

HOBBS OCD

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 8H***Plan:** *P1:V1*

21 May 2015

**Weatherford®**

APR 22 2016

Rebel 20 Fed 8H

Field Name	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	Units : US ft	North Reference : Grid	Convergence Angle : 0.34
Rebel 20 Fed 4H, 8H Pad	Position	Northing : 440562.24 US ft	Latitude : 32° 12' 34.38"
		Easting : 740046.12 US ft	Longitude : -103° 41' 27.07"
	Elevation above Mean Sea Level: 3557.00 US ft		
	Comment :		
Slot Name	Position (Offsets relative to Site Centre)		
Rebel 20 Fed 8H	+N / -S : 0.50 US ft	Northing : 440561.74 US ft	Latitude : 32° 12' 34.38"
	+E / -W : -49.99 US ft	Easting : 739996.13 US ft	Longitude : -103° 41' 27.65"
	Slot TVD Reference : Ground Elevation		
	Elevation above Mean Sea Level : 3557.00 US ft		
	Comment :		
Well Name	Type : Main well	UWI :	Plan : P1:V1
Rebel 20 Fed 8H	Rig Height <i>Kelly Bushing</i> : 25.00 US ft	Comment :	
	Relative to Mean Sea Level: 3582.00 US ft		
	Closure Distance : 4719.91 US ft	Closure Azimuth : 174.338°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 174.34°
	Magnetic Parameters		
	Model : BGGM	Field Strength : 48198.0nT	Dec : 7.31° Dip : 60.10° Date : 15/Sep/2015

Target Set

Name : Rebel 20 Fed 8H **Number of Targets :** 1

Comment :

Target Name:	Position (Relative to Slot centre)		
PBHL 8H	+N / -S : -4696.88 US ft	Northing : 435864.86 US ft	Latitude : 32° 11' 47.87"
	+E / -W : 465.67 US ft	Easting : 740461.80 US ft	Longitude : -103° 41' 22.56"
Shape:	TVD (Kelly Bushing) : 10753.00 US ft		
Cuboid	Orientation Azimuth : 174.34°	Inclination : 0.55°	
	Dimensions Length : 8388.00 US ft	Breadth : 100.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature

SD Plan Report

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	
10272.15	0.00	0.00	10272.15	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	KOP
11095.30	90.55	174.34	10793.00	-523.27	51.88	525.84	11.00	11.00	0.00	174.34	LP
15289.56	90.55	174.34	10753.00	-4696.88	465.67	4719.91	0.00	0.00	0.00	0.00	PBHL 8H

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
10200.00	0.00	0.00	10200.00	0.00	0.00	-0.00	0.00	440561.74	739996.13		
10272.15	0.00	0.00	10272.15	0.00	0.00	-0.00	0.00	440561.74	739996.13		KOP
10300.00	3.06	174.34	10299.99	-0.74	0.07	0.74	11.00	440561.00	739996.20		
10400.00	14.06	174.34	10398.72	-15.54	1.54	15.61	11.00	440546.20	739997.67		
10500.00	25.06	174.34	10492.80	-48.81	4.84	49.05	11.00	440512.93	740000.97		
10600.00	36.06	174.34	10578.78	-99.33	9.85	99.82	11.00	440462.41	740005.98		
10700.00	47.06	174.34	10653.48	-165.25	16.38	166.06	11.00	440396.49	740012.51		
10800.00	58.06	174.34	10714.18	-244.14	24.21	245.34	11.00	440317.60	740020.34		
10900.00	69.06	174.34	10758.63	-333.11	33.03	334.75	11.00	440228.63	740029.16		
11000.00	80.06	174.34	10785.21	-428.89	42.52	430.99	11.00	440132.85	740038.65		
11095.30	90.55	174.34	10793.00	-523.27	51.88	525.84	11.00	440038.47	740048.01		LP
11100.00	90.55	174.34	10792.95	-527.95	52.34	530.54	0.00	440033.79	740048.47		
11200.00	90.55	174.34	10792.00	-627.46	62.21	630.53	0.00	439934.28	740058.34		
11300.00	90.55	174.34	10791.04	-726.97	72.07	730.53	0.00	439834.77	740068.20		
11400.00	90.55	174.34	10790.09	-826.47	81.94	830.52	0.00	439735.27	740078.07		
11500.00	90.55	174.34	10789.14	-925.98	91.81	930.52	0.00	439635.76	740087.94		
11600.00	90.55	174.34	10788.18	-1025.49	101.67	1030.52	0.00	439536.25	740097.80		
11700.00	90.55	174.34	10787.23	-1125.00	111.54	1130.51	0.00	439436.74	740107.67		
11800.00	90.55	174.34	10786.28	-1224.50	121.40	1230.51	0.00	439337.24	740117.53		
11900.00	90.55	174.34	10785.32	-1324.01	131.27	1330.50	0.00	439237.73	740127.40		
12000.00	90.55	174.34	10784.37	-1423.52	141.13	1430.50	0.00	439138.22	740137.26		
12100.00	90.55	174.34	10783.42	-1523.03	151.00	1530.49	0.00	439038.71	740147.13		
12200.00	90.55	174.34	10782.46	-1622.53	160.87	1630.49	0.00	438939.21	740157.00		
12300.00	90.55	174.34	10781.51	-1722.04	170.73	1730.48	0.00	438839.70	740166.86		
12400.00	90.55	174.34	10780.56	-1821.55	180.60	1830.48	0.00	438740.19	740176.73		
12500.00	90.55	174.34	10779.60	-1921.06	190.46	1930.47	0.00	438640.68	740186.59		
12600.00	90.55	174.34	10778.65	-2020.56	200.33	2030.47	0.00	438541.18	740196.46		
12700.00	90.55	174.34	10777.69	-2120.07	210.19	2130.47	0.00	438441.67	740206.32		
12800.00	90.55	174.34	10776.74	-2219.58	220.06	2230.46	0.00	438342.16	740216.19		
12900.00	90.55	174.34	10775.79	-2319.09	229.92	2330.46	0.00	438242.65	740226.05		
13000.00	90.55	174.34	10774.83	-2418.59	239.79	2430.45	0.00	438143.15	740235.92		
13100.00	90.55	174.34	10773.88	-2518.10	249.66	2530.45	0.00	438043.64	740245.79		
13200.00	90.55	174.34	10772.93	-2617.61	259.52	2630.44	0.00	437944.13	740255.65		
13300.00	90.55	174.34	10771.97	-2717.12	269.39	2730.44	0.00	437844.62	740265.52		
13400.00	90.55	174.34	10771.02	-2816.62	279.25	2830.43	0.00	437745.12	740275.38		
13500.00	90.55	174.34	10770.07	-2916.13	289.12	2930.43	0.00	437645.61	740285.25		
13600.00	90.55	174.34	10769.11	-3015.64	298.98	3030.42	0.00	437546.10	740295.11		
13700.00	90.55	174.34	10768.16	-3115.15	308.85	3130.42	0.00	437446.59	740304.98		
13800.00	90.55	174.34	10767.20	-3214.66	318.72	3230.42	0.00	437347.08	740314.85		
13900.00	90.55	174.34	10766.25	-3314.16	328.58	3330.41	0.00	437247.58	740324.71		
14000.00	90.55	174.34	10765.30	-3413.67	338.45	3430.41	0.00	437148.07	740334.58		
14100.00	90.55	174.34	10764.34	-3513.18	348.31	3530.40	0.00	437048.56	740344.44		
14200.00	90.55	174.34	10763.39	-3612.69	358.18	3630.40	0.00	436949.05	740354.31		
14300.00	90.55	174.34	10762.44	-3712.19	368.04	3730.39	0.00	436849.55	740364.17		
14400.00	90.55	174.34	10761.48	-3811.70	377.91	3830.39	0.00	436750.04	740374.04		
14500.00	90.55	174.34	10760.53	-3911.21	387.77	3930.38	0.00	436650.53	740383.90		
14600.00	90.55	174.34	10759.58	-4010.72	397.64	4030.38	0.00	436551.02	740393.77		
14700.00	90.55	174.34	10758.62	-4110.22	407.51	4130.37	0.00	436451.52	740403.64		
14800.00	90.55	174.34	10757.67	-4209.73	417.37	4230.37	0.00	436352.01	740413.50		
14900.00	90.55	174.34	10756.71	-4309.24	427.24	4330.37	0.00	436252.50	740423.37		
15000.00	90.55	174.34	10755.76	-4408.75	437.10	4430.36	0.00	436152.99	740433.23		

5D Plan Report

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
15100.00	90.55	174.34	10754.81	-4508.25	446.97	4530.36	0.00	436053.49	740443.10	
15200.00	90.55	174.34	10753.85	-4607.76	456.83	4630.35	0.00	435953.98	740452.96	
15289.56	90.55	174.34	10753.00	-4696.88	465.67	4719.91	0.00	435864.86	740461.80	PBHL 8H

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

21 May 2015

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Rebel 20 Fed 8H

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 Rebel 20 Fed 4H, 8H Pad	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"	
	Elevation above Mean Sea Level : 3557.00 US ft			
Comment :				
Slot Name Rebel 20 Fed 8H	Position (Offsets relative to Site Centre)			
	+N / -S : -0.50 US ft	Northing : 440561.74 US ft	Latitude : 32° 12' 34.38"	
	+E / -W : -49.99 US ft	Easting : 739996.13 US ft	Longitude : -103° 41' 27.65"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3557.00 US ft				
Comment :				
Well Name Rebel 20 Fed 8H	Type : Main well		UWI :	Plan : Working Plan
	Rig Height <i>Kelly Bushing</i> : 25.00 US ft		Comment :	
	Relative to Mean Sea Level : 3582.00 US ft			
	Closure Distance : 4719.91 US ft		Closure Azimuth : 174.338°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 174.34°
	Magnetic Parameters			
	Model : BGGM	Field Strength :	Dec : 7.31°	Dip : 60.10°
	48198.0nT		Date : 15/Sep/2015	

Collision / Uncertainty Analysis				
Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Rebel 20 Fed 8H (p)	0.00	15289.56	100.00	2

Secondary Well Names
Rebel 20 Fed 4H (p)

Anti-Collision Report Terminology:	
S.Minor, S.Major :	Radial 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

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

Anti-Collision Proximity Summary (TVD relative to Kelly Bushing)

Secondary Well Name	Pri MD (US.ft)	Sec MD (US.ft)	TVD (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
Rebel 20 Fed 4H (p)	4426.95	4426.39	4426.95	50.60	30.39	2.50	

Primary Well : Rebel 20 Fed 8H (p) (TVD Relative to Kelly Bushing ; 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
0.00	0.00	89.43	0.00	0.00	Rebel 20 Fed 4H (p)	49.99	49.43	88.22
100.00	100.00	89.43	0.11	0.11	Rebel 20 Fed 4H (p)	49.99	49.21	63.50
200.00	200.00	89.43	0.34	0.34	Rebel 20 Fed 4H (p)	49.99	48.76	40.42
300.00	300.00	89.43	0.56	0.56	Rebel 20 Fed 4H (p)	49.99	48.31	29.64
400.00	400.00	89.43	0.79	0.79	Rebel 20 Fed 4H (p)	49.99	47.86	23.41
500.00	500.00	89.43	1.01	1.01	Rebel 20 Fed 4H (p)	49.99	47.41	19.34
600.00	600.00	89.43	1.24	1.24	Rebel 20 Fed 4H (p)	49.99	46.96	16.47
700.00	700.00	89.43	1.46	1.46	Rebel 20 Fed 4H (p)	49.99	46.51	14.35
800.00	800.00	89.43	1.69	1.69	Rebel 20 Fed 4H (p)	49.99	46.06	12.71
900.00	900.00	89.43	1.91	1.91	Rebel 20 Fed 4H (p)	49.99	45.61	11.40
1000.00	1000.00	89.43	2.14	2.14	Rebel 20 Fed 4H (p)	49.99	45.16	10.34
1100.00	1100.00	89.43	2.36	2.36	Rebel 20 Fed 4H (p)	49.99	44.71	9.46
1200.00	1200.00	89.43	2.59	2.59	Rebel 20 Fed 4H (p)	49.99	44.26	8.72
1300.00	1300.00	89.43	2.81	2.81	Rebel 20 Fed 4H (p)	49.99	43.81	8.09
1400.00	1400.00	89.43	3.03	3.03	Rebel 20 Fed 4H (p)	49.99	43.36	7.54
1500.00	1500.00	89.43	3.26	3.26	Rebel 20 Fed 4H (p)	49.99	42.91	7.06
1600.00	1600.00	89.43	3.48	3.48	Rebel 20 Fed 4H (p)	49.99	42.46	6.64
1700.00	1700.00	89.43	3.71	3.71	Rebel 20 Fed 4H (p)	49.99	42.01	6.26
1800.00	1800.00	89.43	3.93	3.93	Rebel 20 Fed 4H (p)	49.99	41.56	5.93
1900.00	1900.00	89.43	4.16	4.16	Rebel 20 Fed 4H (p)	49.99	41.11	5.63
2000.00	2000.00	89.43	4.38	4.38	Rebel 20 Fed 4H (p)	49.99	40.66	5.36
2100.00	2100.00	89.43	4.61	4.61	Rebel 20 Fed 4H (p)	49.99	40.21	5.11
2200.00	2200.00	89.43	4.83	4.83	Rebel 20 Fed 4H (p)	49.99	39.76	4.89
2300.00	2300.00	89.43	5.06	5.06	Rebel 20 Fed 4H (p)	49.99	39.32	4.68
2400.00	2400.00	89.43	5.28	5.28	Rebel 20 Fed 4H (p)	49.99	38.87	4.49
2500.00	2500.00	89.43	5.51	5.51	Rebel 20 Fed 4H (p)	49.99	38.42	4.32
2600.00	2600.00	89.43	5.73	5.73	Rebel 20 Fed 4H (p)	49.99	37.97	4.16
2700.00	2700.00	89.43	5.96	5.96	Rebel 20 Fed 4H (p)	49.99	37.52	4.01
2800.00	2800.00	89.43	6.18	6.18	Rebel 20 Fed 4H (p)	49.99	37.07	3.87
2900.00	2900.00	89.43	6.41	6.41	Rebel 20 Fed 4H (p)	49.99	36.62	3.74
3000.00	3000.00	89.43	6.63	6.63	Rebel 20 Fed 4H (p)	49.99	36.17	3.62
3100.00	3100.00	89.43	6.86	6.86	Rebel 20 Fed 4H (p)	49.99	35.72	3.50

5D Anti-Collision Report

Primary Well : Rebel 20 Fed 8H (p) (TVD Relative to Kelly Bushing; 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
3200.00	3200.00	89.43	7.08	7.08	Rebel 20 Fed 4H (p)	49.99	35.27	3.40	
3300.00	3300.00	89.43	7.31	7.31	Rebel 20 Fed 4H (p)	49.99	34.82	3.29	
3400.00	3400.00	89.43	7.53	7.53	Rebel 20 Fed 4H (p)	49.99	34.37	3.20	
3500.00	3500.00	89.43	7.76	7.76	Rebel 20 Fed 4H (p)	49.99	33.92	3.11	
3600.00	3600.00	89.43	7.98	7.98	Rebel 20 Fed 4H (p)	49.99	33.47	3.03	
3700.00	3700.00	89.43	8.20	8.20	Rebel 20 Fed 4H (p)	49.99	33.02	2.95	
3800.00	3800.00	89.43	8.43	8.43	Rebel 20 Fed 4H (p)	49.99	32.57	2.87	
3900.00	3900.00	89.43	8.65	8.65	Rebel 20 Fed 4H (p)	49.99	32.12	2.80	
4000.00	4000.00	89.43	8.88	8.88	Rebel 20 Fed 4H (p)	49.99	31.67	2.73	
4100.00	4100.00	89.43	9.10	9.10	Rebel 20 Fed 4H (p)	49.99	31.22	2.66	
4200.00	4200.00	89.43	9.33	9.33	Rebel 20 Fed 4H (p)	49.99	30.77	2.60	
4300.00	4300.00	89.43	9.55	9.55	Rebel 20 Fed 4H (p)	49.99	30.32	2.54	
4400.00	4400.00	88.89	9.78	9.78	Rebel 20 Fed 4H (p)	50.33	30.24	2.51	
4500.00	4500.00	86.85	10.00	10.00	Rebel 20 Fed 4H (p)	51.72	31.19	2.52	
4600.00	4600.00	83.53	10.23	10.23	Rebel 20 Fed 4H (p)	54.30	33.33	2.59	
4700.00	4700.00	79.31	10.45	10.45	Rebel 20 Fed 4H (p)	58.27	36.86	2.72	
4800.00	4800.00	74.66	10.68	10.68	Rebel 20 Fed 4H (p)	63.84	42.06	2.93	
4900.00	4900.00	70.19	10.90	10.90	Rebel 20 Fed 4H (p)	70.75	48.50	3.18	
5000.00	5000.00	66.50	11.13	11.13	Rebel 20 Fed 4H (p)	78.04	55.35	3.44	
5100.00	5100.00	63.45	11.35	11.35	Rebel 20 Fed 4H (p)	85.60	62.47	3.70	
5200.00	5200.00	60.91	11.58	11.58	Rebel 20 Fed 4H (p)	93.36	69.79	3.96	
5300.00	5300.00	58.75	11.80	11.80	Rebel 20 Fed 4H (p)	101.28	77.27	4.22	
5400.00	5400.00	56.91	12.03	12.03	Rebel 20 Fed 4H (p)	109.32	84.88	4.47	
5500.00	5500.00	55.33	12.25	12.25	Rebel 20 Fed 4H (p)	117.45	92.60	4.73	
5600.00	5600.00	53.95	12.48	12.48	Rebel 20 Fed 4H (p)	125.66	100.36	4.97	
5700.00	5700.00	52.74	12.70	12.70	Rebel 20 Fed 4H (p)	133.94	108.17	5.20	
5800.00	5800.00	51.67	12.93	12.93	Rebel 20 Fed 4H (p)	142.27	116.05	5.43	
5900.00	5900.00	50.72	13.15	13.15	Rebel 20 Fed 4H (p)	150.64	123.97	5.65	
6000.00	6000.00	49.87	13.37	13.37	Rebel 20 Fed 4H (p)	159.05	131.92	5.86	
6100.00	6100.00	49.12	13.60	13.60	Rebel 20 Fed 4H (p)	167.13	139.57	6.06	
6200.00	6200.00	48.52	13.82	13.82	Rebel 20 Fed 4H (p)	174.39	146.41	6.23	
6300.00	6300.00	48.02	14.05	14.05	Rebel 20 Fed 4H (p)	180.80	152.40	6.37	
6400.00	6400.00	47.62	14.27	14.27	Rebel 20 Fed 4H (p)	186.37	157.55	6.47	
6500.00	6500.00	47.30	14.50	14.50	Rebel 20 Fed 4H (p)	191.07	161.84	6.54	
6600.00	6600.00	47.05	14.72	14.72	Rebel 20 Fed 4H (p)	194.92	165.27	6.57	
6700.00	6700.00	46.86	14.95	14.95	Rebel 20 Fed 4H (p)	197.90	167.84	6.58	

SD Anti-Collision Report

Primary Well : Rebel 20 Fed 3H (p) (TVD Relative to Kelly Bushing : 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	HCC (US.ft)	ES (US.ft)	SF	Risk
6800.00	6800.00	46.73	15.17	15.17	Rebel 20 Fed 4H (p)	200.02	169.55	6.56	
6900.00	6900.00	46.66	15.40	15.40	Rebel 20 Fed 4H (p)	201.27	170.39	6.52	
7000.00	7000.00	46.63	15.62	15.62	Rebel 20 Fed 4H (p)	201.65	170.36	6.44	
7100.00	7100.00	46.63	15.85	15.85	Rebel 20 Fed 4H (p)	201.65	169.93	6.36	
7200.00	7200.00	46.63	16.07	16.07	Rebel 20 Fed 4H (p)	201.65	169.49	6.27	
7300.00	7300.00	46.63	16.30	16.30	Rebel 20 Fed 4H (p)	201.65	169.04	6.18	
7400.00	7400.00	46.63	16.52	16.52	Rebel 20 Fed 4H (p)	201.65	168.59	6.10	
7500.00	7500.00	46.63	16.75	16.75	Rebel 20 Fed 4H (p)	201.65	168.15	6.02	
7600.00	7600.00	46.63	16.97	16.97	Rebel 20 Fed 4H (p)	201.65	167.70	5.94	
7700.00	7700.00	46.63	17.20	17.20	Rebel 20 Fed 4H (p)	201.65	167.26	5.86	
7800.00	7800.00	46.63	17.42	17.42	Rebel 20 Fed 4H (p)	201.65	166.81	5.79	
7900.00	7900.00	47.05	17.65	17.65	Rebel 20 Fed 4H (p)	200.63	165.41	5.70	
8000.00	8000.00	52.60	17.87	17.87	Rebel 20 Fed 4H (p)	188.31	153.06	5.34	
8100.00	8100.00	64.83	18.10	18.10	Rebel 20 Fed 4H (p)	167.44	131.92	4.71	
8200.00	8200.00	82.47	18.32	18.32	Rebel 20 Fed 4H (p)	150.87	114.52	4.15	
8300.00	8300.00	100.88	18.54	18.54	Rebel 20 Fed 4H (p)	156.05	119.69	4.29	
8400.00	8400.00	115.61	18.77	18.77	Rebel 20 Fed 4H (p)	191.21	156.81	5.56	
8500.00	8500.00	125.92	18.99	18.99	Rebel 20 Fed 4H (p)	249.17	217.05	7.76	
8600.00	8600.00	132.95	19.22	19.22	Rebel 20 Fed 4H (p)	320.63	290.26	10.56	
8700.00	8700.00	137.84	19.44	19.44	Rebel 20 Fed 4H (p)	400.00	370.74	13.67	
8800.00	8800.00	141.37	19.67	19.67	Rebel 20 Fed 4H (p)	484.32	455.86	17.01	
8900.00	8900.00	143.99	19.89	19.89	Rebel 20 Fed 4H (p)	571.96	543.98	20.44	
9000.00	9000.00	146.01	20.12	20.12	Rebel 20 Fed 4H (p)	661.93	634.35	24.00	
9100.00	9100.00	147.60	20.34	20.34	Rebel 20 Fed 4H (p)	753.62	726.21	27.49	
9200.00	9200.00	148.87	20.57	20.57	Rebel 20 Fed 4H (p)	846.62	819.28	30.96	
9300.00	9300.00	149.92	20.79	20.79	Rebel 20 Fed 4H (p)	940.63	913.34	34.47	
9400.00	9400.00	150.79	21.02	21.02	Rebel 20 Fed 4H (p)	1035.46	1008.19	37.98	
9500.00	9500.00	151.53	21.24	21.24	Rebel 20 Fed 4H (p)	1130.93	1103.66	41.47	
9600.00	9600.00	152.16	21.47	21.47	Rebel 20 Fed 4H (p)	1226.94	1199.55	44.79	
9700.00	9700.00	152.71	21.69	21.69	Rebel 20 Fed 4H (p)	1323.40	1295.86	48.06	
9800.00	9800.00	153.19	21.92	21.92	Rebel 20 Fed 4H (p)	1420.23	1392.55	51.30	
9900.00	9900.00	153.60	22.14	22.14	Rebel 20 Fed 4H (p)	1517.38	1489.54	54.50	
10000.00	10000.00	153.97	22.37	22.37	Rebel 20 Fed 4H (p)	1614.81	1586.80	57.66	
10100.00	10100.00	154.31	22.59	22.59	Rebel 20 Fed 4H (p)	1712.47	1684.29	60.78	
10200.00	10200.00	154.60	22.82	22.82	Rebel 20 Fed 4H (p)	1810.33	1781.98	63.86	
10300.00	10299.99	344.62	23.03	23.00	Rebel 20 Fed 4H (p)	1908.22	1879.69	66.89	

SD Anti-Collision Report

Primary Well : Rebel 20 Fed 3H (p) (TVD Relative to Kelly Bushing ; 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
10400.00	10398.72	351.40	23.19	22.83	Rebel 20 Fed 4H (p)	2002.63	1973.95	69.84	
10500.00	10492.80	354.03	23.34	22.22	Rebel 20 Fed 4H (p)	2089.99	2061.17	72.52	
10600.00	10578.78	355.38	23.52	21.26	Rebel 20 Fed 4H (p)	2167.91	2138.94	74.85	
10700.00	10653.48	356.17	23.71	20.10	Rebel 20 Fed 4H (p)	2234.42	2205.36	76.88	
10800.00	10714.18	356.67	24.01	18.90	Rebel 20 Fed 4H (p)	2287.95	2258.83	78.56	
10900.00	10758.63	356.98	24.42	17.85	Rebel 20 Fed 4H (p)	2327.30	2298.11	79.73	
11000.00	10785.21	357.17	24.94	17.19	Rebel 20 Fed 4H (p)	2351.61	2322.27	80.16	
11100.00	10792.95	357.40	25.56	17.11	Rebel 20 Fed 4H (p)	2358.61	2328.92	79.43	
11200.00	10792.00	357.59	26.29	17.26	Rebel 20 Fed 4H (p)	2356.95	2326.84	78.29	
11300.00	10791.04	357.78	27.13	17.43	Rebel 20 Fed 4H (p)	2355.32	2324.73	77.02	
11400.00	10790.09	357.97	28.06	17.63	Rebel 20 Fed 4H (p)	2353.71	2322.59	75.63	
11500.00	10789.14	358.16	29.09	17.85	Rebel 20 Fed 4H (p)	2352.12	2320.41	74.17	
11600.00	10788.18	358.34	30.20	18.11	Rebel 20 Fed 4H (p)	2350.56	2318.20	72.63	
11700.00	10787.23	358.53	31.38	18.38	Rebel 20 Fed 4H (p)	2349.03	2315.97	71.05	
11800.00	10786.28	358.72	32.62	18.68	Rebel 20 Fed 4H (p)	2347.53	2313.72	69.44	
11900.00	10785.32	358.91	33.93	18.99	Rebel 20 Fed 4H (p)	2346.05	2311.44	67.80	
12000.00	10784.37	359.10	35.28	19.35	Rebel 20 Fed 4H (p)	2344.59	2309.15	66.16	
12100.00	10783.42	359.29	36.68	19.74	Rebel 20 Fed 4H (p)	2343.16	2306.83	64.50	
12200.00	10782.46	359.48	38.12	20.15	Rebel 20 Fed 4H (p)	2341.76	2304.47	62.80	
12300.00	10781.51	359.67	39.59	20.58	Rebel 20 Fed 4H (p)	2340.38	2302.13	61.18	
12400.00	10780.56	359.87	41.10	21.02	Rebel 20 Fed 4H (p)	2339.03	2299.78	59.59	
12500.00	10779.60	0.06	42.63	21.47	Rebel 20 Fed 4H (p)	2337.71	2297.48	58.11	
12600.00	10778.65	0.25	44.19	21.90	Rebel 20 Fed 4H (p)	2336.41	2295.11	56.57	
12700.00	10777.69	0.44	45.78	22.37	Rebel 20 Fed 4H (p)	2335.14	2292.83	55.19	
12800.00	10776.74	0.63	47.38	22.90	Rebel 20 Fed 4H (p)	2333.89	2290.41	53.67	
12900.00	10775.79	0.82	49.00	23.40	Rebel 20 Fed 4H (p)	2332.67	2288.12	52.36	
13000.00	10774.83	1.02	50.64	23.92	Rebel 20 Fed 4H (p)	2331.48	2285.82	51.06	
13100.00	10773.88	1.21	52.30	24.44	Rebel 20 Fed 4H (p)	2330.31	2283.52	49.80	
13200.00	10772.93	1.40	53.97	24.97	Rebel 20 Fed 4H (p)	2329.18	2281.20	48.55	
13300.00	10771.97	1.59	55.65	25.53	Rebel 20 Fed 4H (p)	2328.06	2278.90	47.35	
13400.00	10771.02	1.79	57.34	26.03	Rebel 20 Fed 4H (p)	2326.97	2276.64	46.23	
13500.00	10770.07	1.98	59.05	26.61	Rebel 20 Fed 4H (p)	2325.91	2274.38	45.14	
13600.00	10769.11	2.17	60.76	27.22	Rebel 20 Fed 4H (p)	2324.88	2272.08	44.03	
13700.00	10768.16	2.37	62.49	27.80	Rebel 20 Fed 4H (p)	2323.87	2269.81	42.99	
13800.00	10767.20	2.56	64.22	28.38	Rebel 20 Fed 4H (p)	2322.89	2267.56	41.98	
13900.00	10766.25	2.75	65.95	28.95	Rebel 20 Fed 4H (p)	2321.94	2265.29	40.99	

SD Anti-Collision Report

Primary Well : Rebel 20 Fed 8H (p) (TVD Relative to Kelly Bushing ; 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
14000.00	10765.30	2.95	67.70	29.53	Rebel 20 Fed 4H (p)	2321.01	2263.03	40.03	
14100.00	10764.34	3.14	69.45	30.11	Rebel 20 Fed 4H (p)	2320.11	2260.80	39.12	
14200.00	10763.39	3.34	71.21	30.70	Rebel 20 Fed 4H (p)	2319.24	2258.58	38.23	
14300.00	10762.44	3.53	72.97	31.31	Rebel 20 Fed 4H (p)	2318.39	2256.38	37.38	
14400.00	10761.48	3.72	74.74	31.94	Rebel 20 Fed 4H (p)	2317.57	2254.16	36.55	
14500.00	10760.53	3.92	76.51	32.58	Rebel 20 Fed 4H (p)	2316.78	2251.96	35.74	
14600.00	10759.58	4.11	78.29	33.22	Rebel 20 Fed 4H (p)	2316.01	2249.77	34.96	
14700.00	10758.62	4.31	80.07	33.87	Rebel 20 Fed 4H (p)	2315.27	2247.60	34.21	
14800.00	10757.67	4.50	81.86	34.51	Rebel 20 Fed 4H (p)	2314.56	2245.46	33.49	
14900.00	10756.71	4.70	83.65	35.16	Rebel 20 Fed 4H (p)	2313.88	2243.33	32.80	
15000.00	10755.76	4.89	85.44	35.81	Rebel 20 Fed 4H (p)	2313.22	2241.22	32.13	
15100.00	10754.81	5.09	87.23	36.46	Rebel 20 Fed 4H (p)	2312.59	2239.14	31.48	
15200.00	10753.85	5.28	89.03	37.12	Rebel 20 Fed 4H (p)	2311.98	2237.07	30.86	
15289.56	10753.00	5.44	90.65	37.71	Rebel 20 Fed 4H (p)	2311.49	2235.32	30.35	

Secondary Well : Rebel 20 Fed 4H (p) (TVD Relative to Kelly Bushing (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	89.43	0.00	0.00	49.99	49.43	88.22	
100.00	100.00	100.00	89.43	0.11	0.11	49.99	49.21	63.50	
200.00	200.00	200.00	89.43	0.34	0.34	49.99	48.76	40.42	
300.00	300.00	300.00	89.43	0.56	0.56	49.99	48.31	29.64	
400.00	400.00	400.00	89.43	0.79	0.79	49.99	47.86	23.41	
500.00	500.00	500.00	89.43	1.01	1.01	49.99	47.41	19.34	
600.00	600.00	600.00	89.43	1.24	1.24	49.99	46.96	16.47	
700.00	700.00	700.00	89.43	1.46	1.46	49.99	46.51	14.35	
800.00	800.00	800.00	89.43	1.69	1.69	49.99	46.06	12.71	
900.00	900.00	900.00	89.43	1.91	1.91	49.99	45.61	11.40	
1000.00	1000.00	1000.00	89.43	2.14	2.14	49.99	45.16	10.34	
1100.00	1100.00	1100.00	89.43	2.36	2.36	49.99	44.71	9.46	
1200.00	1200.00	1200.00	89.43	2.59	2.59	49.99	44.26	8.72	
1300.00	1300.00	1300.00	89.43	2.81	2.81	49.99	43.81	8.09	
1400.00	1400.00	1400.00	89.43	3.03	3.03	49.99	43.36	7.54	
1500.00	1500.00	1500.00	89.43	3.26	3.26	49.99	42.91	7.06	
1600.00	1600.00	1600.00	89.43	3.48	3.48	49.99	42.46	6.64	
1700.00	1700.00	1700.00	89.43	3.71	3.71	49.99	42.01	6.26	
1800.00	1800.00	1800.00	89.43	3.93	3.93	49.99	41.56	5.93	
1900.00	1900.00	1900.00	89.43	4.16	4.16	49.99	41.11	5.63	
2000.00	2000.00	2000.00	89.43	4.38	4.38	49.99	40.66	5.36	
2100.00	2100.00	2100.00	89.43	4.61	4.61	49.99	40.21	5.11	
2200.00	2200.00	2200.00	89.43	4.83	4.83	49.99	39.76	4.89	
2300.00	2300.00	2300.00	89.43	5.06	5.06	49.99	39.32	4.68	
2400.00	2400.00	2400.00	89.43	5.28	5.28	49.99	38.87	4.49	
2500.00	2500.00	2500.00	89.43	5.51	5.51	49.99	38.42	4.32	
2600.00	2600.00	2600.00	89.43	5.73	5.73	49.99	37.97	4.16	
2700.00	2700.00	2700.00	89.43	5.96	5.96	49.99	37.52	4.01	
2800.00	2800.00	2800.00	89.43	6.18	6.18	49.99	37.07	3.87	
2900.00	2900.00	2900.00	89.43	6.41	6.41	49.99	36.62	3.74	
3000.00	3000.00	3000.00	89.43	6.63	6.63	49.99	36.17	3.62	
3100.00	3100.00	3100.00	89.43	6.86	6.86	49.99	35.72	3.50	

SD Anti-Collision Report

Secondary Well: Rebel 20 Fed 4H (P) (TVD Relative to Kelly Bushing (Primary)); All Azimuth Relative to GRID NORTH									
Prim MD (US.ft)	TVD (US.ft)	Sec MD (US.ft)	T Face to Sect (°)	S Major (US.ft)	S Minor (US.ft)	CC (US.ft)	ES (US.ft)	SF	Risk
3200.00	3200.00	3200.00	89.43	7.08	7.08	49.99	35.27	3.40	
3300.00	3300.00	3300.00	89.43	7.31	7.31	49.99	34.82	3.29	
3400.00	3400.00	3400.00	89.43	7.53	7.53	49.99	34.37	3.20	
3500.00	3500.00	3500.00	89.43	7.76	7.76	49.99	33.92	3.11	
3600.00	3600.00	3600.00	89.43	7.98	7.98	49.99	33.47	3.03	
3700.00	3700.00	3700.00	89.43	8.20	8.20	49.99	33.02	2.95	
3800.00	3800.00	3800.00	89.43	8.43	8.43	49.99	32.57	2.87	
3900.00	3900.00	3900.00	89.43	8.65	8.65	49.99	32.12	2.80	
4000.00	4000.00	4000.00	89.43	8.88	8.88	49.99	31.67	2.73	
4100.00	4100.00	4100.00	89.43	9.10	9.10	49.99	31.22	2.66	
4200.00	4200.00	4200.00	89.43	9.33	9.33	49.99	30.77	2.60	
4300.00	4300.00	4300.00	89.43	9.55	9.55	49.99	30.32	2.54	
4400.00	4399.58	4399.58	88.89	9.77	9.77	50.33	30.24	2.51	
4500.00	4498.99	4499.02	86.85	9.99	9.99	51.72	31.19	2.52	
4600.00	4598.24	4598.35	83.53	10.21	10.20	54.30	33.33	2.59	
4700.00	4697.24	4697.51	79.31	10.43	10.41	58.27	36.86	2.72	
4800.00	4795.89	4796.45	74.66	10.65	10.61	63.84	42.06	2.93	
4900.00	4894.95	4895.88	70.19	10.87	10.83	70.75	48.50	3.18	
5000.00	4994.19	4995.50	66.50	11.10	11.05	78.04	55.35	3.44	
5100.00	5093.43	5095.12	63.45	11.32	11.27	85.60	62.47	3.70	
5200.00	5192.68	5194.74	60.91	11.55	11.49	93.36	69.79	3.96	
5300.00	5291.92	5294.36	58.75	11.78	11.71	101.28	77.27	4.22	
5400.00	5391.16	5393.98	56.91	12.02	11.93	109.32	84.88	4.47	
5500.00	5490.40	5493.60	55.33	12.25	12.15	117.45	92.60	4.73	
5600.00	5589.64	5593.22	53.95	12.48	12.37	125.66	100.36	4.97	
5700.00	5688.88	5692.84	52.74	12.72	12.60	133.94	108.17	5.20	
5800.00	5788.12	5792.46	51.67	12.96	12.82	142.27	116.05	5.43	
5900.00	5887.36	5892.08	50.72	13.20	13.04	150.64	123.97	5.65	
6000.00	5986.60	5991.70	49.87	13.44	13.27	159.05	131.92	5.86	
6100.00	6087.18	6092.63	49.12	13.66	13.48	167.13	139.57	6.06	
6200.00	6188.08	6193.82	48.52	13.85	13.67	174.39	146.41	6.23	
6300.00	6289.17	6295.13	48.02	14.05	13.85	180.80	152.40	6.37	
6400.00	6390.43	6396.55	47.62	14.24	14.04	186.37	157.55	6.47	
6500.00	6491.82	6498.07	47.30	14.43	14.22	191.07	161.84	6.54	
6600.00	6593.34	6599.66	47.05	14.62	14.40	194.92	165.27	6.57	
6700.00	6694.95	6701.32	46.86	14.81	14.59	197.90	167.84	6.58	
6800.00	6796.63	6803.03	46.73	15.00	14.77	200.02	169.55	6.56	
6900.00	6898.36	6904.76	46.66	15.18	14.96	201.27	170.39	6.52	
7000.00	7000.00	7006.40	46.63	15.37	15.14	201.65	170.36	6.44	
7100.00	7100.00	7106.40	46.63	15.57	15.34	201.65	169.93	6.36	
7200.00	7200.00	7206.40	46.63	15.79	15.57	201.65	169.49	6.27	
7300.00	7300.00	7306.40	46.63	16.01	15.79	201.65	169.04	6.18	
7400.00	7400.00	7406.40	46.63	16.23	16.01	201.65	168.59	6.10	
7500.00	7500.00	7506.40	46.63	16.45	16.24	201.65	168.15	6.02	
7600.00	7600.00	7606.40	46.63	16.67	16.46	201.65	167.70	5.94	
7700.00	7700.00	7706.40	46.63	16.89	16.68	201.65	167.26	5.86	
7800.00	7800.00	7806.40	46.63	17.11	16.90	201.65	166.81	5.79	
7900.00	7911.13	7917.59	47.05	17.31	17.07	200.63	165.41	5.70	
8000.00	8034.14	8043.17	52.60	17.42	16.87	188.31	153.06	5.34	
8100.00	8135.95	8153.83	64.83	17.53	16.23	167.44	131.92	4.71	
8200.00	8212.80	8245.54	82.47	17.64	15.43	150.87	114.52	4.15	
8300.00	8268.17	8319.23	100.88	17.76	14.72	156.05	119.69	4.29	
8400.00	8307.52	8377.92	115.61	17.85	14.13	191.21	156.81	5.56	
8500.00	8335.67	8424.86	125.92	17.97	13.63	249.17	217.05	7.76	
8600.00	8356.09	8462.77	132.95	18.11	13.25	320.63	290.26	10.56	
8700.00	8371.20	8493.79	137.84	18.18	12.97	400.00	370.74	13.67	
8800.00	8382.60	8519.49	141.37	18.32	12.70	484.32	455.86	17.01	
8900.00	8391.36	8541.05	143.99	18.41	12.54	571.96	543.98	20.44	

5D Anti-Collision Report

Secondary Well: Rebel 20 Fed 4H (p) (TVD Relative to Kelly Bushing (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)	IES (US.ft)	SF	Risk
9000.00	8398.20	8559.35	146.01	18.48	12.42	661.93	634.35	24.00	
9100.00	8403.64	8575.04	147.60	18.53	12.30	753.62	726.21	27.49	
9200.00	8408.02	8588.63	148.87	18.58	12.19	846.62	819.28	30.96	
9300.00	8411.60	8600.51	149.92	18.63	12.09	940.63	913.34	34.47	
9400.00	8414.55	8610.96	150.79	18.71	12.05	1035.46	1008.19	37.98	
9500.00	8417.02	8620.22	151.53	18.77	12.01	1130.93	1103.66	41.47	
9600.00	8419.09	8628.48	152.16	18.83	11.98	1226.94	1199.55	44.79	
9700.00	8420.86	8635.90	152.71	18.88	11.95	1323.40	1295.86	48.06	
9800.00	8422.37	8642.59	153.19	18.92	11.92	1420.23	1392.55	51.30	
9900.00	8423.68	8648.65	153.60	18.96	11.89	1517.38	1489.54	54.50	
10000.00	8424.81	8654.17	153.97	19.00	11.86	1614.81	1586.80	57.66	
10100.00	8425.80	8659.21	154.31	19.03	11.83	1712.47	1684.29	60.78	
10200.00	8426.67	8663.84	154.60	19.06	11.81	1810.33	1781.98	63.86	
10300.00	8427.47	8668.27	154.62	19.08	11.78	1908.22	1879.69	66.89	
10400.00	8428.68	8675.40	155.40	19.13	11.77	2002.63	1973.95	69.84	
10500.00	8430.30	8685.82	156.03	19.19	11.77	2089.99	2061.17	72.52	
10600.00	8432.07	8698.94	156.38	19.27	11.75	2167.91	2138.94	74.85	
10700.00	8433.75	8714.22	156.17	19.38	11.73	2234.42	2205.36	76.88	
10800.00	8435.15	8731.18	156.67	19.50	11.70	2287.95	2258.83	78.56	
10900.00	8436.09	8749.37	156.98	19.62	11.73	2327.30	2298.11	79.73	
11000.00	8436.46	8770.60	157.17	19.77	11.78	2351.61	2322.27	80.16	
11100.00	8436.83	8869.87	157.40	20.57	12.01	2358.61	2328.92	79.43	
11200.00	8437.19	8969.56	157.59	21.48	12.28	2356.95	2326.84	78.29	
11300.00	8437.55	9069.24	157.78	22.52	12.59	2355.32	2324.73	77.02	
11400.00	8437.92	9168.93	157.97	23.68	12.93	2353.71	2322.59	75.63	
11500.00	8438.28	9268.61	158.16	24.91	13.30	2352.12	2320.41	74.17	
11600.00	8438.64	9368.30	158.34	26.22	13.70	2350.56	2318.20	72.63	
11700.00	8439.00	9467.98	158.53	27.58	14.12	2349.03	2315.97	71.05	
11800.00	8439.37	9567.66	158.72	28.99	14.57	2347.53	2313.72	69.44	
11900.00	8439.73	9667.35	158.91	30.45	15.03	2346.05	2311.44	67.80	
12000.00	8440.09	9767.03	159.10	31.94	15.50	2344.59	2309.15	66.16	
12100.00	8440.46	9866.72	159.29	33.47	16.03	2343.16	2306.83	64.50	
12200.00	8440.82	9966.40	159.48	35.02	16.59	2341.76	2304.47	62.80	
12300.00	8441.18	10066.09	159.67	36.60	17.13	2340.38	2302.13	61.18	
12400.00	8441.55	10165.77	159.87	38.20	17.69	2339.03	2299.78	59.59	
12500.00	8441.91	10265.46	0.06	39.82	18.21	2337.71	2297.48	58.11	
12600.00	8442.27	10365.14	0.25	41.46	18.84	2336.41	2295.11	56.57	
12700.00	8442.64	10464.83	0.44	43.11	19.41	2335.14	2292.83	55.19	
12800.00	8443.00	10564.51	0.63	44.78	20.03	2333.89	2290.41	53.67	
12900.00	8443.36	10664.20	0.82	46.46	20.61	2332.67	2288.12	52.36	
13000.00	8443.72	10763.88	1.02	48.15	21.20	2331.48	2285.82	51.06	
13100.00	8444.09	10863.57	1.21	49.85	21.81	2330.31	2283.52	49.80	
13200.00	8444.45	10963.25	1.40	51.56	22.46	2329.18	2281.20	48.55	
13300.00	8444.81	11062.94	1.59	53.28	23.11	2328.06	2278.90	47.35	
13400.00	8445.18	11162.62	1.79	55.00	23.75	2326.97	2276.64	46.23	
13500.00	8445.54	11262.30	1.98	56.73	24.41	2325.91	2274.38	45.14	
13600.00	8445.90	11361.99	2.17	58.47	25.06	2324.88	2272.08	44.03	
13700.00	8446.27	11461.67	2.37	60.21	25.72	2323.87	2269.81	42.99	
13800.00	8446.63	11561.36	2.56	61.95	26.38	2322.89	2267.56	41.98	
13900.00	8446.99	11661.04	2.75	63.70	27.05	2321.94	2265.29	40.99	
14000.00	8447.36	11760.73	2.95	65.46	27.72	2321.01	2263.03	40.03	
14100.00	8447.72	11860.41	3.14	67.22	28.39	2320.11	2260.80	39.12	
14200.00	8448.08	11960.10	3.34	68.98	29.06	2319.24	2258.58	38.23	
14300.00	8448.44	12059.78	3.53	70.75	29.74	2318.39	2256.38	37.38	
14400.00	8448.81	12159.47	3.72	72.52	30.42	2317.57	2254.16	36.55	
14500.00	8449.17	12259.15	3.92	74.29	31.10	2316.78	2251.96	35.74	
14600.00	8449.53	12358.84	4.11	76.06	31.78	2316.01	2249.77	34.96	
14700.00	8449.90	12458.52	4.31	77.84	32.47	2315.27	2247.60	34.21	

5D Anti-Collision Report

Secondary Well : Rebel 20 Fed 4H (p) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)									
Prim MD (US-ft)	TVD (US-ft)	Sec MD (US-ft)	Int. Face to Sec (°)	S. Major (US-ft)	S. Minor (US-ft)	CC (US-ft)	ES (US-ft)	SF	Risk
14800.00	8450.26	12558.21	4.50	79.62	33.15	2314.56	2245.46	33.49	
14900.00	8450.62	12657.89	4.70	81.40	33.84	2313.88	2243.33	32.80	
15000.00	8450.99	12757.57	4.89	83.19	34.53	2313.22	2241.22	32.13	
15100.00	8451.35	12857.26	5.09	84.97	35.23	2312.59	2239.14	31.48	
15200.00	8451.71	12956.94	5.28	86.76	35.92	2311.98	2237.07	30.86	
15289.56	8452.00	13035.89	5.44	88.17	36.47	2311.49	2235.32	30.35	