



## **QEP Energy**

**Martin County, Tx  
University  
7-0213 N 04SA**

**Wellbore #1  
Wellbore #1**

# **Anticollision Risk Report**

**31 January, 2017**



<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Wellbore #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 30.00ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00ft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Risk Settings</b>	
<b>Vertical Depth for Analysis:</b>	ft (Below TVD Reference Datum)
<b>Level of Acceptable Risk (1 in):</b>	
<b>Minimum Separation:</b>	0 ft

<b>Survey Program</b>	<b>Date</b>	11/18/2016		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
50.02	8,722.40	GyroData Gyro's (Wellbore #1)	Good_gyro	Good Gyro
8,814.00	19,590.00	Crescent MWD Surveys (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
University						
7-0213 N 03SC - Wellbore #1 - Wellbore #1	0.00	0.00	24.17			
7-0213 N 03SC - Wellbore #1 - Wellbore #1	540.00	539.84	25.00	23.53	17.108 ES	
7-0213 N 03SC - Wellbore #1 - Wellbore #1	750.00	749.74	26.68	24.64	13.052 SF	
7-0213 N 05SC - Wellbore #1 - Plan #1.1	235.00	235.00	25.23	24.41	30.575 CC	
7-0213 N 05SC - Wellbore #1 - Plan #1.1	19,590.00	19,791.12	302.25	-83.91	0.783 Level 1 , ES, SF	

<b>Offset Design</b>													<b>Offset Site Error:</b>	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1													<b>Offset Well Error:</b>	0.00 ft
<b>Survey Program:</b>	700-MWD+IGRF													
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>				<b>Minimum Separation</b>	<b>Separation Factor</b>	<b>Riskd Separation Factor</b>	<b>Probability of Collision</b>	<b>Warning</b>		
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>						
0.00	0.00	0.00	0.00	0.00	0.00	77.43	24.17			0				
30.00	30.00	29.99	29.99	0.00	0.05	124.20	24.18	24.12	0.05	443.045	0			
50.02	50.02	50.01	50.01	0.01	0.09	124.19	24.19	24.09	0.10	242.609	0			
60.00	60.00	59.98	59.98	0.02	0.10	124.17	24.21	24.08	0.13	189.905	0			
90.00	90.00	89.98	89.98	0.05	0.16	128.88	24.25	24.04	0.21	115.009	0			
120.00	120.00	119.97	119.97	0.09	0.21	131.22	24.30	24.01	0.29	82.608	0			
140.56	140.56	140.52	140.52	0.11	0.24	132.45	24.35	24.00	0.35	69.306	0			
150.00	150.00	149.96	149.96	0.12	0.26	132.02	24.37	23.99	0.38	64.552	0			
180.00	180.00	179.95	179.95	0.15	0.31	129.82	24.45	23.98	0.46	53.036	0			
210.00	210.00	209.95	209.94	0.18	0.36	124.01	24.52	23.98	0.54	45.050	0			
231.82	231.82	231.76	231.76	0.20	0.40	103.52	24.57	23.97	0.60	40.625	0			
240.00	240.00	239.94	239.94	0.21	0.42	71.74	24.60	23.97	0.63	39.187	0			
270.00	270.00	269.93	269.93	0.24	0.47	42.61	24.67	23.96	0.71	34.698	0			
300.00	300.00	299.92	299.92	0.27	0.52	36.43	24.74	23.95	0.79	31.148	0			
323.44	323.44	323.35	323.35	0.30	0.56	34.10	24.80	23.94	0.86	28.852	0			
330.00	330.00	329.91	329.91	0.31	0.57	29.87	24.81	23.93	0.88	28.270	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1		Offset Site Error: 0.00 ft	
Survey Program: 700-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation Factor	Probability of Collision				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)							
360.00	360.00	359.90	359.90	0.34	0.62	19.36	24.86	23.90	0.96	25.873	0	ES				
390.00	390.00	389.89	389.89	0.37	0.68	14.51	24.89	23.85	1.04	23.835	0					
416.71	416.71	416.59	416.59	0.40	0.72	11.84	24.90	23.78	1.12	22.257	0					
420.00	420.00	419.88	419.88	0.40	0.73	11.77	24.90	23.77	1.13	22.077	0					
430.16	430.16	430.04	430.03	0.41	0.74	11.58	24.90	23.74	1.16	21.537	0					
450.00	450.00	449.87	449.86	0.43	0.78	9.06	24.90	23.69	1.21	20.559	0					
480.00	480.00	479.86	479.85	0.46	0.83	6.50	24.91	23.62	1.29	19.247	0					
508.13	508.13	507.98	507.97	0.49	0.88	4.06	24.94	23.57	1.37	18.171	0					
510.00	510.00	509.85	509.84	0.49	0.88	4.01	24.94	23.56	1.38	18.104	0					
540.00	540.00	539.84	539.82	0.53	0.94	2.20	25.00	23.53	1.46	17.108	0					
570.00	570.00	569.83	569.81	0.56	0.99	0.16	25.08	23.54	1.54	16.239	0					
599.96	599.96	599.78	599.75	0.59	1.04	-2.27	25.20	23.57	1.63	15.481	0	SF				
630.00	630.00	629.80	629.78	0.62	1.09	-6.95	25.36	23.65	1.71	14.823	0					
660.00	660.00	659.79	659.76	0.65	1.14	-34.85	25.60	23.80	1.79	14.265	0					
690.00	690.00	689.77	689.74	0.68	1.19	-165.36	25.90	24.02	1.88	13.793	0					
696.80	696.80	696.57	696.53	0.69	1.21	-168.97	25.97	24.08	1.90	13.696	0					
720.00	720.00	719.76	719.72	0.71	1.25	-170.53	26.26	24.30	1.96	13.393	0					
750.00	750.00	749.74	749.69	0.75	1.30	-171.97	26.68	24.64	2.04	13.052	0					
780.00	780.00	700.00	699.96	0.78	1.21	-170.56	84.23	80.55	3.68	22.911	0					
790.71	790.71	700.00	699.96	0.79	1.21	-170.61	94.48	90.78	3.70	25.515	0					
810.00	810.00	700.00	699.96	0.81	1.21	-175.25	113.16	109.42	3.74	30.282	0					
840.00	840.00	700.00	699.96	0.84	1.21	178.40	142.53	138.76	3.77	37.788	0					
870.00	870.00	700.00	699.96	0.87	1.21	173.02	172.12	168.33	3.80	45.326	0					
884.64	884.63	700.00	699.96	0.89	1.21	170.69	186.61	182.80	3.81	49.003	0					
900.00	899.99	700.00	699.96	0.90	1.21	171.22	201.84	198.02	3.82	52.855	0					
930.00	929.99	700.00	699.96	0.93	1.21	173.29	231.62	227.78	3.84	60.351	0					
960.00	959.99	700.00	699.96	0.97	1.21	-172.02	261.44	257.59	3.86	67.807	0					
979.07	979.06	700.00	699.96	0.99	1.21	66.11	280.42	276.55	3.87	72.523	0					
990.00	989.99	700.00	699.96	1.00	1.21	-21.94	291.29	287.42	3.87	75.217	0					
1,020.00	1,019.99	700.00	699.96	1.03	1.21	-15.44	321.17	317.28	3.89	82.580	0					
1,050.00	1,049.99	700.00	699.96	1.06	1.21	-11.58	351.07	347.17	3.91	89.894	0					
1,073.09	1,073.08	700.00	699.96	1.08	1.21	-9.54	374.10	370.18	3.92	95.489	0					
1,080.00	1,079.99	700.00	699.96	1.09	1.21	-9.54	380.99	377.07	3.92	97.158	0					
1,110.00	1,109.99	700.00	699.96	1.12	1.21	-16.61	410.91	406.98	3.94	104.371	0					
1,140.00	1,139.99	700.00	699.96	1.15	1.21	-21.14	440.85	436.90	3.95	111.534	0					
1,167.36	1,167.35	700.00	699.96	1.18	1.21	-24.53	468.16	464.19	3.97	118.021	0					
1,170.00	1,169.99	700.00	699.96	1.19	1.21	-24.53	470.79	466.82	3.97	118.645	0					
1,200.00	1,199.99	700.00	699.96	1.22	1.21	-23.55	500.74	496.76	3.98	125.705	0					
1,230.00	1,229.99	700.00	699.96	1.25	1.21	-22.73	530.70	526.70	4.00	132.715	0					
1,260.00	1,259.99	700.00	699.96	1.28	1.21	-21.97	560.66	556.64	4.01	139.673	0					
1,261.85	1,261.84	700.00	699.96	1.28	1.21	-21.92	562.51	558.49	4.02	140.101	0					
1,290.00	1,289.99	700.00	699.96	1.31	1.21	-21.92	590.62	586.59	4.03	146.582	0					
1,320.00	1,319.99	700.00	699.96	1.34	1.21	-18.93	620.59	616.55	4.04	153.440	0					
1,350.00	1,349.99	700.00	699.96	1.37	1.21	-17.40	650.56	646.50	4.06	160.249	0					
1,355.62	1,355.61	700.00	699.96	1.38	1.21	-17.11	656.18	652.11	4.06	161.519	0					
1,380.00	1,379.99	700.00	699.96	1.41	1.21	-17.40	680.53	676.46	4.07	167.009	0					
1,410.00	1,409.99	700.00	699.96	1.44	1.21	-17.72	710.51	706.42	4.09	173.719	0					
1,440.00	1,439.99	700.00	699.96	1.47	1.21	-17.99	740.49	736.38	4.11	180.382	0					
1,450.30	1,450.29	700.00	699.96	1.48	1.21	-18.07	750.78	746.67	4.11	182.658	0					
1,470.00	1,469.99	700.00	699.96	1.50	1.21	-0.71	770.46	766.34	4.12	186.996	0					
1,500.00	1,499.99	700.00	699.96	1.53	1.21	12.80	800.44	796.31	4.14	193.562	0					
1,530.00	1,529.99	700.00	699.96	1.56	1.21	18.65	830.42	826.27	4.15	200.081	0					
1,545.18	1,545.17	700.00	699.96	1.58	1.21	20.22	845.59	841.43	4.16	203.362	0					
1,560.00	1,559.99	700.00	699.96	1.59	1.21	26.60	860.40	856.23	4.17	206.552	0					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
1,590.00	1,589.99	700.00	699.96	1.63	1.21	31.93	890.37	886.19	4.18	212.977	0			
1,620.00	1,619.98	700.00	699.96	1.66	1.21	32.44	920.35	916.15	4.20	219.355	0			
1,640.14	1,640.12	700.00	699.96	1.68	1.21	31.65	940.47	936.26	4.21	223.610	0			
1,650.00	1,649.97	700.00	699.96	1.69	1.21	31.07	950.32	946.11	4.21	225.686	0			
1,680.00	1,679.96	700.00	699.96	1.72	1.21	28.84	980.29	976.06	4.23	231.972	0			
1,710.00	1,709.94	700.00	699.96	1.75	1.21	26.39	1,010.25	1,006.01	4.24	238.212	0			
1,735.16	1,735.08	700.00	699.96	1.78	1.21	24.39	1,035.38	1,031.13	4.25	243.410	0			
1,740.00	1,739.92	700.00	699.96	1.78	1.21	24.09	1,040.21	1,035.96	4.26	244.407	0			
1,770.00	1,769.88	700.00	699.96	1.82	1.21	22.31	1,070.17	1,065.90	4.27	250.557	0			
1,800.00	1,799.84	700.00	699.96	1.85	1.21	20.69	1,100.12	1,095.83	4.29	256.663	0			
1,830.00	1,829.80	700.00	699.96	1.88	1.21	19.21	1,130.06	1,125.76	4.30	262.727	0			
1,830.38	1,830.18	700.00	699.96	1.88	1.21	19.19	1,130.44	1,126.14	4.30	262.803	0			
1,860.00	1,859.74	700.00	699.96	1.91	1.21	17.68	1,160.00	1,155.69	4.32	268.746	0			
1,890.00	1,889.68	700.00	699.96	1.94	1.21	16.34	1,189.94	1,185.61	4.33	274.724	0			
1,920.00	1,919.60	700.00	699.96	1.98	1.21	15.16	1,219.86	1,215.52	4.35	280.658	0			
1,925.85	1,925.43	700.00	699.96	1.98	1.21	14.94	1,225.70	1,221.35	4.35	281.811	0			
1,950.00	1,949.51	700.00	699.96	2.01	1.21	14.78	1,249.79	1,245.42	4.36	286.551	0			
1,980.00	1,979.42	700.00	699.96	2.04	1.21	14.58	1,279.71	1,275.33	4.38	292.405	0			
2,010.00	2,009.33	700.00	699.96	2.08	1.21	14.39	1,309.63	1,305.24	4.39	298.220	0			
2,019.81	2,019.11	700.00	699.96	2.09	1.21	14.32	1,319.42	1,315.02	4.40	300.113	0			
2,040.00	2,039.24	700.00	699.96	2.11	1.21	14.41	1,339.56	1,335.15	4.41	303.996	0			
2,070.00	2,069.15	700.00	699.96	2.14	1.21	14.56	1,369.49	1,365.07	4.42	309.734	0			
2,100.00	2,099.06	700.00	699.96	2.18	1.21	14.72	1,399.42	1,394.99	4.44	315.434	0			
2,114.69	2,113.70	700.00	699.96	2.19	1.21	14.80	1,414.08	1,409.64	4.44	318.212	0			
2,130.00	2,128.97	700.00	699.96	2.21	1.21	14.58	1,429.36	1,424.91	4.45	321.096	0			
2,160.00	2,158.87	700.00	699.96	2.24	1.21	14.16	1,459.29	1,454.82	4.47	326.720	0			
2,190.00	2,188.77	700.00	699.96	2.28	1.21	13.77	1,489.22	1,484.74	4.48	332.306	0			
2,209.43	2,208.12	700.00	699.96	2.30	1.21	13.53	1,508.60	1,504.11	4.49	335.905	0			
2,220.00	2,218.65	700.00	699.96	2.31	1.21	13.38	1,519.14	1,514.64	4.50	337.855	0			
2,250.00	2,248.53	700.00	699.96	2.35	1.21	13.00	1,549.06	1,544.55	4.51	343.366	0			
2,280.00	2,278.40	700.00	699.96	2.38	1.21	12.63	1,578.98	1,574.45	4.53	348.840	0			
2,304.56	2,302.85	700.00	699.96	2.41	1.21	12.35	1,603.46	1,598.93	4.54	353.295	0			
2,310.00	2,308.27	700.00	699.96	2.42	1.21	12.32	1,608.89	1,604.35	4.54	354.278	0			
2,340.00	2,338.12	700.00	699.96	2.45	1.21	12.12	1,638.80	1,634.24	4.56	359.680	0			
2,370.00	2,367.98	700.00	699.96	2.49	1.21	11.92	1,668.71	1,664.14	4.57	365.047	0			
2,398.85	2,396.68	700.00	699.96	2.52	1.21	11.73	1,697.47	1,692.89	4.59	370.177	0			
2,400.00	2,397.82	700.00	699.96	2.52	1.21	11.73	1,698.62	1,694.03	4.59	370.381	0			
2,430.00	2,427.67	700.00	699.96	2.56	1.21	11.63	1,728.53	1,723.93	4.60	375.679	0			
2,460.00	2,457.51	700.00	699.96	2.60	1.21	11.54	1,758.44	1,753.83	4.62	380.944	0			
2,490.00	2,487.36	700.00	699.96	2.63	1.21	11.44	1,788.36	1,783.73	4.63	386.176	0			
2,493.36	2,490.70	700.00	699.96	2.64	1.21	11.43	1,791.71	1,787.07	4.63	386.760	0			
2,520.00	2,517.20	700.00	699.96	2.67	1.21	10.79	1,818.27	1,813.63	4.65	391.375	0			
2,550.00	2,547.03	700.00	699.96	2.71	1.21	10.02	1,848.19	1,843.53	4.66	396.541	0			
2,580.00	2,576.87	700.00	699.96	2.74	1.21	9.21	1,878.11	1,873.43	4.68	401.675	0			
2,587.13	2,583.96	700.00	699.96	2.75	1.21	9.01	1,885.22	1,880.54	4.68	402.891	0			
2,610.00	2,606.70	700.00	699.96	2.78	1.21	8.67	1,908.03	1,903.34	4.69	406.777	0			
2,640.00	2,636.52	700.00	699.96	2.82	1.21	8.22	1,937.95	1,933.25	4.71	411.847	0			
2,670.00	2,666.35	700.00	699.96	2.86	1.21	7.76	1,967.88	1,963.15	4.72	416.886	0			
2,682.03	2,678.31	700.00	699.96	2.87	1.21	7.58	1,979.87	1,975.15	4.73	418.898	0			
2,700.00	2,696.17	700.00	699.96	2.90	1.21	7.48	1,997.80	1,993.06	4.74	421.894	0			
2,730.00	2,725.99	700.00	699.96	2.93	1.21	7.30	2,027.73	2,022.98	4.75	426.870	0			
2,760.00	2,755.82	700.00	699.96	2.97	1.21	7.12	2,057.66	2,052.89	4.77	431.817	0			
2,776.89	2,772.61	700.00	699.96	2.99	1.21	7.01	2,074.51	2,069.73	4.77	434.588	0			
2,790.00	2,785.64	700.00	699.96	3.01	1.21	6.99	2,087.59	2,082.81	4.78	436.733	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision		
2,820.00	2,815.47	700.00	699.96	3.05	1.21	6.96	2,117.53	2,112.73	4.79	441.618	0			
2,850.00	2,845.31	700.00	699.96	3.09	1.21	6.90	2,147.47	2,142.66	4.81	446.475	0			
2,871.66	2,866.85	700.00	699.96	3.11	1.21	6.85	2,169.09	2,164.27	4.82	449.964	0			
2,880.00	2,875.15	700.00	699.96	3.13	1.21	6.81	2,177.42	2,172.59	4.82	451.303	0			
2,910.00	2,904.99	700.00	699.96	3.16	1.21	6.66	2,207.37	2,202.53	4.84	456.101	0			
2,940.00	2,934.83	700.00	699.96	3.20	1.21	6.52	2,237.32	2,232.46	4.85	460.869	0			
2,966.56	2,961.24	700.00	699.96	3.24	1.21	6.39	2,263.83	2,258.96	4.87	465.067	0			
2,970.00	2,964.66	700.00	699.96	3.24	1.21	6.43	2,267.26	2,262.39	4.87	465.609	0			
3,000.00	2,994.50	700.00	699.96	3.28	1.21	6.77	2,297.22	2,292.33	4.88	470.319	0			
3,030.00	3,024.35	700.00	699.96	3.32	1.21	7.15	2,327.18	2,322.28	4.90	475.002	0			
3,060.00	3,054.21	700.00	699.96	3.36	1.21	7.58	2,357.14	2,352.23	4.91	479.658	0			
3,060.33	3,054.54	700.00	699.96	3.36	1.21	7.58	2,357.47	2,352.56	4.91	479.709	0			
3,090.00	3,084.09	700.00	699.96	3.39	1.21	8.53	2,387.11	2,382.18	4.93	484.285	0			
3,120.00	3,113.97	700.00	699.96	3.43	1.21	9.79	2,417.09	2,412.15	4.94	488.885	0			
3,150.00	3,143.87	700.00	699.96	3.47	1.21	11.53	2,447.08	2,442.12	4.96	493.458	0			
3,155.45	3,149.31	700.00	699.96	3.47	1.21	11.91	2,452.52	2,447.56	4.96	494.286	0			
3,180.00	3,173.79	700.00	699.96	3.50	1.21	14.60	2,477.07	2,472.09	4.97	498.003	0			
3,210.00	3,203.71	700.00	699.96	3.54	1.21	20.21	2,507.06	2,502.07	4.99	502.521	0			
3,240.00	3,233.65	700.00	699.96	3.58	1.21	32.57	2,537.06	2,532.05	5.00	507.011	0			
3,250.86	3,244.50	700.00	699.96	3.59	1.21	41.24	2,547.92	2,542.91	5.01	508.630	0			
3,270.00	3,263.61	700.00	699.96	3.61	1.21	56.93	2,567.06	2,562.04	5.02	511.475	0			
3,300.00	3,293.56	700.00	699.96	3.64	1.21	87.89	2,597.06	2,592.02	5.03	515.911	0			
3,330.00	3,323.53	700.00	699.96	3.68	1.21	112.84	2,627.05	2,622.01	5.05	520.320	0			
3,345.48	3,338.99	700.00	699.96	3.70	1.21	121.20	2,642.53	2,637.48	5.06	522.585	0			
3,360.00	3,353.49	700.00	699.96	3.71	1.21	130.59	2,657.05	2,651.99	5.06	524.702	0			
3,390.00	3,383.47	700.00	699.96	3.75	1.21	144.10	2,687.05	2,681.97	5.08	529.058	0			
3,420.00	3,413.45	700.00	699.96	3.78	1.21	152.44	2,717.05	2,711.95	5.09	533.388	0			
3,440.50	3,433.94	700.00	699.96	3.80	1.21	156.38	2,737.54	2,732.44	5.10	536.332	0			
3,450.00	3,443.43	700.00	699.96	3.81	1.21	157.17	2,747.04	2,741.93	5.11	537.692	0			
3,480.00	3,473.42	700.00	699.96	3.84	1.21	159.52	2,777.04	2,771.91	5.12	541.970	0			
3,510.00	3,503.40	700.00	699.96	3.88	1.21	161.69	2,807.03	2,801.89	5.14	546.222	0			
3,534.46	3,527.85	700.00	699.96	3.90	1.21	163.36	2,831.48	2,826.33	5.15	549.671	0			
3,540.00	3,533.39	700.00	699.96	3.91	1.21	167.99	2,837.02	2,831.87	5.15	550.450	0			
3,570.00	3,563.38	700.00	699.96	3.94	1.21	-164.80	2,867.01	2,861.84	5.17	554.652	0			
3,600.00	3,593.38	700.00	699.96	3.97	1.21	-102.91	2,896.98	2,891.80	5.18	558.827	0			
3,628.81	3,622.19	700.00	699.96	4.00	1.21	-48.47	2,925.75	2,920.55	5.20	562.809	0			
3,630.00	3,623.38	700.00	699.96	4.00	1.21	-47.12	2,926.94	2,921.74	5.20	562.973	0			
3,660.00	3,653.37	700.00	699.96	4.03	1.21	-29.15	2,956.87	2,951.66	5.21	567.094	0			
3,690.00	3,683.34	700.00	699.96	4.05	1.21	-21.80	2,986.77	2,981.54	5.23	571.182	0			
3,720.00	3,713.29	700.00	699.96	4.08	1.21	-17.53	3,016.62	3,011.37	5.24	575.238	0			
3,722.62	3,715.90	700.00	699.96	4.08	1.21	-17.24	3,019.22	3,013.98	5.25	575.591	0			
3,750.00	3,743.21	700.00	699.96	4.10	1.21	-16.65	3,046.44	3,041.18	5.26	579.266	0			
3,780.00	3,773.12	700.00	699.96	4.13	1.21	-16.05	3,076.25	3,070.97	5.27	583.271	0			
3,810.00	3,803.03	700.00	699.96	4.15	1.21	-15.49	3,106.05	3,100.76	5.29	587.254	0			
3,817.19	3,810.20	700.00	699.96	4.16	1.21	-15.36	3,113.20	3,107.90	5.29	588.206	0			
3,840.00	3,832.94	700.00	699.96	4.18	1.21	-15.78	3,135.86	3,130.56	5.30	591.213	0			
3,870.00	3,862.86	700.00	699.96	4.20	1.21	-16.35	3,165.69	3,160.37	5.32	595.154	0			
3,900.00	3,892.79	700.00	699.96	4.23	1.21	-16.95	3,195.53	3,190.20	5.33	599.078	0			
3,912.67	3,905.44	700.00	699.96	4.24	1.21	-17.21	3,208.14	3,202.80	5.34	600.730	0			
3,930.00	3,922.73	700.00	699.96	4.25	1.21	-17.75	3,225.39	3,220.04	5.35	602.981	0			
3,960.00	3,952.68	700.00	699.96	4.28	1.21	-18.77	3,255.27	3,249.90	5.36	606.865	0			
3,990.00	3,982.63	700.00	699.96	4.30	1.21	-19.92	3,285.15	3,279.77	5.38	610.729	0			
4,007.78	4,000.39	700.00	699.96	4.32	1.21	-20.67	3,302.87	3,297.48	5.39	613.011	0			
4,020.00	4,012.59	700.00	699.96	4.33	1.21	-21.01	3,315.05	3,309.66	5.39	614.575	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risk Separation Factor	Probability of Collision		
4,050.00	4,042.56	700.00	699.96	4.36	1.21	-21.88	3,344.96	3,339.55	5.41	618.399	0			
4,080.00	4,072.53	700.00	699.96	4.39	1.21	-22.84	3,374.87	3,369.45	5.42	622.205	0			
4,102.74	4,095.25	700.00	699.96	4.41	1.21	-23.62	3,397.55	3,392.12	5.44	625.078	0			
4,110.00	4,102.50	700.00	699.96	4.41	1.21	-24.28	3,404.80	3,399.36	5.44	625.992	0			
4,140.00	4,132.48	700.00	699.96	4.44	1.21	-27.49	3,434.73	3,429.28	5.45	629.759	0			
4,170.00	4,162.46	700.00	699.96	4.47	1.21	-31.68	3,464.68	3,459.21	5.47	633.507	0			
4,198.03	4,190.48	700.00	699.96	4.50	1.21	-36.90	3,492.67	3,487.18	5.48	636.993	0			
4,200.00	4,192.45	700.00	699.96	4.50	1.21	-37.22	3,494.63	3,489.15	5.48	637.238	0			
4,230.00	4,222.45	700.00	699.96	4.53	1.21	-42.75	3,524.60	3,519.10	5.50	640.948	0			
4,260.00	4,252.44	700.00	699.96	4.56	1.21	-49.92	3,554.57	3,549.06	5.51	644.640	0			
4,290.00	4,282.44	700.00	699.96	4.59	1.21	-60.16	3,584.55	3,579.02	5.53	648.313	0			
4,293.36	4,285.80	700.00	699.96	4.59	1.21	-61.92	3,587.91	3,582.38	5.53	648.723	0			
4,320.00	4,312.44	700.00	699.96	4.62	1.21	-65.36	3,614.53	3,608.99	5.54	651.966	0			
4,350.00	4,342.44	700.00	699.96	4.65	1.21	-78.48	3,644.51	3,638.95	5.56	655.600	0			
4,380.00	4,372.44	700.00	699.96	4.68	1.21	128.56	3,674.50	3,668.92	5.57	659.214	0			
4,388.73	4,381.17	700.00	699.96	4.69	1.21	160.03	3,683.22	3,677.64	5.58	660.262	0			
4,410.00	4,402.44	700.00	699.96	4.71	1.21	123.18	3,704.48	3,698.89	5.59	662.809	0			
4,440.00	4,432.44	700.00	699.96	4.74	1.21	121.52	3,734.46	3,728.86	5.60	666.385	0			
4,470.00	4,462.44	700.00	699.96	4.77	1.21	117.88	3,764.45	3,758.83	5.62	669.942	0			
4,483.16	4,475.60	700.00	699.96	4.79	1.21	160.05	3,777.60	3,771.98	5.63	671.496	0			
4,500.00	4,492.44	700.00	699.96	4.80	1.21	160.06	3,794.43	3,788.80	5.63	673.480	0			
4,530.00	4,522.44	700.00	699.96	4.83	1.21	114.99	3,824.42	3,818.77	5.65	676.999	0			
4,560.00	4,552.44	700.00	699.96	4.86	1.21	160.06	3,854.40	3,848.74	5.66	680.500	0			
4,577.84	4,570.28	700.00	699.96	4.88	1.21	160.06	3,872.23	3,866.56	5.67	682.573	0			
4,590.00	4,582.44	700.00	699.96	4.89	1.21	160.06	3,884.39	3,878.71	5.68	683.982	0			
4,620.00	4,612.44	700.00	699.96	4.92	1.21	127.39	3,914.37	3,908.68	5.69	687.446	0			
4,650.00	4,642.44	700.00	699.96	4.96	1.21	127.22	3,944.36	3,938.65	5.71	690.892	0			
4,672.79	4,665.23	700.00	699.96	4.98	1.21	160.07	3,967.14	3,961.42	5.72	693.497	0			
4,680.00	4,672.44	700.00	699.96	4.99	1.21	160.07	3,974.35	3,968.62	5.72	694.319	0			
4,710.00	4,702.44	700.00	699.96	5.02	1.21	160.07	4,004.33	3,998.59	5.74	697.729	0			
4,740.00	4,732.44	700.00	699.96	5.05	1.21	113.05	4,034.32	4,028.56	5.75	701.121	0			
4,766.69	4,759.13	700.00	699.96	5.07	1.21	160.08	4,061.00	4,055.23	5.77	704.125	0			
4,770.00	4,762.44	700.00	699.96	5.08	1.21	160.09	4,064.30	4,058.54	5.77	704.496	0			
4,800.00	4,792.44	700.00	699.96	5.11	1.21	80.36	4,094.29	4,088.51	5.78	707.853	0			
4,830.00	4,822.44	700.00	699.96	5.14	1.21	67.70	4,124.28	4,118.48	5.80	711.193	0			
4,860.00	4,852.44	700.00	699.96	5.17	1.21	60.57	4,154.26	4,148.45	5.81	714.516	0			
4,860.80	4,853.24	700.00	699.96	5.17	1.21	160.12	4,155.06	4,149.25	5.81	714.604	0			
4,890.00	4,882.44	700.00	699.96	5.20	1.21	160.14	4,184.25	4,178.42	5.83	717.821	0			
4,920.00	4,912.44	700.00	699.96	5.23	1.21	64.85	4,214.24	4,208.39	5.84	721.110	0			
4,950.00	4,942.44	700.00	699.96	5.26	1.21	67.39	4,244.23	4,238.37	5.86	724.381	0			
4,955.35	4,947.79	700.00	699.96	5.27	1.21	160.18	4,249.57	4,243.71	5.86	724.963	0			
4,980.00	4,972.44	700.00	699.96	5.29	1.21	64.80	4,274.21	4,268.34	5.87	727.637	0			
5,010.00	5,002.44	700.00	699.96	5.32	1.21	57.55	4,304.20	4,298.31	5.89	730.875	0			
5,040.00	5,032.44	700.00	699.96	5.35	1.21	39.35	4,334.19	4,328.28	5.90	734.097	0			
5,049.20	5,041.64	700.00	699.96	5.36	1.21	160.21	4,343.38	4,337.48	5.91	735.082	0			
5,070.00	5,062.44	700.00	699.96	5.38	1.21	35.14	4,364.18	4,358.26	5.92	737.303	0			
5,100.00	5,092.44	700.00	699.96	5.41	1.21	160.21	4,394.16	4,388.23	5.93	740.493	0			
5,130.00	5,122.44	700.00	699.96	5.45	1.21	-171.61	4,424.15	4,418.20	5.95	743.667	0			
5,143.38	5,135.82	700.00	699.96	5.46	1.21	-168.21	4,437.53	4,431.57	5.96	745.077	0			
5,160.00	5,152.44	700.00	699.96	5.48	1.21	-168.21	4,454.14	4,448.18	5.96	746.825	0			
5,190.00	5,182.44	700.00	699.96	5.51	1.21	-176.87	4,484.13	4,478.15	5.98	749.967	0			
5,220.00	5,212.44	700.00	699.96	5.54	1.21	173.57	4,514.12	4,508.13	5.99	753.093	0			
5,237.49	5,229.93	700.00	699.96	5.56	1.21	165.40	4,531.60	4,525.60	6.00	754.909	0			
5,250.00	5,242.44	700.00	699.96	5.57	1.21	-173.83	4,544.11	4,538.10	6.01	756.204	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
5,280.00	5,272.44	700.00	699.96	5.60	1.21	-166.21	4,574.10	4,568.08	6.02	759.300	0			
5,310.00	5,302.44	700.00	699.96	5.63	1.21	-163.96	4,604.09	4,598.05	6.04	762.380	0			
5,331.81	5,324.25	700.00	699.96	5.65	1.21	-162.95	4,625.89	4,619.84	6.05	764.610	0			
5,340.00	5,332.44	700.00	699.96	5.66	1.21	-162.95	4,634.08	4,628.03	6.05	765.445	0			
5,370.00	5,362.44	700.00	699.96	5.69	1.21	-160.93	4,664.07	4,658.00	6.07	768.495	0			
5,400.00	5,392.44	700.00	699.96	5.72	1.21	-159.59	4,694.06	4,687.98	6.08	771.530	0			
5,426.33	5,418.77	700.00	699.96	5.75	1.21	-158.54	4,720.39	4,714.29	6.10	774.181	0			
5,430.00	5,422.44	700.00	699.96	5.75	1.21	-158.54	4,724.06	4,717.96	6.10	774.550	0			
5,460.00	5,452.44	700.00	699.96	5.78	1.21	-161.15	4,754.05	4,747.94	6.11	777.555	0			
5,490.00	5,482.44	700.00	699.96	5.82	1.21	-162.95	4,784.04	4,777.91	6.13	780.546	0			
5,520.00	5,512.44	700.00	699.96	5.85	1.21	-164.41	4,814.04	4,807.89	6.14	783.522	0			
5,521.18	5,513.62	700.00	699.96	5.85	1.21	-164.46	4,815.22	4,809.07	6.14	783.639	0			
5,550.00	5,542.44	700.00	699.96	5.88	1.21	-165.30	4,844.03	4,837.87	6.16	786.484	0			
5,580.00	5,572.44	700.00	699.96	5.91	1.21	-166.21	4,874.02	4,867.85	6.17	789.432	0			
5,610.00	5,602.44	700.00	699.96	5.94	1.21	-167.16	4,904.02	4,897.83	6.19	792.365	0			
5,615.03	5,607.47	700.00	699.96	5.94	1.21	-167.32	4,909.04	4,902.85	6.19	792.855	0			
5,640.00	5,632.44	700.00	699.96	5.97	1.21	-167.46	4,934.01	4,927.81	6.20	795.284	0			
5,670.00	5,662.44	700.00	699.96	6.00	1.21	-167.62	4,964.00	4,957.78	6.22	798.188	0			
5,700.00	5,692.44	700.00	699.96	6.03	1.21	-167.77	4,994.00	4,987.76	6.23	801.079	0			
5,709.63	5,702.07	700.00	699.96	6.04	1.21	-167.82	5,003.62	4,997.38	6.24	802.004	0			
5,730.00	5,722.44	700.00	699.96	6.06	1.21	171.48	5,023.99	5,017.74	6.25	803.956	0			
5,760.00	5,752.44	700.00	699.96	6.10	1.21	154.50	5,053.98	5,047.72	6.26	806.819	0			
5,790.00	5,782.44	700.00	699.96	6.13	1.21	140.67	5,083.98	5,077.70	6.28	809.669	0			
5,804.78	5,797.21	700.00	699.96	6.14	1.21	133.53	5,098.76	5,092.47	6.29	811.069	0			
5,820.00	5,812.43	700.00	699.96	6.16	1.21	125.00	5,113.98	5,107.68	6.29	812.506	0			
5,850.00	5,842.43	700.00	699.96	6.19	1.21	107.17	5,143.98	5,137.67	6.31	815.329	0			
5,880.00	5,872.42	700.00	699.96	6.22	1.21	89.15	5,173.97	5,167.65	6.32	818.139	0			
5,899.68	5,892.10	700.00	699.96	6.24	1.21	78.25	5,193.65	5,187.32	6.33	819.975	0			
5,910.00	5,902.41	700.00	699.96	6.25	1.21	76.51	5,203.97	5,197.63	6.34	820.935	0			
5,940.00	5,932.41	700.00	699.96	6.29	1.21	71.83	5,233.97	5,227.62	6.35	823.718	0			
5,970.00	5,962.40	700.00	699.96	6.32	1.21	67.63	5,263.97	5,257.60	6.37	826.488	0			
5,994.87	5,987.26	700.00	699.96	6.34	1.21	64.47	5,288.83	5,282.45	6.38	828.775	0			
6,000.00	5,992.39	700.00	699.96	6.35	1.21	64.76	5,293.96	5,287.58	6.38	829.245	0			
6,030.00	6,022.38	700.00	699.96	6.38	1.21	66.34	5,323.96	5,317.56	6.40	831.989	0			
6,060.00	6,052.37	700.00	699.96	6.41	1.21	67.68	5,353.96	5,347.54	6.41	834.720	0			
6,089.77	6,082.13	700.00	699.96	6.45	1.21	68.76	5,383.72	5,377.30	6.43	837.418	0			
6,090.00	6,082.36	700.00	699.96	6.45	1.21	68.76	5,383.95	5,377.52	6.43	837.438	0			
6,120.00	6,112.35	700.00	699.96	6.48	1.21	65.89	5,413.95	5,407.51	6.44	840.144	0			
6,150.00	6,142.34	700.00	699.96	6.51	1.21	63.25	5,443.95	5,437.49	6.46	842.837	0			
6,180.00	6,172.33	700.00	699.96	6.54	1.21	60.79	5,473.94	5,467.47	6.47	845.517	0			
6,185.13	6,177.45	700.00	699.96	6.55	1.21	60.39	5,479.07	5,472.59	6.48	845.974	0			
6,210.00	6,202.32	700.00	699.96	6.57	1.21	60.25	5,503.94	5,497.45	6.49	848.185	0			
6,240.00	6,232.30	700.00	699.96	6.61	1.21	60.06	5,533.93	5,527.43	6.50	850.841	0			
6,270.00	6,262.29	700.00	699.96	6.64	1.21	59.87	5,563.93	5,557.41	6.52	853.484	0			
6,280.58	6,272.87	700.00	699.96	6.65	1.21	59.79	5,574.50	5,567.98	6.52	854.414	0			
6,300.00	6,292.28	700.00	699.96	6.67	1.21	60.23	5,593.92	5,587.39	6.53	856.116	0			
6,330.00	6,322.27	700.00	699.96	6.70	1.21	60.81	5,623.91	5,617.37	6.55	858.735	0			
6,360.00	6,352.26	700.00	699.96	6.73	1.21	61.27	5,653.91	5,647.35	6.56	861.342	0			
6,374.61	6,366.87	700.00	699.96	6.75	1.21	61.45	5,668.52	5,661.94	6.57	862.607	0			
6,390.00	6,382.25	700.00	699.96	6.77	1.21	60.75	5,683.90	5,677.32	6.58	863.937	0			
6,420.00	6,412.24	700.00	699.96	6.80	1.21	59.42	5,713.90	5,707.30	6.59	866.521	0			
6,450.00	6,442.23	700.00	699.96	6.83	1.21	58.13	5,743.89	5,737.28	6.61	869.093	0			
6,469.73	6,461.95	700.00	699.96	6.85	1.21	57.30	5,763.62	5,757.00	6.62	870.778	0			
6,480.00	6,472.22	700.00	699.96	6.86	1.21	57.53	5,773.88	5,767.26	6.62	871.653	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
6,510.00	6,502.21	700.00	699.96	6.89	1.21	58.18	5,803.88	5,797.24	6.64	874.201	0			
6,540.00	6,532.20	700.00	699.96	6.93	1.21	58.80	5,833.87	5,827.22	6.65	876.738	0			
6,564.94	6,557.13	700.00	699.96	6.95	1.21	59.28	5,858.81	5,852.14	6.67	878.839	0			
6,570.00	6,562.19	700.00	699.96	6.96	1.21	59.08	5,863.87	5,857.20	6.67	879.264	0			
6,600.00	6,592.17	700.00	699.96	6.99	1.21	57.80	5,893.86	5,887.18	6.68	881.779	0			
6,630.00	6,622.16	700.00	699.96	7.02	1.21	56.37	5,923.86	5,917.16	6.70	884.282	0			
6,660.00	6,652.15	700.00	699.96	7.05	1.21	54.79	5,953.85	5,947.14	6.71	886.774	0			
6,660.48	6,652.63	700.00	699.96	7.05	1.21	54.76	5,954.33	5,947.62	6.71	886.814	0			
6,690.00	6,682.14	700.00	699.96	7.09	1.21	53.03	5,983.85	5,977.12	6.73	889.255	0			
6,720.00	6,712.12	700.00	699.96	7.12	1.21	51.33	6,013.84	6,007.10	6.74	891.725	0			
6,750.00	6,742.11	700.00	699.96	7.15	1.21	49.67	6,043.84	6,037.08	6.76	894.184	0			
6,755.45	6,747.56	700.00	699.96	7.16	1.21	49.37	6,049.29	6,042.53	6.76	894.630	0			
6,780.00	6,772.10	700.00	699.96	7.18	1.21	51.39	6,073.84	6,067.06	6.77	896.632	0			
6,810.00	6,802.08	700.00	699.96	7.21	1.21	54.05	6,103.83	6,097.04	6.79	899.070	0			
6,840.00	6,832.07	700.00	699.96	7.25	1.21	56.96	6,133.83	6,127.02	6.80	901.496	0			
6,849.94	6,842.01	700.00	699.96	7.26	1.21	57.99	6,143.77	6,136.96	6.81	902.298	0			
6,870.00	6,862.06	700.00	699.96	7.28	1.21	63.10	6,163.82	6,157.00	6.82	903.912	0			
6,900.00	6,892.05	700.00	699.96	7.31	1.21	72.09	6,193.82	6,186.99	6.83	906.318	0			
6,930.00	6,922.04	700.00	699.96	7.34	1.21	82.82	6,223.82	6,216.97	6.85	908.713	0			
6,945.10	6,937.14	700.00	699.96	7.36	1.21	88.86	6,238.92	6,232.06	6.86	909.914	0			
6,960.00	6,952.04	700.00	699.96	7.37	1.21	94.68	6,253.82	6,246.95	6.86	911.097	0			
6,990.00	6,982.03	700.00	699.96	7.41	1.21	107.73	6,283.81	6,276.94	6.88	913.472	0			
7,020.00	7,012.03	700.00	699.96	7.44	1.21	122.23	6,313.81	6,306.92	6.89	915.836	0			
7,040.31	7,032.33	700.00	699.96	7.46	1.21	132.59	6,334.12	6,327.22	6.90	917.430	0			
7,050.00	7,042.02	700.00	699.96	7.47	1.21	136.87	6,343.81	6,336.90	6.91	918.189	0			
7,080.00	7,072.02	700.00	699.96	7.50	1.21	150.33	6,373.81	6,366.89	6.92	920.533	0			
7,110.00	7,102.02	700.00	699.96	7.53	1.21	163.94	6,403.81	6,396.87	6.94	922.866	0			
7,135.43	7,127.44	700.00	699.96	7.56	1.21	175.60	6,429.24	6,422.28	6.95	924.836	0			
7,140.00	7,132.01	700.00	699.96	7.56	1.21	177.49	6,433.81	6,426.85	6.95	925.189	0			
7,170.00	7,162.01	700.00	699.96	7.60	1.21	-170.00	6,463.80	6,456.83	6.97	927.503	0			
7,200.00	7,192.01	700.00	699.96	7.63	1.21	-157.50	6,493.80	6,486.82	6.98	929.806	0			
7,230.00	7,222.01	700.00	699.96	7.66	1.21	-145.19	6,523.80	6,516.80	7.00	932.099	0			
7,230.68	7,222.69	700.00	699.96	7.66	1.21	-144.91	6,524.48	6,517.48	7.00	932.151	0			
7,260.00	7,252.01	700.00	699.96	7.69	1.21	-137.18	6,553.79	6,546.78	7.01	934.383	0			
7,290.00	7,282.01	700.00	699.96	7.72	1.21	-129.65	6,583.79	6,576.76	7.03	936.657	0			
7,320.00	7,312.00	700.00	699.96	7.75	1.21	-122.55	6,613.79	6,606.74	7.04	938.921	0			
7,324.74	7,316.74	700.00	699.96	7.76	1.21	-121.47	6,618.53	6,611.48	7.05	939.278	0			
7,350.00	7,342.00	700.00	699.96	7.78	1.21	-142.78	6,643.79	6,636.73	7.06	941.175	0			
7,380.00	7,372.00	700.00	699.96	7.82	1.21	-170.69	6,673.78	6,666.71	7.07	943.420	0			
7,410.00	7,402.00	700.00	699.96	7.85	1.21	160.14	6,703.78	6,696.69	7.09	945.656	0			
7,419.92	7,411.92	700.00	699.96	7.86	1.21	150.55	6,713.70	6,706.61	7.09	946.393	0			
7,440.00	7,431.99	700.00	699.96	7.88	1.21	142.56	6,733.78	6,726.68	7.10	947.882	0			
7,470.00	7,461.99	700.00	699.96	7.91	1.21	131.09	6,763.78	6,756.66	7.12	950.099	0			
7,500.00	7,491.99	700.00	699.96	7.94	1.21	120.36	6,793.78	6,786.64	7.13	952.306	0			
7,513.87	7,505.86	700.00	699.96	7.96	1.21	115.68	6,807.65	6,800.51	7.14	953.324	0			
7,530.00	7,521.98	700.00	699.96	7.97	1.21	121.74	6,823.78	6,816.63	7.15	954.505	0			
7,560.00	7,551.98	700.00	699.96	8.00	1.21	134.11	6,853.77	6,846.61	7.16	956.694	0			
7,590.00	7,581.98	700.00	699.96	8.04	1.21	147.81	6,883.77	6,876.59	7.18	958.873	0			
7,608.87	7,600.85	700.00	699.96	8.06	1.21	157.00	6,902.64	6,895.45	7.19	960.240	0			
7,620.00	7,611.97	700.00	699.96	8.07	1.21	165.07	6,913.77	6,906.58	7.19	961.044	0			
7,650.00	7,641.97	700.00	699.96	8.10	1.21	-172.61	6,943.77	6,936.56	7.21	963.206	0			
7,680.00	7,671.97	700.00	699.96	8.13	1.21	-150.95	6,973.77	6,966.55	7.22	965.359	0			
7,703.72	7,695.69	700.00	699.96	8.16	1.21	-135.34	6,997.49	6,990.25	7.24	967.055	0			
7,710.00	7,701.97	700.00	699.96	8.16	1.21	-130.32	7,003.77	6,996.53	7.24	967.503	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
7,740.00	7,731.96	700.00	699.96	8.19	1.21	-109.41	7,033.77	7,026.51	7.25	969.638	0			
7,770.00	7,761.96	700.00	699.96	8.23	1.21	-92.85	7,063.76	7,056.49	7.27	971.764	0			
7,798.91	7,790.86	700.00	699.96	8.26	1.21	-80.17	7,092.67	7,085.39	7.28	973.805	0			
7,800.00	7,791.95	700.00	699.96	8.26	1.21	-80.10	7,093.76	7,086.48	7.28	973.882	0			
7,830.00	7,821.95	700.00	699.96	8.29	1.21	-76.55	7,123.76	7,116.46	7.30	975.990	0			
7,860.00	7,851.95	700.00	699.96	8.32	1.21	-70.46	7,153.75	7,146.44	7.31	978.090	0			
7,890.00	7,881.94	700.00	699.96	8.35	1.21	-62.75	7,183.74	7,176.41	7.33	980.181	0			
7,893.61	7,885.55	700.00	699.96	8.35	1.21	-61.76	7,187.35	7,180.02	7.33	980.432	0			
7,920.00	7,911.94	700.00	699.96	8.38	1.21	-70.22	7,213.73	7,206.39	7.34	982.263	0			
7,950.00	7,941.94	700.00	699.96	8.41	1.21	-61.33	7,243.72	7,236.37	7.36	984.337	0			
7,980.00	7,971.94	700.00	699.96	8.44	1.21	31.30	7,273.72	7,266.34	7.37	986.403	0			
7,988.45	7,980.39	700.00	699.96	8.45	1.21	37.31	7,282.16	7,274.78	7.38	986.983	0			
8,010.00	8,001.94	700.00	699.96	8.47	1.21	42.05	7,303.70	7,296.32	7.39	988.459	0			
8,040.00	8,031.94	700.00	699.96	8.50	1.21	44.77	7,333.69	7,326.29	7.40	990.508	0			
8,070.00	8,061.93	700.00	699.96	8.53	1.21	45.10	7,363.68	7,356.26	7.42	992.548	0			
8,083.06	8,074.99	700.00	699.96	8.55	1.21	44.82	7,376.74	7,369.31	7.43	993.433	0			
8,100.00	8,091.93	700.00	699.96	8.57	1.21	44.10	7,393.67	7,386.24	7.43	994.579	0			
8,130.00	8,121.93	700.00	699.96	8.60	1.21	42.56	7,423.66	7,416.21	7.45	996.603	0			
8,160.00	8,151.93	700.00	699.96	8.63	1.21	40.63	7,453.65	7,446.18	7.46	998.618	0			
8,177.88	8,169.81	700.00	699.96	8.65	1.21	39.28	7,471.52	7,464.05	7.47	999.815	0			
8,190.00	8,181.93	700.00	699.96	8.66	1.21	36.72	7,483.63	7,476.16	7.48	1,000.625	0			
8,220.00	8,211.92	700.00	699.96	8.69	1.21	30.52	7,513.62	7,506.13	7.49	1,002.624	0			
8,250.00	8,241.92	700.00	699.96	8.72	1.21	24.75	7,543.61	7,536.10	7.51	1,004.616	0			
8,273.10	8,265.02	700.00	699.96	8.74	1.21	20.75	7,566.70	7,559.18	7.52	1,006.143	0			
8,280.00	8,271.92	700.00	699.96	8.75	1.21	19.67	7,573.59	7,566.07	7.52	1,006.599	0			
8,310.00	8,301.92	700.00	699.96	8.78	1.21	15.23	7,603.58	7,596.04	7.54	1,008.574	0			
8,340.00	8,331.92	700.00	699.96	8.81	1.21	11.27	7,633.56	7,626.01	7.55	1,010.541	0			
8,368.22	8,360.13	700.00	699.96	8.84	1.21	8.04	7,661.76	7,654.20	7.57	1,012.384	0			
8,370.00	8,361.91	700.00	699.96	8.84	1.21	7.49	7,663.54	7,655.97	7.57	1,012.500	0			
8,400.00	8,391.91	700.00	699.96	8.87	1.21	-15.32	7,693.53	7,685.95	7.58	1,014.452	0			
8,430.00	8,421.91	700.00	699.96	8.90	1.21	-57.93	7,723.52	7,715.92	7.60	1,016.397	0			
8,460.00	8,451.91	700.00	699.96	8.93	1.21	-63.60	7,753.51	7,745.90	7.61	1,018.335	0			
8,462.94	8,454.85	700.00	699.96	8.94	1.21	-62.82	7,756.45	7,748.84	7.62	1,018.524	0			
8,490.00	8,481.90	700.00	699.96	8.96	1.21	-66.21	7,783.51	7,775.88	7.63	1,020.265	0			
8,520.00	8,511.90	700.00	699.96	9.00	1.21	-65.00	7,813.50	7,805.86	7.64	1,022.187	0			
8,550.00	8,541.89	700.00	699.96	9.03	1.21	-58.94	7,843.50	7,835.84	7.66	1,024.103	0			
8,557.71	8,549.60	700.00	699.96	9.04	1.21	-56.77	7,851.21	7,843.54	7.66	1,024.594	0			
8,580.00	8,571.88	700.00	699.96	9.06	1.21	-57.47	7,873.49	7,865.82	7.67	1,026.010	0			
8,610.00	8,601.88	700.00	699.96	9.09	1.21	-57.47	7,903.49	7,895.80	7.69	1,027.911	0			
8,640.00	8,631.87	700.00	699.96	9.12	1.21	-55.92	7,933.49	7,925.79	7.70	1,029.804	0			
8,653.00	8,644.86	700.00	699.96	9.14	1.21	-54.62	7,946.49	7,938.78	7.71	1,030.622	0			
8,670.00	8,661.86	700.00	699.96	9.15	1.21	-54.60	7,963.49	7,955.77	7.72	1,031.689	0			
8,700.00	8,691.85	700.00	699.96	9.19	1.21	-54.53	7,993.49	7,985.75	7.73	1,033.567	0			
8,722.40	8,714.24	700.00	699.96	9.21	1.21	-54.46	8,015.88	8,008.14	7.75	1,034.965	0			
8,730.00	8,721.84	700.00	699.96	9.21	1.21	-41.09	8,023.48	8,014.76	8.73	919.286	0			
8,760.00	8,751.82	700.00	699.96	9.23	1.21	-17.37	8,053.48	8,040.88	12.60	639.224	0			
8,790.00	8,781.79	700.00	699.96	9.25	1.21	-10.17	8,083.47	8,066.99	16.47	490.732	0			
8,814.00	8,805.74	700.00	699.96	9.27	1.21	-7.48	8,107.44	8,087.87	19.57	414.221	0			
8,820.00	8,811.73	700.00	699.96	9.27	1.21	-5.17	8,113.43	8,093.85	19.59	414.197	0			
8,846.00	8,837.57	700.00	699.96	9.27	1.21	-1.86	8,139.33	8,119.67	19.66	414.086	0			
8,850.00	8,841.53	700.00	699.96	9.27	1.21	-1.61	8,143.30	8,123.63	19.67	414.076	0			
8,877.00	8,868.06	700.00	699.96	9.28	1.21	-0.78	8,169.93	8,150.20	19.73	413.997	0			
8,880.00	8,870.99	700.00	699.96	9.28	1.21	-0.74	8,172.87	8,153.13	19.74	413.992	0			
8,909.00	8,899.04	700.00	699.96	9.29	1.21	-0.44	8,201.07	8,181.26	19.81	413.932	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1													Offset Well Error:	0.00 ft
Survey Program: 700-MWD+IGRF														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
8,910.00	8,900.00	700.00	699.96	9.29	1.21	-0.44	8,202.04	8,182.22	19.82	413.930	0			
8,940.00	8,928.62	700.00	699.96	9.31	1.21	-0.39	8,230.85	8,210.97	19.89	413.861	0			
8,941.00	8,929.57	700.00	699.96	9.31	1.21	-0.39	8,231.81	8,211.92	19.89	413.859	0			
8,970.00	8,956.81	700.00	699.96	9.33	1.21	-0.33	8,259.28	8,239.32	19.96	413.805	0			
8,972.00	8,958.67	700.00	699.96	9.33	1.21	-0.33	8,261.16	8,241.19	19.96	413.801	0			
9,000.00	8,984.37	700.00	699.96	9.35	1.21	-0.16	8,287.12	8,267.10	20.03	413.787	0			
9,004.00	8,987.99	700.00	699.96	9.36	1.21	-0.14	8,290.78	8,270.75	20.04	413.782	0			
9,030.00	9,011.17	700.00	699.96	9.39	1.21	-0.01	8,314.27	8,294.18	20.09	413.792	0			
9,035.00	9,015.56	700.00	699.96	9.40	1.21	0.01	8,318.72	8,298.62	20.10	413.791	0			
9,060.00	9,037.24	700.00	699.96	9.44	1.21	0.08	8,340.74	8,320.58	20.16	413.788	0			
9,067.00	9,043.22	700.00	699.96	9.45	1.21	0.10	8,346.83	8,326.66	20.17	413.783	0			
9,090.00	9,062.61	700.00	699.96	9.50	1.21	0.00	8,366.58	8,346.36	20.22	413.781	0			
9,099.00	9,070.07	700.00	699.96	9.52	1.21	-0.03	8,374.19	8,353.95	20.24	413.774	0			
9,120.00	9,087.08	700.00	699.96	9.58	1.21	-0.04	8,391.59	8,371.31	20.28	413.810	0			
9,131.00	9,095.74	700.00	699.96	9.62	1.21	-0.04	8,400.47	8,380.17	20.30	413.816	0			
9,150.00	9,110.32	700.00	699.96	9.68	1.21	0.05	8,415.45	8,395.12	20.33	413.861	0			
9,162.00	9,119.30	700.00	699.96	9.73	1.21	0.10	8,424.70	8,404.35	20.36	413.877	0			
9,180.00	9,132.45	700.00	699.96	9.81	1.21	0.19	8,438.30	8,417.91	20.39	413.889	0			
9,194.00	9,142.45	700.00	699.96	9.87	1.21	0.25	8,448.66	8,428.25	20.41	413.888	0			
9,210.00	9,153.61	700.00	699.96	9.95	1.21	0.28	8,460.25	8,439.81	20.44	413.889	0			
9,226.00	9,164.45	700.00	699.96	10.03	1.21	0.30	8,471.56	8,451.09	20.47	413.876	0			
9,240.00	9,173.67	700.00	699.96	10.12	1.21	0.29	8,481.20	8,460.71	20.49	413.878	0			
9,257.00	9,184.50	700.00	699.96	10.22	1.21	0.29	8,492.58	8,472.06	20.52	413.863	0			
9,270.00	9,192.49	700.00	699.96	10.31	1.21	0.28	8,501.01	8,480.47	20.54	413.862	0			
9,289.00	9,203.66	700.00	699.96	10.44	1.21	0.27	8,512.87	8,492.30	20.57	413.836	0			
9,300.00	9,209.88	700.00	699.96	10.53	1.21	0.28	8,519.51	8,498.92	20.59	413.818	0			
9,320.00	9,220.81	700.00	699.96	10.68	1.21	0.30	8,531.23	8,510.61	20.62	413.766	0			
9,330.00	9,226.09	700.00	699.96	10.77	1.21	0.31	8,536.93	8,516.29	20.63	413.723	0			
9,352.00	9,237.36	700.00	699.96	10.96	1.21	0.33	8,549.14	8,528.47	20.67	413.612	0			
9,360.00	9,241.32	700.00	699.96	11.04	1.21	0.32	8,553.47	8,532.78	20.68	413.568	0			
9,384.00	9,252.73	700.00	699.96	11.26	1.21	0.30	8,566.00	8,545.28	20.72	413.413	0			
9,390.00	9,255.47	700.00	699.96	11.33	1.21	0.29	8,569.03	8,548.30	20.73	413.374	0			
9,415.00	9,266.31	700.00	699.96	11.59	1.21	0.25	8,581.15	8,560.38	20.77	413.188	0			
9,420.00	9,268.37	700.00	699.96	11.64	1.21	0.24	8,583.47	8,562.70	20.78	413.147	0			
9,447.00	9,278.88	700.00	699.96	11.95	1.21	0.21	8,595.47	8,574.65	20.82	412.899	0			
9,450.00	9,279.98	700.00	699.96	11.98	1.21	0.21	8,596.74	8,575.92	20.82	412.867	0			
9,479.00	9,290.18	700.00	699.96	12.33	1.21	0.20	8,608.65	8,587.78	20.87	412.534	0			
9,480.00	9,290.52	700.00	699.96	12.35	1.21	0.20	8,609.05	8,588.18	20.87	412.520	0			
9,510.00	9,300.29	700.00	699.96	12.73	1.21	0.20	8,620.70	8,599.78	20.92	412.097	0			
9,511.00	9,300.61	700.00	699.96	12.74	1.21	0.20	8,621.08	8,600.16	20.92	412.082	0			
9,540.00	9,309.35	700.00	699.96	13.13	1.21	0.11	8,631.75	8,610.78	20.97	411.621	0			
9,542.00	9,309.92	700.00	699.96	13.16	1.21	0.10	8,632.46	8,611.48	20.97	411.588	0			
9,570.00	9,317.34	700.00	699.96	13.56	1.21	-0.01	8,641.84	8,620.82	21.02	411.110	0			
9,574.00	9,318.30	700.00	699.96	13.61	1.21	-0.03	8,643.09	8,622.06	21.03	411.038	0			
9,600.00	9,323.85	700.00	699.96	14.01	1.21	-0.11	8,650.58	8,629.51	21.07	410.554	0			
9,605.00	9,324.77	700.00	699.96	14.08	1.21	-0.12	8,651.89	8,630.81	21.08	410.456	0			
9,630.00	9,328.67	700.00	699.96	14.47	1.21	-0.11	8,657.76	8,636.64	21.12	409.930	0			
9,636.00	9,329.42	700.00	699.96	14.57	1.21	-0.10	8,659.00	8,637.87	21.13	409.797	0			
9,660.00	9,331.90	700.00	699.96	14.95	1.21	-0.09	8,663.48	8,642.31	21.17	409.225	0			
9,664.00	9,332.24	700.00	699.96	15.02	1.21	-0.09	8,664.15	8,642.97	21.18	409.127	0			
9,690.00	9,333.83	700.00	699.96	15.44	1.21	-0.03	8,668.00	8,646.77	21.22	408.440	0			
9,695.00	9,334.01	700.00	699.96	15.53	1.21	-0.01	8,668.62	8,647.39	21.23	408.303	0			
9,720.00	9,334.66	700.00	699.96	15.94	1.21	0.03	8,671.53	8,650.26	21.28	407.581	0			
9,727.00	9,334.77	700.00	699.96	16.06	1.21	0.04	8,672.29	8,651.00	21.29	407.377	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
9,750.00	9,335.07	700.00	699.96	16.45	1.21	0.06	8,674.76	8,653.42	21.33	406.661	0			
9,759.00	9,335.18	700.00	699.96	16.61	1.21	0.07	8,675.72	8,654.38	21.35	406.382	0			
9,780.00	9,335.40	700.00	699.96	16.97	1.21	0.08	8,678.00	8,656.61	21.39	405.653	0			
9,810.00	9,335.69	700.00	699.96	17.50	1.21	0.08	8,681.30	8,659.85	21.46	404.623	0			
9,840.00	9,335.93	700.00	699.96	18.02	1.21	0.08	8,684.67	8,663.15	21.52	403.603	0			
9,854.00	9,336.03	700.00	699.96	18.27	1.21	0.09	8,686.26	8,664.71	21.55	403.132	0			
9,870.00	9,336.14	700.00	699.96	18.56	1.21	0.11	8,688.10	8,666.52	21.58	402.509	0			
9,900.00	9,336.37	700.00	699.96	19.10	1.21	0.15	8,691.65	8,670.00	21.66	401.356	0			
9,930.00	9,336.62	700.00	699.96	19.64	1.21	0.19	8,695.33	8,673.60	21.73	400.218	0			
9,948.00	9,336.78	700.00	699.96	19.96	1.21	0.22	8,697.60	8,675.83	21.77	399.543	0			
9,960.00	9,336.88	700.00	699.96	20.18	1.21	0.23	8,699.11	8,677.31	21.80	399.038	0			
9,990.00	9,336.99	700.00	699.96	20.73	1.21	0.24	8,702.85	8,680.97	21.88	397.781	0			
10,020.00	9,336.90	700.00	699.96	21.29	1.21	0.26	8,706.50	8,684.54	21.96	396.532	0			
10,043.00	9,336.71	700.00	699.96	21.71	1.21	0.27	8,709.24	8,687.22	22.02	395.580	0			
10,050.00	9,336.64	700.00	699.96	21.84	1.21	0.27	8,710.07	8,688.03	22.04	395.257	0			
10,080.00	9,336.49	700.00	699.96	22.40	1.21	0.25	8,713.85	8,691.73	22.12	393.891	0			
10,110.00	9,336.57	700.00	699.96	22.96	1.21	0.22	8,717.97	8,695.76	22.21	392.555	0			
10,137.00	9,336.84	700.00	699.96	23.47	1.21	0.21	8,721.96	8,699.67	22.29	391.377	0			
10,140.00	9,336.88	700.00	699.96	23.53	1.21	0.20	8,722.42	8,700.12	22.29	391.233	0			
10,170.00	9,337.24	700.00	699.96	24.10	1.21	0.16	8,727.01	8,704.63	22.39	389.806	0			
10,200.00	9,337.52	700.00	699.96	24.68	1.21	0.11	8,731.63	8,709.15	22.48	388.395	0			
10,230.00	9,337.71	700.00	699.96	25.25	1.21	0.07	8,736.26	8,713.69	22.57	387.000	0			
10,232.00	9,337.72	700.00	699.96	25.29	1.21	0.06	8,736.57	8,713.99	22.58	386.908	0			
10,260.00	9,337.94	700.00	699.96	25.84	1.21	0.06	8,741.03	8,718.36	22.67	385.508	0			
10,290.00	9,338.37	700.00	699.96	26.42	1.21	0.05	8,746.10	8,723.32	22.77	384.037	0			
10,320.00	9,338.99	700.00	699.96	27.00	1.21	0.04	8,751.45	8,728.58	22.87	382.597	0			
10,327.00	9,339.16	700.00	699.96	27.14	1.21	0.04	8,752.74	8,729.85	22.90	382.265	0			
10,350.00	9,339.75	700.00	699.96	27.59	1.21	0.04	8,757.05	8,734.07	22.98	381.089	0			
10,380.00	9,340.54	700.00	699.96	28.18	1.21	0.05	8,762.77	8,739.68	23.09	379.577	0			
10,410.00	9,341.35	700.00	699.96	28.77	1.21	0.06	8,768.60	8,745.41	23.19	378.089	0			
10,422.00	9,341.67	700.00	699.96	29.01	1.21	0.06	8,770.97	8,747.73	23.23	377.500	0			
10,440.00	9,342.12	700.00	699.96	29.36	1.21	0.11	8,774.50	8,751.20	23.30	376.567	0			
10,470.00	9,342.67	700.00	699.96	29.95	1.21	0.20	8,780.28	8,756.86	23.41	375.022	0			
10,500.00	9,342.96	700.00	699.96	30.55	1.21	0.28	8,785.90	8,762.38	23.52	373.492	0			
10,516.00	9,343.01	700.00	699.96	30.86	1.21	0.33	8,788.84	8,765.26	23.58	372.681	0			
10,530.00	9,343.00	700.00	699.96	31.14	1.21	0.35	8,791.38	8,767.74	23.64	371.936	0			
10,560.00	9,342.82	700.00	699.96	31.73	1.21	0.38	8,796.73	8,772.98	23.75	370.351	0			
10,590.00	9,342.41	700.00	699.96	32.32	1.21	0.41	8,801.97	8,778.10	23.87	368.782	0			
10,611.00	9,341.99	700.00	699.96	32.73	1.21	0.43	8,805.56	8,781.61	23.95	367.693	0			
10,620.00	9,341.80	700.00	699.96	32.91	1.21	0.42	8,807.09	8,783.11	23.98	367.201	0			
10,650.00	9,341.27	700.00	699.96	33.50	1.21	0.36	8,812.41	8,788.31	24.11	365.582	0			
10,680.00	9,340.94	700.00	699.96	34.09	1.21	0.31	8,818.01	8,793.79	24.23	363.996	0			
10,706.00	9,340.81	700.00	699.96	34.61	1.21	0.26	8,823.10	8,798.77	24.33	362.648	0			
10,710.00	9,340.80	700.00	699.96	34.69	1.21	0.24	8,823.90	8,799.56	24.35	362.429	0			
10,740.00	9,340.87	700.00	699.96	35.29	1.21	0.12	8,830.10	8,805.63	24.47	360.814	0			
10,770.00	9,341.19	700.00	699.96	35.89	1.21	0.00	8,836.63	8,812.04	24.60	359.233	0			
10,800.00	9,341.74	700.00	699.96	36.50	1.21	-0.13	8,843.49	8,818.77	24.72	357.686	0			
10,801.00	9,341.76	700.00	699.96	36.52	1.21	-0.13	8,843.73	8,819.00	24.73	357.635	0			
10,830.00	9,342.38	700.00	699.96	37.11	1.21	-0.13	8,850.54	8,825.68	24.85	356.098	0			
10,860.00	9,342.94	700.00	699.96	37.72	1.21	-0.13	8,857.60	8,832.62	24.98	354.530	0			
10,890.00	9,343.44	700.00	699.96	38.33	1.21	-0.13	8,864.69	8,839.58	25.11	352.986	0			
10,896.00	9,343.52	700.00	699.96	38.45	1.21	-0.13	8,866.12	8,840.98	25.14	352.680	0			
10,920.00	9,343.90	700.00	699.96	38.94	1.21	-0.23	8,871.85	8,846.61	25.25	351.414	0			
10,950.00	9,344.44	700.00	699.96	39.56	1.21	-0.35	8,879.18	8,853.80	25.38	349.858	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1													Offset Well Error:	0.00 ft
Survey Program: 700-MWD+IGRF														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
10,980.00	9,345.05	700.00	699.96	40.17	1.21	-0.47	8,886.67	8,861.16	25.51	348.330	0			
10,991.00	9,345.29	700.00	699.96	40.40	1.21	-0.51	8,889.46	8,863.90	25.56	347.777	0			
11,010.00	9,345.70	700.00	699.96	40.79	1.21	-0.51	8,894.29	8,868.64	25.65	346.792	0			
11,040.00	9,346.24	700.00	699.96	41.41	1.21	-0.51	8,901.90	8,876.12	25.78	345.253	0			
11,070.00	9,346.67	700.00	699.96	42.03	1.21	-0.51	8,909.50	8,883.58	25.92	343.736	0			
11,086.00	9,346.85	700.00	699.96	42.36	1.21	-0.51	8,913.54	8,887.55	25.99	342.936	0			
11,100.00	9,347.00	700.00	699.96	42.65	1.21	-0.56	8,917.09	8,891.04	26.06	342.216	0			
11,130.00	9,347.38	700.00	699.96	43.28	1.21	-0.67	8,924.83	8,898.63	26.20	340.693	0			
11,160.00	9,347.82	700.00	699.96	43.90	1.21	-0.78	8,932.72	8,906.38	26.33	339.199	0			
11,181.00	9,348.18	700.00	699.96	44.34	1.21	-0.85	8,938.33	8,911.90	26.43	338.169	0			
11,190.00	9,348.34	700.00	699.96	44.53	1.21	-0.82	8,940.76	8,914.29	26.47	337.716	0			
11,220.00	9,348.88	700.00	699.96	45.16	1.21	-0.71	8,948.93	8,922.32	26.62	336.223	0			
11,250.00	9,349.44	700.00	699.96	45.78	1.21	-0.61	8,957.22	8,930.46	26.76	334.757	0			
11,273.00	9,349.89	700.00	699.96	46.26	1.21	-0.52	8,963.65	8,936.78	26.87	333.650	0			
11,280.00	9,350.04	700.00	699.96	46.41	1.21	-0.57	8,965.63	8,938.73	26.90	333.305	0			
11,310.00	9,351.00	700.00	699.96	47.04	1.21	-0.79	8,974.48	8,947.44	27.04	331.852	0			
11,340.00	9,352.49	700.00	699.96	47.67	1.21	-1.01	8,983.92	8,956.73	27.19	330.442	0			
11,369.00	9,354.42	700.00	699.96	48.28	1.21	-1.23	8,993.59	8,966.26	27.33	329.116	0			
11,370.00	9,354.49	700.00	699.96	48.30	1.21	-1.22	8,993.93	8,966.60	27.33	329.070	0			
11,400.00	9,356.52	700.00	699.96	48.93	1.21	-1.05	9,004.05	8,976.57	27.48	327.690	0			
11,430.00	9,358.13	700.00	699.96	49.57	1.21	-0.88	9,013.87	8,986.25	27.62	326.321	0			
11,460.00	9,359.33	700.00	699.96	50.20	1.21	-0.71	9,023.39	8,995.63	27.77	324.963	0			
11,464.00	9,359.45	700.00	699.96	50.28	1.21	-0.69	9,024.64	8,996.85	27.79	324.782	0			
11,490.00	9,360.19	700.00	699.96	50.83	1.21	-0.55	9,032.69	9,004.78	27.91	323.591	0			
11,520.00	9,360.85	700.00	699.96	51.45	1.21	-0.38	9,041.89	9,013.83	28.06	322.233	0			
11,550.00	9,361.31	700.00	699.96	52.08	1.21	-0.22	9,050.99	9,022.78	28.21	320.891	0			
11,559.00	9,361.40	700.00	699.96	52.27	1.21	-0.17	9,053.70	9,025.45	28.25	320.492	0			
11,580.00	9,361.56	700.00	699.96	52.71	1.21	-0.25	9,059.98	9,031.63	28.35	319.540	0			
11,610.00	9,361.61	700.00	699.96	53.33	1.21	-0.37	9,068.87	9,040.37	28.50	318.195	0			
11,640.00	9,361.45	700.00	699.96	53.96	1.21	-0.48	9,077.66	9,049.01	28.65	316.866	0			
11,654.00	9,361.31	700.00	699.96	54.25	1.21	-0.54	9,081.72	9,053.00	28.72	316.252	0			
11,670.00	9,361.06	700.00	699.96	54.59	1.21	-0.46	9,086.30	9,057.50	28.80	315.536	0			
11,700.00	9,360.22	700.00	699.96	55.21	1.21	-0.30	9,094.61	9,065.66	28.95	314.202	0			
11,730.00	9,358.91	700.00	699.96	55.84	1.21	-0.15	9,102.56	9,073.46	29.09	312.875	0			
11,750.00	9,357.77	700.00	699.96	56.26	1.21	-0.05	9,107.65	9,078.46	29.19	311.995	0			
11,760.00	9,357.15	700.00	699.96	56.46	1.21	-0.05	9,110.16	9,080.92	29.24	311.547	0			
11,790.00	9,355.25	700.00	699.96	57.09	1.21	-0.04	9,117.73	9,088.34	29.39	310.214	0			
11,820.00	9,353.32	700.00	699.96	57.71	1.21	-0.04	9,125.36	9,095.82	29.54	308.904	0			
11,845.00	9,351.69	700.00	699.96	58.23	1.21	-0.03	9,131.76	9,102.10	29.67	307.827	0			
11,850.00	9,351.36	700.00	699.96	58.33	1.21	-0.05	9,133.05	9,103.36	29.69	307.608	0			
11,880.00	9,349.58	700.00	699.96	58.96	1.21	-0.17	9,141.00	9,111.16	29.84	306.311	0			
11,910.00	9,348.09	700.00	699.96	59.58	1.21	-0.28	9,149.33	9,119.34	29.99	305.044	0			
11,939.00	9,346.93	700.00	699.96	60.19	1.21	-0.40	9,157.74	9,127.60	30.14	303.848	0			
11,940.00	9,346.90	700.00	699.96	60.21	1.21	-0.40	9,158.03	9,127.89	30.14	303.806	0			
11,970.00	9,345.85	700.00	699.96	60.84	1.21	-0.49	9,166.96	9,136.66	30.30	302.569	0			
12,000.00	9,344.81	700.00	699.96	61.47	1.21	-0.58	9,175.99	9,145.54	30.45	301.354	0			
12,030.00	9,343.79	700.00	699.96	62.10	1.21	-0.68	9,185.12	9,154.52	30.60	300.159	0			
12,034.00	9,343.66	700.00	699.96	62.19	1.21	-0.69	9,186.35	9,155.73	30.62	300.001	0			
12,060.00	9,342.74	700.00	699.96	62.74	1.21	-0.74	9,194.31	9,163.56	30.75	298.966	0			
12,090.00	9,341.59	700.00	699.96	63.37	1.21	-0.79	9,203.49	9,172.58	30.91	297.789	0			
12,120.00	9,340.32	700.00	699.96	64.01	1.21	-0.84	9,212.65	9,181.59	31.06	296.628	0			
12,130.00	9,339.88	700.00	699.96	64.22	1.21	-0.86	9,215.70	9,184.60	31.11	296.245	0			
12,150.00	9,339.06	700.00	699.96	64.64	1.21	-0.81	9,221.91	9,190.69	31.21	295.472	0			
12,180.00	9,338.16	700.00	699.96	65.28	1.21	-0.73	9,231.58	9,200.22	31.36	294.339	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
University - 7-0213 N 03SC - Wellbore #1 - Wellbore #1														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
12,210.00	9,337.62	700.00	699.96	65.91	1.21	-0.65	9,241.70	9,210.19	31.52	293.235	0			
12,223.00	9,337.51	700.00	699.96	66.19	1.21	-0.62	9,246.23	9,214.64	31.58	292.766	0			
12,240.00	9,337.41	700.00	699.96	66.55	1.21	-0.66	9,252.21	9,220.54	31.67	292.150	0			
12,270.00	9,337.26	700.00	699.96	67.19	1.21	-0.73	9,262.86	9,231.03	31.82	291.077	0			
12,300.00	9,337.12	700.00	699.96	67.82	1.21	-0.80	9,273.60	9,241.63	31.98	290.023	0			
12,317.00	9,337.05	700.00	699.96	68.18	1.21	-0.84	9,279.74	9,247.67	32.06	289.434	0			
12,330.00	9,336.99	700.00	699.96	68.46	1.21	-0.79	9,284.44	9,252.31	32.13	288.981	0			
12,360.00	9,336.76	700.00	699.96	69.09	1.21	-0.67	9,295.26	9,262.98	32.28	287.948	0			
12,390.00	9,336.40	700.00	699.96	69.73	1.21	-0.56	9,306.06	9,273.62	32.43	286.929	0			
12,412.00	9,336.06	700.00	699.96	70.19	1.21	-0.47	9,313.95	9,281.41	32.54	286.191	0			
12,420.00	9,335.92	700.00	699.96	70.36	1.21	-0.50	9,316.82	9,284.24	32.59	285.920	0			
12,450.00	9,335.38	700.00	699.96	71.00	1.21	-0.60	9,327.62	9,294.89	32.74	284.915	0			
12,480.00	9,334.82	700.00	699.96	71.63	1.21	-0.71	9,338.48	9,305.59	32.89	283.926	0			
12,507.00	9,334.29	700.00	699.96	72.21	1.21	-0.81	9,348.30	9,315.27	33.03	283.050	0			
12,510.00	9,334.23	700.00	699.96	72.27	1.21	-0.79	9,349.39	9,316.35	33.04	282.952	0			
12,540.00	9,333.72	700.00	699.96	72.90	1.21	-0.60	9,360.46	9,327.27	33.20	281.983	0			
12,570.00	9,333.36	700.00	699.96	73.54	1.21	-0.41	9,371.76	9,338.41	33.35	281.035	0			
12,600.00	9,333.16	700.00	699.96	74.17	1.21	-0.21	9,383.28	9,349.78	33.50	280.106	0			
12,630.00	9,333.01	700.00	699.96	74.81	1.21	-0.28	9,394.94	9,361.28	33.65	279.184	0			
12,660.00	9,332.83	700.00	699.96	75.44	1.21	-0.34	9,406.64	9,372.84	33.80	278.277	0			
12,690.00	9,332.62	700.00	699.96	76.07	1.21	-0.40	9,418.40	9,384.45	33.95	277.385	0			
12,696.00	9,332.57	700.00	699.96	76.20	1.21	-0.42	9,420.76	9,386.78	33.98	277.208	0			
12,720.00	9,332.45	700.00	699.96	76.70	1.21	-0.39	9,430.29	9,396.18	34.11	276.501	0			
12,750.00	9,332.50	700.00	699.96	77.34	1.21	-0.35	9,442.45	9,408.19	34.26	275.636	0			
12,780.00	9,332.76	700.00	699.96	77.97	1.21	-0.31	9,454.88	9,420.48	34.41	274.791	0			
12,791.00	9,332.92	700.00	699.96	78.20	1.21	-0.30	9,459.51	9,425.05	34.46	274.486	0			
12,810.00	9,333.23	700.00	699.96	78.60	1.21	-0.21	9,467.58	9,433.02	34.56	273.961	0			
12,840.00	9,333.84	700.00	699.96	79.23	1.21	-0.06	9,480.48	9,445.78	34.71	273.146	0			
12,870.00	9,334.57	700.00	699.96	79.86	1.21	0.09	9,493.58	9,458.72	34.86	272.348	0			
12,886.00	9,335.02	700.00	699.96	80.20	1.21	0.17	9,500.65	9,465.71	34.94	271.929	0			
12,900.00	9,335.41	700.00	699.96	80.49	1.21	0.20	9,506.85	9,471.84	35.01	271.563	0			
12,930.00	9,336.13	700.00	699.96	81.12	1.21	0.26	9,520.08	9,484.92	35.16	270.786	0			
12,960.00	9,336.68	700.00	699.96	81.74	1.21	0.32	9,533.23	9,497.93	35.31	270.019	0			
12,981.00	9,336.96	700.00	699.96	82.18	1.21	0.37	9,542.40	9,506.99	35.41	269.488	0			
12,990.00	9,337.05	700.00	699.96	82.37	1.21	0.39	9,546.31	9,510.86	35.45	269.257	0			
13,020.00	9,337.10	700.00	699.96	82.99	1.21	0.47	9,559.17	9,523.57	35.60	268.493	0			
13,050.00	9,336.77	700.00	699.96	83.62	1.21	0.54	9,571.76	9,536.01	35.75	267.733	0			
13,076.00	9,336.17	700.00	699.96	84.16	1.21	0.61	9,582.46	9,546.58	35.88	267.079	0			
13,080.00	9,336.06	700.00	699.96	84.24	1.21	0.60	9,584.09	9,548.19	35.90	266.976	0			
13,110.00	9,335.04	700.00	699.96	84.87	1.21	0.56	9,596.21	9,560.16	36.05	266.211	0			
13,140.00	9,333.75	700.00	699.96	85.49	1.21	0.52	9,608.16	9,571.96	36.20	265.453	0			
13,170.00	9,332.20	700.00	699.96	86.11	1.21	0.47	9,619.94	9,583.60	36.34	264.702	0			
13,171.00	9,332.14	700.00	699.96	86.13	1.21	0.47	9,620.33	9,583.98	36.35	264.677	0			
13,200.00	9,330.48	700.00	699.96	86.74	1.21	0.36	9,631.66	9,595.17	36.49	263.947	0			
13,230.00	9,328.74	700.00	699.96	87.36	1.21	0.25	9,643.44	9,606.80	36.64	263.203	0			
13,260.00	9,326.97	700.00	699.96	87.99	1.21	0.14	9,655.26	9,618.48	36.79	262.472	0			
13,266.00	9,326.61	700.00	699.96	88.11	1.21	0.12	9,657.63	9,620.82	36.82	262.327	0			
13,290.00	9,325.19	700.00	699.96	88.61	1.21	0.26	9,667.16	9,630.22	36.93	261.744	0			
13,320.00	9,323.43	700.00	699.96	89.24	1.21	0.44	9,679.15	9,642.07	37.08	261.028	0			
13,350.00	9,321.69	700.00	699.96	89.86	1.21	0.62	9,691.24	9,654.01	37.23	260.324	0			
13,361.00	9,321.06	700.00	699.96	90.09	1.21	0.68	9,695.70	9,658.42	37.28	260.069	0			
13,380.00	9,320.03	700.00	699.96	90.49	1.21	0.56	9,703.48	9,666.10	37.37	259.631	0			
13,410.00	9,318.63	700.00	699.96	91.11	1.21	0.35	9,716.03	9,678.51	37.52	258.952	0			
13,440.00	9,317.50	700.00	699.96	91.74	1.21	0.15	9,728.91	9,691.24	37.67	258.291	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 700-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision		
13,455.00	9,317.04	700.00	699.96	92.05	1.21	0.04	9,735.47	9,697.73	37.74	257.967	0			
13,470.00	9,316.60	700.00	699.96	92.37	1.21	0.03	9,742.06	9,704.25	37.81	257.644	0			
13,500.00	9,315.61	700.00	699.96	93.00	1.21	0.00	9,755.21	9,717.25	37.96	257.004	0			
13,530.00	9,314.47	700.00	699.96	93.63	1.21	-0.03	9,768.31	9,730.21	38.10	256.373	0			
13,550.00	9,313.64	700.00	699.96	94.05	1.21	-0.05	9,777.01	9,738.81	38.20	255.957	0			
13,560.00	9,313.20	700.00	699.96	94.26	1.21	-0.08	9,781.36	9,743.11	38.25	255.748	0			
13,590.00	9,311.94	700.00	699.96	94.89	1.21	-0.16	9,794.48	9,756.09	38.39	255.130	0			
13,620.00	9,310.72	700.00	699.96	95.52	1.21	-0.24	9,807.73	9,769.19	38.53	254.524	0			
13,645.00	9,309.74	700.00	699.96	96.05	1.21	-0.30	9,818.85	9,780.20	38.65	254.027	0			
13,650.00	9,309.55	700.00	699.96	96.15	1.21	-0.29	9,821.09	9,782.41	38.68	253.928	0			
13,680.00	9,308.52	700.00	699.96	96.78	1.21	-0.19	9,834.64	9,795.82	38.82	253.343	0			
13,710.00	9,307.67	700.00	699.96	97.42	1.21	-0.09	9,848.44	9,809.48	38.96	252.770	0			
13,740.00	9,307.00	700.00	699.96	98.05	1.21	0.01	9,862.47	9,823.36	39.10	252.212	0			
13,770.00	9,306.40	700.00	699.96	98.68	1.21	-0.05	9,876.62	9,837.37	39.25	251.661	0			
13,800.00	9,305.73	700.00	699.96	99.31	1.21	-0.10	9,890.79	9,851.40	39.39	251.120	0			
13,830.00	9,305.00	700.00	699.96	99.94	1.21	-0.16	9,904.97	9,865.44	39.53	250.587	0			
13,835.00	9,304.87	700.00	699.96	100.05	1.21	-0.17	9,907.33	9,867.78	39.55	250.499	0			
13,860.00	9,304.27	700.00	699.96	100.57	1.21	-0.03	9,919.22	9,879.55	39.67	250.060	0			
13,890.00	9,303.63	700.00	699.96	101.20	1.21	0.15	9,933.62	9,893.82	39.81	249.544	0			
13,920.00	9,303.10	700.00	699.96	101.83	1.21	0.32	9,948.19	9,908.25	39.95	249.040	0			
13,930.00	9,302.95	700.00	699.96	102.04	1.21	0.38	9,953.09	9,913.09	39.99	248.874	0			
13,950.00	9,302.68	700.00	699.96	102.46	1.21	0.32	9,962.93	9,922.84	40.08	248.545	0			
13,980.00	9,302.38	700.00	699.96	103.09	1.21	0.24	9,977.83	9,937.60	40.22	248.061	0			
14,010.00	9,302.19	700.00	699.96	103.72	1.21	0.15	9,992.90	9,952.54	40.36	247.587	0			

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation Factor	Probability of Collision				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)							
0.00	0.00	0.00	0.00	0.00	0.00	-101.79	25.35					0				
30.00	30.00	30.00	30.00	0.00	0.04	-55.02	25.35	25.31	0.04	590.280		0				
50.02	50.02	50.02	50.02	0.01	0.07	-55.05	25.34	25.26	0.08	315.433		0				
60.00	60.00	60.00	60.00	0.02	0.08	-55.07	25.34	25.23	0.10	243.138		0				
90.00	90.00	90.00	90.00	0.05	0.12	-50.35	25.32	25.14	0.18	143.892		0				
120.00	120.00	120.00	120.00	0.09	0.21	-47.96	25.29	25.00	0.29	86.476		0				
140.56	140.56	140.56	140.56	0.11	0.28	-46.69	25.28	24.89	0.39	65.189		0				
150.00	150.00	150.00	150.00	0.12	0.31	-47.09	25.27	24.84	0.43	58.562		0				
180.00	180.00	180.00	180.00	0.15	0.42	-49.13	25.25	24.68	0.57	44.259		0				
210.00	210.00	210.00	210.00	0.18	0.53	-54.71	25.23	24.52	0.71	35.572		0				
231.82	231.82	231.82	231.82	0.20	0.61	-74.97	25.23	24.42	0.81	31.132		0				
235.00	235.00	235.00	235.00	0.21	0.62	-74.97	25.23	24.41	0.83	30.575		0	CC			
240.00	240.00	240.00	240.00	0.21	0.64	-106.66	25.23	24.38	0.85	29.741		0				
270.00	270.00	270.00	270.00	0.24	0.74	-135.44	25.24	24.25	0.99	25.564		0				
300.00	300.00	300.00	300.00	0.27	0.85	-141.26	25.26	24.13	1.13	22.429		0				
323.44	323.44	323.44	323.44	0.30	0.94	-143.30	25.29	24.05	1.23	20.477		0				
330.00	330.00	330.00	330.00	0.31	0.96	-147.45	25.30	24.03	1.27	19.993		0				
360.00	360.00	360.00	360.00	0.34	1.07	-157.57	25.36	23.96	1.40	18.060		0				
390.00	390.00	390.00	390.00	0.37	1.17	-162.00	25.46	23.92	1.54	16.499		0				
416.71	416.71	416.71	416.71	0.40	1.27	-164.27	25.58	23.91	1.67	15.346		0				
420.00	420.00	420.00	420.00	0.40	1.28	-164.28	25.60	23.91	1.68	15.217		0				
450.00	450.00	450.00	450.00	0.43	1.39	-166.49	25.75	23.93	1.82	14.139		0				
480.00	480.00	480.00	480.00	0.46	1.50	-168.48	25.90	23.94	1.96	13.215		0				
508.13	508.13	508.13	508.13	0.49	1.60	-170.33	26.05	23.96	2.09	12.461		0				
510.00	510.00	510.00	510.00	0.49	1.60	-170.33	26.06	23.96	2.10	12.414		0				
540.00	540.00	540.00	540.00	0.53	1.71	-171.43	26.20	23.96	2.24	11.708		0				
570.00	570.00	570.00	570.00	0.56	1.82	-172.71	26.33	23.96	2.38	11.079		0				
599.96	599.96	600.04	599.96	0.59	1.93	-174.33	26.45	23.93	2.52	10.513		0				
630.00	630.00	630.00	630.00	0.62	2.03	-178.13	26.54	23.88	2.65	9.996		0				
660.00	660.00	660.00	660.00	0.65	2.14	154.89	26.57	23.78	2.79	9.512		0				
690.00	690.00	690.00	690.00	0.68	2.25	25.34	26.57	23.63	2.93	9.058		0				
696.80	696.80	703.20	696.80	0.69	2.30	21.95	26.56	23.57	2.99	8.890		0				
720.00	720.00	720.00	720.00	0.71	2.36	21.18	26.51	23.44	3.07	8.632		0				
750.00	750.00	750.00	750.00	0.75	2.46	20.78	26.43	23.22	3.21	8.232		0				
780.00	780.00	780.00	780.00	0.78	2.57	20.63	26.31	22.96	3.35	7.856		0				
790.71	790.71	790.71	790.71	0.79	2.61	20.61	26.27	22.87	3.40	7.727		0				
810.00	810.00	810.00	810.00	0.81	2.68	16.12	26.17	22.68	3.49	7.502		0				
840.00	840.00	839.86	839.86	0.84	2.78	10.23	26.11	22.49	3.63	7.203		0				
844.38	844.38	844.23	844.22	0.84	2.80	9.47	26.11	22.47	3.65	7.163		0				
870.00	870.00	869.76	869.75	0.87	2.89	5.51	26.15	22.39	3.76	6.950		0				
884.64	884.63	884.34	884.34	0.89	2.94	3.59	26.20	22.37	3.83	6.843		0				
900.00	899.99	899.65	899.64	0.90	3.00	4.38	26.30	22.40	3.90	6.744		0				
930.00	929.99	929.54	929.53	0.93	3.10	7.09	26.63	22.60	4.04	6.599		0				
960.00	959.99	959.42	959.40	0.97	3.21	22.57	27.17	23.00	4.17	6.512		0				
979.07	979.06	978.41	978.38	0.99	3.27	-98.51	27.61	23.36	4.26	6.485		0				
990.00	989.99	989.29	989.26	1.00	3.31	173.66	27.90	23.60	4.31	6.477		0				
1,020.00	1,019.99	1,019.15	1,019.10	1.03	3.42	-178.55	28.80	24.35	4.44	6.480		0				
1,050.00	1,049.99	1,049.00	1,048.92	1.06	3.52	-173.31	29.85	25.27	4.58	6.516		0				
1,073.09	1,073.08	1,071.97	1,071.86	1.08	3.61	-170.17	30.76	26.07	4.69	6.565		0				
1,080.00	1,079.99	1,078.84	1,078.73	1.09	3.63	-169.84	31.05	26.33	4.72	6.583		0				
1,110.00	1,109.99	1,108.70	1,108.55	1.12	3.74	-175.70	32.41	27.55	4.85	6.678		0				
1,140.00	1,139.99	1,138.65	1,138.46	1.15	3.84	-179.07	33.82	28.83	4.99	6.778		0				
1,167.36	1,167.35	1,165.97	1,165.74	1.18	3.94	178.51	35.14	30.02	5.12	6.869		0				
1,170.00	1,169.99	1,168.61	1,168.38	1.19	3.95	178.62	35.27	30.14	5.13	6.878		0				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation Factor	Probability of Collision				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)							
1,200.00	1,199.99	1,201.44	1,198.29	1.22	4.07	-179.23	36.73	31.45	5.27	6.963	0					
1,230.00	1,229.99	1,228.52	1,228.20	1.25	4.17	-177.33	38.21	32.81	5.40	7.073	0					
1,260.00	1,259.99	1,258.47	1,258.12	1.28	4.27	-175.56	39.71	34.17	5.54	7.168	0					
1,261.85	1,261.84	1,260.32	1,259.96	1.28	4.28	-175.46	39.80	34.25	5.55	7.173	0					
1,290.00	1,289.99	1,288.43	1,288.03	1.31	4.38	-174.59	41.22	35.54	5.68	7.260	0					
1,320.00	1,319.99	1,318.38	1,317.95	1.34	4.49	-170.55	42.74	36.92	5.82	7.349	0					
1,350.00	1,349.99	1,348.34	1,347.86	1.37	4.60	-168.11	44.27	38.31	5.95	7.436	0					
1,355.62	1,355.61	1,353.95	1,353.46	1.38	4.62	-167.66	44.55	38.58	5.98	7.452	0					
1,380.00	1,379.99	1,378.29	1,377.77	1.41	4.71	-167.43	45.80	39.71	6.09	7.520	0					
1,410.00	1,409.99	1,408.25	1,407.69	1.44	4.81	-167.15	47.35	41.13	6.23	7.602	0					
1,440.00	1,439.99	1,438.20	1,437.60	1.47	4.92	-166.88	48.92	42.55	6.37	7.683	0					
1,450.30	1,450.29	1,448.49	1,447.87	1.48	4.96	-166.78	49.46	43.04	6.41	7.710	0					
1,470.00	1,469.99	1,468.16	1,467.51	1.50	5.03	-147.31	50.49	43.99	6.51	7.762	0					
1,500.00	1,499.99	1,498.11	1,497.43	1.53	5.14	-130.79	52.08	45.44	6.64	7.840	0					
1,530.00	1,529.99	1,527.83	1,527.10	1.56	5.25	-122.15	53.75	46.97	6.78	7.928	0					
1,545.18	1,545.17	1,542.85	1,542.09	1.58	5.30	-119.24	54.66	47.81	6.85	7.980	0					
1,560.00	1,559.99	1,557.50	1,556.72	1.59	5.36	-109.14	55.57	48.66	6.92	8.035	0					
1,590.00	1,589.99	1,587.16	1,586.32	1.63	5.47	-96.78	57.49	50.44	7.05	8.153	0					
1,620.00	1,619.98	1,616.81	1,615.89	1.66	5.58	-90.01	59.51	52.32	7.19	8.279	0					
1,640.14	1,640.12	1,636.70	1,635.73	1.68	5.65	-87.04	60.91	53.63	7.28	8.368	0					
1,650.00	1,649.97	1,646.44	1,645.44	1.69	5.69	-85.58	61.61	54.29	7.32	8.412	0					
1,680.00	1,679.96	1,676.05	1,674.96	1.72	5.80	-82.28	63.80	56.34	7.46	8.552	0					
1,710.00	1,709.94	1,705.65	1,704.45	1.75	5.91	-80.14	66.06	58.47	7.60	8.697	0					
1,735.16	1,735.08	1,730.46	1,729.15	1.78	6.00	-78.91	68.02	60.31	7.71	8.822	0					
1,740.00	1,739.92	1,735.23	1,733.90	1.78	6.02	-78.80	68.40	60.67	7.73	8.847	0					
1,770.00	1,769.88	1,764.79	1,763.33	1.82	6.13	-78.27	70.84	62.97	7.87	9.003	0					
1,800.00	1,799.84	1,807.75	1,792.64	1.85	6.29	-77.94	73.37	65.32	8.05	9.112	0					
1,830.00	1,829.80	1,824.13	1,822.36	1.88	6.35	-77.77	75.96	67.82	8.14	9.328	0					
1,830.38	1,830.18	1,824.51	1,822.73	1.88	6.36	-77.77	75.99	67.85	8.14	9.330	0					
1,860.00	1,859.74	1,854.01	1,852.07	1.91	6.47	-78.36	78.52	70.24	8.28	9.479	0					
1,890.00	1,889.68	1,883.89	1,881.79	1.94	6.58	-79.03	81.06	72.64	8.42	9.622	0					
1,920.00	1,919.60	1,913.77	1,911.51	1.98	6.70	-79.75	83.59	75.02	8.57	9.758	0					
1,925.85	1,925.43	1,919.60	1,917.30	1.98	6.72	-79.90	84.08	75.48	8.59	9.784	0					
1,950.00	1,949.51	1,943.65	1,941.22	2.01	6.81	-80.55	86.11	77.40	8.71	9.888	0					
1,980.00	1,979.42	1,973.52	1,970.93	2.04	6.93	-81.33	88.63	79.78	8.85	10.015	0					
2,010.00	2,009.33	2,003.40	2,000.64	2.08	7.04	-82.09	91.18	82.18	8.99	10.138	0					
2,019.81	2,019.11	2,013.16	2,010.36	2.09	7.08	-82.34	92.01	82.97	9.04	10.178	0					
2,040.00	2,039.24	2,033.27	2,030.35	2.11	7.16	-83.31	93.74	84.60	9.14	10.260	0					
2,070.00	2,069.15	2,063.14	2,060.06	2.14	7.28	-84.74	96.34	87.06	9.28	10.382	0					
2,100.00	2,099.06	2,106.99	2,089.76	2.18	7.45	-86.13	98.99	89.51	9.47	10.448	0					
2,114.69	2,113.70	2,107.63	2,104.30	2.19	7.45	-86.80	100.30	90.81	9.49	10.565	0					
2,130.00	2,128.97	2,122.87	2,119.46	2.21	7.51	-87.73	101.68	92.11	9.57	10.628	0					
2,160.00	2,158.87	2,152.73	2,149.15	2.24	7.62	-89.51	104.43	94.72	9.71	10.753	0					
2,190.00	2,188.77	2,182.58	2,178.84	2.28	7.74	-91.21	107.24	97.38	9.86	10.880	0					
2,209.43	2,208.12	2,201.90	2,198.06	2.30	7.82	-92.29	109.09	99.14	9.95	10.964	0					
2,220.00	2,218.65	2,212.42	2,208.52	2.31	7.86	-92.83	110.11	100.11	10.00	11.010	0					
2,250.00	2,248.53	2,242.25	2,238.19	2.35	7.97	-94.35	113.05	102.90	10.15	11.140	0					
2,280.00	2,278.40	2,272.07	2,267.85	2.38	8.09	-95.82	116.04	105.75	10.29	11.273	0					
2,304.56	2,302.85	2,303.52	2,292.12	2.41	8.21	-96.99	118.54	108.10	10.44	11.355	0					
2,310.00	2,308.27	2,301.89	2,297.50	2.42	8.21	-97.10	119.10	108.66	10.44	11.408	0					
2,340.00	2,338.12	2,331.70	2,327.15	2.45	8.32	-97.68	122.19	111.61	10.59	11.541	0					
2,370.00	2,367.98	2,361.51	2,356.79	2.49	8.44	-98.25	125.30	114.57	10.74	11.672	0					
2,398.85	2,396.68	2,409.83	2,385.30	2.52	8.63	-98.78	128.31	117.36	10.95	11.718	0					
2,400.00	2,397.82	2,408.68	2,386.44	2.52	8.63	-98.80	128.43	117.48	10.95	11.732	0					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	
2,430.00	2,427.67	2,421.12	2,416.08	2.56	8.68	-99.46	131.58	120.55	11.03	11.927	0		
2,460.00	2,457.51	2,450.92	2,445.72	2.60	8.79	-100.09	134.75	123.57	11.18	12.052	0		
2,490.00	2,487.36	2,480.73	2,475.36	2.63	8.91	-100.71	137.93	126.60	11.33	12.175	0		
2,493.36	2,490.70	2,484.06	2,478.68	2.64	8.92	-100.78	138.29	126.95	11.35	12.189	0		
2,520.00	2,517.20	2,510.53	2,505.00	2.67	9.03	-99.76	141.11	129.63	11.48	12.293	0		
2,550.00	2,547.03	2,540.34	2,534.64	2.71	9.15	-98.62	144.20	132.58	11.63	12.401	0		
2,580.00	2,576.87	2,570.16	2,564.30	2.74	9.27	-97.51	147.23	135.45	11.78	12.500	0		
2,587.13	2,583.96	2,577.24	2,571.35	2.75	9.29	-97.25	147.94	136.12	11.81	12.522	0		
2,610.00	2,606.70	2,600.02	2,593.96	2.78	9.38	-97.07	150.20	138.27	11.93	12.590	0		
2,640.00	2,636.52	2,629.81	2,623.62	2.82	9.50	-96.84	153.14	141.06	12.08	12.676	0		
2,670.00	2,666.35	2,659.63	2,653.28	2.86	9.62	-96.61	156.05	143.82	12.23	12.758	0		
2,682.03	2,678.31	2,671.59	2,665.18	2.87	9.67	-96.52	157.21	144.92	12.29	12.789	0		
2,700.00	2,696.17	2,689.46	2,682.95	2.90	9.74	-96.60	158.94	146.56	12.38	12.835	0		
2,730.00	2,725.99	2,719.29	2,712.62	2.93	9.86	-96.71	161.82	149.29	12.54	12.909	0		
2,760.00	2,755.82	2,749.13	2,742.29	2.97	9.97	-96.80	164.69	152.00	12.69	12.980	0		
2,776.89	2,772.61	2,765.93	2,759.00	2.99	10.04	-96.85	166.30	153.53	12.77	13.019	0		
2,790.00	2,785.64	2,778.97	2,771.96	3.01	10.09	-96.88	167.55	154.71	12.84	13.049	0		
2,820.00	2,815.47	2,808.81	2,801.64	3.05	10.21	-96.93	170.39	157.40	12.99	13.114	0		
2,850.00	2,845.31	2,838.65	2,831.32	3.09	10.33	-96.93	173.21	160.06	13.14	13.177	0		
2,871.66	2,866.85	2,860.20	2,852.76	3.11	10.42	-96.90	175.23	161.98	13.25	13.220	0		
2,880.00	2,875.15	2,868.50	2,861.01	3.13	10.45	-96.98	176.01	162.71	13.30	13.237	0		
2,910.00	2,904.99	2,901.65	2,890.70	3.16	10.58	-97.28	178.81	165.35	13.46	13.282	0		
2,940.00	2,934.83	2,928.20	2,920.38	3.20	10.69	-97.57	181.62	168.02	13.60	13.352	0		
2,966.56	2,961.24	2,954.63	2,946.66	3.24	10.79	-97.83	184.11	170.37	13.74	13.402	0		
2,970.00	2,964.66	2,958.05	2,950.07	3.24	10.81	-97.87	184.43	170.68	13.76	13.408	0		
3,000.00	2,994.50	2,987.90	2,979.75	3.28	10.93	-98.14	187.25	173.34	13.91	13.463	0		
3,030.00	3,024.35	3,017.76	3,009.45	3.32	11.04	-98.37	190.05	175.99	14.06	13.516	0		
3,060.00	3,054.21	3,047.62	3,039.14	3.36	11.16	-98.55	192.84	178.62	14.21	13.567	0		
3,060.33	3,054.54	3,047.95	3,039.47	3.36	11.16	-98.55	192.87	178.65	14.22	13.568	0		
3,090.00	3,084.09	3,077.48	3,068.84	3.39	11.28	-98.73	195.60	181.24	14.36	13.617	0		
3,120.00	3,113.97	3,107.35	3,098.55	3.43	11.40	-98.85	198.35	183.83	14.52	13.664	0		
3,150.00	3,143.87	3,137.23	3,128.26	3.47	11.52	-98.91	201.06	186.39	14.67	13.708	0		
3,155.45	3,149.31	3,142.65	3,133.66	3.47	11.54	-98.92	201.55	186.86	14.69	13.716	0		
3,180.00	3,173.79	3,167.11	3,157.98	3.50	11.64	-98.94	203.75	188.93	14.82	13.752	0		
3,210.00	3,203.71	3,196.99	3,187.70	3.54	11.76	-98.92	206.40	191.44	14.96	13.793	0		
3,240.00	3,233.65	3,226.87	3,217.42	3.58	11.88	-98.83	209.03	193.92	15.11	13.831	0		
3,250.86	3,244.50	3,237.69	3,228.17	3.59	11.92	-98.78	209.97	194.80	15.17	13.844	0		
3,270.00	3,263.61	3,256.76	3,247.14	3.61	12.00	-99.30	211.63	196.37	15.26	13.868	0		
3,300.00	3,293.56	3,286.64	3,276.85	3.64	12.12	-100.20	214.24	198.83	15.41	13.906	0		
3,330.00	3,323.53	3,316.52	3,306.57	3.68	12.24	-101.22	216.86	201.31	15.55	13.944	0		
3,345.48	3,338.99	3,331.99	3,321.96	3.70	12.30	-101.82	218.22	202.59	15.63	13.964	0		
3,360.00	3,353.49	3,346.88	3,336.77	3.71	12.36	-101.72	219.47	203.77	15.70	13.979	0		
3,390.00	3,383.47	3,377.66	3,367.39	3.75	12.48	-101.53	221.95	206.10	15.85	14.004	0		
3,420.00	3,413.45	3,408.46	3,398.06	3.78	12.60	-101.32	224.29	208.29	16.00	14.019	0		
3,440.50	3,433.94	3,429.52	3,419.04	3.80	12.69	-101.18	225.81	209.71	16.10	14.025	0		
3,450.00	3,443.43	3,439.29	3,428.77	3.81	12.72	-101.02	226.49	210.34	16.15	14.027	0		
3,480.00	3,473.42	3,470.14	3,459.51	3.84	12.84	-100.48	228.55	212.25	16.29	14.027	0		
3,510.00	3,503.40	3,501.01	3,490.29	3.88	12.96	-99.94	230.47	214.03	16.44	14.018	0		
3,534.46	3,527.85	3,526.19	3,515.41	3.90	13.06	-99.47	231.94	215.38	16.56	14.007	0		
3,540.00	3,533.39	3,531.90	3,521.10	3.91	13.08	-97.85	232.26	215.67	16.59	14.004	0		
3,570.00	3,563.38	3,562.81	3,551.94	3.94	13.20	-81.06	233.81	217.08	16.73	13.976	0		
3,600.00	3,593.38	3,593.74	3,582.81	3.97	13.31	-24.48	235.06	218.19	16.87	13.932	0		
3,628.81	3,622.19	3,623.45	3,612.48	4.00	13.42	26.99	235.99	218.98	17.01	13.877	0		
3,630.00	3,623.38	3,624.68	3,613.70	4.00	13.43	28.06	236.02	219.01	17.01	13.874	0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	
3,660.00	3,653.37	3,655.62	3,644.61	4.03	13.54	40.61	236.60	219.45	17.15	13.798	0		
3,690.00	3,683.34	3,686.56	3,675.52	4.05	13.66	44.76	236.72	219.44	17.28	13.698	0		
3,720.00	3,713.29	3,717.49	3,706.42	4.08	13.77	47.07	236.39	218.97	17.41	13.574	0		
3,722.62	3,715.90	3,720.19	3,709.12	4.08	13.78	47.23	236.34	218.91	17.43	13.562	0		
3,750.00	3,743.21	3,748.40	3,737.31	4.10	13.88	48.35	235.74	218.20	17.54	13.437	0		
3,780.00	3,773.12	3,779.31	3,768.21	4.13	13.99	49.52	234.95	217.28	17.67	13.295	0		
3,810.00	3,803.03	3,810.23	3,799.12	4.15	14.10	50.66	234.02	216.22	17.80	13.147	0		
3,817.19	3,810.20	3,817.63	3,806.52	4.16	14.12	50.92	233.77	215.94	17.83	13.111	0		
3,840.00	3,832.94	3,841.14	3,830.03	4.18	14.20	51.72	232.98	215.06	17.93	12.996	0		
3,870.00	3,862.86	3,872.08	3,860.96	4.20	14.31	52.79	231.95	213.90	18.05	12.847	0		
3,900.00	3,892.79	3,903.02	3,891.91	4.23	14.42	53.90	230.91	212.73	18.18	12.701	0		
3,912.67	3,905.44	3,916.10	3,904.98	4.24	14.46	54.39	230.48	212.24	18.23	12.639	0		
3,930.00	3,922.73	3,933.85	3,922.73	4.25	14.52	54.14	229.86	211.55	18.31	12.555	0		
3,960.00	3,952.68	3,963.80	3,952.68	4.28	14.62	53.61	228.81	210.38	18.43	12.412	0		
3,990.00	3,982.63	4,006.25	3,982.63	4.30	14.77	52.95	227.81	209.21	18.60	12.246	0		
4,007.78	4,000.39	4,011.51	4,000.39	4.32	14.78	52.48	227.24	208.61	18.64	12.194	0		
4,020.00	4,012.59	4,023.71	4,012.59	4.33	14.82	52.66	226.86	208.17	18.69	12.139	0		
4,050.00	4,042.56	4,053.67	4,042.56	4.36	14.93	53.08	225.98	207.16	18.82	12.010	0		
4,080.00	4,072.53	4,083.64	4,072.53	4.39	15.03	53.52	225.16	206.22	18.94	11.886	0		
4,102.74	4,095.25	4,106.36	4,095.25	4.41	15.10	53.85	224.60	205.55	19.04	11.795	0		
4,110.00	4,102.50	4,113.62	4,102.50	4.41	15.13	53.34	224.42	205.35	19.07	11.766	0		
4,140.00	4,132.48	4,143.60	4,132.48	4.44	15.23	50.81	223.74	204.53	19.20	11.651	0		
4,170.00	4,162.46	4,173.58	4,162.46	4.47	15.33	47.35	223.10	203.77	19.33	11.539	0		
4,198.03	4,190.48	4,201.60	4,190.48	4.50	15.43	42.87	222.55	203.10	19.46	11.439	0		
4,200.00	4,192.45	4,203.57	4,192.45	4.50	15.43	42.88	222.52	203.05	19.47	11.432	0		
4,230.00	4,222.45	4,233.56	4,222.45	4.53	15.53	42.86	222.04	202.45	19.60	11.330	0		
4,260.00	4,252.44	4,263.56	4,252.44	4.56	15.64	42.63	221.73	202.00	19.73	11.238	0		
4,290.00	4,282.44	4,306.44	4,282.44	4.59	15.78	41.17	221.57	201.66	19.91	11.129	0		
4,293.36	4,285.80	4,303.08	4,285.80	4.59	15.77	40.53	221.56	201.66	19.90	11.133	0		
4,320.00	4,312.44	4,323.56	4,312.44	4.62	15.84	38.61	221.51	201.51	20.00	11.076	0		
4,350.00	4,342.44	4,353.56	4,342.44	4.65	15.94	27.28	221.49	201.35	20.13	11.001	0		
4,366.51	4,358.95	4,370.07	4,358.95	4.67	16.00	-90.00	221.48	201.27	20.21	10.960	0		
4,380.00	4,372.44	4,383.56	4,372.44	4.68	16.04	-123.84	221.48	201.22	20.27	10.928	0		
4,388.73	4,381.17	4,407.71	4,381.17	4.69	16.12	-93.32	221.49	201.13	20.36	10.878	0		
4,410.00	4,402.44	4,413.56	4,402.44	4.71	16.14	-128.88	221.50	201.10	20.40	10.856	0		
4,440.00	4,432.44	4,443.56	4,432.44	4.74	16.25	-130.86	221.52	200.98	20.54	10.786	0		
4,470.00	4,462.44	4,473.56	4,462.44	4.77	16.35	-134.81	221.53	200.85	20.67	10.716	0		
4,483.16	4,475.60	4,486.72	4,475.60	4.79	16.39	-93.33	221.53	200.80	20.73	10.685	0		
4,500.00	4,492.44	4,503.56	4,492.44	4.80	16.45	-93.33	221.54	200.73	20.81	10.647	0		
4,530.00	4,522.44	4,533.56	4,522.44	4.83	16.55	-138.11	221.54	200.60	20.94	10.578	0		
4,560.00	4,552.44	4,563.56	4,552.44	4.86	16.66	-93.33	221.54	200.47	21.08	10.511	0		
4,577.84	4,570.28	4,581.40	4,570.28	4.88	16.72	-93.33	221.54	200.39	21.16	10.471	0		
4,590.00	4,582.44	4,606.44	4,582.44	4.89	16.80	-93.33	221.54	200.29	21.26	10.422	0		
4,620.00	4,612.44	4,623.56	4,612.44	4.92	16.86	-125.78	221.55	200.20	21.35	10.378	0		
4,650.00	4,642.44	4,653.56	4,642.44	4.96	16.96	-125.78	221.55	200.07	21.48	10.312	0		
4,672.79	4,665.23	4,676.35	4,665.23	4.98	17.04	-93.34	221.55	199.97	21.59	10.264	0		
4,680.00	4,672.44	4,683.56	4,672.44	4.99	17.07	-93.34	221.55	199.94	21.62	10.248	0		
4,710.00	4,702.44	4,713.56	4,702.44	5.02	17.17	-93.34	221.56	199.81	21.75	10.185	0		
4,740.00	4,732.44	4,743.56	4,732.44	5.05	17.27	-139.55	221.57	199.68	21.89	10.122	0		
4,766.69	4,759.13	4,770.25	4,759.13	5.07	17.36	-93.34	221.58	199.57	22.01	10.067	0		
4,770.00	4,762.44	4,773.56	4,762.44	5.08	17.37	-93.34	221.58	199.56	22.03	10.061	0		
4,800.00	4,792.44	4,803.56	4,792.44	5.11	17.48	-171.63	221.60	199.44	22.16	10.000	0		
4,830.00	4,822.44	4,833.56	4,822.44	5.14	17.58	176.15	221.63	199.33	22.30	9.940	0		
4,860.00	4,852.44	4,863.56	4,852.44	5.17	17.68	169.46	221.67	199.23	22.43	9.882	0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Riskd Separation Factor	Probability of Collision		
4,860.80	4,853.24	4,864.36	4,853.24	5.17	17.69	-93.34	221.67	199.23	22.44	9.880	0			
4,890.00	4,882.44	4,906.44	4,882.44	5.20	17.83	-93.34	221.71	199.09	22.61	9.805	0			
4,920.00	4,912.44	4,923.56	4,912.44	5.23	17.89	173.66	221.75	199.04	22.70	9.767	0			
4,950.00	4,942.44	4,953.56	4,942.44	5.26	17.99	176.14	221.78	198.94	22.84	9.711	0			
4,955.35	4,947.79	4,958.91	4,947.79	5.27	18.01	-93.34	221.79	198.93	22.86	9.701	0			
4,980.00	4,972.44	4,983.56	4,972.44	5.29	18.09	173.04	221.82	198.84	22.97	9.655	0			
5,010.00	5,002.44	5,013.56	5,002.44	5.32	18.20	165.16	221.84	198.73	23.11	9.599	0			
5,040.00	5,032.44	5,043.56	5,032.44	5.35	18.30	146.34	221.86	198.61	23.25	9.544	0			
5,049.20	5,041.64	5,052.76	5,041.64	5.36	18.33	-93.34	221.86	198.57	23.29	9.527	0			
5,070.00	5,062.44	5,073.56	5,062.44	5.38	18.40	141.84	221.86	198.48	23.38	9.489	0			
5,100.00	5,092.44	5,103.56	5,092.44	5.41	18.51	-93.34	221.87	198.35	23.52	9.434	0			
5,130.00	5,122.44	5,133.56	5,122.44	5.45	18.61	-65.23	221.86	198.21	23.65	9.380	0			
5,143.38	5,135.82	5,146.94	5,135.82	5.46	18.66	-61.91	221.86	198.15	23.71	9.356	0			
5,160.00	5,152.44	5,163.56	5,152.44	5.48	18.71	-61.91	221.86	198.07	23.79	9.326	0			
5,190.00	5,182.44	5,206.44	5,182.44	5.51	18.86	-70.45	221.86	197.89	23.97	9.256	0			
5,220.00	5,212.44	5,223.56	5,212.44	5.54	18.92	-79.93	221.85	197.79	24.06	9.221	0			
5,237.49	5,229.93	5,241.05	5,229.93	5.56	18.98	-88.05	221.85	197.71	24.14	9.190	0			
5,250.00	5,242.44	5,253.56	5,242.44	5.57	19.03	-67.49	221.85	197.66	24.20	9.169	0			
5,280.00	5,272.44	5,283.56	5,272.44	5.60	19.13	-60.37	221.84	197.51	24.33	9.117	0			
5,310.00	5,302.44	5,313.56	5,302.44	5.63	19.23	-58.66	221.82	197.35	24.47	9.065	0			
5,331.81	5,324.25	5,335.37	5,324.25	5.65	19.31	-58.07	221.79	197.22	24.57	9.028	0			
5,340.00	5,332.44	5,343.56	5,332.44	5.66	19.34	-58.07	221.78	197.18	24.61	9.013	0			
5,370.00	5,362.44	5,373.56	5,362.44	5.69	19.44	-56.50	221.74	197.00	24.74	8.962	0			
5,400.00	5,392.44	5,403.56	5,392.44	5.72	19.54	-55.53	221.69	196.81	24.88	8.911	0			
5,426.33	5,418.77	5,429.89	5,418.77	5.75	19.64	-54.81	221.64	196.64	25.00	8.866	0			
5,430.00	5,422.44	5,433.56	5,422.44	5.75	19.65	-54.81	221.63	196.62	25.01	8.860	0			
5,460.00	5,452.44	5,463.56	5,452.44	5.78	19.75	-57.48	221.57	196.42	25.15	8.810	0			
5,490.00	5,482.44	5,506.44	5,482.44	5.82	19.90	-59.35	221.51	196.18	25.33	8.744	0			
5,520.00	5,512.44	5,523.56	5,512.44	5.85	19.96	-60.87	221.44	196.02	25.42	8.710	0			
5,521.18	5,513.62	5,524.74	5,513.62	5.85	19.96	-60.92	221.44	196.01	25.43	8.708	0			
5,550.00	5,542.44	5,553.56	5,542.44	5.88	20.06	-61.58	221.38	195.82	25.56	8.661	0			
5,580.00	5,572.44	5,583.56	5,572.44	5.91	20.17	-62.31	221.31	195.62	25.70	8.612	0			
5,610.00	5,602.44	5,613.56	5,602.44	5.94	20.27	-63.06	221.25	195.42	25.84	8.564	0			
5,615.03	5,607.47	5,618.59	5,607.47	5.94	20.29	-63.19	221.24	195.38	25.86	8.556	0			
5,640.00	5,632.44	5,643.56	5,632.44	5.97	20.38	-63.21	221.19	195.22	25.97	8.517	0			
5,670.00	5,662.44	5,673.56	5,662.44	6.00	20.48	-63.24	221.14	195.03	26.11	8.470	0			
5,700.00	5,692.44	5,703.56	5,692.44	6.03	20.58	-63.26	221.09	194.84	26.25	8.424	0			
5,709.63	5,702.07	5,713.19	5,702.07	6.04	20.62	-63.27	221.08	194.79	26.29	8.409	0			
5,730.00	5,722.44	5,733.56	5,722.44	6.06	20.69	-80.42	221.05	194.67	26.38	8.379	0			
5,756.92	5,749.36	5,760.47	5,749.36	6.09	20.78	-90.00	221.04	194.53	26.51	8.339	0			
5,760.00	5,752.44	5,763.55	5,752.44	6.10	20.79	-90.69	221.04	194.52	26.52	8.335	0			
5,790.00	5,782.44	5,806.45	5,782.44	6.13	20.94	-95.41	221.06	194.35	26.70	8.278	0			
5,804.78	5,797.21	5,808.33	5,797.21	6.14	20.95	-96.91	221.08	194.35	26.73	8.272	0			
5,820.00	5,812.43	5,823.55	5,812.43	6.16	21.00	-98.67	221.11	194.31	26.80	8.252	0			
5,850.00	5,842.43	5,853.55	5,842.43	6.19	21.11	-101.28	221.19	194.26	26.93	8.213	0			
5,880.00	5,872.42	5,883.54	5,872.42	6.22	21.21	-103.17	221.32	194.25	27.07	8.175	0			
5,899.68	5,892.10	5,903.22	5,892.10	6.24	21.28	-104.16	221.42	194.26	27.16	8.152	0			
5,910.00	5,902.41	5,913.53	5,902.41	6.25	21.31	-104.74	221.49	194.28	27.21	8.140	0			
5,940.00	5,932.41	5,943.52	5,932.41	6.29	21.42	-106.34	221.68	194.33	27.35	8.105	0			
5,970.00	5,962.40	5,973.51	5,962.40	6.32	21.52	-107.85	221.90	194.42	27.49	8.072	0			
5,994.87	5,987.26	6,001.62	5,987.26	6.34	21.62	-109.04	222.11	194.49	27.62	8.043	0			
6,000.00	5,992.39	6,003.50	5,992.39	6.35	21.63	-109.34	222.16	194.53	27.63	8.041	0			
6,030.00	6,022.38	6,033.49	6,022.38	6.38	21.73	-111.14	222.43	194.66	27.77	8.010	0			
6,060.00	6,052.37	6,063.48	6,052.37	6.41	21.84	-113.00	222.71	194.81	27.91	7.981	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	
6,089.77	6,082.13	6,106.76	6,082.13	6.45	21.99	-114.92	223.02	194.93	28.09	7.939	0		
6,090.00	6,082.36	6,106.53	6,082.36	6.45	21.99	-114.92	223.02	194.93	28.09	7.939	0		
6,120.00	6,112.35	6,123.46	6,112.35	6.48	22.05	-116.53	223.35	195.16	28.18	7.924	0		
6,150.00	6,142.34	6,153.45	6,142.34	6.51	22.15	-118.05	223.70	195.38	28.32	7.898	0		
6,180.00	6,172.33	6,183.44	6,172.33	6.54	22.26	-119.50	224.09	195.62	28.46	7.873	0		
6,185.13	6,177.45	6,188.57	6,177.45	6.55	22.27	-119.75	224.16	195.67	28.49	7.869	0		
6,210.00	6,202.32	6,213.43	6,202.32	6.57	22.36	-120.47	224.49	195.89	28.60	7.849	0		
6,240.00	6,232.30	6,243.42	6,232.30	6.61	22.46	-121.34	224.91	196.17	28.74	7.825	0		
6,270.00	6,262.29	6,273.41	6,262.29	6.64	22.57	-122.20	225.34	196.46	28.88	7.803	0		
6,280.58	6,272.87	6,283.99	6,272.87	6.65	22.61	-122.51	225.49	196.56	28.93	7.795	0		
6,300.00	6,292.28	6,303.40	6,292.28	6.67	22.67	-123.54	225.77	196.76	29.02	7.780	0		
6,330.00	6,322.27	6,333.39	6,322.27	6.70	22.78	-125.15	226.22	197.07	29.16	7.759	0		
6,360.00	6,352.26	6,363.38	6,352.26	6.73	22.88	-126.81	226.69	197.39	29.30	7.738	0		
6,374.61	6,366.87	6,377.98	6,366.87	6.75	22.93	-127.62	226.92	197.55	29.36	7.728	0		
6,390.00	6,382.25	6,406.63	6,382.25	6.77	23.03	-127.86	227.16	197.68	29.48	7.705	0		
6,420.00	6,412.24	6,423.36	6,412.24	6.80	23.09	-128.32	227.65	198.07	29.57	7.697	0		
6,450.00	6,442.23	6,453.35	6,442.23	6.83	23.20	-128.77	228.15	198.44	29.71	7.678	0		
6,469.73	6,461.95	6,473.07	6,461.95	6.85	23.27	-129.06	228.49	198.68	29.80	7.666	0		
6,480.00	6,472.22	6,483.34	6,472.22	6.86	23.30	-128.67	228.66	198.81	29.85	7.660	0		
6,510.00	6,502.21	6,513.33	6,502.21	6.89	23.41	-127.53	229.17	199.18	29.99	7.641	0		
6,540.00	6,532.20	6,543.31	6,532.20	6.93	23.51	-126.37	229.66	199.53	30.13	7.622	0		
6,564.94	6,557.13	6,568.25	6,557.13	6.95	23.60	-125.41	230.06	199.81	30.25	7.606	0		
6,570.00	6,562.19	6,573.30	6,562.19	6.96	23.62	-125.18	230.13	199.87	30.27	7.603	0		
6,600.00	6,592.17	6,603.29	6,592.17	6.99	23.72	-123.90	230.60	200.19	30.41	7.584	0		
6,630.00	6,622.16	6,633.28	6,622.16	7.02	23.83	-122.68	231.06	200.52	30.55	7.564	0		
6,660.00	6,652.15	6,663.27	6,652.15	7.05	23.93	-121.52	231.52	200.83	30.69	7.545	0		
6,660.48	6,652.63	6,663.75	6,652.63	7.05	23.93	-121.50	231.53	200.84	30.69	7.544	0		
6,690.00	6,682.14	6,706.74	6,682.14	7.09	24.09	-121.46	231.98	201.11	30.87	7.514	0		
6,720.00	6,712.12	6,723.24	6,712.12	7.12	24.14	-121.43	232.45	201.48	30.96	7.507	0		
6,750.00	6,742.11	6,753.23	6,742.11	7.15	24.25	-121.41	232.93	201.82	31.10	7.489	0		
6,755.45	6,747.56	6,758.68	6,747.56	7.16	24.27	-121.41	233.01	201.88	31.13	7.485	0		
6,780.00	6,772.10	6,783.21	6,772.10	7.18	24.35	-121.33	233.41	202.16	31.24	7.471	0		
6,810.00	6,802.08	6,813.20	6,802.08	7.21	24.46	-121.21	233.87	202.49	31.38	7.452	0		
6,840.00	6,832.07	6,843.19	6,832.07	7.25	24.56	-121.06	234.32	202.79	31.52	7.433	0		
6,849.94	6,842.01	6,853.12	6,842.01	7.26	24.60	-121.01	234.46	202.89	31.57	7.427	0		
6,870.00	6,862.06	6,873.18	6,862.06	7.28	24.67	-120.54	234.74	203.08	31.66	7.414	0		
6,900.00	6,892.05	6,903.17	6,892.05	7.31	24.77	-119.69	235.12	203.32	31.80	7.394	0		
6,930.00	6,922.04	6,933.16	6,922.04	7.34	24.88	-118.62	235.46	203.52	31.94	7.372	0		
6,945.10	6,937.14	6,948.26	6,937.14	7.36	24.93	-117.97	235.61	203.60	32.01	7.361	0		
6,960.00	6,952.04	6,963.15	6,952.04	7.37	24.98	-116.80	235.75	203.67	32.08	7.349	0		
6,990.00	6,982.03	7,006.85	6,982.03	7.41	25.14	-114.07	235.99	203.73	32.26	7.314	0		
7,020.00	7,012.03	7,023.14	7,012.03	7.44	25.20	-110.70	236.19	203.84	32.35	7.300	0		
7,040.31	7,032.33	7,043.45	7,032.33	7.46	25.27	-107.97	236.30	203.85	32.45	7.282	0		
7,050.00	7,042.02	7,053.14	7,042.02	7.47	25.30	-106.72	236.34	203.85	32.49	7.273	0		
7,080.00	7,072.02	7,083.14	7,072.02	7.50	25.41	-102.31	236.45	203.81	32.63	7.246	0		
7,110.00	7,102.02	7,113.13	7,102.02	7.53	25.51	-96.97	236.51	203.74	32.77	7.217	0		
7,135.43	7,127.44	7,138.56	7,127.44	7.56	25.60	-91.59	236.53	203.65	32.89	7.192	0		
7,140.00	7,132.01	7,143.13	7,132.01	7.56	25.62	-90.64	236.54	203.63	32.91	7.188	0		
7,170.00	7,162.01	7,173.13	7,162.01	7.60	25.72	-84.02	236.52	203.47	33.05	7.157	0		
7,200.00	7,192.01	7,203.13	7,192.01	7.63	25.83	-76.87	236.47	203.28	33.18	7.126	0		
7,230.00	7,222.01	7,233.13	7,222.01	7.66	25.93	-69.39	236.38	203.06	33.32	7.094	0		
7,230.68	7,222.69	7,233.81	7,222.69	7.66	25.94	-69.22	236.38	203.05	33.33	7.093	0		
7,260.00	7,252.01	7,263.12	7,252.01	7.69	26.04	-64.79	236.26	202.80	33.46	7.061	0		
7,290.00	7,282.01	7,306.88	7,282.01	7.72	26.19	-60.52	236.11	202.46	33.65	7.017	0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error:		0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:		0.00 ft		
Reference		Offset		Semi Major Axis		Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation Factor	Probability of Collision					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)								
7,320.00	7,312.00	7,323.12	7,312.00	7.75	26.25	-56.52	235.93	202.20	33.74	6.994	0						
7,324.74	7,316.74	7,327.86	7,316.74	7.76	26.27	-55.91	235.90	202.15	33.76	6.988	0						
7,350.00	7,342.00	7,353.12	7,342.00	7.78	26.35	-69.45	235.78	201.90	33.87	6.960	0						
7,380.00	7,372.00	7,383.12	7,372.00	7.82	26.46	-85.06	235.70	201.69	34.01	6.930	0						
7,390.41	7,382.41	7,406.48	7,382.41	7.83	26.54	-90.00	235.70	201.59	34.11	6.911	0						
7,410.00	7,402.00	7,413.12	7,402.00	7.85	26.57	-98.38	235.71	201.56	34.15	6.902	0						
7,419.92	7,411.92	7,423.03	7,411.92	7.86	26.60	-102.15	235.74	201.54	34.20	6.894	0						
7,440.00	7,431.99	7,443.11	7,431.99	7.88	26.67	-105.24	235.80	201.52	34.29	6.877	0						
7,470.00	7,461.99	7,473.11	7,461.99	7.91	26.78	-109.49	235.93	201.51	34.43	6.853	0						
7,500.00	7,491.99	7,503.11	7,491.99	7.94	26.88	-113.32	236.10	201.54	34.57	6.831	0						
7,513.87	7,505.86	7,516.97	7,505.86	7.96	26.93	-114.96	236.19	201.56	34.63	6.821	0						
7,530.00	7,521.98	7,533.10	7,521.98	7.97	26.99	-112.58	236.29	201.59	34.70	6.809	0						
7,560.00	7,551.98	7,563.10	7,551.98	8.00	27.09	-107.86	236.45	201.61	34.84	6.786	0						
7,590.00	7,581.98	7,606.91	7,581.98	8.04	27.25	-102.77	236.57	201.54	35.03	6.753	0						
7,608.87	7,600.85	7,611.96	7,600.85	8.06	27.27	-99.39	236.62	201.56	35.07	6.748	0						
7,620.00	7,611.97	7,623.09	7,611.97	8.07	27.30	-96.38	236.65	201.53	35.12	6.738	0						
7,650.00	7,641.97	7,653.09	7,641.97	8.10	27.41	-88.10	236.66	201.40	35.26	6.712	0						
7,680.00	7,671.97	7,683.09	7,671.97	8.13	27.52	-79.88	236.62	201.22	35.40	6.685	0						
7,703.72	7,695.69	7,706.80	7,695.69	8.16	27.60	-73.65	236.54	201.03	35.51	6.662	0						
7,710.00	7,701.97	7,713.08	7,701.97	8.16	27.62	-71.34	236.51	200.98	35.53	6.656	0						
7,740.00	7,731.96	7,743.08	7,731.96	8.19	27.73	-60.77	236.33	200.65	35.67	6.625	0						
7,770.00	7,761.96	7,773.08	7,761.96	8.23	27.83	-51.35	236.06	200.25	35.81	6.592	0						
7,798.91	7,790.86	7,801.98	7,790.86	8.26	27.94	-43.62	235.72	199.78	35.94	6.558	0						
7,800.00	7,791.95	7,803.07	7,791.95	8.26	27.94	-43.31	235.71	199.76	35.95	6.557	0						
7,830.00	7,821.95	7,833.07	7,821.95	8.29	28.04	-34.07	235.31	199.22	36.09	6.520	0						
7,860.00	7,851.95	7,863.06	7,851.95	8.32	28.15	-23.61	234.88	198.66	36.23	6.484	0						
7,890.00	7,881.94	7,906.94	7,881.94	8.35	28.31	-12.47	234.43	198.02	36.41	6.438	0						
7,893.61	7,885.55	7,903.33	7,885.55	8.35	28.29	-11.12	234.38	197.97	36.40	6.438	0						
7,920.00	7,911.94	7,923.06	7,911.94	8.38	28.36	-5.89	234.04	197.54	36.50	6.412	0						
7,950.00	7,941.94	7,953.06	7,941.94	8.41	28.47	19.36	233.84	197.20	36.64	6.382	0						
7,967.26	7,959.20	7,970.32	7,959.20	8.43	28.53	90.00	233.81	197.09	36.72	6.368	0						
7,980.00	7,971.94	7,983.06	7,971.94	8.44	28.57	126.86	233.83	197.05	36.78	6.358	0						
7,988.45	7,980.39	8,008.49	7,980.39	8.45	28.66	136.56	233.86	196.98	36.87	6.342	0						
8,010.00	8,001.94	8,013.06	8,001.94	8.47	28.68	144.78	233.97	197.06	36.91	6.339	0						
8,040.00	8,031.94	8,043.05	8,031.94	8.50	28.79	152.15	234.19	197.14	37.05	6.321	0						
8,070.00	8,061.93	8,073.05	8,061.93	8.53	28.89	156.89	234.47	197.29	37.19	6.305	0						
8,083.06	8,074.99	8,086.11	8,074.99	8.55	28.94	158.45	234.62	197.37	37.25	6.299	0						
8,100.00	8,091.93	8,103.05	8,091.93	8.57	29.00	156.66	234.81	197.49	37.32	6.291	0						
8,130.00	8,121.93	8,133.05	8,121.93	8.60	29.10	153.22	235.14	197.68	37.46	6.277	0						
8,160.00	8,151.93	8,163.05	8,151.93	8.63	29.21	149.39	235.43	197.84	37.60	6.262	0						
8,177.88	8,169.81	8,180.93	8,169.81	8.65	29.27	146.92	235.60	197.92	37.68	6.253	0						
8,190.00	8,181.93	8,206.96	8,181.93	8.66	29.36	143.39	235.70	197.92	37.78	6.238	0						
8,220.00	8,211.92	8,223.04	8,211.92	8.69	29.42	134.93	235.95	198.08	37.87	6.230	0						
8,250.00	8,241.92	8,253.04	8,241.92	8.72	29.53	127.08	236.17	198.16	38.01	6.214	0						
8,273.10	8,265.02	8,276.14	8,265.02	8.74	29.61	121.58	236.32	198.21	38.11	6.201	0						
8,280.00	8,271.92	8,283.04	8,271.92	8.75	29.63	120.01	236.36	198.22	38.14	6.197	0						
8,310.00	8,301.92	8,313.04	8,301.92	8.78	29.74	113.52	236.53	198.25	38.28	6.179	0						
8,340.00	8,331.92	8,343.03	8,331.92	8.81	29.84	107.65	236.67	198.25	38.42	6.160	0						
8,368.22	8,360.13	8,371.25	8,360.13	8.84	29.94	102.71	236.77	198.22	38.55	6.143	0						
8,370.00	8,361.91	8,373.03	8,361.91	8.84	29.95	101.64	236.77	198.22	38.55	6.141	0						
8,400.00	8,391.91	8,403.03	8,391.91	8.87	30.06	67.87	236.77	198.08	38.69	6.120	0						
8,430.00	8,421.91	8,433.03	8,421.91	8.90	30.16	9.30	236.59	197.77	38.83	6.093	0						
8,460.00	8,451.91	8,463.03	8,451.91	8.93	30.27	-17.26	236.24	197.28	38.96	6.063	0						
8,462.94	8,454.85	8,465.97	8,454.85	8.94	30.28	-18.66	236.20	197.22	38.98	6.060	0						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision				
8,490.00	8,481.90	8,506.98	8,481.90	8.96	30.42	-30.18	235.78	196.63	39.15	6.022	0					
8,520.00	8,511.90	8,523.02	8,511.90	9.00	30.48	-40.45	235.33	196.09	39.24	5.997	0					
8,550.00	8,541.89	8,553.01	8,541.89	9.03	30.59	-48.37	234.87	195.49	39.38	5.964	0					
8,557.71	8,549.60	8,560.72	8,549.60	9.04	30.61	-50.09	234.75	195.34	39.42	5.956	0					
8,580.00	8,571.88	8,583.00	8,571.88	9.06	30.69	-53.81	234.43	194.91	39.52	5.932	0					
8,610.00	8,601.88	8,612.99	8,601.88	9.09	30.80	-58.84	234.03	194.38	39.66	5.901	0					
8,640.00	8,631.87	8,642.98	8,631.87	9.12	30.90	-63.83	233.69	193.89	39.80	5.872	0					
8,653.00	8,644.86	8,655.98	8,644.86	9.14	30.95	-65.96	233.56	193.70	39.86	5.860	0					
8,670.00	8,661.86	8,672.98	8,661.86	9.15	31.01	-65.60	233.39	193.45	39.94	5.844	0					
8,700.00	8,691.85	8,702.97	8,691.85	9.19	31.12	-64.97	233.09	193.01	40.08	5.816	0					
8,722.40	8,714.24	8,725.36	8,714.24	9.21	31.20	-64.50	232.86	192.68	40.18	5.795	0					
8,730.00	8,721.84	8,732.96	8,721.84	9.21	31.22	-66.07	232.77	192.56	40.21	5.789	0					
8,760.00	8,751.82	8,762.94	8,751.82	9.23	31.33	-69.82	232.39	192.05	40.34	5.761	0					
8,790.00	8,781.79	8,807.10	8,781.79	9.25	31.48	-71.93	231.92	191.40	40.51	5.724	0					
8,814.00	8,805.74	8,816.86	8,805.74	9.27	31.52	-73.16	231.48	190.91	40.56	5.707	0					
8,820.00	8,811.73	8,822.84	8,811.73	9.27	31.54	-75.52	231.36	190.77	40.59	5.701	0					
8,846.00	8,837.57	8,848.69	8,837.57	9.27	31.63	-80.98	230.82	190.13	40.68	5.673	0					
8,850.00	8,841.53	8,852.65	8,841.53	9.27	31.65	-81.69	230.73	190.03	40.70	5.669	0					
8,877.00	8,868.06	8,879.18	8,868.06	9.28	31.74	-85.30	230.18	189.37	40.80	5.641	0					
8,880.00	8,870.99	8,882.11	8,870.99	9.28	31.75	-85.69	230.12	189.31	40.82	5.638	0					
8,909.00	8,899.04	8,910.16	8,899.04	9.29	31.85	-89.15	229.80	188.86	40.93	5.614	0					
8,910.00	8,900.00	8,911.12	8,900.00	9.29	31.85	-89.21	229.79	188.85	40.94	5.613	0					
8,921.75	8,911.25	8,922.37	8,911.25	9.30	31.89	-90.00	229.77	188.78	40.99	5.606	0					
8,940.00	8,928.62	8,939.74	8,928.62	9.31	31.95	-91.29	229.83	188.77	41.07	5.597	0					
8,941.00	8,929.57	8,940.69	8,929.57	9.31	31.96	-91.36	229.84	188.77	41.07	5.596	0					
8,970.00	8,956.81	8,967.93	8,956.81	9.33	32.05	-93.61	230.30	189.10	41.20	5.590	0					
8,972.00	8,958.67	8,969.79	8,958.67	9.33	32.06	-93.77	230.35	189.15	41.21	5.590	0					
9,000.00	8,984.37	8,996.51	8,985.39	9.35	32.16	-98.12	231.59	190.25	41.34	5.602	0					
9,004.00	8,987.99	9,000.61	8,989.49	9.36	32.17	-98.73	231.85	190.49	41.36	5.605	0					
9,030.00	9,011.17	9,027.63	9,016.47	9.39	32.27	-102.97	233.93	192.43	41.50	5.637	0					
9,035.00	9,015.56	9,032.90	9,021.73	9.40	32.29	-103.73	234.41	192.89	41.53	5.645	0					
9,060.00	9,037.24	9,059.72	9,048.36	9.44	32.39	-107.11	237.17	195.51	41.66	5.693	0					
9,067.00	9,043.22	9,067.36	9,055.93	9.45	32.42	-108.00	238.03	196.33	41.70	5.708	0					
9,090.00	9,062.61	9,092.91	9,081.07	9.50	32.51	-108.58	240.83	199.01	41.83	5.758	0					
9,099.00	9,070.07	9,103.09	9,091.01	9.52	32.55	-108.85	241.88	200.01	41.88	5.776	0					
9,120.00	9,087.08	9,127.14	9,114.33	9.58	32.64	-110.39	244.39	202.39	42.00	5.819	0					
9,131.00	9,095.74	9,139.90	9,126.59	9.62	32.69	-111.21	245.77	203.72	42.05	5.844	0					
9,150.00	9,110.32	9,162.27	9,147.85	9.68	32.78	-114.07	248.41	206.25	42.16	5.893	0					
9,162.00	9,119.30	9,176.63	9,161.33	9.73	32.83	-115.76	250.28	208.07	42.22	5.928	0					
9,180.00	9,132.45	9,198.54	9,181.64	9.81	32.92	-118.49	253.38	211.07	42.31	5.989	0					
9,194.00	9,142.45	9,215.92	9,197.48	9.87	32.99	-120.46	256.01	213.63	42.37	6.042	0					
9,210.00	9,153.61	9,236.12	9,215.58	9.95	33.06	-121.86	259.14	216.70	42.44	6.106	0					
9,226.00	9,164.45	9,256.68	9,233.64	10.03	33.15	-123.16	262.35	219.85	42.50	6.173	0					
9,240.00	9,173.67	9,274.96	9,249.36	10.12	33.22	-123.93	265.18	222.62	42.56	6.231	0					
9,257.00	9,184.50	9,297.52	9,268.28	10.22	33.31	-124.81	268.59	225.98	42.61	6.304	0					
9,270.00	9,192.49	9,315.03	9,282.59	10.31	33.38	-125.40	271.18	228.53	42.65	6.359	0					
9,289.00	9,203.66	9,341.01	9,303.18	10.44	33.49	-126.21	274.95	232.26	42.69	6.441	0					
9,300.00	9,209.88	9,356.27	9,314.90	10.53	33.56	-126.83	277.10	234.39	42.71	6.488	0					
9,320.00	9,220.81	9,384.47	9,335.78	10.68	33.68	-127.84	280.93	238.19	42.74	6.573	0					
9,330.00	9,226.09	9,398.78	9,345.98	10.77	33.75	-128.32	282.78	240.03	42.75	6.614	0					
9,352.00	9,237.36	9,430.76	9,367.73	10.96	33.90	-129.22	286.66	243.87	42.78	6.701	0					
9,360.00	9,241.32	9,442.54	9,375.37	11.04	33.95	-129.34	287.98	245.19	42.79	6.730	0					
9,384.00	9,252.73	9,478.30	9,397.32	11.26	34.13	-129.61	291.61	248.79	42.83	6.809	0					
9,390.00	9,255.47	9,487.34	9,402.55	11.33	34.18	-129.61	292.44	249.60	42.84	6.827	0					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Riskd Separation Factor	Probability of Collision	
9,415.00	9,266.31	9,525.31	9,423.11	11.59	34.38	-129.58	295.49	252.60	42.89	6.889	0		
9,420.00	9,268.37	9,532.96	9,426.97	11.64	34.42	-129.58	296.02	253.11	42.91	6.899	0		
9,447.00	9,278.88	9,574.55	9,446.21	11.95	34.65	-129.46	298.46	255.45	43.00	6.940	0		
9,450.00	9,279.98	9,579.20	9,448.18	11.98	34.68	-129.46	298.68	255.66	43.02	6.943	0		
9,479.00	9,290.18	9,624.24	9,465.25	12.33	34.95	-129.29	300.30	257.09	43.20	6.951	0		
9,480.00	9,290.52	9,625.79	9,465.77	12.35	34.96	-129.28	300.33	257.12	43.21	6.950	0		
9,510.00	9,300.29	9,672.36	9,479.44	12.73	35.26	-128.79	300.83	257.31	43.52	6.912	0		
9,511.00	9,300.61	9,673.91	9,479.82	12.74	35.27	-128.77	300.83	257.29	43.53	6.910	0		
9,540.00	9,309.35	9,718.48	9,488.99	13.13	35.57	-127.59	299.98	256.00	43.97	6.822	0		
9,542.00	9,309.92	9,721.53	9,489.48	13.16	35.59	-127.51	299.87	255.86	44.01	6.814	0		
9,570.00	9,317.34	9,763.83	9,494.46	13.56	35.89	-126.28	297.70	253.15	44.55	6.682	0		
9,574.00	9,318.30	9,769.81	9,494.89	13.61	35.93	-126.11	297.30	252.66	44.64	6.660	0		
9,600.00	9,323.85	9,808.27	9,495.99	14.01	36.21	-125.15	294.28	249.04	45.24	6.505	0		
9,605.00	9,324.77	9,812.82	9,495.97	14.08	36.25	-125.06	293.65	248.30	45.36	6.474	0		
9,630.00	9,328.67	9,837.49	9,495.82	14.47	36.45	-124.73	290.94	245.01	45.93	6.334	0		
9,636.00	9,329.42	9,843.43	9,495.78	14.57	36.49	-124.66	290.41	244.35	46.06	6.305	0		
9,660.00	9,331.90	9,867.28	9,495.63	14.95	36.68	-124.40	288.60	242.02	46.58	6.196	0		
9,664.00	9,332.24	9,871.27	9,495.61	15.02	36.71	-124.37	288.35	241.69	46.66	6.179	0		
9,690.00	9,333.83	9,902.79	9,495.45	15.44	36.97	-124.22	287.19	239.95	47.24	6.079	0		
9,695.00	9,334.01	9,902.20	9,495.42	15.53	36.96	-124.19	287.07	239.77	47.30	6.069	0		
9,720.00	9,334.66	9,927.19	9,495.27	15.94	37.19	-124.07	286.73	238.91	47.82	5.996	0		
9,727.00	9,334.77	9,934.19	9,495.22	16.06	37.25	-124.03	286.71	238.74	47.96	5.978	0		
9,734.54	9,334.87	9,941.72	9,495.18	16.19	37.32	-124.00	286.70	238.58	48.12	5.958	0		
9,750.00	9,335.07	9,957.18	9,495.08	16.45	37.45	-123.93	286.72	238.28	48.44	5.919	0		
9,759.00	9,335.18	9,966.18	9,495.03	16.61	37.53	-123.89	286.76	238.13	48.63	5.897	0		
9,780.00	9,335.40	9,987.17	9,494.90	16.97	37.72	-123.79	286.87	237.79	49.08	5.845	0		
9,810.00	9,335.69	10,017.16	9,494.72	17.50	38.01	-123.65	287.07	237.33	49.74	5.772	0		
9,840.00	9,335.93	10,047.15	9,494.53	18.02	38.30	-123.51	287.31	236.90	50.41	5.700	0		
9,854.00	9,336.03	10,061.15	9,494.45	18.27	38.44	-123.45	287.43	236.71	50.72	5.667	0		
9,870.00	9,336.14	10,077.15	9,494.35	18.56	38.60	-123.38	287.60	236.51	51.10	5.629	0		
9,900.00	9,336.37	10,107.13	9,494.17	19.10	38.90	-123.23	288.04	236.24	51.81	5.560	0		
9,930.00	9,336.62	10,137.11	9,493.98	19.64	39.22	-123.06	288.64	236.09	52.55	5.493	0		
9,948.00	9,336.78	10,155.10	9,493.87	19.96	39.42	-122.95	289.07	236.07	53.00	5.454	0		
9,960.00	9,336.88	10,167.09	9,493.80	20.18	39.55	-122.87	289.39	236.08	53.31	5.429	0		
9,990.00	9,336.99	10,197.06	9,493.62	20.73	39.87	-122.67	290.30	236.23	54.07	5.369	0		
10,020.00	9,336.90	10,227.03	9,493.44	21.29	40.21	-122.51	291.37	236.52	54.85	5.312	0		
10,043.00	9,336.71	10,250.00	9,493.30	21.71	40.48	-122.39	292.30	236.86	55.44	5.272	0		
10,050.00	9,336.64	10,256.99	9,493.25	21.84	40.56	-122.37	292.60	236.97	55.63	5.260	0		
10,080.00	9,336.49	10,286.96	9,493.07	22.40	40.91	-122.23	293.73	237.31	56.42	5.206	0		
10,110.00	9,336.57	10,316.93	9,492.89	22.96	41.27	-122.06	294.68	237.43	57.25	5.148	0		
10,137.00	9,336.84	10,343.91	9,492.72	23.47	41.60	-121.89	295.37	237.36	58.01	5.092	0		
10,140.00	9,336.88	10,346.91	9,492.70	23.53	41.64	-121.86	295.44	237.34	58.10	5.085	0		
10,170.00	9,337.24	10,376.88	9,492.52	24.10	42.01	-121.66	296.06	237.10	58.96	5.022	0		
10,200.00	9,337.52	10,406.86	9,492.34	24.68	42.38	-121.48	296.60	236.78	59.82	4.959	0		
10,230.00	9,337.71	10,436.85	9,492.15	25.25	42.77	-121.34	297.05	236.37	60.68	4.895	0		
10,232.00	9,337.72	10,438.85	9,492.14	25.29	42.79	-121.33	297.07	236.34	60.74	4.891	0		
10,260.00	9,337.94	10,466.84	9,491.97	25.84	43.16	-121.20	297.39	235.84	61.55	4.831	0		
10,290.00	9,338.37	10,496.83	9,491.79	26.42	43.55	-121.04	297.61	235.16	62.44	4.766	0		
10,320.00	9,338.99	10,526.81	9,491.60	27.00	43.95	-120.85	297.70	234.34	63.37	4.698	0		
10,327.00	9,339.16	10,533.81	9,491.56	27.14	44.05	-120.80	297.71	234.12	63.58	4.682	0		
10,350.00	9,339.75	10,556.79	9,491.42	27.59	44.36	-120.64	297.72	233.41	64.31	4.629	0		
10,380.00	9,340.54	10,586.77	9,491.24	28.18	44.77	-120.42	297.74	232.48	65.26	4.562	0		
10,410.00	9,341.35	10,616.75	9,491.05	28.77	45.19	-120.20	297.78	231.56	66.23	4.496	0		
10,422.00	9,341.67	10,628.74	9,490.98	29.01	45.36	-120.11	297.81	231.19	66.62	4.470	0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error:		0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error:		0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Riskd Separation Factor	Probability of Collision						
10,440.00	9,342.12	10,646.72	9,490.87	29.36	45.61	-119.98	297.90	230.70	67.21	4.433	0							
10,470.00	9,342.67	10,676.70	9,490.69	29.95	46.04	-119.77	298.34	230.16	68.18	4.376	0							
10,500.00	9,342.96	10,706.67	9,490.51	30.55	46.47	-119.58	299.13	229.98	69.16	4.325	0							
10,516.00	9,343.01	10,722.66	9,490.41	30.86	46.70	-119.49	299.70	230.02	69.68	4.301	0							
10,530.00	9,343.00	10,736.64	9,490.32	31.14	46.91	-119.40	300.25	230.12	70.13	4.281	0							
10,560.00	9,342.82	10,766.60	9,490.14	31.73	47.35	-119.25	301.59	230.48	71.10	4.242	0							
10,590.00	9,342.41	10,803.44	9,489.96	32.32	47.89	-119.12	303.11	230.96	72.15	4.201	0							
10,611.00	9,341.99	10,817.52	9,489.83	32.73	48.10	-119.04	304.28	231.56	72.72	4.184	0							
10,620.00	9,341.80	10,826.51	9,489.77	32.91	48.24	-119.03	304.80	231.79	73.01	4.175	0							
10,650.00	9,341.27	10,856.46	9,489.59	33.50	48.69	-118.95	306.37	232.40	73.97	4.142	0							
10,680.00	9,340.94	10,886.42	9,489.41	34.09	49.15	-118.85	307.72	232.77	74.95	4.106	0							
10,706.00	9,340.81	10,912.40	9,489.25	34.61	49.55	-118.75	308.71	232.91	75.80	4.073	0							
10,710.00	9,340.80	10,916.40	9,489.22	34.69	49.61	-118.74	308.85	232.91	75.94	4.067	0							
10,740.00	9,340.87	10,946.38	9,489.04	35.29	50.07	-118.60	309.66	232.70	76.95	4.024	0							
10,770.00	9,341.19	10,976.36	9,488.86	35.89	50.54	-118.45	310.09	232.11	77.98	3.977	0							
10,800.00	9,341.74	11,006.35	9,488.68	36.50	51.01	-118.28	310.15	231.14	79.01	3.925	0							
10,801.00	9,341.76	11,007.35	9,488.67	36.52	51.03	-118.27	310.14	231.09	79.05	3.923	0							
10,830.00	9,342.38	11,036.34	9,488.49	37.11	51.49	-118.12	310.02	229.95	80.07	3.872	0							
10,860.00	9,342.94	11,066.33	9,488.31	37.72	51.97	-117.97	309.93	228.81	81.12	3.821	0							
10,890.00	9,343.44	11,096.32	9,488.13	38.33	52.45	-117.84	309.88	227.72	82.16	3.771	0							
10,896.00	9,343.52	11,102.31	9,488.09	38.45	52.55	-117.81	309.87	227.50	82.37	3.762	0							
10,920.00	9,343.90	11,126.31	9,487.94	38.94	52.94	-117.71	309.77	226.55	83.22	3.722	0							
10,950.00	9,344.44	11,156.30	9,487.76	39.56	53.43	-117.59	309.39	225.12	84.27	3.671	0							
10,980.00	9,345.05	11,186.29	9,487.58	40.17	53.92	-117.47	308.74	223.42	85.32	3.619	0							
10,991.00	9,345.29	11,202.72	9,487.51	40.40	54.19	-117.44	308.43	222.65	85.78	3.596	0							
11,010.00	9,345.70	11,216.27	9,487.39	40.79	54.41	-117.38	307.89	221.52	86.37	3.565	0							
11,040.00	9,346.24	11,246.26	9,487.21	41.41	54.91	-117.32	307.06	219.65	87.41	3.513	0							
11,070.00	9,346.67	11,276.25	9,487.03	42.03	55.41	-117.27	306.29	217.84	88.45	3.463	0							
11,086.00	9,346.85	11,292.24	9,486.93	42.36	55.68	-117.25	305.91	216.91	89.00	3.437	0							
11,100.00	9,347.00	11,306.24	9,486.84	42.65	55.91	-117.23	305.55	216.07	89.48	3.415	0							
11,130.00	9,347.38	11,336.22	9,486.66	43.28	56.42	-117.20	304.62	214.10	90.51	3.365	0							
11,160.00	9,347.82	11,366.20	9,486.48	43.90	56.93	-117.17	303.46	211.91	91.54	3.315	0							
11,181.00	9,348.18	11,387.18	9,486.35	44.34	57.28	-117.16	302.51	210.25	92.26	3.279	0							
11,190.00	9,348.34	11,403.83	9,486.29	44.53	57.57	-117.16	302.09	209.40	92.69	3.259	0							
11,220.00	9,348.88	11,426.14	9,486.11	45.16	57.95	-117.12	300.81	207.19	93.62	3.213	0							
11,250.00	9,349.44	11,456.12	9,485.93	45.78	58.47	-117.07	299.70	205.02	94.68	3.165	0							
11,273.00	9,349.89	11,479.10	9,485.79	46.26	58.86	-117.02	298.97	203.47	95.50	3.130	0							
11,280.00	9,350.04	11,486.10	9,485.74	46.41	58.98	-116.99	298.75	202.99	95.76	3.120	0							
11,310.00	9,351.00	11,516.06	9,485.56	47.04	59.50	-116.82	297.43	200.56	96.87	3.070	0							
11,340.00	9,352.49	11,545.99	9,485.38	47.67	60.03	-116.57	295.53	197.50	98.03	3.015	0							
11,369.00	9,354.42	11,574.87	9,485.20	48.28	60.53	-116.26	293.13	193.94	99.19	2.955	0							
11,370.00	9,354.49	11,575.86	9,485.20	48.30	60.55	-116.25	293.04	193.80	99.23	2.953	0							
11,400.00	9,356.52	11,605.73	9,485.01	48.93	61.07	-116.09	290.52	190.07	100.44	2.892	0							
11,430.00	9,358.13	11,635.64	9,484.83	49.57	61.60	-115.96	288.45	186.82	101.63	2.838	0							
11,460.00	9,359.33	11,665.59	9,484.65	50.20	62.13	-115.85	286.83	184.04	102.79	2.790	0							
11,464.00	9,359.45	11,669.58	9,484.62	50.28	62.20	-115.84	286.65	183.71	102.94	2.785	0							
11,490.00	9,360.19	11,695.56	9,484.46	50.83	62.66	-115.76	285.62	181.70	103.92	2.748	0							
11,520.00	9,360.85	11,725.54	9,484.28	51.45	63.20	-115.67	284.76	179.70	105.06	2.711	0							
11,550.00	9,361.31	11,755.53	9,484.10	52.08	63.73	-115.59	284.24	178.06	106.18	2.677	0							
11,559.00	9,361.40	11,764.53	9,484.04	52.27	63.89	-115.57	284.15	177.63	106.52	2.668	0							
11,580.00	9,361.56	11,785.53	9,483.92	52.71	64.27	-115.52	283.95	176.66	107.29	2.647	0							
11,610.00	9,361.61	11,815.53	9,483.73	53.33	64.81	-115.51	283.60	175.23	108.37	2.617	0							
11,640.00	9,361.45	11,845.52	9,483.55	53.96	65.35	-115.56	283.15	173.74	109.41	2.588	0							
11,654.00	9,361.31	11,859.52	9,483.46	54.25	65.60	-115.60	282.91	173.03	109.88	2.575	0							

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Riskd Separation Factor	Probability of Collision				
11,670.00	9,361.06	11,875.52	9,483.37	54.59	65.89	-115.66	282.69	172.28	110.41	2.560	0					
11,690.98	9,360.52	11,896.49	9,483.24	55.02	66.27	-115.75	282.58	171.51	111.07	2.544	0					
11,700.00	9,360.22	11,905.51	9,483.18	55.21	66.44	-115.80	282.60	171.25	111.35	2.538	0					
11,730.00	9,358.91	11,935.48	9,483.00	55.84	66.98	-115.99	282.95	170.70	112.25	2.521	0					
11,750.00	9,357.77	11,955.46	9,482.88	56.26	67.35	-116.15	283.43	170.61	112.82	2.512	0					
11,760.00	9,357.15	11,965.44	9,482.82	56.46	67.53	-116.24	283.71	170.62	113.10	2.509	0					
11,790.00	9,355.25	12,004.61	9,482.63	57.09	68.25	-116.54	284.60	170.53	114.07	2.495	0					
11,820.00	9,353.32	12,025.34	9,482.45	57.71	68.63	-116.83	285.52	170.78	114.74	2.488	0					
11,845.00	9,351.69	12,050.30	9,482.30	58.23	69.09	-117.09	286.30	170.89	115.41	2.481	0					
11,850.00	9,351.36	12,055.29	9,482.27	58.33	69.18	-117.14	286.46	170.92	115.54	2.479	0					
11,880.00	9,349.58	12,085.25	9,482.08	58.96	69.73	-117.45	287.23	170.86	116.37	2.468	0					
11,910.00	9,348.09	12,115.22	9,481.90	59.58	70.29	-117.72	287.71	170.49	117.22	2.454	0					
11,939.00	9,346.93	12,144.20	9,481.72	60.19	70.83	-117.93	287.89	169.83	118.07	2.438	0					
11,940.00	9,346.90	12,145.20	9,481.72	60.21	70.85	-117.94	287.90	169.80	118.10	2.438	0					
11,970.00	9,345.85	12,175.18	9,481.54	60.84	71.40	-118.15	287.88	168.90	118.98	2.419	0					
12,000.00	9,344.81	12,205.16	9,481.35	61.47	71.96	-118.36	287.74	167.88	119.86	2.401	0					
12,030.00	9,343.79	12,235.14	9,481.17	62.10	72.52	-118.59	287.48	166.75	120.72	2.381	0					
12,034.00	9,343.66	12,239.14	9,481.14	62.19	72.60	-118.62	287.43	166.59	120.84	2.379	0					
12,060.00	9,342.74	12,265.12	9,480.99	62.74	73.08	-118.83	287.13	165.56	121.57	2.362	0					
12,090.00	9,341.59	12,304.92	9,480.80	63.37	73.83	-119.10	286.77	164.22	122.55	2.340	0					
12,120.00	9,340.32	12,325.05	9,480.62	64.01	74.21	-119.40	286.40	163.23	123.17	2.325	0					
12,130.00	9,339.88	12,335.03	9,480.56	64.22	74.39	-119.51	286.27	162.85	123.42	2.319	0					
12,150.00	9,339.06	12,355.01	9,480.44	64.64	74.77	-119.68	286.00	162.06	123.94	2.308	0					
12,180.00	9,338.16	12,384.99	9,480.25	65.28	75.34	-119.89	285.53	160.75	124.78	2.288	0					
12,210.00	9,337.62	12,414.97	9,480.07	65.91	75.90	-120.02	284.96	159.27	125.69	2.267	0					
12,223.00	9,337.51	12,427.97	9,479.99	66.19	76.15	-120.05	284.69	158.58	126.11	2.257	0					
12,240.00	9,337.41	12,444.96	9,479.89	66.55	76.47	-120.09	284.31	157.64	126.67	2.245	0					
12,270.00	9,337.26	12,474.95	9,479.70	67.19	77.04	-120.18	283.57	155.92	127.65	2.222	0					
12,300.00	9,337.12	12,504.93	9,479.52	67.82	77.61	-120.27	282.73	154.12	128.61	2.198	0					
12,317.00	9,337.05	12,521.93	9,479.42	68.18	77.93	-120.32	282.22	153.06	129.16	2.185	0					
12,330.00	9,336.99	12,534.92	9,479.34	68.46	78.18	-120.36	281.83	152.26	129.58	2.175	0					
12,360.00	9,336.76	12,564.90	9,479.15	69.09	78.75	-120.46	281.08	150.55	130.53	2.153	0					
12,390.00	9,336.40	12,594.89	9,478.97	69.73	79.32	-120.57	280.53	149.06	131.47	2.134	0					
12,412.00	9,336.06	12,616.89	9,478.84	70.19	79.75	-120.65	280.25	148.09	132.16	2.121	0					
12,420.00	9,335.92	12,624.89	9,478.79	70.36	79.90	-120.68	280.16	147.76	132.41	2.116	0					
12,450.00	9,335.38	12,654.88	9,478.60	71.00	80.47	-120.82	279.77	146.45	133.32	2.098	0					
12,480.00	9,334.82	12,684.86	9,478.42	71.63	81.05	-120.98	279.28	145.07	134.21	2.081	0					
12,507.00	9,334.29	12,711.85	9,478.26	72.21	81.57	-121.14	278.75	143.76	134.99	2.065	0					
12,510.00	9,334.23	12,714.85	9,478.24	72.27	81.63	-121.15	278.69	143.61	135.08	2.063	0					
12,540.00	9,333.72	12,744.83	9,478.06	72.90	82.20	-121.29	278.13	142.17	135.96	2.046	0					
12,570.00	9,333.36	12,774.83	9,477.87	73.54	82.78	-121.37	277.70	140.80	136.91	2.028	0					
12,600.00	9,333.16	12,804.82	9,477.69	74.17	83.36	-121.40	277.40	139.49	137.91	2.011	0					
12,630.00	9,333.01	12,834.82	9,477.51	74.81	83.94	-121.43	277.14	138.20	138.94	1.995	0					
12,660.00	9,332.83	12,864.82	9,477.32	75.44	84.52	-121.47	276.83	136.88	139.95	1.978	0					
12,690.00	9,332.62	12,894.82	9,477.14	76.07	85.10	-121.53	276.47	135.53	140.95	1.962	0					
12,696.00	9,332.57	12,900.82	9,477.10	76.20	85.22	-121.54	276.39	135.25	141.14	1.958	0					
12,720.00	9,332.45	12,924.81	9,476.96	76.70	85.68	-121.57	276.06	134.11	141.95	1.945	0					
12,750.00	9,332.50	12,954.81	9,476.77	77.34	86.27	-121.57	275.57	132.57	143.00	1.927	0					
12,780.00	9,332.76	12,984.80	9,476.59	77.97	86.85	-121.53	275.00	130.90	144.10	1.908	0					
12,791.00	9,332.92	12,995.80	9,476.52	78.20	87.06	-121.50	274.77	130.25	144.52	1.901	0					
12,810.00	9,333.23	13,014.79	9,476.41	78.60	87.43	-121.44	274.39	129.12	145.26	1.889	0					
12,840.00	9,333.84	13,044.78	9,476.22	79.23	88.02	-121.32	273.84	127.36	146.48	1.869	0					
12,870.00	9,334.57	13,074.77	9,476.04	79.86	88.61	-121.15	273.37	125.62	147.75	1.850	0					
12,886.00	9,335.02	13,109.24	9,475.94	80.20	89.28	-121.05	273.15	124.38	148.77	1.836	0					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Risked Separation Factor	Probability of Collision				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)							
12,900.00	9,335.41	13,104.75	9,475.86	80.49	89.19	-120.96	272.98	123.92	149.07	1.831	0					
12,930.00	9,336.13	13,134.74	9,475.67	81.12	89.78	-120.77	272.74	122.37	150.37	1.814	0					
12,960.00	9,336.68	13,164.73	9,475.49	81.74	90.37	-120.61	272.64	120.99	151.65	1.798	0					
12,964.52	9,336.74	13,169.24	9,475.46	81.84	90.45	-120.59	272.64	120.80	151.84	1.796	0					
12,981.00	9,336.96	13,185.72	9,475.36	82.18	90.78	-120.51	272.66	120.13	152.53	1.788	0					
12,990.00	9,337.05	13,194.72	9,475.31	82.37	90.95	-120.47	272.70	119.80	152.90	1.784	0					
13,020.00	9,337.10	13,224.71	9,475.12	82.99	91.54	-120.37	273.00	118.91	154.09	1.772	0					
13,050.00	9,336.77	13,254.71	9,474.94	83.62	92.13	-120.32	273.56	118.36	155.20	1.763	0					
13,076.00	9,336.17	13,280.70	9,474.78	84.16	92.64	-120.33	274.26	118.16	156.10	1.757	0					
13,080.00	9,336.06	13,284.70	9,474.76	84.24	92.72	-120.33	274.39	118.15	156.24	1.756	0					
13,110.00	9,335.04	13,314.68	9,474.57	84.87	93.31	-120.40	275.38	118.18	157.20	1.752	0					
13,140.00	9,333.75	13,344.65	9,474.39	85.49	93.90	-120.52	276.47	118.37	158.09	1.749	0					
13,170.00	9,332.20	13,374.61	9,474.21	86.11	94.49	-120.69	277.66	118.74	158.91	1.747	0					
13,171.00	9,332.14	13,375.61	9,474.20	86.13	94.51	-120.70	277.70	118.76	158.94	1.747	0					
13,200.00	9,330.48	13,404.57	9,474.03	86.74	95.09	-120.91	278.86	119.18	159.68	1.746	0					
13,230.00	9,328.74	13,434.53	9,473.84	87.36	95.68	-121.16	279.98	119.55	160.43	1.745	0					
13,260.00	9,326.97	13,464.48	9,473.66	87.99	96.27	-121.42	281.01	119.87	161.14	1.744	0					
13,266.00	9,326.61	13,470.48	9,473.62	88.11	96.39	-121.47	281.21	119.93	161.28	1.744	0					
13,290.00	9,325.19	13,494.44	9,473.48	88.61	96.86	-121.66	282.04	120.20	161.85	1.743	0					
13,320.00	9,323.43	13,524.40	9,473.29	89.24	97.46	-121.88	283.22	120.64	162.58	1.742	0					
13,350.00	9,321.69	13,554.35	9,473.11	89.86	98.05	-122.07	284.55	121.20	163.35	1.742	0					
13,361.00	9,321.06	13,565.33	9,473.04	90.09	98.27	-122.13	285.07	121.44	163.63	1.742	0					
13,380.00	9,320.03	13,584.31	9,472.93	90.49	98.65	-122.26	285.93	121.79	164.14	1.742	0					
13,410.00	9,318.63	13,614.28	9,472.74	91.11	99.24	-122.44	287.02	122.05	164.98	1.740	0					
13,440.00	9,317.50	13,644.26	9,472.56	91.74	99.84	-122.58	287.79	121.94	165.85	1.735	0					
13,455.00	9,317.04	13,659.25	9,472.47	92.05	100.14	-122.65	288.05	121.75	166.29	1.732	0					
13,470.00	9,316.60	13,674.25	9,472.38	92.37	100.43	-122.70	288.27	121.53	166.74	1.729	0					
13,500.00	9,315.61	13,704.24	9,472.19	93.00	101.03	-122.82	288.77	121.16	167.60	1.723	0					
13,530.00	9,314.47	13,734.22	9,472.01	93.63	101.63	-122.98	289.31	120.89	168.42	1.718	0					
13,550.00	9,313.64	13,754.21	9,471.89	94.05	102.03	-123.09	289.71	120.76	168.95	1.715	0					
13,560.00	9,313.20	13,764.20	9,471.83	94.26	102.23	-123.16	289.91	120.71	169.20	1.713	0					
13,590.00	9,311.94	13,805.82	9,471.65	94.89	103.06	-123.35	290.45	120.28	170.17	1.707	0					
13,620.00	9,310.72	13,824.17	9,471.46	95.52	103.42	-123.54	290.90	120.17	170.72	1.704	0					
13,645.00	9,309.74	13,849.15	9,471.31	96.05	103.92	-123.70	291.21	119.85	171.35	1.699	0					
13,650.00	9,309.55	13,854.15	9,471.28	96.15	104.02	-123.73	291.26	119.78	171.48	1.699	0					
13,680.00	9,308.52	13,884.14	9,471.10	96.78	104.62	-123.89	291.59	119.31	172.27	1.693	0					
13,710.00	9,307.67	13,914.13	9,470.91	97.42	105.22	-124.00	291.89	118.75	173.13	1.686	0					
13,740.00	9,307.00	13,944.13	9,470.73	98.05	105.82	-124.08	292.16	118.11	174.06	1.679	0					
13,770.00	9,306.40	13,974.12	9,470.55	98.68	106.42	-124.14	292.42	117.43	175.00	1.671	0					
13,800.00	9,305.73	14,004.12	9,470.36	99.31	107.02	-124.23	292.68	116.77	175.91	1.664	0					
13,830.00	9,305.00	14,034.11	9,470.18	99.94	107.63	-124.33	292.92	116.13	176.79	1.657	0					
13,835.00	9,304.87	14,039.11	9,470.15	100.05	107.73	-124.34	292.96	116.02	176.94	1.656	0					
13,860.00	9,304.27	14,064.11	9,470.00	100.57	108.23	-124.42	293.18	115.51	177.68	1.650	0					
13,890.00	9,303.63	14,105.90	9,469.81	101.20	109.07	-124.48	293.52	114.70	178.82	1.641	0					
13,920.00	9,303.10	14,124.10	9,469.63	101.83	109.43	-124.50	293.93	114.31	179.62	1.636	0					
13,930.00	9,302.95	14,134.10	9,469.57	102.04	109.63	-124.50	294.08	114.12	179.96	1.634	0					
13,950.00	9,302.68	14,154.10	9,469.45	102.46	110.04	-124.50	294.36	113.70	180.67	1.629	0					
13,980.00	9,302.38	14,184.10	9,469.26	103.09	110.64	-124.49	294.68	112.94	181.74	1.621	0					
14,010.00	9,302.19	14,214.10	9,469.08	103.72	111.24	-124.47	294.87	112.04	182.82	1.613	0					
14,025.00	9,302.14	14,229.10	9,468.99	104.03	111.55	-124.46	294.91	111.53	183.38	1.608	0					
14,040.00	9,302.13	14,244.10	9,468.90	104.35	111.85	-124.44	294.91	110.97	183.94	1.603	0					
14,070.00	9,302.30	14,274.09	9,468.71	104.98	112.45	-124.38	294.71	109.62	185.09	1.592	0					
14,100.00	9,302.71	14,304.09	9,468.53	105.61	113.06	-124.29	294.26	107.98	186.28	1.580	0					
14,120.00	9,303.12	14,324.08	9,468.41	106.03	113.46	-124.22	293.83	106.72	187.10	1.570	0					

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision		
14,130.00	9,303.34	14,334.07	9,468.35	106.25	113.66	-124.18	293.58	106.07	187.52	1.566	0			
14,160.00	9,303.89	14,364.06	9,468.16	106.88	114.27	-124.10	292.94	104.21	188.73	1.552	0			
14,190.00	9,304.26	14,405.94	9,467.98	107.51	115.11	-124.05	292.39	102.29	190.10	1.538	0			
14,215.00	9,304.44	14,419.05	9,467.83	108.04	115.38	-124.02	292.02	101.19	190.83	1.530	0			
14,220.00	9,304.47	14,424.05	9,467.80	108.15	115.48	-124.02	291.95	100.94	191.01	1.528	0			
14,250.00	9,304.69	14,454.05	9,467.61	108.78	116.09	-123.98	291.50	99.36	192.14	1.517	0			
14,280.00	9,305.01	14,484.04	9,467.43	109.42	116.69	-123.93	290.96	97.68	193.29	1.505	0			
14,310.00	9,305.44	14,514.04	9,467.25	110.05	117.30	-123.86	290.35	95.89	194.46	1.493	0		Level 3	
14,340.00	9,305.69	14,544.03	9,467.06	110.69	117.91	-123.84	289.83	94.24	195.59	1.482	0		Level 3	
14,370.00	9,305.50	14,574.03	9,466.88	111.32	118.52	-123.88	289.59	93.00	196.59	1.473	0		Level 3	
14,382.44	9,305.28	14,586.47	9,466.81	111.59	118.77	-123.91	289.56	92.60	196.96	1.470	0		Level 3	
14,400.00	9,304.84	14,604.02	9,466.70	111.96	119.12	-123.98	289.61	92.17	197.44	1.467	0		Level 3	
14,405.00	9,304.69	14,609.02	9,466.67	112.06	119.22	-124.01	289.64	92.07	197.57	1.466	0		Level 3	
14,430.00	9,303.84	14,634.01	9,466.52	112.59	119.73	-124.15	289.84	91.65	198.19	1.462	0		Level 3	
14,460.00	9,302.68	14,663.99	9,466.33	113.23	120.34	-124.34	290.15	91.27	198.88	1.459	0		Level 3	
14,490.00	9,301.36	14,693.97	9,466.15	113.86	120.95	-124.55	290.54	91.02	199.52	1.456	0		Level 3	
14,500.00	9,300.89	14,703.96	9,466.09	114.07	121.15	-124.63	290.69	90.98	199.72	1.456	0		Level 3	
14,520.00	9,299.94	14,723.94	9,465.97	114.49	121.56	-124.78	291.01	90.89	200.12	1.454	0		Level 3	
14,550.00	9,298.59	14,753.92	9,465.78	115.13	122.16	-124.98	291.53	90.77	200.76	1.452	0		Level 3	
14,580.00	9,297.33	14,783.90	9,465.60	115.76	122.77	-125.16	292.10	90.65	201.45	1.450	0		Level 3	
14,595.00	9,296.74	14,801.11	9,465.51	116.07	123.12	-125.24	292.40	90.55	201.85	1.449	0		Level 3	
14,610.00	9,296.15	14,813.88	9,465.42	116.39	123.38	-125.30	292.74	90.55	202.19	1.448	0		Level 3	
14,640.00	9,294.97	14,843.86	9,465.23	117.01	123.99	-125.40	293.64	90.64	203.00	1.447	0		Level 3	
14,670.00	9,293.77	14,873.84	9,465.05	117.64	124.60	-125.47	294.82	90.94	203.88	1.446	0		Level 3	
14,691.00	9,292.93	14,894.81	9,464.92	118.08	125.03	-125.49	295.82	91.28	204.54	1.446	0		Level 3	
14,700.00	9,292.58	14,903.80	9,464.87	118.26	125.21	-125.50	296.27	91.44	204.83	1.446	0		Level 3	
14,730.00	9,291.50	14,933.77	9,464.68	118.88	125.82	-125.53	297.71	91.87	205.84	1.446	0		Level 3	
14,760.00	9,290.57	14,963.74	9,464.50	119.50	126.43	-125.53	299.06	92.17	206.89	1.445	0		Level 3	
14,786.00	9,289.89	14,989.71	9,464.34	120.04	126.96	-125.51	300.15	92.30	207.84	1.444	0		Level 3	
14,790.00	9,289.79	15,006.29	9,464.32	120.12	127.30	-125.51	300.31	92.10	208.21	1.442	0		Level 3	
14,820.00	9,289.00	15,023.68	9,464.13	120.74	127.65	-125.47	301.56	92.47	209.08	1.442	0		Level 3	
14,850.00	9,288.08	15,053.66	9,463.95	121.36	128.27	-125.46	302.86	92.73	210.13	1.441	0		Level 3	
14,880.00	9,287.04	15,083.63	9,463.77	121.98	128.88	-125.47	304.21	93.08	211.13	1.441	0		Level 3	
14,910.00	9,286.09	15,113.60	9,463.59	122.61	129.49	-125.50	305.43	93.29	212.14	1.440	0		Level 3	
14,940.00	9,285.41	15,143.59	9,463.40	123.23	130.10	-125.51	306.34	93.14	213.20	1.437	0		Level 3	
14,970.00	9,285.02	15,173.58	9,463.22	123.86	130.71	-125.49	306.94	92.63	214.30	1.432	0		Level 3	
14,975.00	9,284.98	15,178.58	9,463.19	123.96	130.81	-125.48	307.01	92.51	214.49	1.431	0		Level 3	
15,000.00	9,284.93	15,203.58	9,463.04	124.49	131.32	-125.43	307.20	91.73	215.47	1.426	0		Level 3	
15,030.00	9,285.19	15,233.57	9,462.85	125.12	131.94	-125.34	307.10	90.39	216.71	1.417	0		Level 3	
15,060.00	9,285.80	15,263.56	9,462.67	125.75	132.55	-125.21	306.62	88.61	218.01	1.406	0		Level 3	
15,070.00	9,286.08	15,273.56	9,462.61	125.96	132.75	-125.16	306.38	87.92	218.46	1.402	0		Level 3	
15,090.00	9,286.66	15,306.46	9,462.49	126.38	133.43	-125.07	305.86	86.27	219.59	1.393	0		Level 3	
15,120.00	9,287.50	15,323.53	9,462.30	127.02	133.78	-124.94	305.07	84.36	220.70	1.382	0		Level 3	
15,150.00	9,288.30	15,353.51	9,462.12	127.65	134.39	-124.82	304.26	82.24	222.02	1.370	0		Level 3	
15,165.00	9,288.68	15,368.50	9,462.03	127.97	134.70	-124.77	303.85	81.19	222.66	1.365	0		Level 3	
15,180.00	9,288.99	15,383.49	9,461.94	128.29	135.00	-124.73	303.48	80.19	223.29	1.359	0		Level 3	
15,210.00	9,289.20	15,413.49	9,461.75	128.92	135.62	-124.72	302.98	78.58	224.40	1.350	0		Level 3	
15,240.00	9,288.87	15,443.49	9,461.57	129.56	136.23	-124.78	302.79	77.46	225.33	1.344	0		Level 3	
15,242.81	9,288.81	15,446.29	9,461.55	129.62	136.29	-124.79	302.79	77.38	225.41	1.343	0		Level 3	
15,260.00	9,288.35	15,463.48	9,461.45	129.98	136.64	-124.87	302.84	76.99	225.85	1.341	0		Level 3	
15,270.00	9,288.03	15,473.48	9,461.39	130.19	136.85	-124.92	302.90	76.81	226.09	1.340	0		Level 3	
15,300.00	9,286.95	15,503.46	9,461.20	130.83	137.46	-125.10	303.11	76.36	226.75	1.337	0		Level 3	
15,330.00	9,285.73	15,533.44	9,461.02	131.46	138.07	-125.32	303.34	76.02	227.33	1.334	0		Level 3	
15,355.00	9,284.59	15,558.42	9,460.87	131.99	138.59	-125.52	303.56	75.81	227.76	1.333	0		Level 3	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision				
15,360.00	9,284.36	15,563.41	9,460.84	132.10	138.69	-125.56	303.61	75.77	227.84	1.333	0		Level 3			
15,390.00	9,283.01	15,606.62	9,460.65	132.74	139.57	-125.78	303.90	75.31	228.58	1.329	0		Level 3			
15,420.00	9,281.78	15,623.36	9,460.47	133.37	139.92	-125.98	304.19	75.26	228.93	1.329	0		Level 3			
15,450.00	9,280.66	15,653.35	9,460.29	134.01	140.53	-126.15	304.50	74.93	229.57	1.326	0		Level 3			
15,480.00	9,279.52	15,683.33	9,460.11	134.64	141.15	-126.32	304.88	74.67	230.21	1.324	0		Level 3			
15,510.00	9,278.20	15,713.31	9,459.92	135.28	141.76	-126.50	305.41	74.62	230.79	1.323	0		Level 3			
15,540.00	9,276.71	15,743.28	9,459.74	135.91	142.38	-126.70	306.09	74.76	231.32	1.323	0		Level 3			
15,546.00	9,276.39	15,749.27	9,459.70	136.04	142.50	-126.74	306.24	74.82	231.42	1.323	0		Level 3			
15,570.00	9,275.22	15,773.25	9,459.56	136.54	142.99	-126.91	306.82	74.95	231.87	1.323	0		Level 3			
15,600.00	9,274.07	15,803.24	9,459.37	137.17	143.61	-127.06	307.40	74.85	232.55	1.322	0		Level 3			
15,630.00	9,273.29	15,833.23	9,459.19	137.81	144.23	-127.15	307.82	74.44	233.39	1.319	0		Level 3			
15,640.00	9,273.11	15,843.23	9,459.13	138.02	144.43	-127.16	307.93	74.23	233.70	1.318	0		Level 3			
15,660.00	9,272.82	15,863.23	9,459.01	138.44	144.84	-127.18	308.09	73.75	234.34	1.315	0		Level 3			
15,690.00	9,272.47	15,906.77	9,458.82	139.07	145.74	-127.20	308.22	72.66	235.56	1.308	0		Level 3			
15,720.00	9,272.25	15,923.23	9,458.64	139.70	146.08	-127.21	308.21	71.87	236.33	1.304	0		Level 3			
15,735.00	9,272.18	15,938.23	9,458.55	140.02	146.39	-127.22	308.15	71.30	236.84	1.301	0		Level 3			
15,750.00	9,272.14	15,953.23	9,458.46	140.34	146.69	-127.22	308.05	70.69	237.36	1.298	0		Level 3			
15,780.00	9,272.14	15,983.23	9,458.27	140.97	147.31	-127.22	307.76	69.36	238.40	1.291	0		Level 3			
15,810.00	9,272.25	16,013.22	9,458.09	141.61	147.93	-127.21	307.32	67.87	239.44	1.283	0		Level 3			
15,829.00	9,272.36	16,032.22	9,457.97	142.01	148.32	-127.20	306.97	66.85	240.11	1.278	0		Level 3			
15,840.00	9,272.44	16,043.22	9,457.91	142.24	148.55	-127.20	306.75	66.25	240.50	1.275	0		Level 3			
15,870.00	9,272.65	16,073.21	9,457.72	142.88	149.16	-127.17	306.29	64.69	241.60	1.268	0		Level 3			
15,900.00	9,272.83	16,103.21	9,457.54	143.51	149.78	-127.13	305.98	63.23	242.75	1.260	0		Level 3			
15,924.00	9,272.97	16,127.21	9,457.39	144.02	150.28	-127.09	305.84	62.14	243.69	1.255	0		Level 3			
15,930.00	9,273.00	16,133.21	9,457.36	144.15	150.40	-127.07	305.82	61.88	243.94	1.254	0		Level 3			
15,960.00	9,273.12	16,163.21	9,457.17	144.78	151.02	-127.01	305.75	60.62	245.13	1.247	0		Level 2			
15,988.43	9,273.18	16,208.37	9,457.00	145.37	151.95	-126.96	305.72	59.20	246.53	1.240	0		Level 2			
15,990.00	9,273.18	16,206.80	9,456.99	145.41	151.91	-126.96	305.72	59.19	246.53	1.240	0		Level 2			
16,019.00	9,273.18	16,222.20	9,456.81	146.02	152.23	-126.91	305.75	58.33	247.42	1.236	0		Level 2			
16,020.00	9,273.18	16,223.20	9,456.81	146.04	152.25	-126.91	305.75	58.30	247.46	1.236	0		Level 2			
16,050.00	9,273.03	16,253.20	9,456.62	146.67	152.87	-126.88	305.91	57.34	248.57	1.231	0		Level 2			
16,080.00	9,272.68	16,283.20	9,456.44	147.30	153.49	-126.86	306.27	56.63	249.64	1.227	0		Level 2			
16,110.00	9,272.12	16,313.20	9,456.26	147.93	154.11	-126.87	306.83	56.18	250.65	1.224	0		Level 2			
16,115.00	9,272.00	16,318.19	9,456.23	148.03	154.21	-126.87	306.95	56.14	250.81	1.224	0		Level 2			
16,140.00	9,271.43	16,343.19	9,456.07	148.56	154.73	-126.89	307.48	55.86	251.61	1.222	0		Level 2			
16,170.00	9,270.80	16,373.18	9,455.89	149.19	155.35	-126.93	307.99	55.43	252.56	1.219	0		Level 2			
16,200.00	9,270.20	16,403.18	9,455.71	149.82	155.96	-126.98	308.37	54.89	253.48	1.217	0		Level 2			
16,210.00	9,270.01	16,413.18	9,455.65	150.03	156.17	-127.00	308.46	54.68	253.78	1.215	0		Level 2			
16,230.00	9,269.68	16,433.18	9,455.52	150.45	156.58	-127.04	308.56	54.18	254.38	1.213	0		Level 2			
16,260.00	9,269.33	16,463.18	9,455.34	151.09	157.20	-127.10	308.44	53.17	255.27	1.208	0		Level 2			
16,290.00	9,269.14	16,506.83	9,455.16	151.73	158.10	-127.17	307.98	51.62	256.37	1.201	0		Level 2			
16,305.00	9,269.11	16,508.16	9,455.07	152.04	158.13	-127.21	307.63	51.07	256.56	1.199	0		Level 2			
16,320.00	9,269.09	16,523.16	9,454.97	152.36	158.44	-127.24	307.26	50.28	256.98	1.196	0		Level 2			
16,350.00	9,269.00	16,553.15	9,454.79	153.00	159.06	-127.31	306.63	48.80	257.84	1.189	0		Level 2			
16,380.00	9,268.83	16,583.14	9,454.61	153.64	159.68	-127.37	306.17	47.47	258.70	1.183	0		Level 2			
16,400.00	9,268.67	16,603.14	9,454.49	154.07	160.09	-127.41	305.94	46.66	259.28	1.180	0		Level 2			
16,410.00	9,268.59	16,613.14	9,454.43	154.28	160.30	-127.43	305.85	46.27	259.57	1.178	0		Level 2			
16,440.00	9,268.35	16,643.14	9,454.24	154.92	160.92	-127.49	305.52	45.07	260.45	1.173	0		Level 2			
16,470.00	9,268.16	16,673.13	9,454.06	155.56	161.54	-127.55	305.13	43.81	261.32	1.168	0		Level 2			
16,495.00	9,268.02	16,698.13	9,453.91	156.09	162.06	-127.59	304.77	42.72	262.05	1.163	0		Level 2			
16,500.00	9,268.00	16,703.13	9,453.88	156.19	162.16	-127.60	304.69	42.50	262.19	1.162	0		Level 2			
16,530.00	9,267.87	16,733.13	9,453.69	156.83	162.78	-127.64	304.30	41.20	263.10	1.157	0		Level 2			
16,560.00	9,267.75	16,763.12	9,453.51	157.47	163.40	-127.67	304.02	39.95	264.07	1.151	0		Level 2			
16,590.00	9,267.65	16,806.88	9,453.33	158.10	164.31	-127.67	303.85	38.53	265.32	1.145	0		Level 2			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1		Offset Site Error: 0.00 ft	
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 ft			
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision				
16,601.76	9,267.61	16,804.89	9,453.25	158.35	164.26	-127.66	303.82	38.33	265.50	1.144	0		Level 2			
16,620.00	9,267.50	16,823.12	9,453.14	158.73	164.64	-127.65	303.88	37.73	266.15	1.142	0		Level 2			
16,650.00	9,267.23	16,853.12	9,452.96	159.36	165.26	-127.62	304.22	36.96	267.26	1.138	0		Level 2			
16,680.00	9,266.84	16,883.11	9,452.78	159.99	165.88	-127.57	304.86	36.45	268.42	1.136	0		Level 2			
16,685.00	9,266.76	16,888.11	9,452.75	160.09	165.99	-127.56	305.00	36.39	268.61	1.135	0		Level 2			
16,710.00	9,266.36	16,913.10	9,452.59	160.62	166.50	-127.53	305.67	36.09	269.58	1.134	0		Level 2			
16,740.00	9,265.86	16,943.09	9,452.41	161.24	167.13	-127.50	306.38	35.70	270.69	1.132	0		Level 2			
16,770.00	9,265.34	16,973.09	9,452.23	161.87	167.75	-127.49	307.00	35.26	271.74	1.130	0		Level 2			
16,779.00	9,265.17	16,982.08	9,452.17	162.06	167.93	-127.49	307.16	35.12	272.04	1.129	0		Level 2			
16,800.00	9,264.78	17,003.08	9,452.04	162.50	168.37	-127.50	307.52	34.79	272.73	1.128	0		Level 2			
16,830.00	9,264.18	17,033.08	9,451.86	163.13	168.99	-127.53	308.00	34.32	273.68	1.125	0		Level 2			
16,860.00	9,263.53	17,063.07	9,451.68	163.76	169.61	-127.58	308.44	33.86	274.57	1.123	0		Level 2			
16,874.00	9,263.22	17,077.07	9,451.59	164.05	169.90	-127.61	308.62	33.65	274.97	1.122	0		Level 2			
16,890.00	9,262.86	17,106.93	9,451.49	164.39	170.52	-127.65	308.80	33.14	275.66	1.120	0		Level 2			
16,920.00	9,262.25	17,123.06	9,451.31	165.03	170.85	-127.74	308.93	32.72	276.22	1.118	0		Level 2			
16,950.00	9,261.72	17,153.06	9,451.13	165.66	171.47	-127.85	308.82	31.86	276.96	1.115	0		Level 2			
16,969.00	9,261.43	17,172.05	9,451.01	166.07	171.87	-127.92	308.62	31.22	277.40	1.113	0		Level 2			
16,980.00	9,261.27	17,183.05	9,450.94	166.30	172.10	-127.96	308.49	30.83	277.66	1.111	0		Level 2			
17,010.00	9,260.89	17,213.05	9,450.76	166.94	172.72	-128.04	308.21	29.78	278.43	1.107	0		Level 2			
17,040.00	9,260.60	17,243.05	9,450.58	167.57	173.34	-128.08	308.06	28.75	279.31	1.103	0		Level 2			
17,063.00	9,260.42	17,266.05	9,450.44	168.06	173.82	-128.09	308.03	27.97	280.06	1.100	0		Level 2			
17,070.00	9,260.37	17,273.05	9,450.39	168.21	173.96	-128.09	308.03	27.73	280.30	1.099	0		Level 2			
17,072.52	9,260.35	17,275.56	9,450.38	168.26	174.01	-128.09	308.02	27.64	280.38	1.099	0		Level 2			
17,100.00	9,260.17	17,303.05	9,450.21	168.84	174.58	-128.10	307.98	26.69	281.29	1.095	0		Level 2			
17,130.00	9,259.97	17,333.04	9,450.03	169.48	175.21	-128.13	307.87	25.60	282.26	1.091	0		Level 2			
17,159.00	9,259.79	17,362.04	9,449.85	170.09	175.81	-128.15	307.69	24.52	283.17	1.087	0		Level 2			
17,160.00	9,259.78	17,363.04	9,449.84	170.11	175.83	-128.16	307.68	24.48	283.20	1.086	0		Level 2			
17,190.00	9,259.58	17,393.04	9,449.66	170.75	176.45	-128.20	307.42	23.32	284.10	1.082	0		Level 2			
17,220.00	9,259.36	17,423.04	9,449.48	171.39	177.07	-128.26	307.09	22.13	284.95	1.078	0		Level 2			
17,250.00	9,259.11	17,453.03	9,449.29	172.03	177.70	-128.34	306.67	20.93	285.74	1.073	0		Level 2			
17,254.00	9,259.08	17,457.03	9,449.27	172.11	177.78	-128.36	306.61	20.77	285.84	1.073	0		Level 2			
17,280.00	9,258.87	17,483.03	9,449.11	172.66	178.32	-128.41	306.27	19.73	286.54	1.069	0		Level 2			
17,310.00	9,258.67	17,513.03	9,448.93	173.30	178.94	-128.45	306.02	18.58	287.44	1.065	0		Level 2			
17,340.00	9,258.53	17,543.02	9,448.74	173.93	179.56	-128.45	305.91	17.47	288.44	1.061	0		Level 2			
17,345.83	9,258.50	17,548.85	9,448.71	174.06	179.68	-128.45	305.91	17.26	288.65	1.060	0		Level 2			
17,350.00	9,258.49	17,553.02	9,448.68	174.15	179.77	-128.44	305.91	17.11	288.80	1.059	0		Level 2			
17,370.00	9,258.56	17,573.02	9,448.56	174.57	180.19	-128.41	305.83	16.23	289.60	1.056	0		Level 2			
17,400.00	9,259.20	17,603.01	9,448.38	175.20	180.81	-128.26	305.36	14.34	291.03	1.049	0		Level 2			
17,430.00	9,260.47	17,632.98	9,448.20	175.83	181.43	-128.02	304.48	11.73	292.75	1.040	0		Level 2			
17,444.00	9,261.29	17,646.95	9,448.11	176.13	181.72	-127.86	303.93	10.28	293.65	1.035	0		Level 2			
17,460.00	9,262.29	17,662.91	9,448.01	176.46	182.05	-127.70	303.26	8.54	294.73	1.029	0		Level 2			
17,490.00	9,264.13	17,707.16	9,447.83	177.09	182.97	-127.40	302.10	5.10	297.00	1.017	0		Level 2			
17,520.00	9,265.94	17,722.77	9,447.65	177.72	183.30	-127.09	301.05	2.23	298.81	1.007	0		Level 2			
17,539.00	9,267.06	17,741.73	9,447.53	178.12	183.69	-126.88	300.44	0.31	300.13	1.001	0		Level 2			
17,550.00	9,267.68	17,752.71	9,447.46	178.35	183.92	-126.77	300.11	-0.77	300.87	0.997	0		Level 1			
17,580.00	9,269.07	17,782.67	9,447.28	178.99	184.54	-126.52	299.32	-3.43	302.75	0.989	0		Level 1			
17,610.00	9,270.06	17,812.65	9,447.10	179.62	185.16	-126.34	298.69	-5.70	304.39	0.981	0		Level 1			
17,634.00	9,270.54	17,836.64	9,446.95	180.12	185.66	-126.25	298.30	-7.22	305.53	0.976	0		Level 1			
17,640.00	9,270.62	17,842.64	9,446.91	180.25	185.79	-126.23	298.22	-7.56	305.79	0.975	0		Level 1			
17,661.52	9,270.81	17,864.15	9,446.78	180.70	186.23	-126.18	298.11	-8.62	306.72	0.972	0		Level 1			
17,670.00	9,270.83	17,872.63	9,446.73	180.88	186.41	-126.16	298.12	-8.96	307.09	0.971	0		Level 1			
17,700.00	9,270.72	17,902.63	9,446.55	181.50	187.03	-126.09	298.49	-9.86	308.35	0.968	0		Level 1			
17,729.00	9,270.29	17,931.62	9,446.37	182.11	187.64	-126.02	299.28	-10.24	309.52	0.967	0		Level 1			
17,730.00	9,270.27	17,932.61	9,446.37	182.13	187.66	-126.02	299.32	-10.25	309.56	0.967	0		Level 1			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance				Risked Separation Factor	Probability of Collision	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
17,760.00	9,269.76	17,962.60	9,446.18	182.76	188.28	-125.97	300.30	-10.49	310.79	0.966	0		Level 1	
17,790.00	9,269.39	17,992.58	9,446.00	183.38	188.91	-125.90	301.17	-10.91	312.09	0.965	0		Level 1	
17,820.00	9,269.18	18,022.57	9,445.82	184.00	189.53	-125.81	301.92	-11.52	313.44	0.963	0		Level 1	
17,824.00	9,269.16	18,026.57	9,445.79	184.09	189.61	-125.80	302.01	-11.61	313.62	0.963	0		Level 1	
17,850.00	9,269.01	18,052.56	9,445.63	184.63	190.15	-125.71	302.59	-12.19	314.79	0.961	0		Level 1	
17,880.00	9,268.68	18,082.55	9,445.45	185.26	190.78	-125.65	303.24	-12.77	316.01	0.960	0		Level 1	
17,910.00	9,268.21	18,112.54	9,445.27	185.88	191.40	-125.63	303.86	-13.26	317.12	0.958	0		Level 1	
17,919.00	9,268.04	18,121.54	9,445.21	186.07	191.59	-125.63	304.04	-13.38	317.43	0.958	0		Level 1	
17,940.00	9,267.62	18,142.53	9,445.08	186.51	192.03	-125.64	304.47	-13.66	318.13	0.957	0		Level 1	
17,970.00	9,267.00	18,172.53	9,444.90	187.14	192.65	-125.65	305.12	-14.02	319.15	0.956	0		Level 1	
18,000.00	9,266.37	18,202.52	9,444.72	187.77	193.27	-125.66	305.81	-14.35	320.16	0.955	0		Level 1	
18,015.00	9,266.05	18,217.52	9,444.62	188.08	193.59	-125.66	306.17	-14.50	320.68	0.955	0		Level 1	
18,030.00	9,265.72	18,232.51	9,444.53	188.39	193.90	-125.67	306.54	-14.64	321.18	0.954	0		Level 1	
18,060.00	9,264.99	18,262.50	9,444.35	189.02	194.52	-125.69	307.28	-14.87	322.15	0.954	0		Level 1	
18,090.00	9,264.17	18,292.49	9,444.17	189.65	195.15	-125.74	308.03	-15.02	323.06	0.954	0		Level 1	
18,110.00	9,263.57	18,312.48	9,444.04	190.07	195.56	-125.77	308.55	-15.08	323.63	0.953	0		Level 1	
18,120.00	9,263.26	18,322.48	9,443.98	190.28	195.77	-125.80	308.80	-15.10	323.90	0.953	0		Level 1	
18,150.00	9,262.24	18,352.47	9,443.80	190.91	196.40	-125.88	309.57	-15.09	324.66	0.954	0		Level 1	
18,180.00	9,261.10	18,382.45	9,443.62	191.54	197.02	-126.00	310.33	-14.99	325.32	0.954	0		Level 1	
18,205.00	9,260.05	18,407.43	9,443.46	192.06	197.54	-126.12	310.97	-14.84	325.80	0.954	0		Level 1	
18,210.00	9,259.84	18,412.43	9,443.43	192.17	197.64	-126.15	311.08	-14.81	325.89	0.955	0		Level 1	
18,240.00	9,258.76	18,442.41	9,443.25	192.81	198.27	-126.33	311.48	-14.96	326.44	0.954	0		Level 1	
18,270.00	9,258.00	18,472.40	9,443.07	193.45	198.89	-126.50	311.33	-15.66	326.98	0.952	0		Level 1	
18,298.00	9,257.60	18,500.39	9,442.90	194.04	199.48	-126.65	310.70	-16.80	327.49	0.949	0		Level 1	
18,300.00	9,257.58	18,502.38	9,442.88	194.09	199.52	-126.66	310.64	-16.89	327.53	0.948	0		Level 1	
18,330.00	9,257.30	18,532.36	9,442.70	194.73	200.14	-126.79	309.82	-18.30	328.12	0.944	0		Level 1	
18,360.00	9,256.99	18,562.35	9,442.52	195.37	200.77	-126.89	309.20	-19.58	328.78	0.940	0		Level 1	
18,390.00	9,256.68	18,607.66	9,442.34	196.01	201.71	-126.97	308.79	-21.00	329.79	0.936	0		Level 1	
18,393.00	9,256.65	18,595.34	9,442.32	196.07	201.45	-126.98	308.76	-20.85	329.60	0.937	0		Level 1	
18,420.00	9,256.31	18,622.34	9,442.15	196.65	202.02	-127.06	308.50	-21.78	330.28	0.934	0		Level 1	
18,450.00	9,255.81	18,652.33	9,441.97	197.29	202.64	-127.18	308.22	-22.72	330.94	0.931	0		Level 1	
18,480.00	9,255.20	18,682.32	9,441.79	197.93	203.27	-127.32	307.96	-23.55	331.51	0.929	0		Level 1	
18,488.00	9,255.02	18,709.68	9,441.74	198.10	203.84	-127.36	307.89	-24.08	331.97	0.927	0		Level 1	
18,510.00	9,254.56	18,712.31	9,441.60	198.57	203.89	-127.46	307.68	-24.35	332.03	0.927	0		Level 1	
18,540.00	9,254.10	18,742.30	9,441.42	199.21	204.52	-127.58	307.29	-25.36	332.64	0.924	0		Level 1	
18,570.00	9,253.85	18,772.29	9,441.24	199.85	205.14	-127.67	306.78	-26.58	333.36	0.920	0		Level 1	
18,583.00	9,253.79	18,785.29	9,441.16	200.13	205.41	-127.69	306.52	-27.18	333.70	0.919	0		Level 1	
18,600.00	9,253.73	18,802.28	9,441.05	200.49	205.77	-127.74	306.17	-27.98	334.15	0.916	0		Level 1	
18,630.00	9,253.53	18,832.27	9,440.87	201.13	206.39	-127.84	305.54	-29.30	334.84	0.913	0		Level 1	
18,660.00	9,253.19	18,862.26	9,440.69	201.77	207.02	-127.98	304.92	-30.50	335.42	0.909	0		Level 1	
18,678.00	9,252.93	18,880.25	9,440.58	202.16	207.39	-128.07	304.55	-31.16	335.72	0.907	0		Level 1	
18,690.00	9,252.76	18,907.76	9,440.50	202.42	207.97	-128.13	304.30	-31.88	336.18	0.905	0		Level 1	
18,720.00	9,252.50	18,922.23	9,440.32	203.06	208.27	-128.24	303.59	-32.91	336.49	0.902	0		Level 1	
18,750.00	9,252.47	18,952.21	9,440.14	203.70	208.90	-128.32	302.77	-34.44	337.21	0.898	0		Level 1	
18,773.00	9,252.60	18,975.20	9,440.00	204.19	209.38	-128.35	302.07	-35.79	337.87	0.894	0		Level 1	
18,780.00	9,252.66	18,982.20	9,439.95	204.34	209.52	-128.35	301.85	-36.23	338.08	0.893	0		Level 1	
18,810.00	9,252.94	19,012.18	9,439.77	204.98	210.15	-128.37	300.97	-38.06	339.03	0.888	0		Level 1	
18,840.00	9,253.22	19,042.17	9,439.59	205.62	210.77	-128.38	300.18	-39.86	340.05	0.883	0		Level 1	
18,868.00	9,253.50	19,070.16	9,439.42	206.22	211.36	-128.36	299.53	-41.53	341.05	0.878	0		Level 1	
18,870.00	9,253.53	19,072.16	9,439.40	206.26	211.40	-128.36	299.48	-41.64	341.13	0.878	0		Level 1	
18,900.00	9,253.89	19,102.16	9,439.22	206.90	212.02	-128.33	298.78	-43.48	342.26	0.873	0		Level 1	
18,930.00	9,254.35	19,132.14	9,439.04	207.54	212.65	-128.29	298.00	-45.44	343.45	0.868	0		Level 1	
18,960.00	9,254.91	19,162.13	9,438.85	208.18	213.28	-128.23	297.14	-47.53	344.67	0.862	0		Level 1	
18,963.00	9,254.97	19,165.13	9,438.84	208.24	213.34	-128.22	297.05	-47.75	344.80	0.862	0		Level 1	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design University - 7-0213 N 05SC - Wellbore #1 - Plan #1.1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
18,990.00	9,255.70	19,207.89	9,438.67	208.81	214.23	-128.12	296.20	-50.14	346.34	0.855	0		Level 1	
19,020.00	9,256.93	19,222.08	9,438.49	209.45	214.53	-127.92	295.14	-52.67	347.81	0.849	0		Level 1	
19,050.00	9,258.59	19,252.02	9,438.31	210.08	215.15	-127.62	293.98	-55.91	349.89	0.840	0		Level 1	
19,058.00	9,259.11	19,260.00	9,438.26	210.25	215.32	-127.53	293.65	-56.85	350.51	0.838	0		Level 1	
19,080.00	9,260.47	19,281.95	9,438.12	210.71	215.78	-127.31	292.87	-59.34	352.20	0.832	0		Level 1	
19,110.00	9,261.99	19,311.90	9,437.94	211.34	216.40	-127.03	292.18	-62.25	354.43	0.824	0		Level 1	
19,140.00	9,263.12	19,341.86	9,437.76	211.96	217.03	-126.76	291.94	-64.60	356.54	0.819	0		Level 1	
19,141.52	9,263.17	19,343.38	9,437.75	212.00	217.06	-126.75	291.94	-64.71	356.65	0.819	0		Level 1	
19,152.00	9,263.47	19,353.85	9,437.68	212.21	217.28	-126.66	291.96	-65.39	357.36	0.817	0		Level 1	
19,170.00	9,263.84	19,371.83	9,437.57	212.58	217.65	-126.52	292.18	-66.35	358.53	0.815	0		Level 1	
19,200.00	9,263.99	19,401.80	9,437.39	213.20	218.28	-126.29	293.10	-67.26	360.36	0.813	0		Level 1	
19,230.00	9,263.57	19,431.74	9,437.21	213.82	218.91	-126.09	294.71	-67.32	362.04	0.814	0		Level 1	
19,246.00	9,263.10	19,447.69	9,437.11	214.14	219.24	-125.99	295.86	-67.01	362.86	0.815	0		Level 1	
19,260.00	9,262.67	19,461.65	9,437.02	214.43	219.53	-125.95	296.89	-66.69	363.58	0.817	0		Level 1	
19,290.00	9,262.09	19,491.58	9,436.84	215.04	220.16	-125.81	298.79	-66.46	365.25	0.818	0		Level 1	
19,320.00	9,261.96	19,521.52	9,436.66	215.65	220.78	-125.63	300.25	-66.83	367.08	0.818	0		Level 1	
19,341.00	9,262.15	19,542.49	9,436.53	216.08	221.22	-125.46	301.01	-67.46	368.46	0.817	0		Level 1	
19,350.00	9,262.28	19,551.47	9,436.48	216.27	221.41	-125.38	301.28	-67.80	369.07	0.816	0		Level 1	
19,380.00	9,262.82	19,581.43	9,436.29	216.89	222.03	-125.10	302.08	-69.06	371.14	0.814	0		Level 1	
19,410.00	9,263.49	19,611.38	9,436.11	217.50	222.66	-124.82	302.74	-70.50	373.24	0.811	0		Level 1	
19,435.00	9,264.17	19,636.34	9,435.96	218.02	223.18	-124.57	303.18	-71.85	375.02	0.808	0		Level 1	
19,440.00	9,264.31	19,641.34	9,435.93	218.12	223.28	-124.52	303.25	-72.13	375.38	0.808	0		Level 1	
19,470.00	9,265.29	19,671.29	9,435.74	218.75	223.91	-124.20	303.51	-74.03	377.54	0.804	0		Level 1	
19,500.00	9,266.44	19,701.25	9,435.56	219.37	224.54	-123.88	303.47	-76.22	379.69	0.799	0		Level 1	
19,527.00	9,267.62	19,728.21	9,435.40	219.93	225.10	-123.60	303.18	-78.44	381.63	0.794	0		Level 1	
19,530.00	9,267.76	19,731.21	9,435.38	219.99	225.16	-123.57	303.14	-78.71	381.84	0.794	0		Level 1	
19,560.00	9,269.16	19,761.16	9,435.20	220.62	225.79	-123.26	302.69	-81.31	384.00	0.788	0		Level 1	
19,590.00	9,270.55	19,791.12	9,435.01	221.25	226.41	-122.96	302.25	-83.91	386.16	0.783	0		Level 1 , ES, SF	

<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB @ 2936.00ft (Unit 103)

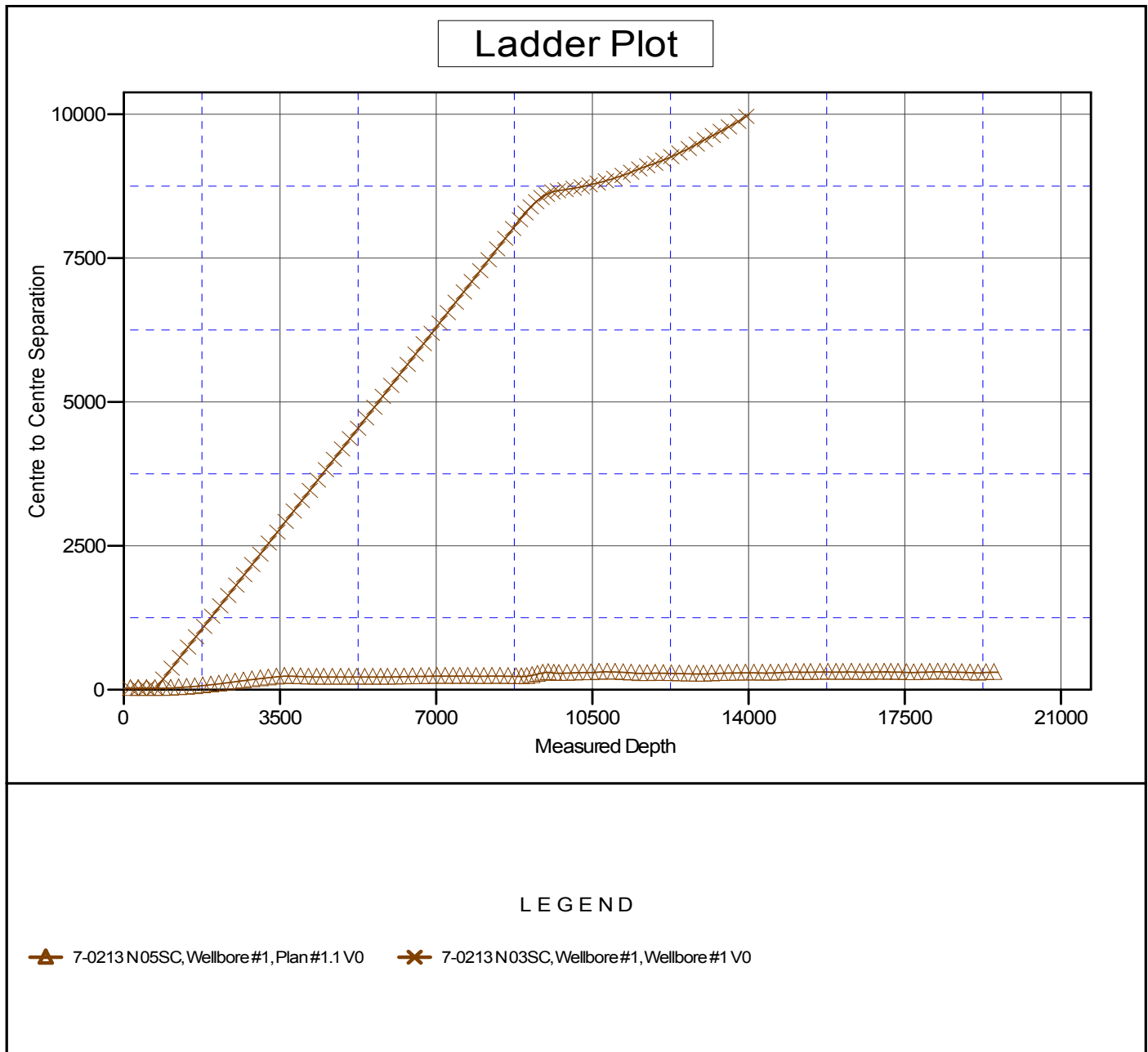
Offset Depths are relative to Offset Datum

Central Meridian is -97.500000 °

Coordinates are relative to: 7-0213 N 04SA

Coordinate System is US State Plane 1927 (Exact solution), Texas North Central

Grid Convergence at Surface is: -2.55°



<b>Company:</b>	QEP Energy	<b>Local Co-ordinate Reference:</b>	Well 7-0213 N 04SA
<b>Project:</b>	Martin County, Tx	<b>TVD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Reference Site:</b>	University	<b>MD Reference:</b>	RKB @ 2936.00ft (Unit 103)
<b>Site Error:</b>	0.00	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	7-0213 N 04SA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	PROD R5000 LDAP
<b>Reference Design:</b>	Wellbore #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB @ 2936.00ft (Unit 103)

Offset Depths are relative to Offset Datum

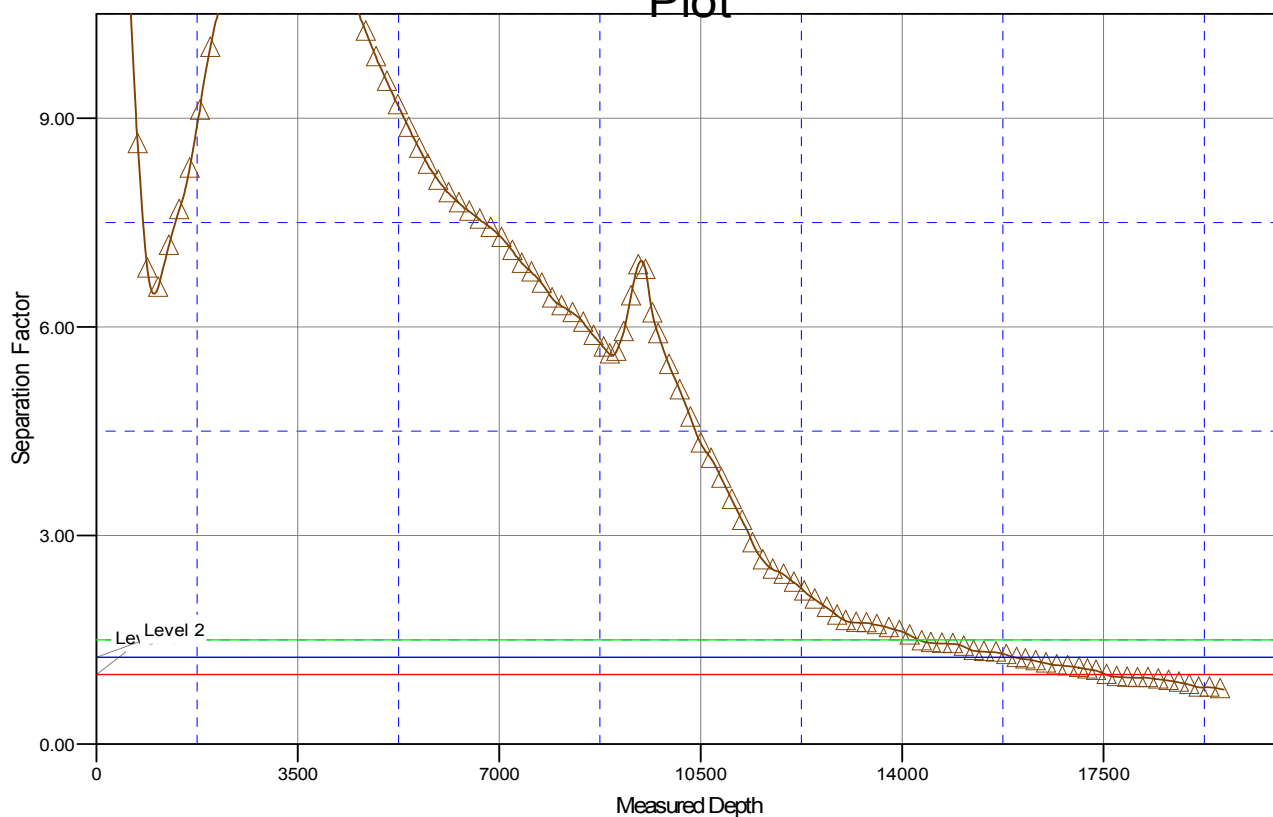
Central Meridian is -97.500000 °

Coordinates are relative to: 7-0213 N 04SA

Coordinate System is US State Plane 1927 (Exact solution), Texas North Central

Grid Convergence at Surface is: -2.55°

## Separation Factor Plot



### LEGEND

- 7-0213 N05SC, Wellbore #1, Plan #1.1 V0
- 7-0213 N03SC, Wellbore #1, Wellbore #1 V0