

5D Plan Report

HOBBS OCD

APR 27 2016

RECEIVED**5D Plan 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 4H*
Plan: *P1:V1*

08 May 2015

**Weatherford®**

Coachwhip 26 Fed 4H

Field Name Lea Co, NM NAD83 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 4H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 467236.68 US ft	Latitude : 32° 16' 55.16"	
	+E / -W : 0.00 US ft	Easting : 787875.60 US ft	Longitude : -103° 32' 8.08"	
Slot TVD Reference : Ground Elevation		Comment :		
Well Name Coachwhip 26 Fed 4H	Type : Main well	UWI :	Plan : P1:V1	
	Rig Height : 25.00 US ft	Well TVD Reference : 25.00 US ft	Comment :	
	Relative to Mean Sea Level : 3687.00 US ft			
Closure Distance : 4629.84 US ft		Closure Azimuth : 181.141°		
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 : 48187.8nT	Dec : 7.23°	Dip : 60.13°	Date : 01/Oct/2015

Target Set

Name : Coachwhip 26 Fed 4H
Number of Targets : 1

Comment :

Target Name PBHL 4H	Position (Relative to Slot centre)			
	+N / -S : -4628.92 US ft	Northing : 462607.76 US ft	Latitude : 32° 16' 9.36"	
	+E / -W : -92.18 US ft	Easting : 787783.42 US ft	Longitude : -103° 32' 9.56"	
Shape Guboid	TVD (Well TVD Reference) : 10547.00 US ft			
Orientation	Azimuth : 179.53°	Inclination : 0.14°		
Dimensions	Length : 8718.00 US ft	Breadth : 50.00 US ft	Height : 30.00 US ft	

Casing Points (Relative to Slot centre, TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	
1420.00	0.00	0.00	1420.00	0.00	0.00	467236.68	787875.60	13 3/8 in	

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Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	467236.68	787875.60	9 5/8 in

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	
1420.00	0.00	0.00	1420.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	13 3/8 in
5200.00	0.00	0.00	5200.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	9 5/8 in
5300.00	0.00	0.00	5300.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	Nudge
5800.00	5.00	6.00	5799.37	21.68	2.28	-21.66	1.00	1.00	0.00	6.00	Turn
6178.24	5.00	321.50	6176.30	50.99	-6.26	-51.04	1.00	0.00	-11.77	247.83	Hold
8000.00	5.00	321.50	7991.13	175.25	-105.10	-176.10	0.00	0.00	0.00	0.00	Drop
9000.00	0.00	0.00	8989.86	209.37	-132.25	-210.45	0.50	-0.50	0.00	180.00	Hold
10090.09	0.00	0.00	10079.95	209.37	-132.25	-210.45	0.00	0.00	0.00	0.00	KOP
10841.23	90.14	179.53	10557.41	-269.22	-128.28	268.16	12.00	12.00	0.00	179.53	LP
15201.09	90.14	179.53	10547.00	-4628.92	-92.18	4628.01	0.00	0.00	0.00	0.00	PBHL 4H

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	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
5300.00	0.00	0.00	5300.00	0.00	0.00	-0.00	0.00	467236.68	787875.60		Nudge
5400.00	1.00	6.00	5399.99	0.87	0.09	-0.87	1.00	467237.55	787875.69		
5500.00	2.00	6.00	5499.96	3.47	0.36	-3.47	1.00	467240.15	787875.96		
5600.00	3.00	6.00	5599.86	7.81	0.82	-7.80	1.00	467244.49	787876.42		
5700.00	4.00	6.00	5699.68	13.88	1.46	-13.87	1.00	467250.56	787877.06		
5800.00	5.00	6.00	5799.37	21.68	2.28	-21.66	1.00	467258.36	787877.88		Turn
5900.00	4.71	354.66	5899.01	30.11	2.35	-30.09	1.00	467266.79	787877.95		
6000.00	4.63	342.40	5998.68	38.05	0.75	-38.04	1.00	467274.73	787876.35		
6100.00	4.76	330.26	6098.35	45.50	-2.53	-45.52	1.00	467282.18	787873.07		
6178.24	5.00	321.50	6176.30	50.99	-6.26	-51.04	1.00	467287.67	787869.34		Hold
6200.00	5.00	321.50	6197.98	52.47	-7.44	-52.53	0.00	467289.15	787868.16		
6300.00	5.00	321.50	6297.60	59.29	-12.87	-59.39	0.00	467295.97	787862.73		
6400.00	5.00	321.50	6397.22	66.11	-18.29	-66.26	0.00	467302.79	787857.31		
6500.00	5.00	321.50	6496.84	72.93	-23.72	-73.13	0.00	467309.61	787851.88		
6600.00	5.00	321.50	6596.46	79.75	-29.14	-79.99	0.00	467316.43	787846.46		
6700.00	5.00	321.50	6696.08	86.57	-34.57	-86.86	0.00	467323.25	787841.03		
6800.00	5.00	321.50	6795.70	93.40	-40.00	-93.72	0.00	467330.08	787835.60		
6900.00	5.00	321.50	6895.32	100.22	-45.42	-100.59	0.00	467336.90	787830.18		
7000.00	5.00	321.50	6994.94	107.04	-50.85	-107.45	0.00	467343.72	787824.75		
7100.00	5.00	321.50	7094.56	113.86	-56.27	-114.32	0.00	467350.54	787819.33		
7200.00	5.00	321.50	7194.18	120.68	-61.70	-121.18	0.00	467357.36	787813.90		
7300.00	5.00	321.50	7293.79	127.50	-67.12	-128.05	0.00	467364.18	787808.48		
7400.00	5.00	321.50	7393.41	134.32	-72.55	-134.91	0.00	467371.00	787803.05		
7500.00	5.00	321.50	7493.03	141.14	-77.98	-141.78	0.00	467377.82	787797.62		
7600.00	5.00	321.50	7592.65	147.96	-83.40	-148.64	0.00	467384.64	787792.20		
7700.00	5.00	321.50	7692.27	154.78	-88.83	-155.51	0.00	467391.46	787786.77		
7800.00	5.00	321.50	7791.89	161.60	-94.25	-162.37	0.00	467398.28	787781.35		
7900.00	5.00	321.50	7891.51	168.43	-99.68	-169.24	0.00	467405.11	787775.92		
8000.00	5.00	321.50	7991.13	175.25	-105.10	-176.10	0.00	467411.93	787770.50		Drop
8100.00	4.50	321.50	8090.79	181.73	-110.26	-182.63	0.50	467418.41	787765.34		
8200.00	4.00	321.50	8190.51	187.53	-114.87	-188.46	0.50	467424.21	787760.73		
8300.00	3.50	321.50	8290.30	192.65	-118.94	-193.61	0.50	467429.33	787756.66		
8400.00	3.00	321.50	8390.14	197.08	-122.47	-198.08	0.50	467433.76	787753.13		
8500.00	2.50	321.50	8490.02	200.84	-125.46	-201.86	0.50	467437.52	787750.14		
8600.00	2.00	321.50	8589.94	203.91	-127.90	-204.95	0.50	467440.59	787747.70		
8700.00	1.50	321.50	8689.90	206.30	-129.80	-207.36	0.50	467442.98	787745.80		
8800.00	1.00	321.50	8789.87	208.01	-131.16	-209.08	0.50	467444.69	787744.44		

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Interpolated Points (Relative to Slot centre TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	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
8900.00	0.50	321.50	8889.86	209.03	-131.98	-210.11	0.50	467445.71	787743.62	
9000.00	0.00	0.00	8989.86	209.37	-132.25	-210.45	0.50	467446.05	787743.35	Hold
9100.00	0.00	0.00	9089.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9200.00	0.00	0.00	9189.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9300.00	0.00	0.00	9289.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9400.00	0.00	0.00	9389.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9500.00	0.00	0.00	9489.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9600.00	0.00	0.00	9589.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9700.00	0.00	0.00	9689.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9800.00	0.00	0.00	9789.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
9900.00	0.00	0.00	9889.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
10000.00	0.00	0.00	9989.86	209.37	-132.25	-210.45	0.00	467446.05	787743.35	
10090.09	0.00	0.00	10079.95	209.37	-132.25	-210.45	0.00	467446.05	787743.35	KOP
10100.00	1.19	179.53	10089.86	209.27	-132.25	-210.35	12.00	467445.95	787743.35	
10200.00	13.19	179.53	10188.89	196.78	-132.14	-197.86	12.00	467433.46	787743.46	
10300.00	25.19	179.53	10283.17	163.97	-131.87	-165.05	12.00	467400.65	787743.73	
10400.00	37.19	179.53	10368.55	112.28	-131.44	-113.35	12.00	467348.96	787744.16	
10500.00	49.19	179.53	10441.33	43.97	-130.88	-45.04	12.00	467280.65	787744.72	
10600.00	61.19	179.53	10498.31	-37.99	-130.20	36.92	12.00	467198.69	787745.40	
10700.00	73.19	179.53	10537.01	-129.99	-129.44	128.93	12.00	467106.69	787746.16	
10800.00	85.19	179.53	10555.73	-228.04	-128.63	226.97	12.00	467008.64	787746.97	
10841.23	90.14	179.53	10557.41	-269.22	-128.28	268.16	12.00	466967.46	787747.32	LP
10900.00	90.14	179.53	10557.27	-327.99	-127.80	326.93	0.00	466908.69	787747.80	
11000.00	90.14	179.53	10557.03	-427.98	-126.97	426.93	0.00	466808.70	787748.63	
11100.00	90.14	179.53	10556.80	-527.98	-126.14	526.93	0.00	466708.70	787749.46	
11200.00	90.14	179.53	10556.56	-627.97	-125.31	626.93	0.00	466608.71	787750.29	
11300.00	90.14	179.53	10556.32	-727.97	-124.49	726.93	0.00	466508.71	787751.11	
11400.00	90.14	179.53	10556.08	-827.97	-123.66	826.93	0.00	466408.71	787751.94	
11500.00	90.14	179.53	10555.84	-927.96	-122.83	926.92	0.00	466308.72	787752.77	
11600.00	90.14	179.53	10555.60	-1027.96	-122.00	1026.92	0.00	466208.72	787753.60	
11700.00	90.14	179.53	10555.36	-1127.96	-121.17	1126.92	0.00	466108.72	787754.43	
11800.00	90.14	179.53	10555.12	-1227.95	-120.34	1226.92	0.00	466008.73	787755.26	
11900.00	90.14	179.53	10554.88	-1327.95	-119.52	1326.92	0.00	465908.73	787756.08	
12000.00	90.14	179.53	10554.65	-1427.95	-118.69	1426.92	0.00	465808.73	787756.91	
12100.00	90.14	179.53	10554.41	-1527.94	-117.86	1526.92	0.00	465708.74	787757.74	
12200.00	90.14	179.53	10554.17	-1627.94	-117.03	1626.92	0.00	465608.74	787758.57	
12300.00	90.14	179.53	10553.93	-1727.93	-116.20	1726.92	0.00	465508.75	787759.40	
12400.00	90.14	179.53	10553.69	-1827.93	-115.38	1826.92	0.00	465408.75	787760.22	
12500.00	90.14	179.53	10553.45	-1927.93	-114.55	1926.92	0.00	465308.75	787761.05	
12600.00	90.14	179.53	10553.21	-2027.92	-113.72	2026.92	0.00	465208.76	787761.88	
12700.00	90.14	179.53	10552.97	-2127.92	-112.89	2126.92	0.00	465108.76	787762.71	
12800.00	90.14	179.53	10552.73	-2227.92	-112.06	2226.92	0.00	465008.76	787763.54	
12900.00	90.14	179.53	10552.50	-2327.91	-111.24	2326.92	0.00	464908.77	787764.36	
13000.00	90.14	179.53	10552.26	-2427.91	-110.41	2426.92	0.00	464808.77	787765.19	
13100.00	90.14	179.53	10552.02	-2527.90	-109.58	2526.92	0.00	464708.78	787766.02	
13200.00	90.14	179.53	10551.78	-2627.90	-108.75	2626.92	0.00	464608.78	787766.85	
13300.00	90.14	179.53	10551.54	-2727.90	-107.92	2726.92	0.00	464508.78	787767.68	
13400.00	90.14	179.53	10551.30	-2827.89	-107.10	2826.92	0.00	464408.79	787768.50	
13500.00	90.14	179.53	10551.06	-2927.89	-106.27	2926.92	0.00	464308.79	787769.33	
13600.00	90.14	179.53	10550.82	-3027.89	-105.44	3026.92	0.00	464208.79	787770.16	
13700.00	90.14	179.53	10550.59	-3127.88	-104.61	3126.92	0.00	464108.80	787770.99	
13800.00	90.14	179.53	10550.35	-3227.88	-103.78	3226.92	0.00	464008.80	787771.82	
13900.00	90.14	179.53	10550.11	-3327.87	-102.95	3326.92	0.00	463908.81	787772.65	
14000.00	90.14	179.53	10549.87	-3427.87	-102.13	3426.92	0.00	463808.81	787773.47	
14100.00	90.14	179.53	10549.63	-3527.87	-101.30	3526.92	0.00	463708.81	787774.30	
14200.00	90.14	179.53	10549.39	-3627.86	-100.47	3626.92	0.00	463608.82	787775.13	
14300.00	90.14	179.53	10549.15	-3727.86	-99.64	3726.92	0.00	463508.82	787775.96	
14400.00	90.14	179.53	10548.91	-3827.86	-98.81	3826.92	0.00	463408.82	787776.79	
14500.00	90.14	179.53	10548.67	-3927.85	-97.99	3926.92	0.00	463308.83	787777.61	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US.ft)	Inc (°)	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
14600.00	90.14	179.53	10548.44	-4027.85	-97.16	4026.92	0.00	463208.83	787778.44	
14700.00	90.14	179.53	10548.20	-4127.84	-96.33	4126.92	0.00	463108.84	787779.27	
14800.00	90.14	179.53	10547.96	-4227.84	-95.50	4226.92	0.00	463008.84	787780.10	
14900.00	90.14	179.53	10547.72	-4327.84	-94.67	4326.92	0.00	462908.84	787780.93	
15000.00	90.14	179.53	10547.48	-4427.83	-93.85	4426.91	0.00	462808.85	787781.75	
15100.00	90.14	179.53	10547.24	-4527.83	-93.02	4526.91	0.00	462708.85	787782.58	
15200.00	90.14	179.53	10547.00	-4627.83	-92.19	4626.91	0.00	462608.85	787783.41	
15201.09	90.14	179.53	10547.00	-4628.92	-92.18	4628.01	0.00	462607.76	787783.42	PBHL 4H