	5.28	5.28	Coachwhip 26 Fed 8H (p)	49.97	38.60	4.40	
2500.00	2500.00	269.78	5.51	5.51	Coachwhip 26 Fed 8H (p)	49.97	38.15	4.23	
2600.00	2600.00	269.78	5.73	5.73	Coachwhip 26 Fed 8H (p)	49.97	37.70	4.07	
2700.00	2700.00	269.78	5.96	5.96	Coachwhip 26 Fed 8H (p)	49.97	37.25	3.93	
2800.00	2800.00	269.78	6.18	6.18	Coachwhip 26 Fed 8H (p)	49.97	36.81	3.80	

5D Anti-Collision Report

Primary Well : Coachwhip 26 Fed 6H (p) (TVD Relative to Well TVD Reference; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
2900.00	2900.00	269.78	6.41	6.41	Coachwhip 26 Fed 8H (p)	49.97	36.36	3.67	
3000.00	3000.00	269.78	6.63	6.63	Coachwhip 26 Fed 8H (p)	49.97	35.91	3.55	
3100.00	3100.00	269.78	6.86	6.86	Coachwhip 26 Fed 8H (p)	49.97	35.46	3.44	
3200.00	3200.00	269.78	7.08	7.08	Coachwhip 26 Fed 8H (p)	49.97	35.01	3.34	
3300.00	3300.00	269.78	7.31	7.31	Coachwhip 26 Fed 8H (p)	49.97	34.56	3.24	
3400.00	3400.00	269.78	7.53	7.53	Coachwhip 26 Fed 8H (p)	49.97	34.11	3.15	
3500.00	3500.00	269.78	7.76	7.76	Coachwhip 26 Fed 8H (p)	49.97	33.66	3.06	
3600.00	3600.00	269.78	7.98	7.98	Coachwhip 26 Fed 8H (p)	49.97	33.21	2.98	
3700.00	3700.00	269.78	8.20	8.20	Coachwhip 26 Fed 8H (p)	49.97	32.76	2.90	
3800.00	3800.00	269.78	8.43	8.43	Coachwhip 26 Fed 8H (p)	49.97	32.31	2.83	
3900.00	3900.00	269.78	8.65	8.65	Coachwhip 26 Fed 8H (p)	49.97	31.86	2.76	
4000.00	4000.00	269.78	8.88	8.88	Coachwhip 26 Fed 8H (p)	49.97	31.41	2.69	
4100.00	4100.00	269.78	9.10	9.10	Coachwhip 26 Fed 8H (p)	49.97	30.96	2.63	
4200.00	4200.00	269.78	9.33	9.33	Coachwhip 26 Fed 8H (p)	49.97	30.51	2.57	
4300.00	4300.00	269.78	9.55	9.55	Coachwhip 26 Fed 8H (p)	49.97	30.06	2.51	
4400.00	4400.00	269.78	9.78	9.78	Coachwhip 26 Fed 8H (p)	49.97	29.61	2.45	
4500.00	4500.00	269.78	10.00	10.00	Coachwhip 26 Fed 8H (p)	49.97	29.16	2.40	
4600.00	4600.00	269.78	10.23	10.23	Coachwhip 26 Fed 8H (p)	49.97	28.71	2.35	
4700.00	4700.00	269.78	10.45	10.45	Coachwhip 26 Fed 8H (p)	49.97	28.26	2.30	
4800.00	4800.00	269.78	10.68	10.68	Coachwhip 26 Fed 8H (p)	49.97	27.81	2.26	
4900.00	4900.00	269.78	10.90	10.90	Coachwhip 26 Fed 8H (p)	49.97	27.36	2.21	
5000.00	5000.00	269.78	11.13	11.13	Coachwhip 26 Fed 8H (p)	49.97	26.91	2.17	
5100.00	5100.00	269.78	11.35	11.35	Coachwhip 26 Fed 8H (p)	49.97	26.47	2.13	
5200.00	5200.00	269.78	11.58	11.58	Coachwhip 26 Fed 8H (p)	49.97	26.09	2.09	
5300.00	5300.00	269.78	11.80	11.80	Coachwhip 26 Fed 8H (p)	49.97	25.64	2.05	
5400.00	5400.00	88.70	12.03	12.03	Coachwhip 26 Fed 4H (p)	50.13	25.40	2.03	
5500.00	5500.00	85.76	12.25	12.25	Coachwhip 26 Fed 4H (p)	50.53	25.35	2.01	
5600.00	5600.00	81.00	12.48	12.48	Coachwhip 26 Fed 4H (p)	51.49	25.83	2.01	
5700.00	5700.00	74.70	12.70	12.70	Coachwhip 26 Fed 4H (p)	53.39	27.32	2.05	
5800.00	5800.00	67.37	12.93	12.93	Coachwhip 26 Fed 4H (p)	56.71	30.22	2.14	
5900.00	5900.00	59.97	13.15	13.15	Coachwhip 26 Fed 4H (p)	60.55	33.60	2.25	
6000.00	6000.00	52.99	13.37	13.37	Coachwhip 26 Fed 4H (p)	63.63	36.26	2.33	
6100.00	6100.00	46.04	13.60	13.60	Coachwhip 26 Fed 4H (p)	65.98	38.18	2.37	
6200.00	6200.00	38.87	13.82	13.82	Coachwhip 26 Fed 4H (p)	67.81	39.57	2.40	
6300.00	6300.00	31.94	14.05	14.05	Coachwhip 26 Fed 4H (p)	70.24	41.55	2.45	
6400.00	6400.00	25.55	14.27	14.27	Coachwhip 26 Fed 4H (p)	73.63	44.53	2.53	

SD Anti-Collision Report

Primary Well : Coachwhip 26 Fed 6H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CG (US ft)	ES (US ft)	SF	Risk
6500.00	6500.00	19.79	14.50	14.50	Coachwhip 26 Fed 4H (p)	77.85	48.29	2.63	
6600.00	6600.00	14.67	14.72	14.72	Coachwhip 26 Fed 4H (p)	82.78	52.79	2.76	
6700.00	6700.00	10.14	14.95	14.95	Coachwhip 26 Fed 4H (p)	88.29	57.86	2.90	
6800.00	6800.00	6.17	15.17	15.17	Coachwhip 26 Fed 4H (p)	94.29	63.42	3.05	
6900.00	6900.00	2.69	15.40	15.40	Coachwhip 26 Fed 4H (p)	100.68	69.35	3.21	
7000.00	7000.00	359.63	15.62	15.62	Coachwhip 26 Fed 4H (p)	107.40	75.63	3.38	
7100.00	7100.00	356.94	15.85	15.85	Coachwhip 26 Fed 4H (p)	114.40	82.23	3.56	
7200.00	7200.00	354.56	16.07	16.07	Coachwhip 26 Fed 4H (p)	121.61	89.00	3.73	
7300.00	7300.00	352.45	16.30	16.30	Coachwhip 26 Fed 4H (p)	129.01	95.90	3.90	
7400.00	7400.00	350.57	16.52	16.52	Coachwhip 26 Fed 4H (p)	136.57	103.00	4.07	
7500.00	7500.00	348.89	16.75	16.75	Coachwhip 26 Fed 4H (p)	144.25	110.26	4.24	
7600.00	7600.00	347.38	16.97	16.97	Coachwhip 26 Fed 4H (p)	152.05	117.65	4.42	
7700.00	7700.00	346.02	17.20	17.20	Coachwhip 26 Fed 4H (p)	159.94	125.14	4.60	
7800.00	7800.00	344.78	17.42	17.42	Coachwhip 26 Fed 4H (p)	167.92	132.67	4.76	
7900.00	7900.00	343.66	17.65	17.65	Coachwhip 26 Fed 4H (p)	175.96	140.22	4.92	
8000.00	8000.00	342.64	17.87	17.87	Coachwhip 26 Fed 4H (p)	184.07	147.85	5.08	
8100.00	8100.00	341.73	18.10	18.10	Coachwhip 26 Fed 4H (p)	191.86	155.18	5.23	
8200.00	8200.00	340.98	18.32	18.32	Coachwhip 26 Fed 4H (p)	198.87	161.77	5.36	
8300.00	8300.00	340.35	18.54	18.54	Coachwhip 26 Fed 4H (p)	205.07	167.56	5.47	
8400.00	8400.00	339.85	18.77	18.77	Coachwhip 26 Fed 4H (p)	210.46	172.54	5.55	
8500.00	8500.00	339.44	18.99	18.99	Coachwhip 26 Fed 4H (p)	215.02	176.69	5.61	
8600.00	8600.00	339.12	19.22	19.22	Coachwhip 26 Fed 4H (p)	218.74	180.01	5.65	
8700.00	8700.00	338.87	19.44	19.44	Coachwhip 26 Fed 4H (p)	221.62	182.49	5.66	
8800.00	8800.00	338.71	19.67	19.67	Coachwhip 26 Fed 4H (p)	223.66	184.13	5.66	
8900.00	8900.00	338.61	19.89	19.89	Coachwhip 26 Fed 4H (p)	224.84	184.91	5.63	
9000.00	9000.00	338.59	20.12	20.12	Coachwhip 26 Fed 4H (p)	225.19	184.85	5.58	
9100.00	9100.00	338.59	20.34	20.34	Coachwhip 26 Fed 4H (p)	225.19	184.42	5.52	
9200.00	9200.00	338.59	20.57	20.57	Coachwhip 26 Fed 4H (p)	225.19	183.97	5.46	
9300.00	9300.00	338.59	20.79	20.79	Coachwhip 26 Fed 4H (p)	225.19	183.53	5.41	
9400.00	9400.00	338.59	21.02	21.02	Coachwhip 26 Fed 4H (p)	225.19	183.08	5.35	
9500.00	9500.00	338.59	21.24	21.24	Coachwhip 26 Fed 4H (p)	225.19	182.63	5.29	
9600.00	9599.80	147.98	21.44	21.26	Coachwhip 26 Fed 4H (p)	228.87	185.92	5.33	
9700.00	9696.77	149.60	21.60	20.85	Coachwhip 26 Fed 4H (p)	249.33	205.88	5.74	
9800.00	9786.68	151.55	21.76	19.95	Coachwhip 26 Fed 4H (p)	288.03	244.29	6.59	
9900.00	9865.62	152.66	21.95	18.68	Coachwhip 26 Fed 4H (p)	344.46	300.33	7.80	
10000.00	9930.14	151.77	22.17	17.24	Coachwhip 26 Fed 4H (p)	416.67	372.20	9.37	

5D Anti-Collision Report

Primary Well: Coachwhip 26 Fed 6H (p) (TVD Relative to Well TVD Reference; All Azimuth Relative to GRID NORTH)									
MD (US.ft)	TVD (US.ft)	T Face to Sec (°)	S Major (US.ft)	S Minor (US.ft)	Nearest Well	CC (US.ft)	ES (US.ft)	SF	Risk
10100.00	9977.41	146.83	22.56	16.00	Coachwhip 26 Fed 4H (p)	501.47	456.86	11.24	
10200.00	10006.24	28.56	23.00	15.21	Coachwhip 26 Fed 8H (p)	429.39	394.88	12.44	
10300.00	10017.13	28.05	23.59	15.01	Coachwhip 26 Fed 8H (p)	430.45	395.90	12.46	
10400.00	10016.77	27.48	24.26	15.16	Coachwhip 26 Fed 8H (p)	428.26	393.15	12.20	
10500.00	10016.28	26.90	25.03	15.35	Coachwhip 26 Fed 8H (p)	426.03	390.33	11.93	
10600.00	10015.79	26.31	25.89	15.57	Coachwhip 26 Fed 8H (p)	423.84	387.45	11.65	
10700.00	10015.30	25.72	26.87	15.82	Coachwhip 26 Fed 8H (p)	421.70	384.54	11.35	
10800.00	10014.81	25.12	27.97	16.10	Coachwhip 26 Fed 8H (p)	419.60	381.62	11.05	
10900.00	10014.32	24.51	29.14	16.41	Coachwhip 26 Fed 8H (p)	417.55	378.70	10.75	
11000.00	10013.83	23.89	30.37	16.74	Coachwhip 26 Fed 8H (p)	415.55	375.79	10.45	
11100.00	10013.35	23.28	31.65	17.10	Coachwhip 26 Fed 8H (p)	413.59	372.92	10.17	
11200.00	10012.86	22.65	32.99	17.47	Coachwhip 26 Fed 8H (p)	411.69	370.04	9.89	
11300.00	10012.37	22.02	34.37	17.87	Coachwhip 26 Fed 8H (p)	409.83	367.21	9.62	
11400.00	10011.88	21.38	35.79	18.28	Coachwhip 26 Fed 8H (p)	408.02	364.43	9.36	
11500.00	10011.39	20.74	37.25	18.71	Coachwhip 26 Fed 8H (p)	406.27	361.71	9.12	
11600.00	10010.90	20.10	38.74	19.20	Coachwhip 26 Fed 8H (p)	404.56	359.06	8.89	
11700.00	10010.41	19.44	40.25	19.70	Coachwhip 26 Fed 8H (p)	402.91	356.45	8.67	
11800.00	10009.92	18.79	41.79	20.22	Coachwhip 26 Fed 8H (p)	401.31	353.85	8.46	
11900.00	10009.44	18.12	43.36	20.72	Coachwhip 26 Fed 8H (p)	399.77	351.37	8.26	
12000.00	10008.95	17.46	44.94	21.21	Coachwhip 26 Fed 8H (p)	398.28	348.98	8.08	
12100.00	10008.46	16.78	46.54	21.71	Coachwhip 26 Fed 8H (p)	396.84	346.53	7.89	
12200.00	10007.97	16.10	48.16	22.33	Coachwhip 26 Fed 8H (p)	395.46	344.33	7.73	
12300.00	10007.48	15.42	49.79	22.88	Coachwhip 26 Fed 8H (p)	394.13	342.02	7.56	
12400.00	10006.99	14.74	51.43	23.45	Coachwhip 26 Fed 8H (p)	392.86	339.79	7.40	
12500.00	10006.50	14.04	53.09	23.97	Coachwhip 26 Fed 8H (p)	391.65	337.71	7.26	
12600.00	10006.01	13.35	54.76	24.61	Coachwhip 26 Fed 8H (p)	390.50	335.65	7.12	
12700.00	10005.53	12.65	56.44	25.19	Coachwhip 26 Fed 8H (p)	389.40	333.71	6.99	
12800.00	10005.04	11.95	58.12	25.77	Coachwhip 26 Fed 8H (p)	388.36	331.85	6.87	
12900.00	10004.55	11.24	59.82	26.34	Coachwhip 26 Fed 8H (p)	387.38	330.07	6.76	
13000.00	10004.06	10.53	61.52	26.93	Coachwhip 26 Fed 8H (p)	386.46	328.30	6.64	
13100.00	10003.57	9.82	63.23	27.54	Coachwhip 26 Fed 8H (p)	385.60	326.51	6.53	
13200.00	10003.08	9.10	64.95	28.18	Coachwhip 26 Fed 8H (p)	384.80	324.75	6.41	
13300.00	10002.59	8.38	66.67	28.82	Coachwhip 26 Fed 8H (p)	384.06	323.08	6.30	
13400.00	10002.10	7.66	68.40	29.47	Coachwhip 26 Fed 8H (p)	383.38	321.51	6.20	
13500.00	10001.61	6.93	70.13	30.11	Coachwhip 26 Fed 8H (p)	382.76	320.03	6.10	
13600.00	10001.13	6.21	71.87	30.76	Coachwhip 26 Fed 8H (p)	382.21	318.60	6.01	

5D Anti-Collision Report

Primary Well: Coachwhip 26 Fed 6H (p) (TVD Relative to Well TVD Reference; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
13700.00	10000.64	5.48	73.61	31.41	Coachwhip 26 Fed 8H (p)	381.71	317.10	5.91	
13800.00	10000.15	4.75	75.36	32.06	Coachwhip 26 Fed 8H (p)	381.28	315.57	5.80	
13900.00	9999.66	4.01	77.11	32.72	Coachwhip 26 Fed 8H (p)	380.91	314.13	5.70	
14000.00	9999.17	3.28	78.86	33.38	Coachwhip 26 Fed 8H (p)	380.60	312.76	5.61	
14100.00	9998.68	2.55	80.62	34.04	Coachwhip 26 Fed 8H (p)	380.36	311.48	5.52	
14200.00	9998.19	1.81	82.38	34.71	Coachwhip 26 Fed 8H (p)	380.18	310.24	5.44	
14300.00	9997.70	1.08	84.14	35.37	Coachwhip 26 Fed 8H (p)	380.06	308.83	5.34	
14400.00	9997.22	0.34	85.91	36.04	Coachwhip 26 Fed 8H (p)	380.00	307.41	5.24	
14444.18	9997.00	0.01	86.69	36.34	Coachwhip 26 Fed 8H (p)	380.00	306.81	5.19	

Secondary Well: Coachwhip 26 Federal 1H (s) (TVD Relative to Well TVD Reference (Primary); All Azimuth Relative to GRID NORTH)									
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	10.00	0.00	193.17	0.00	0.00	4875.35	4874.23	4357.95	
100.00	105.25	95.25	193.17	0.14	0.14	4875.29	4873.92	3563.88	
200.00	209.14	199.14	193.18	0.28	0.28	4875.13	4873.39	2809.45	
300.00	304.82	294.82	193.19	0.47	0.47	4874.95	4872.80	2268.31	
400.00	399.06	389.07	193.20	0.67	0.67	4874.96	4872.39	1897.26	
500.00	498.54	488.56	193.21	0.88	0.88	4874.97	4871.96	1623.02	
600.00	593.89	583.91	193.22	1.08	1.08	4875.04	4871.61	1421.08	
700.00	688.51	678.54	193.24	1.27	1.27	4875.22	4871.38	1269.71	
800.00	790.61	780.64	193.25	1.47	1.47	4875.45	4871.18	1141.81	
900.00	888.14	878.18	193.26	1.68	1.67	4875.66	4870.97	1038.34	
1000.00	996.77	986.81	193.27	1.91	1.91	4875.77	4870.62	946.71	
1100.00	1087.48	1077.52	193.28	2.10	2.09	4875.96	4870.40	876.77	
1200.00	1190.30	1180.34	193.29	2.31	2.31	4876.14	4870.14	812.61	
1300.00	1282.95	1273.00	193.30	2.50	2.50	4876.41	4869.99	759.98	
1400.00	1387.84	1377.90	193.30	2.65	2.65	4876.76	4869.97	718.08	
1500.00	1500.86	1490.92	193.31	2.78	2.77	4876.88	4870.05	714.24	
1600.00	1605.40	1595.46	193.31	2.84	2.83	4876.77	4869.65	684.88	
1700.00	1719.31	1709.36	193.31	2.89	2.88	4876.50	4869.11	660.34	
1800.00	1804.51	1794.57	193.31	2.93	2.92	4876.26	4868.61	637.69	
1900.00	1913.53	1903.59	193.31	3.00	2.99	4876.00	4868.06	613.89	
2000.00	1989.71	1979.77	193.31	3.05	3.04	4875.97	4867.74	592.74	
2100.00	2087.15	2077.21	193.32	3.13	3.13	4876.21	4867.68	571.46	
2200.00	2188.70	2178.76	193.31	3.23	3.23	4876.47	4867.62	550.65	
2300.00	2309.19	2299.25	193.31	3.37	3.35	4876.45	4867.24	529.48	
2400.00	2413.25	2403.31	193.31	3.49	3.49	4876.20	4866.65	510.15	
2500.00	2507.53	2497.59	193.31	3.62	3.60	4875.96	4866.05	492.41	
2600.00	2605.84	2595.90	193.30	3.75	3.73	4875.88	4865.62	474.91	
2700.00	2747.53	2737.59	193.30	3.95	3.93	4875.46	4864.77	456.08	
2800.00	2865.15	2855.23	193.29	4.13	4.12	4874.24	4863.16	439.55	
2900.00	2957.86	2947.94	193.28	4.28	4.27	4872.96	4861.48	424.71	
3000.00	3042.26	3032.35	193.27	4.41	4.41	4871.94	4860.11	411.82	
3100.00	3138.33	3128.42	193.26	4.56	4.56	4871.14	4858.94	399.44	
3200.00	3245.04	3235.14	193.26	4.73	4.73	4870.21	4857.61	386.40	
3300.00	3332.83	3322.94	193.26	4.88	4.88	4869.44	4856.47	375.36	
3400.00	3428.63	3418.74	193.26	5.05	5.04	4868.76	4855.41	364.69	
3500.00	3508.12	3498.22	193.26	5.18	5.18	4868.40	4854.68	354.79	
3600.00	3613.58	3603.69	193.26	5.37	5.37	4868.17	4854.03	344.34	
3700.00	3714.55	3704.66	193.26	5.56	5.55	4867.88	4853.34	334.59	
3800.00	3823.02	3813.13	193.25	5.76	5.76	4867.53	4852.56	325.19	
3900.00	3933.24	3923.37	193.23	5.97	5.96	4866.92	4851.51	315.88	

5D Anti-Collision Report

Secondary Well : Coachwhip 26 Federal 1H(s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	IT Face to Sec (°)	S Major (US.ft)	S Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
4000.00	4038.32	4028.52	193.18	6.17	6.16	4866.19	4850.36	307.54	
4100.00	4166.88	4157.26	193.11	6.42	6.40	4865.17	4848.89	298.74	
4200.00	4341.05	4331.93	192.96	6.77	6.73	4863.18	4846.30	288.04	
4300.00	4418.16	4409.37	192.88	6.93	6.88	4860.45	4843.18	281.42	
4400.00	4483.98	4475.50	192.80	7.07	7.01	4858.35	4840.72	275.52	
4500.00	4551.36	4543.21	192.72	7.21	7.14	4857.00	4839.00	269.88	
4600.00	4652.54	4644.84	192.61	7.41	7.34	4855.96	4837.54	263.60	
4700.00	4769.50	4762.23	192.50	7.65	7.57	4854.70	4835.82	257.14	
4800.00	4874.64	4867.75	192.39	7.88	7.78	4853.16	4833.84	251.19	
4900.00	4964.92	4958.36	192.30	8.07	7.95	4851.70	4831.97	245.88	
5000.00	5058.62	5052.40	192.21	8.28	8.14	4850.47	4830.31	240.57	
5100.00	5155.70	5149.80	192.12	8.48	8.34	4849.27	4828.67	235.43	
5200.00	5241.98	5236.29	192.05	8.66	8.51	4848.23	4827.26	231.21	
5300.00	5334.91	5329.40	191.98	8.86	8.69	4847.52	4826.26	227.97	
5400.00	5497.58	5492.57	191.83	9.23	9.01	4846.32	4824.46	221.71	
5500.00	5593.61	5589.03	191.72	9.45	9.21	4844.36	4822.04	217.11	
5600.00	5695.92	5691.80	191.61	9.69	9.43	4842.35	4819.57	212.60	
5700.00	5777.93	5774.16	191.52	9.88	9.59	4840.57	4817.38	208.73	
5800.00	5881.10	5877.75	191.42	10.12	9.80	4838.91	4815.25	204.59	
5900.00	5973.92	5970.91	191.32	10.33	9.99	4837.30	4813.21	200.82	
6000.00	6076.31	6073.66	191.22	10.56	10.20	4835.84	4811.29	196.99	
6100.00	6206.08	6203.95	191.09	10.87	10.47	4833.78	4808.70	192.76	
6200.00	6297.98	6296.21	191.00	11.08	10.66	4831.64	4806.12	189.35	
6300.00	6393.62	6392.18	190.90	11.31	10.86	4829.69	4803.72	185.99	
6400.00	6490.72	6489.72	190.80	11.54	11.06	4827.77	4801.34	182.68	
6500.00	6587.38	6586.77	190.69	11.78	11.26	4825.93	4799.04	179.51	
6600.00	11321.28	15767.00	269.27	83.86	39.20	4730.90	4682.18	97.12	
6700.00	11321.28	15767.00	269.27	83.86	39.20	4631.11	4582.22	94.74	
6800.00	11321.28	15767.00	269.27	83.86	39.20	4531.32	4482.27	92.37	
6900.00	11321.28	15767.00	269.27	83.86	39.20	4431.55	4382.32	90.01	
7000.00	11321.28	15767.00	269.27	83.86	39.20	4331.79	4282.37	87.66	
7100.00	11321.28	15767.00	269.27	83.86	39.20	4232.04	4182.44	85.33	
7200.00	11321.28	15767.00	269.27	83.86	39.20	4132.30	4082.51	83.01	
7300.00	11321.28	15767.00	269.27	83.86	39.20	4032.57	3982.60	80.69	
7400.00	11321.28	15767.00	269.27	83.86	39.20	3932.86	3882.69	78.39	
7500.00	11321.28	15767.00	269.27	83.86	39.20	3833.16	3782.79	76.11	
7600.00	11321.28	15767.00	269.27	83.86	39.20	3733.48	3682.91	73.83	
7700.00	11321.28	15767.00	269.27	83.86	39.20	3633.81	3583.04	71.57	
7800.00	11321.28	15767.00	269.27	83.86	39.20	3534.17	3483.19	69.33	
7900.00	11321.28	15767.00	269.27	83.86	39.20	3434.54	3383.35	67.09	
8000.00	11321.28	15767.00	269.27	83.86	39.20	3334.94	3283.53	64.87	
8100.00	11321.28	15767.00	269.27	83.86	39.20	3235.36	3183.73	62.66	
8200.00	11321.28	15767.00	269.27	83.86	39.20	3135.81	3083.94	60.46	
8300.00	11321.28	15767.00	269.27	83.86	39.20	3036.29	2984.15	58.23	
8400.00	11321.28	15767.00	269.27	83.86	39.20	2936.80	2884.37	56.02	
8500.00	11321.28	15767.00	269.27	83.86	39.20	2837.35	2784.63	53.82	
8600.00	11321.28	15767.00	269.27	83.86	39.20	2737.94	2684.92	51.64	
8700.00	11321.28	15767.00	269.27	83.86	39.20	2638.57	2585.24	49.48	
8800.00	11321.28	15767.00	269.27	83.86	39.20	2539.25	2485.60	47.33	
8900.00	11321.28	15767.00	269.27	83.86	39.20	2439.99	2386.00	45.20	
9000.00	11321.28	15767.00	269.27	83.86	39.20	2340.78	2286.46	43.09	
9100.00	11321.28	15767.00	269.27	83.86	39.20	2241.66	2186.98	41.00	
9200.00	11321.28	15767.00	269.27	83.86	39.20	2142.61	2087.56	38.92	
9300.00	11321.28	15767.00	269.27	83.86	39.20	2043.65	1988.22	36.87	
9400.00	11321.28	15767.00	269.27	83.86	39.20	1944.80	1888.97	34.83	
9500.00	11321.28	15767.00	269.27	83.86	39.20	1846.08	1789.82	32.82	
9600.00	11321.28	15764.01	120.35	83.81	39.18	1747.54	1690.88	30.84	
9700.00	11321.28	15740.78	149.54	83.43	39.03	1651.26	1594.37	29.03	

SD Anti-Collision Report

Secondary Well: Coachwhip 26 Federal 1H (S) (TVD Relative to Well TVD Reference (Primary); All Azimuth Relative to GRID NORTH)									
Pri MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	T Face to Sec (°)	S Major (US.ft)	S Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
9800.00	11321.28	15699.09	159.64	82.75	38.75	1561.28	1504.38	27.44	
9900.00	11321.52	15656.15	164.40	82.16	38.47	1481.83	1424.93	26.04	
10000.00	11322.48	15573.94	167.09	80.90	37.94	1416.71	1360.36	25.14	
10100.00	11321.22	15447.51	169.05	78.70	37.11	1366.45	1311.14	24.71	
10200.00	11316.19	15318.75	170.03	76.61	36.25	1331.76	1277.52	24.55	
10300.00	11310.23	15212.15	170.05	75.04	35.55	1314.93	1261.33	24.53	
10400.00	11302.75	15096.59	169.86	73.13	34.78	1309.30	1256.32	24.72	
10500.00	11293.73	14981.79	169.67	71.29	34.02	1302.49	1250.09	24.85	
10600.00	11287.59	14904.07	169.51	70.23	33.57	1295.84	1243.54	24.78	
10700.00	11282.02	14815.99	169.28	68.98	33.03	1290.96	1238.82	24.76	
10800.00	11276.81	14731.08	169.01	67.72	32.53	1286.61	1234.54	24.71	
10900.00	11273.33	14652.99	168.74	66.52	32.08	1284.05	1231.90	24.62	
11000.00	11270.70	14569.19	168.46	65.19	31.58	1282.86	1230.62	24.56	
11100.00	11269.22	14488.88	168.17	64.00	31.11	1283.14	1230.75	24.49	
11200.00	11268.44	14395.73	167.84	62.44	30.55	1284.50	1232.07	24.50	
11300.00	11262.89	14239.82	167.38	59.66	29.59	1282.14	1230.40	24.78	
11400.00	11257.49	14125.55	167.07	57.82	28.89	1279.20	1227.68	24.83	
11500.00	11251.83	14026.26	166.80	56.14	28.32	1275.29	1223.74	24.74	
11600.00	11246.79	13930.95	166.55	54.52	27.78	1271.71	1220.06	24.62	
11700.00	11242.50	13838.80	166.34	52.97	27.28	1268.62	1216.84	24.50	
11800.00	11238.57	13741.78	166.15	51.42	26.74	1266.00	1214.13	24.41	
11900.00	11234.35	13638.63	165.95	49.85	26.18	1263.35	1211.46	24.35	
12000.00	11230.65	13545.06	165.77	48.40	25.68	1260.84	1208.80	24.23	
12100.00	11225.16	13425.05	165.56	46.56	25.03	1257.58	1205.58	24.18	
12200.00	11219.37	13319.59	165.32	45.08	24.47	1253.68	1201.55	24.05	
12300.00	11212.13	13209.53	165.04	43.46	23.90	1248.86	1196.68	23.94	
12400.00	11205.54	13114.19	164.77	42.06	23.44	1243.85	1191.39	23.71	
12500.00	11199.61	13019.45	164.52	40.62	23.00	1239.45	1186.60	23.45	
12600.00	11193.01	12913.17	164.24	39.07	22.50	1235.07	1182.04	23.29	
12700.00	11186.20	12813.39	163.96	37.64	22.07	1230.19	1176.90	23.09	
12800.00	11178.26	12700.83	163.65	36.01	21.59	1225.10	1171.57	22.89	
12900.00	11171.39	12608.55	163.39	34.64	21.18	1219.61	1165.68	22.61	
13000.00	11164.68	12510.63	163.14	33.20	20.80	1214.59	1160.20	22.33	
13100.00	11160.13	12432.19	162.96	32.20	20.53	1210.49	1155.60	22.05	
13200.00	11156.21	12339.16	162.79	31.03	20.16	1207.77	1152.40	21.82	
13300.00	11152.92	12247.03	162.66	29.86	19.81	1205.43	1149.59	21.58	
13400.00	11150.95	12164.44	162.58	28.97	19.51	1204.12	1147.73	21.35	
13500.00	11149.81	12072.06	162.46	27.94	19.21	1204.17	1147.26	21.16	
13600.00	9996.12	10007.22	89.98	20.07	18.55	1143.32	1082.84	18.91	
13700.00	9997.80	10008.91	90.15	20.08	18.55	1058.43	994.84	16.65	
13800.00	9999.49	10010.59	90.31	20.08	18.56	976.40	909.09	14.51	
13900.00	10001.17	10012.28	90.48	20.08	18.56	898.03	826.33	12.53	
14000.00	10002.87	10013.98	90.65	20.09	18.56	824.34	747.68	10.75	
14100.00	10004.56	10015.67	90.81	20.09	18.57	756.71	674.49	9.20	
14200.00	10006.26	10017.37	90.98	20.09	18.57	696.90	608.31	7.87	
14300.00	10007.96	10019.07	91.15	20.10	18.57	647.10	552.17	6.82	
14400.00	10009.68	10020.80	91.32	20.10	18.58	609.74	509.07	6.06	
14444.18	10010.46	10021.58	91.40	20.10	18.58	597.84	494.75	5.80	

Secondary Well: Coachwhip 26 Fed 8H (P) (TVD Relative to Well TVD Reference (Primary); All Azimuth Relative to GRID NORTH)									
Pri MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	T Face to Sec (°)	S Major (US.ft)	S Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
0.00	0.00	0.00	269.78	0.00	0.00	49.97	48.85	44.67	
100.00	100.00	100.00	269.78	0.11	0.11	49.97	48.63	37.31	
200.00	200.00	200.00	269.78	0.34	0.34	49.97	48.18	27.93	
300.00	300.00	300.00	269.78	0.56	0.56	49.97	47.73	22.32	
400.00	400.00	400.00	269.78	0.79	0.79	49.97	47.28	18.59	
500.00	500.00	500.00	269.78	1.01	1.01	49.97	46.83	15.93	
600.00	600.00	600.00	269.78	1.24	1.24	49.97	46.38	13.93	

5D Anti-Collision Report

Secondary Well : Coachwhip 26 Fed 8H (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T-Face to Sec (°)	S-Major (US ft)	S-Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
700.00	700.00	700.00	269.78	1.46	1.46	49.97	45.93	12.38	
800.00	800.00	800.00	269.78	1.69	1.69	49.97	45.48	11.14	
900.00	900.00	900.00	269.78	1.91	1.91	49.97	45.03	10.12	
1000.00	1000.00	1000.00	269.78	2.14	2.14	49.97	44.58	9.28	
1100.00	1100.00	1100.00	269.78	2.36	2.36	49.97	44.14	8.56	
1200.00	1200.00	1200.00	269.78	2.59	2.59	49.97	43.69	7.95	
1300.00	1300.00	1300.00	269.78	2.81	2.81	49.97	43.24	7.42	
1400.00	1400.00	1400.00	269.78	3.03	3.03	49.97	42.79	6.96	
1500.00	1500.00	1500.00	269.78	3.26	3.26	49.97	42.65	6.83	
1600.00	1600.00	1600.00	269.78	3.48	3.48	49.97	42.20	6.43	
1700.00	1700.00	1700.00	269.78	3.71	3.71	49.97	41.75	6.08	
1800.00	1800.00	1800.00	269.78	3.93	3.93	49.97	41.30	5.76	
1900.00	1900.00	1900.00	269.78	4.16	4.16	49.97	40.85	5.48	
2000.00	2000.00	2000.00	269.78	4.38	4.38	49.97	40.40	5.22	
2100.00	2100.00	2100.00	269.78	4.61	4.61	49.97	39.95	4.99	
2200.00	2200.00	2200.00	269.78	4.83	4.83	49.97	39.50	4.77	
2300.00	2300.00	2300.00	269.78	5.06	5.06	49.97	39.05	4.58	
2400.00	2400.00	2400.00	269.78	5.28	5.28	49.97	38.60	4.40	
2500.00	2500.00	2500.00	269.78	5.51	5.51	49.97	38.15	4.23	
2600.00	2600.00	2600.00	269.78	5.73	5.73	49.97	37.70	4.07	
2700.00	2700.00	2700.00	269.78	5.96	5.96	49.97	37.25	3.93	
2800.00	2800.00	2800.00	269.78	6.18	6.18	49.97	36.81	3.80	
2900.00	2900.00	2900.00	269.78	6.41	6.41	49.97	36.36	3.67	
3000.00	3000.00	3000.00	269.78	6.63	6.63	49.97	35.91	3.55	
3100.00	3100.00	3100.00	269.78	6.86	6.86	49.97	35.46	3.44	
3200.00	3200.00	3200.00	269.78	7.08	7.08	49.97	35.01	3.34	
3300.00	3300.00	3300.00	269.78	7.31	7.31	49.97	34.56	3.24	
3400.00	3400.00	3400.00	269.78	7.53	7.53	49.97	34.11	3.15	
3500.00	3500.00	3500.00	269.78	7.76	7.76	49.97	33.66	3.06	
3600.00	3600.00	3600.00	269.78	7.98	7.98	49.97	33.21	2.98	
3700.00	3700.00	3700.00	269.78	8.20	8.20	49.97	32.76	2.90	
3800.00	3800.00	3800.00	269.78	8.43	8.43	49.97	32.31	2.83	
3900.00	3900.00	3900.00	269.78	8.65	8.65	49.97	31.86	2.76	
4000.00	4000.00	4000.00	269.78	8.88	8.88	49.97	31.41	2.69	
4100.00	4100.00	4100.00	269.78	9.10	9.10	49.97	30.96	2.63	
4200.00	4200.00	4200.00	269.78	9.33	9.33	49.97	30.51	2.57	
4300.00	4300.00	4300.00	269.78	9.55	9.55	49.97	30.06	2.51	
4400.00	4400.00	4400.00	269.78	9.78	9.78	49.97	29.61	2.45	
4500.00	4500.00	4500.00	269.78	10.00	10.00	49.97	29.16	2.40	
4600.00	4600.00	4600.00	269.78	10.23	10.23	49.97	28.71	2.35	
4700.00	4700.00	4700.00	269.78	10.45	10.45	49.97	28.26	2.30	
4800.00	4800.00	4800.00	269.78	10.68	10.68	49.97	27.81	2.26	
4900.00	4900.00	4900.00	269.78	10.90	10.90	49.97	27.36	2.21	
5000.00	5000.00	5000.00	269.78	11.13	11.13	49.97	26.91	2.17	
5100.00	5100.00	5100.00	269.78	11.35	11.35	49.97	26.47	2.13	
5200.00	5200.00	5200.00	269.78	11.58	11.58	49.97	26.09	2.09	
5300.00	5300.00	5300.00	269.78	11.80	11.80	49.97	25.64	2.05	
5400.00	5399.12	5399.13	269.79	12.01	12.01	50.84	26.10	2.06	
5500.00	5498.15	5498.19	269.80	12.21	12.20	53.43	28.28	2.12	
5600.00	5597.01	5597.14	269.81	12.40	12.38	57.75	32.19	2.26	
5700.00	5695.60	5695.91	269.83	12.60	12.56	63.80	37.84	2.46	
5800.00	5793.83	5794.45	269.85	12.81	12.74	71.56	45.21	2.72	
5900.00	5893.00	5894.00	269.86	13.01	12.94	80.27	53.50	3.00	
6000.00	5992.24	5993.62	269.88	13.22	13.14	88.99	61.79	3.27	
6100.00	6091.48	6093.23	269.89	13.44	13.34	97.70	70.08	3.54	
6200.00	6190.73	6192.85	269.90	13.65	13.55	106.42	78.37	3.79	
6300.00	6289.97	6292.47	269.91	13.87	13.75	115.13	86.66	4.04	
6400.00	6389.21	6392.09	269.91	14.09	13.95	123.85	94.95	4.29	

5D Anti-Collision Report

Secondary Well : Coaschwhip 26 Fed 8H (p) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH									
Pri MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	Face to Sec (°)	S.Major (US.ft)	S.Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
6500.00	6488.45	6491.71	269.92	14.31	14.16	132.56	103.23	4.52	
6600.00	6587.69	6591.33	269.92	14.53	14.36	141.28	111.52	4.75	
6700.00	6686.93	6690.95	269.93	14.76	14.57	150.00	119.80	4.97	
6800.00	6786.17	6790.57	269.93	14.98	14.78	158.71	128.09	5.18	
6900.00	6885.41	6890.19	269.93	15.21	14.99	167.43	136.37	5.39	
7000.00	6984.65	6989.81	269.94	15.44	15.19	176.14	144.66	5.59	
7100.00	7083.89	7089.43	269.94	15.67	15.40	184.86	152.94	5.79	
7200.00	7183.13	7189.05	269.94	15.90	15.61	193.57	161.22	5.98	
7300.00	7282.37	7288.67	269.95	16.13	15.83	202.29	169.50	6.17	
7400.00	7381.61	7388.29	269.95	16.37	16.04	211.00	177.78	6.35	
7500.00	7480.85	7487.91	269.95	16.60	16.25	219.72	186.06	6.53	
7600.00	7580.09	7587.53	269.95	16.84	16.46	228.44	194.34	6.70	
7700.00	7679.33	7687.15	269.95	17.08	16.67	237.15	202.62	6.87	
7800.00	7778.57	7786.77	269.96	17.32	16.89	245.87	210.90	7.03	
7900.00	7877.81	7886.39	269.96	17.56	17.10	254.58	219.18	7.19	
8000.00	7977.05	7986.00	269.96	17.80	17.32	263.30	227.46	7.35	
8100.00	8078.39	8087.70	269.96	18.03	17.53	271.69	235.39	7.49	
8200.00	8180.28	8189.88	269.96	18.24	17.74	279.19	242.45	7.60	
8300.00	8282.36	8292.18	269.96	18.45	17.95	285.81	248.63	7.69	
8400.00	8384.60	8394.60	269.96	18.66	18.16	291.54	253.91	7.75	
8500.00	8487.00	8497.11	269.96	18.87	18.36	296.37	258.31	7.79	
8600.00	8589.51	8599.70	269.96	19.08	18.57	300.31	261.81	7.80	
8700.00	8692.12	8702.36	269.96	19.28	18.77	303.36	264.42	7.79	
8800.00	8794.80	8805.07	269.96	19.48	18.97	305.51	266.14	7.76	
8900.00	8897.53	8907.81	269.96	19.68	19.17	306.76	266.97	7.71	
9000.00	9000.00	9010.27	269.96	19.88	19.37	307.12	266.90	7.64	
9100.00	9100.00	9110.27	269.96	20.08	19.58	307.12	266.47	7.55	
9200.00	9201.35	9211.68	269.63	20.21	19.79	307.03	265.94	7.47	
9300.00	9298.99	9311.31	266.10	19.97	19.92	306.65	265.21	7.40	
9400.00	9380.82	9399.84	259.89	20.11	19.27	309.42	267.61	7.40	
9500.00	9443.76	9474.13	252.78	20.26	18.44	320.90	279.12	7.68	
9600.00	9491.50	9536.70	53.77	20.41	17.66	343.08	301.71	8.29	
9700.00	9531.65	9596.22	46.27	20.56	16.87	367.21	326.85	9.10	
9800.00	9565.11	9653.99	40.25	20.75	16.06	389.57	350.53	9.98	
9900.00	9592.11	9710.47	35.53	20.93	15.34	407.99	370.22	10.80	
10000.00	9612.76	9766.01	31.91	21.24	14.78	420.98	384.60	11.57	
10100.00	9627.16	9820.89	29.19	21.51	14.36	427.53	392.28	12.13	
10200.00	9635.39	9875.71	28.56	21.86	14.14	429.39	394.88	12.44	
10300.00	9637.38	9937.81	28.05	22.22	14.16	430.45	395.90	12.46	
10400.00	9636.89	10037.69	27.48	23.06	14.33	428.26	393.15	12.20	
10500.00	9636.40	10137.57	26.90	23.89	14.54	426.03	390.33	11.93	
10600.00	9635.91	10237.45	26.31	24.88	14.78	423.84	387.45	11.65	
10700.00	9635.42	10337.33	25.72	26.00	15.05	421.70	384.54	11.35	
10800.00	9634.93	10437.21	25.12	27.18	15.35	419.60	381.62	11.05	
10900.00	9634.43	10537.09	24.51	28.41	15.69	417.55	378.70	10.75	
11000.00	9633.94	10636.97	23.89	29.69	16.04	415.55	375.79	10.45	
11100.00	9633.45	10736.85	23.28	31.02	16.42	413.59	372.92	10.17	
11200.00	9632.96	10836.73	22.65	32.40	16.83	411.69	370.04	9.89	
11300.00	9632.47	10936.61	22.02	33.81	17.25	409.83	367.21	9.62	
11400.00	9631.98	11036.49	21.38	35.27	17.69	408.02	364.43	9.36	
11500.00	9631.48	11136.37	20.74	36.81	18.14	406.27	361.71	9.12	
11600.00	9630.99	11236.25	20.10	38.36	18.60	404.56	359.06	8.89	
11700.00	9630.50	11336.13	19.44	39.95	19.13	402.91	356.45	8.67	
11800.00	9630.01	11436.01	18.79	41.55	19.68	401.31	353.85	8.46	
11900.00	9629.52	11535.89	18.12	43.17	20.16	399.77	351.37	8.26	
12000.00	9629.03	11635.77	17.46	44.81	20.72	398.28	348.98	8.08	
12100.00	9628.53	11735.65	16.78	46.46	21.29	396.84	346.53	7.89	
12200.00	9628.04	11835.53	16.10	48.13	21.79	395.46	344.33	7.73	

SD Anti-Collision Report

Secondary Well : Coachwhip 26 Fed 8H (p) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
12300.00	9627.55	11935.41	15.42	49.81	22.43	394.13	342.02	7.56	
12400.00	9627.06	12035.29	14.74	51.50	23.00	392.86	339.79	7.40	
12500.00	9626.57	12135.17	14.04	53.20	23.55	391.65	337.71	7.26	
12600.00	9626.08	12235.06	13.35	54.91	24.11	390.50	335.65	7.12	
12700.00	9625.58	12334.94	12.65	56.62	24.74	389.40	333.71	6.99	
12800.00	9625.09	12434.82	11.95	58.35	25.36	388.36	331.85	6.87	
12900.00	9624.60	12534.70	11.24	60.08	25.99	387.38	330.07	6.76	
13000.00	9624.11	12634.58	10.53	61.82	26.62	386.46	328.30	6.64	
13100.00	9623.62	12734.46	9.82	63.56	27.26	385.60	326.51	6.53	
13200.00	9623.13	12834.34	9.10	65.31	27.90	384.80	324.75	6.41	
13300.00	9622.63	12934.22	8.38	67.07	28.54	384.06	323.08	6.30	
13400.00	9622.14	13034.10	7.66	68.83	29.19	383.38	321.51	6.20	
13500.00	9621.65	13133.98	6.93	70.59	29.84	382.76	320.03	6.10	
13600.00	9621.16	13233.86	6.21	72.36	30.49	382.21	318.60	6.01	
13700.00	9620.67	13333.74	5.48	74.13	31.15	381.71	317.10	5.91	
13800.00	9620.18	13433.62	4.75	75.91	31.81	381.28	315.57	5.80	
13900.00	9619.68	13533.50	4.01	77.69	32.47	380.91	314.13	5.70	
14000.00	9619.19	13633.38	3.28	79.47	33.13	380.60	312.76	5.61	
14100.00	9618.70	13733.26	2.55	81.25	33.80	380.36	311.48	5.52	
14200.00	9618.21	13833.14	1.81	83.04	34.47	380.18	310.24	5.44	
14300.00	9617.72	13933.02	1.08	84.83	35.15	380.06	308.83	5.34	
14400.00	9617.23	14032.90	0.34	86.62	35.82	380.00	307.41	5.24	
14444.18	9617.01	14077.03	0.01	87.41	36.12	380.00	306.81	5.19	

Secondary Well : Coachwhip 26 Fed 4H (p) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	0.00	89.69	0.00	0.00	50.03	48.91	44.72	
100.00	100.00	100.00	89.69	0.11	0.11	50.03	48.69	37.35	
200.00	200.00	200.00	89.69	0.34	0.34	50.03	48.24	27.97	
300.00	300.00	300.00	89.69	0.56	0.56	50.03	47.79	22.35	
400.00	400.00	400.00	89.69	0.79	0.79	50.03	47.34	18.61	
500.00	500.00	500.00	89.69	1.01	1.01	50.03	46.89	15.95	
600.00	600.00	600.00	89.69	1.24	1.24	50.03	46.44	13.95	
700.00	700.00	700.00	89.69	1.46	1.46	50.03	45.99	12.39	
800.00	800.00	800.00	89.69	1.69	1.69	50.03	45.54	11.15	
900.00	900.00	900.00	89.69	1.91	1.91	50.03	45.09	10.14	
1000.00	1000.00	1000.00	89.69	2.14	2.14	50.03	44.65	9.29	
1100.00	1100.00	1100.00	89.69	2.36	2.36	50.03	44.20	8.57	
1200.00	1200.00	1200.00	89.69	2.59	2.59	50.03	43.75	7.96	
1300.00	1300.00	1300.00	89.69	2.81	2.81	50.03	43.30	7.43	
1400.00	1400.00	1400.00	89.69	3.03	3.03	50.03	42.85	6.96	
1500.00	1500.00	1500.00	89.69	3.26	3.26	50.03	42.71	6.83	
1600.00	1600.00	1600.00	89.69	3.48	3.48	50.03	42.26	6.44	
1700.00	1700.00	1700.00	89.69	3.71	3.71	50.03	41.81	6.09	
1800.00	1800.00	1800.00	89.69	3.93	3.93	50.03	41.36	5.77	
1900.00	1900.00	1900.00	89.69	4.16	4.16	50.03	40.91	5.49	
2000.00	2000.00	2000.00	89.69	4.38	4.38	50.03	40.46	5.23	
2100.00	2100.00	2100.00	89.69	4.61	4.61	50.03	40.01	4.99	
2200.00	2200.00	2200.00	89.69	4.83	4.83	50.03	39.56	4.78	
2300.00	2300.00	2300.00	89.69	5.06	5.06	50.03	39.11	4.58	
2400.00	2400.00	2400.00	89.69	5.28	5.28	50.03	38.66	4.40	
2500.00	2500.00	2500.00	89.69	5.51	5.51	50.03	38.21	4.23	
2600.00	2600.00	2600.00	89.69	5.73	5.73	50.03	37.76	4.08	
2700.00	2700.00	2700.00	89.69	5.96	5.96	50.03	37.32	3.93	
2800.00	2800.00	2800.00	89.69	6.18	6.18	50.03	36.87	3.80	
2900.00	2900.00	2900.00	89.69	6.41	6.41	50.03	36.42	3.67	
3000.00	3000.00	3000.00	89.69	6.63	6.63	50.03	35.97	3.56	
3100.00	3100.00	3100.00	89.69	6.86	6.86	50.03	35.52	3.45	

5D Anti-Collision Report

Secondary Well : Coachwhip 26 Fed 4H (P) (TVD Relative to Well TVD Reference (Primary)) : All Azimuth Relative to GRID NORTH									
Pri MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	T Face to Sec (°)	S Major (US.ft)	S Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
3200.00	3200.00	3200.00	89.69	7.08	7.08	50.03	35.07	3.34	
3300.00	3300.00	3300.00	89.69	7.31	7.31	50.03	34.62	3.25	
3400.00	3400.00	3400.00	89.69	7.53	7.53	50.03	34.17	3.15	
3500.00	3500.00	3500.00	89.69	7.76	7.76	50.03	33.72	3.07	
3600.00	3600.00	3600.00	89.69	7.98	7.98	50.03	33.27	2.98	
3700.00	3700.00	3700.00	89.69	8.20	8.20	50.03	32.82	2.91	
3800.00	3800.00	3800.00	89.69	8.43	8.43	50.03	32.37	2.83	
3900.00	3900.00	3900.00	89.69	8.65	8.65	50.03	31.92	2.76	
4000.00	4000.00	4000.00	89.69	8.88	8.88	50.03	31.47	2.70	
4100.00	4100.00	4100.00	89.69	9.10	9.10	50.03	31.02	2.63	
4200.00	4200.00	4200.00	89.69	9.33	9.33	50.03	30.57	2.57	
4300.00	4300.00	4300.00	89.69	9.55	9.55	50.03	30.12	2.51	
4400.00	4400.00	4400.00	89.69	9.78	9.78	50.03	29.67	2.46	
4500.00	4500.00	4500.00	89.69	10.00	10.00	50.03	29.22	2.40	
4600.00	4600.00	4600.00	89.69	10.23	10.23	50.03	28.77	2.35	
4700.00	4700.00	4700.00	89.69	10.45	10.45	50.03	28.32	2.30	
4800.00	4800.00	4800.00	89.69	10.68	10.68	50.03	27.87	2.26	
4900.00	4900.00	4900.00	89.69	10.90	10.90	50.03	27.42	2.21	
5000.00	5000.00	5000.00	89.69	11.13	11.13	50.03	26.98	2.17	
5100.00	5100.00	5100.00	89.69	11.35	11.35	50.03	26.53	2.13	
5200.00	5200.00	5200.00	89.69	11.58	11.58	50.03	26.15	2.09	
5300.00	5300.00	5300.00	89.69	11.80	11.80	50.03	25.70	2.06	
5400.00	5399.89	5399.89	88.70	12.03	12.02	50.13	25.40	2.03	
5500.00	5499.69	5499.73	85.76	12.25	12.24	50.53	25.35	2.01	
5600.00	5599.30	5599.44	81.00	12.47	12.46	51.49	25.83	2.01	
5700.00	5698.65	5698.97	74.70	12.69	12.67	53.39	27.32	2.05	
5800.00	5797.63	5798.26	67.37	12.91	12.87	56.71	30.22	2.14	
5900.00	5897.90	5898.89	59.97	13.12	13.08	60.55	33.60	2.25	
6000.00	5998.28	5999.60	52.99	13.32	13.27	63.63	36.26	2.33	
6100.00	6098.65	6100.31	46.04	13.52	13.46	65.98	38.18	2.37	
6200.00	6198.70	6200.73	38.87	13.73	13.65	67.81	39.57	2.40	
6300.00	6297.94	6300.34	31.94	13.95	13.87	70.24	41.55	2.45	
6400.00	6397.18	6399.96	25.55	14.18	14.09	73.63	44.53	2.53	
6500.00	6496.42	6499.58	19.79	14.41	14.31	77.85	48.29	2.63	
6600.00	6595.66	6599.20	14.67	14.64	14.53	82.78	52.79	2.76	
6700.00	6694.90	6698.82	10.14	14.87	14.75	88.29	57.86	2.90	
6800.00	6794.15	6798.44	6.17	15.11	14.98	94.29	63.42	3.05	
6900.00	6893.39	6898.06	2.69	15.34	15.20	100.68	69.35	3.21	
7000.00	6992.63	6997.68	359.63	15.58	15.42	107.40	75.63	3.38	
7100.00	7091.87	7097.30	356.94	15.81	15.64	114.40	82.23	3.56	
7200.00	7191.11	7196.92	354.56	16.05	15.86	121.61	89.00	3.73	
7300.00	7290.35	7296.54	352.45	16.29	16.09	129.01	95.90	3.90	
7400.00	7389.59	7396.16	350.57	16.53	16.31	136.57	103.00	4.07	
7500.00	7488.83	7495.78	348.89	16.77	16.53	144.25	110.26	4.24	
7600.00	7588.07	7595.40	347.38	17.02	16.76	152.05	117.65	4.42	
7700.00	7687.31	7695.02	346.02	17.26	16.98	159.94	125.14	4.60	
7800.00	7786.55	7794.64	344.78	17.50	17.20	167.92	132.67	4.76	
7900.00	7885.79	7894.26	343.66	17.75	17.43	175.96	140.22	4.92	
8000.00	7985.03	7993.88	342.64	17.99	17.65	184.07	147.85	5.08	
8100.00	8085.79	8094.99	341.73	18.22	17.87	191.86	155.18	5.23	
8200.00	8186.86	8196.34	340.98	18.42	18.06	198.87	161.77	5.36	
8300.00	8288.11	8297.81	340.35	18.61	18.25	205.07	167.56	5.47	
8400.00	8389.53	8399.40	339.85	18.81	18.43	210.46	172.54	5.55	
8500.00	8491.10	8501.08	339.44	19.00	18.62	215.02	176.69	5.61	
8600.00	8592.78	8602.83	339.12	19.19	18.81	218.74	180.01	5.65	
8700.00	8694.55	8704.65	338.87	19.38	18.99	221.62	182.49	5.66	
8800.00	8796.39	8806.52	338.71	19.57	19.18	223.66	184.13	5.66	
8900.00	8898.28	8908.42	338.61	19.75	19.36	224.84	184.91	5.63	

SD Anti-Collision Report

Secondary Well: Coachwhip 26 Fed 4H (P) (TVD Relative to Well TVD Reference (Primary) : All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
9000.00	9000.00	9010.14	338.59	19.94	19.54	225.19	184.85	5.58	
9100.00	9100.00	9110.14	338.59	20.14	19.75	225.19	184.42	5.52	
9200.00	9200.00	9210.14	338.59	20.36	19.97	225.19	183.97	5.46	
9300.00	9300.00	9310.14	338.59	20.58	20.19	225.19	183.53	5.41	
9400.00	9400.00	9410.14	338.59	20.80	20.42	225.19	183.08	5.35	
9500.00	9500.00	9510.14	338.59	21.01	20.64	225.19	182.63	5.29	
9600.00	9599.80	9609.94	147.98	21.23	20.86	228.87	185.92	5.33	
9700.00	9696.77	9706.91	149.60	21.44	21.08	249.33	205.88	5.74	
9800.00	9786.68	9796.82	151.55	21.64	21.28	288.03	244.29	6.59	
9900.00	9865.62	9875.76	152.66	21.82	21.45	344.46	300.33	7.80	
10000.00	9930.14	9940.28	151.77	21.96	21.60	416.67	372.20	9.37	
10100.00	9977.41	9987.54	146.83	22.06	21.70	501.47	456.86	11.24	
10200.00	10557.13	10959.23	179.36	23.82	16.50	550.93	518.82	17.16	
10300.00	10556.90	11058.24	179.99	24.47	16.66	539.77	507.37	16.66	
10400.00	10556.66	11158.24	180.00	25.21	16.88	539.89	507.11	16.47	
10500.00	10556.42	11258.24	180.00	26.03	17.14	540.14	506.92	16.26	
10600.00	10556.18	11358.24	180.00	26.95	17.42	540.39	506.67	16.02	
10700.00	10555.94	11458.24	180.00	27.94	17.73	540.64	506.36	15.77	
10800.00	10555.70	11558.24	180.00	29.02	18.05	540.89	506.00	15.50	
10900.00	10555.46	11658.24	180.00	30.21	18.39	541.14	505.60	15.23	
11000.00	10555.22	11758.24	180.00	31.47	18.75	541.39	505.17	14.95	
11100.00	10554.98	11858.24	180.00	32.77	19.11	541.64	504.70	14.66	
11200.00	10554.75	11958.24	180.00	34.13	19.50	541.89	504.19	14.37	
11300.00	10554.51	12058.24	180.00	35.52	19.97	542.14	503.57	14.06	
11400.00	10554.27	12158.24	180.00	36.95	20.42	542.39	502.96	13.76	
11500.00	10554.03	12258.24	180.00	38.42	20.82	542.64	502.38	13.48	
11600.00	10553.79	12358.24	180.00	39.91	21.35	542.89	501.62	13.15	
11700.00	10553.55	12458.24	180.00	41.43	21.80	543.14	500.92	12.86	
11800.00	10553.31	12558.24	180.00	42.97	22.35	543.39	500.10	12.55	
11900.00	10553.07	12658.24	180.00	44.54	22.82	543.64	499.38	12.28	
12000.00	10552.83	12758.24	180.00	46.12	23.36	543.89	498.60	12.01	
12100.00	10552.60	12858.24	180.00	47.73	23.92	544.14	497.78	11.74	
12200.00	10552.36	12958.24	180.00	49.34	24.44	544.39	496.90	11.46	
12300.00	10552.12	13058.24	180.00	50.98	25.00	544.64	496.04	11.21	
12400.00	10551.88	13158.24	180.00	52.62	25.60	544.89	495.12	10.95	
12500.00	10551.64	13258.23	180.00	54.28	26.15	545.14	494.31	10.72	
12600.00	10551.40	13358.23	180.00	55.95	26.67	545.39	493.39	10.49	
12700.00	10551.16	13458.23	180.00	57.62	27.29	545.64	492.44	10.26	
12800.00	10550.92	13558.23	180.00	59.31	27.92	545.89	491.48	10.03	
12900.00	10550.69	13658.23	180.00	61.00	28.54	546.14	490.53	9.82	
13000.00	10550.45	13758.23	180.00	62.71	29.15	546.39	489.58	9.62	
13100.00	10550.21	13858.23	180.00	64.41	29.76	546.64	488.61	9.42	
13200.00	10549.97	13958.23	180.00	66.13	30.38	546.89	487.61	9.23	
13300.00	10549.73	14058.23	180.00	67.85	30.99	547.14	486.60	9.04	
13400.00	10549.49	14158.23	180.00	69.58	31.61	547.39	485.59	8.86	
13500.00	10549.25	14258.23	180.00	71.31	32.23	547.64	484.58	8.68	
13600.00	10549.01	14358.23	180.00	73.05	32.85	547.89	483.56	8.52	
13700.00	10548.77	14458.23	180.00	74.79	33.48	548.14	482.53	8.35	
13800.00	10548.54	14558.23	180.00	76.53	34.10	548.39	481.50	8.20	
13900.00	10548.30	14658.23	180.00	78.28	34.74	548.64	480.46	8.05	
14000.00	10548.06	14758.23	180.00	80.03	35.37	548.89	479.41	7.90	
14100.00	10547.82	14858.23	180.00	81.79	36.02	549.14	478.35	7.76	
14200.00	10547.58	14958.23	180.00	83.55	36.69	549.39	477.27	7.62	
14300.00	10547.34	15058.23	180.00	85.31	37.36	549.64	476.18	7.48	
14400.00	10547.10	15158.23	180.00	87.08	38.03	549.89	475.09	7.35	
14444.18	10547.00	15201.09	180.00	87.83	38.32	550.00	474.63	7.30	

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: May 07, 2015
Job Number: _____
Customer: Devon Energy
Well Name: Coachwhip 26 Fed 6H
API Number: _____
Rig Name: _____
Location: Lea Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 467236.41 US Survey Foot	Latitude: 32.281988 Degree
East: 787825.57 US Survey Foot	Longitude: -103.53574 Degree
Convergence: 0.43°	
Declination: 7.23°	
Total Correction: 6.80°	
Datum Transformation: none	

Geodetic Location WGS84
MSL Elevation = 0 m
Latitude = 32° 16' 55.16" N
Longitude = 103° 32' 08.67" W

Magnetic Declination = 7.23 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6531
Local Field Strength = 48183 nT	Magnetic Vector X = 23807 nT
Magnetic Dip = 60.13 deg	Magnetic Vector Y = 3020 nT
Magnetic Model = bggm2014.dat	Magnetic Vector Z = 41782 nT
Run Date = October 15, 2015	Magnetic Vector H = 23997 nT

Signed: _____ Date: _____

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