

H0770000

APR 18 2016

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5D Plan Report**Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Rebel 20 Fed 4H, 8H Pad***Well Name:** *Rebel 20 Fed 4H***Plan:** *P1:V1*

21 May 2015

**Weatherford®**

APR 22 2016

Rebel 20 Fed 4H

Field Name	Map Units : US ft		Company Name : Devon Energy	
Lea Co. NM: Nad 83 NMEZ	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
Site Name	Units : US ft	North Reference : Grid	Convergence Angle : 0.34	
	Position	Northing : 440562.24 US ft	Latitude : 32° 12' 34.38"	
		Easting : 740046.12 US ft	Longitude : -103° 41' 27.07"	
Rebel 20 Fed 4H 8H Pad	Elevation above Mean Sea Level: 3557.00 US ft			
Comment :				
Slot Name	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft		Northing : 440562.24 US ft	Latitude : 32° 12' 34.38"
	+E / -W : 0.00 US ft		Easting : 740046.12 US ft	Longitude : -103° 41' 27.07"
Rebel 20 Fed 4H	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3557.00 US ft				
Comment :				
Well Name	Type : Main well	UWI :	Plan : P1:V1	
	Rig Height <i>Kelly Bushing</i> : 25.00 US ft	Comment :		
	Relative to Mean Sea Level: 3582.00 US ft			
Rebel 20 Fed 4H	Closure Distance : 4704.01 US ft	Closure Azimuth : 177.615°		
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 178.83°				
Magnetic Parameters				
Model : BGGM	Field Strength : 48202.6nT	Dec : 7.31°	Dip : 60.10°	Date : 30/Aug/2015

Target Set

Name : Rebel 20 Fed 4H **Number of Targets :** 1

Comment :

Target Name:	Position (Relative to Slot centre)			
PBHL 4H	+N / -S : -4699.94US ft		Northing : 435862.30 US ft	Latitude : 32° 11' 47.86"
	+E / -W : -195.74 US ft		Easting : 740241.86US ft	Longitude : -103° 41' 25.12"
Shape:	TVD (Kelly Bushing) : 8452.00 US ft			
Cuboid	Orientation	Azimuth : 178.83°	Inclination : -0.21°	
	Dimensions	Length : 8536.00 US ft	Breadth : 100.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
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	

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Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
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
4318.00	0.00	0.00	4318.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	Nudge
4818.00	5.00	35.00	4817.37	17.86	12.51	-17.60	1.00	1.00	0.00	35.00	Hold
6000.00	5.00	35.00	5994.87	102.25	71.59	-100.76	0.00	0.00	0.00	0.00	Drop
7000.00	0.00	0.00	6993.60	137.97	96.61	-135.97	0.50	-0.50	0.00	180.00	Hold
7869.90	0.00	0.00	7863.50	137.97	96.61	-135.97	0.00	0.00	0.00	0.00	KOP
8767.81	89.79	178.83	8436.45	-432.78	108.30	434.91	10.00	10.00	0.00	178.83	LP
13035.89	89.79	178.83	8452.00	-4699.94	195.74	4702.96	0.00	0.00	0.00	0.00	PBHL 4H

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
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
4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	0.00	440562.24	740046.12		
4318.00	0.00	0.00	4318.00	0.00	0.00	-0.00	0.00	440562.24	740046.12		Nudge
4400.00	0.82	35.00	4400.00	0.48	0.34	-0.47	1.00	440562.72	740046.46		
4500.00	1.82	35.00	4499.97	2.37	1.66	-2.33	1.00	440564.61	740047.78		
4600.00	2.82	35.00	4599.89	5.68	3.98	-5.60	1.00	440567.92	740050.10		
4700.00	3.82	35.00	4699.72	10.43	7.30	-10.28	1.00	440572.67	740053.42		
4800.00	4.82	35.00	4799.43	16.60	11.62	-16.36	1.00	440578.84	740057.74		
4818.00	5.00	35.00	4817.37	17.86	12.51	-17.60	1.00	440580.10	740058.63		Hold
4900.00	5.00	35.00	4899.05	23.71	16.60	-23.37	0.00	440585.95	740062.72		
5000.00	5.00	35.00	4998.67	30.85	21.60	-30.41	0.00	440593.09	740067.72		
5100.00	5.00	35.00	5098.29	37.99	26.60	-37.44	0.00	440600.23	740072.72		
5200.00	5.00	35.00	5197.91	45.13	31.60	-44.48	0.00	440607.37	740077.72		
5300.00	5.00	35.00	5297.53	52.27	36.60	-51.51	0.00	440614.51	740082.72		
5400.00	5.00	35.00	5397.15	59.41	41.60	-58.55	0.00	440621.65	740087.72		
5500.00	5.00	35.00	5496.77	66.55	46.60	-65.58	0.00	440628.79	740092.72		
5600.00	5.00	35.00	5596.39	73.69	51.60	-72.62	0.00	440635.93	740097.72		
5700.00	5.00	35.00	5696.01	80.83	56.60	-79.66	0.00	440643.07	740102.72		
5800.00	5.00	35.00	5795.63	87.97	61.60	-86.69	0.00	440650.21	740107.72		
5900.00	5.00	35.00	5895.25	95.11	66.60	-93.73	0.00	440657.35	740112.72		
6000.00	5.00	35.00	5994.87	102.25	71.59	-100.76	0.00	440664.49	740117.71		Drop
6100.00	4.50	35.00	6094.52	109.03	76.34	-107.45	0.50	440671.27	740122.46		
6200.00	4.00	35.00	6194.25	115.10	80.59	-113.43	0.50	440677.34	740126.71		
6300.00	3.50	35.00	6294.03	120.46	84.35	-118.71	0.50	440682.70	740130.47		
6400.00	3.00	35.00	6393.87	125.10	87.60	-123.29	0.50	440687.34	740133.72		
6500.00	2.50	35.00	6493.76	129.03	90.35	-127.16	0.50	440691.27	740136.47		
6600.00	2.00	35.00	6593.68	132.25	92.60	-130.33	0.50	440694.49	740138.72		
6700.00	1.50	35.00	6693.63	134.75	94.35	-132.80	0.50	440696.99	740140.47		
6800.00	1.00	35.00	6793.61	136.54	95.60	-134.56	0.50	440698.78	740141.72		
6900.00	0.50	35.00	6893.60	137.61	96.36	-135.61	0.50	440699.85	740142.48		
7000.00	0.00	0.00	6993.60	137.97	96.61	-135.97	0.50	440700.21	740142.73		Hold
7100.00	0.00	0.00	7093.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7200.00	0.00	0.00	7193.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7300.00	0.00	0.00	7293.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7400.00	0.00	0.00	7393.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7500.00	0.00	0.00	7493.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7600.00	0.00	0.00	7593.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7700.00	0.00	0.00	7693.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7800.00	0.00	0.00	7793.60	137.97	96.61	-135.97	0.00	440700.21	740142.73		
7869.90	0.00	0.00	7863.50	137.97	96.61	-135.97	0.00	440700.21	740142.73		KOP
7900.00	3.01	178.83	7893.59	137.18	96.62	-135.18	10.00	440699.42	740142.74		
8000.00	13.01	178.83	7992.48	123.26	96.91	-121.26	10.00	440685.50	740143.03		
8100.00	23.01	178.83	8087.46	92.39	97.54	-90.38	10.00	440654.63	740143.66		
8200.00	33.01	178.83	8175.64	45.50	98.50	-43.48	10.00	440607.74	740144.62		
8300.00	43.01	178.83	8254.33	-15.99	99.76	18.03	10.00	440546.25	740145.88		
8400.00	53.01	178.83	8321.14	-90.21	101.28	92.26	10.00	440472.03	740147.40		
8500.00	63.01	178.83	8374.05	-174.90	103.02	176.96	10.00	440387.34	740149.14		
8600.00	73.01	178.83	8411.45	-267.48	104.91	269.57	10.00	440294.76	740151.03		
8700.00	83.01	178.83	8432.20	-365.16	106.92	367.26	10.00	440197.08	740153.04		

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Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
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
8767.81	89.79	178.83	8436.45	-432.78	108.30	434.91	10.00	440129.46	740154.42	LP
8800.00	89.79	178.83	8436.57	-464.96	108.96	467.09	0.00	440097.28	740155.08	
8900.00	89.79	178.83	8436.94	-564.94	111.01	567.09	0.00	439997.30	740157.13	
9000.00	89.79	178.83	8437.30	-664.92	113.06	667.09	0.00	439897.32	740159.18	
9100.00	89.79	178.83	8437.66	-764.90	115.11	767.09	0.00	439797.34	740161.23	
9200.00	89.79	178.83	8438.03	-864.88	117.15	867.09	0.00	439697.36	740163.27	
9300.00	89.79	178.83	8438.39	-964.85	119.20	967.09	0.00	439597.39	740165.32	
9400.00	89.79	178.83	8438.76	-1064.83	121.25	1067.09	0.00	439497.41	740167.37	
9500.00	89.79	178.83	8439.12	-1164.81	123.30	1167.09	0.00	439397.43	740169.42	
9600.00	89.79	178.83	8439.49	-1264.79	125.35	1267.09	0.00	439297.45	740171.47	
9700.00	89.79	178.83	8439.85	-1364.77	127.40	1367.09	0.00	439197.47	740173.52	
9800.00	89.79	178.83	8440.21	-1464.75	129.45	1467.08	0.00	439097.49	740175.57	
9900.00	89.79	178.83	8440.58	-1564.73	131.50	1567.08	0.00	438997.51	740177.62	
10000.00	89.79	178.83	8440.94	-1664.70	133.54	1667.08	0.00	438897.54	740179.66	
10100.00	89.79	178.83	8441.31	-1764.68	135.59	1767.08	0.00	438797.56	740181.71	
10200.00	89.79	178.83	8441.67	-1864.66	137.64	1867.08	0.00	438697.58	740183.76	
10300.00	89.79	178.83	8442.03	-1964.64	139.69	1967.08	0.00	438597.60	740185.81	
10400.00	89.79	178.83	8442.40	-2064.62	141.74	2067.08	0.00	438497.62	740187.86	
10500.00	89.79	178.83	8442.76	-2164.60	143.79	2167.08	0.00	438397.64	740189.91	
10600.00	89.79	178.83	8443.13	-2264.57	145.84	2267.08	0.00	438297.67	740191.96	
10700.00	89.79	178.83	8443.49	-2364.55	147.89	2367.08	0.00	438197.69	740194.01	
10800.00	89.79	178.83	8443.86	-2464.53	149.93	2467.08	0.00	438097.71	740196.05	
10900.00	89.79	178.83	8444.22	-2564.51	151.98	2567.08	0.00	437997.73	740198.10	
11000.00	89.79	178.83	8444.58	-2664.49	154.03	2667.08	0.00	437897.75	740200.15	
11100.00	89.79	178.83	8444.95	-2764.47	156.08	2767.08	0.00	437797.77	740202.20	
11200.00	89.79	178.83	8445.31	-2864.44	158.13	2867.08	0.00	437697.80	740204.25	
11300.00	89.79	178.83	8445.68	-2964.42	160.18	2967.07	0.00	437597.82	740206.30	
11400.00	89.79	178.83	8446.04	-3064.40	162.23	3067.07	0.00	437497.84	740208.35	
11500.00	89.79	178.83	8446.41	-3164.38	164.27	3167.07	0.00	437397.86	740210.39	
11600.00	89.79	178.83	8446.77	-3264.36	166.32	3267.07	0.00	437297.88	740212.44	
11700.00	89.79	178.83	8447.13	-3364.34	168.37	3367.07	0.00	437197.90	740214.49	
11800.00	89.79	178.83	8447.50	-3464.31	170.42	3467.07	0.00	437097.93	740216.54	
11900.00	89.79	178.83	8447.86	-3564.29	172.47	3567.07	0.00	436997.95	740218.59	
12000.00	89.79	178.83	8448.23	-3664.27	174.52	3667.07	0.00	436897.97	740220.64	
12100.00	89.79	178.83	8448.59	-3764.25	176.57	3767.07	0.00	436797.99	740222.69	
12200.00	89.79	178.83	8448.96	-3864.23	178.62	3867.07	0.00	436698.01	740224.74	
12300.00	89.79	178.83	8449.32	-3964.21	180.66	3967.07	0.00	436598.03	740226.78	
12400.00	89.79	178.83	8449.68	-4064.18	182.71	4067.07	0.00	436498.06	740228.83	
12500.00	89.79	178.83	8450.05	-4164.16	184.76	4167.07	0.00	436398.08	740230.88	
12600.00	89.79	178.83	8450.41	-4264.14	186.81	4267.07	0.00	436298.10	740232.93	
12700.00	89.79	178.83	8450.78	-4364.12	188.86	4367.07	0.00	436198.12	740234.98	
12800.00	89.79	178.83	8451.14	-4464.10	190.91	4467.06	0.00	436098.14	740237.03	
12900.00	89.79	178.83	8451.51	-4564.08	192.96	4567.06	0.00	435998.16	740239.08	
13000.00	89.79	178.83	8451.87	-4664.05	195.00	4667.06	0.00	435898.19	740241.12	
13035.89	89.79	178.83	8452.00	-4699.94	195.74	4702.96	0.00	435862.30	740241.86	PBHL 4H