



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.7-T10N-R61W

Con GQ07-01 Pad Sec.7-T10N-R61W

Con GQ07-01 (Vert.)

Wellbore #1

Plan #1 (4-26-12)

Anticollision Report

26 April, 2012



Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.7-T10N-R61W
Reference Site: Con GQ07-01 Pad Sec.7-T10N-R61W
Site Error: 0.0ft
Reference Well: Con GQ07-01 (Vert.)
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (4-26-12)

Local Co-ordinate Reference: Well Con GQ07-01 (Vert.)
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference	Plan #1 (4-26-12)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program **Date** 4/26/2012

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,000.0	Plan #1 (4-26-12) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Con GQ07-01 Pad Sec.7-T10N-R61W						
Mae 41-7 (Exist.) - Wellbore #1 - Wellbore #1	1,542.9	1,542.9	41.3	34.8	6.368 CC	
Mae 41-7 (Exist.) - Wellbore #1 - Wellbore #1	7,400.0	7,400.0	60.6	28.7	1.900 ES, SF	

Offset Design Con GQ07-01 Pad Sec.7-T10N-R61W - Mae 41-7 (Exist.) - Wellbore #1 - Wellbore #1														Offset Site Error:	0.0 ft
Survey Program: 100-MWD														Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	94.43	-3.6	47.0	47.2						
100.0	100.0	100.3	100.3	0.1	0.1	93.78	-3.1	46.7	46.8	46.6	0.23	207.522			
200.0	200.0	200.3	200.3	0.3	0.3	93.16	-2.5	46.1	46.2	45.5	0.66	70.247			
300.0	300.0	300.5	300.4	0.6	0.5	92.78	-2.2	45.3	45.3	44.2	1.09	41.527			
400.0	400.0	400.3	400.3	0.8	0.7	92.25	-1.7	44.5	44.5	43.0	1.52	29.187			
500.0	500.0	500.5	500.5	1.0	0.9	91.90	-1.4	43.6	43.6	41.6	1.96	22.255			
600.0	600.0	600.4	600.3	1.2	1.2	90.79	-0.6	42.7	42.7	40.3	2.40	17.806			
663.7	663.7	663.7	663.7	1.4	1.3	90.00	0.0	42.4	42.4	39.8	2.67	15.886			
700.0	700.0	700.0	700.0	1.5	1.4	89.84	0.1	42.5	42.5	39.7	2.83	15.033			
800.0	800.0	800.0	799.9	1.7	1.6	89.93	0.1	42.8	42.8	39.6	3.26	13.138			
900.0	900.0	899.8	899.8	1.9	1.8	90.30	-0.2	43.1	43.1	39.4	3.69	11.682			
1,000.0	1,000.0	1,000.4	1,000.4	2.1	2.0	90.16	-0.1	42.9	42.9	38.8	4.13	10.402			
1,065.2	1,065.2	1,065.3	1,065.2	2.3	2.1	90.00	0.0	42.7	42.7	38.3	4.41	9.674			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.2	90.16	-0.1	42.7	42.7	38.2	4.56	9.371			
1,200.0	1,200.0	1,200.3	1,200.2	2.6	2.4	90.59	-0.4	42.7	42.7	37.7	5.00	8.549			
1,300.0	1,300.0	1,300.2	1,300.2	2.8	2.6	90.76	-0.6	42.2	42.2	36.8	5.43	7.772			
1,400.0	1,400.0	1,400.2	1,400.2	3.0	2.8	90.95	-0.7	41.7	41.8	35.9	5.86	7.121			
1,494.7	1,494.7	1,494.9	1,494.8	3.2	3.0	91.06	-0.8	41.4	41.4	35.1	6.28	6.595			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.0	91.07	-0.8	41.4	41.4	35.1	6.30	6.568			
1,542.9	1,542.9	1,542.9	1,542.9	3.4	3.1	91.13	-0.8	41.3	41.3	34.8	6.49	6.368 CC			
1,600.0	1,600.0	1,599.8	1,599.7	3.5	3.3	91.36	-1.0	41.5	41.5	34.8	6.73	6.162			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.5	91.65	-1.2	41.7	41.7	34.5	7.17	5.817			
1,800.0	1,800.0	1,799.8	1,799.8	3.9	3.7	92.04	-1.5	41.8	41.8	34.2	7.60	5.502			
1,900.0	1,900.0	1,900.0	1,899.9	4.2	3.9	92.08	-1.5	42.1	42.2	34.1	8.04	5.247			
2,000.0	2,000.0	2,000.1	2,000.0	4.4	4.1	91.75	-1.3	42.2	42.2	33.8	8.47	4.986			

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

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Site Error: 0.0ft
Reference Well: Con GQ07-01 (Vert.)
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (4-26-12)

Local Co-ordinate Reference: Well Con GQ07-01 (Vert.)
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
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North Reference: True
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Offset Design Con GQ07-01 Pad Sec.7-T10N-R61W - Mae 41-7 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 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 (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,100.0	2,100.0	2,100.3	2,100.3	4.6	4.3	91.99	-1.5	41.8	41.9	33.0	8.90	4.703		
2,192.2	2,192.2	2,192.3	2,192.2	4.8	4.5	91.97	-1.4	41.6	41.6	32.3	9.30	4.471		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.5	91.93	-1.4	41.6	41.6	32.3	9.34	4.455		
2,300.0	2,300.0	2,299.6	2,299.6	5.1	4.7	91.34	-1.0	42.1	42.2	32.4	9.77	4.314		
2,400.0	2,400.0	2,399.6	2,399.5	5.3	4.9	90.71	-0.5	43.2	43.2	33.0	10.21	4.235		
2,500.0	2,500.0	2,499.9	2,499.8	5.5	5.1	89.94	0.0	43.9	43.9	33.3	10.64	4.129		
2,600.0	2,600.0	2,599.7	2,599.6	5.7	5.3	89.88	0.1	44.5	44.5	33.5	11.07	4.021		
2,700.0	2,700.0	2,699.5	2,699.5	6.0	5.6	90.66	-0.5	45.5	45.5	34.0	11.51	3.955		
2,800.0	2,800.0	2,799.8	2,799.7	6.2	5.8	90.87	-0.7	46.4	46.4	34.5	11.94	3.887		
2,900.0	2,900.0	2,899.6	2,899.5	6.4	6.0	91.09	-0.9	47.3	47.3	34.9	12.38	3.821		
3,000.0	3,000.0	2,999.4	2,999.3	6.6	6.2	91.86	-1.6	48.6	48.6	35.8	12.81	3.793		
3,100.0	3,100.0	3,099.4	3,099.3	6.9	6.4	92.36	-2.1	50.0	50.0	36.8	13.25	3.777		
3,200.0	3,200.0	3,199.5	3,199.4	7.1	6.6	92.89	-2.6	51.2	51.3	37.6	13.68	3.748		
3,300.0	3,300.0	3,299.8	3,299.7	7.3	6.8	93.48	-3.2	52.0	52.1	38.0	14.11	3.693		
3,400.0	3,400.0	3,399.8	3,399.7	7.5	7.0	93.96	-3.6	52.6	52.7	38.2	14.55	3.625		
3,500.0	3,500.0	3,500.3	3,500.1	7.8	7.2	94.75	-4.4	52.7	52.9	37.9	14.98	3.532		
3,548.9	3,548.9	3,549.1	3,548.9	7.9	7.3	95.33	-4.9	52.6	52.9	37.7	15.19	3.478		
3,600.0	3,600.0	3,600.0	3,599.9	8.0	7.4	96.10	-5.6	52.6	52.9	37.5	15.42	3.433		
3,700.0	3,700.0	3,700.1	3,699.9	8.2	7.6	97.18	-6.6	52.7	53.1	37.3	15.85	3.351		
3,800.0	3,800.0	3,800.0	3,799.9	8.4	7.9	97.72	-7.2	52.8	53.2	37.0	16.28	3.270		
3,900.0	3,900.0	3,900.1	3,899.9	8.7	8.1	98.62	-8.0	52.8	53.4	36.7	16.72	3.193		
4,000.0	4,000.0	4,000.0	3,999.9	8.9	8.3	99.19	-8.6	52.9	53.6	36.4	17.15	3.122		
4,100.0	4,100.0	4,100.2	4,100.1	9.1	8.5	99.73	-9.1	52.8	53.6	36.0	17.59	3.047		
4,119.5	4,119.5	4,119.6	4,119.5	9.1	8.5	99.92	-9.2	52.8	53.6	35.9	17.67	3.031		
4,200.0	4,200.0	4,200.0	4,199.9	9.3	8.7	100.27	-9.6	52.9	53.8	35.8	18.02	2.985		
4,300.0	4,300.0	4,299.8	4,299.7	9.6	8.9	100.26	-9.7	53.5	54.4	35.9	18.46	2.947		
4,400.0	4,400.0	4,399.8	4,399.6	9.8	9.1	100.82	-10.3	54.1	55.1	36.2	18.89	2.914		
4,500.0	4,500.0	4,499.6	4,499.5	10.0	9.3	102.04	-11.7	54.6	55.9	36.5	19.33	2.890		
4,600.0	4,600.0	4,599.9	4,599.7	10.2	9.5	103.19	-12.9	55.1	56.6	36.8	19.76	2.863		
4,700.0	4,700.0	4,700.0	4,699.9	10.5	9.7	104.38	-14.2	55.2	57.0	36.8	20.20	2.821		
4,800.0	4,800.0	4,800.0	4,799.9	10.7	10.0	106.04	-15.8	55.0	57.2	36.6	20.63	2.773		
4,900.0	4,900.0	4,900.1	4,899.9	10.9	10.2	108.00	-17.7	54.6	57.4	36.4	21.07	2.726		
5,000.0	5,000.0	5,000.2	4,999.9	11.1	10.4	110.58	-20.2	53.9	57.6	36.1	21.51	2.677		
5,100.0	5,100.0	5,100.1	5,099.8	11.4	10.6	113.31	-22.9	53.1	57.8	35.9	21.94	2.635		
5,200.0	5,200.0	5,200.2	5,200.0	11.6	10.8	114.88	-24.4	52.6	58.0	35.7	22.37	2.594		
5,300.0	5,300.0	5,300.3	5,300.0	11.8	11.0	115.46	-25.0	52.5	58.1	35.3	22.81	2.548		
5,400.0	5,400.0	5,400.5	5,400.2	12.0	11.2	115.22	-24.7	52.4	58.0	34.7	23.24	2.494		
5,441.9	5,441.9	5,442.2	5,441.9	12.1	11.3	114.77	-24.3	52.6	57.9	34.5	23.42	2.472		
5,500.0	5,500.0	5,500.0	5,499.7	12.2	11.4	113.76	-23.4	53.1	58.0	34.4	23.67	2.452		
5,600.0	5,600.0	5,599.4	5,599.1	12.5	11.6	112.20	-22.3	54.7	59.1	35.0	24.10	2.451		
5,700.0	5,700.0	5,699.8	5,699.5	12.7	11.8	111.26	-21.9	56.2	60.3	35.8	24.54	2.457		
5,800.0	5,800.0	5,799.5	5,799.1	12.9	12.1	110.48	-21.5	57.5	61.4	36.5	24.97	2.460		
5,900.0	5,900.0	5,899.5	5,899.1	13.1	12.3	110.16	-21.7	59.0	62.8	37.4	25.41	2.473		
6,000.0	6,000.0	6,000.1	5,999.7	13.4	12.5	110.45	-22.3	59.7	63.7	37.9	25.84	2.466		
6,100.0	6,100.0	6,100.0	6,099.6	13.6	12.7	111.07	-23.1	60.0	64.3	38.0	26.28	2.446		
6,200.0	6,200.0	6,200.3	6,200.0	13.8	12.9	111.80	-24.0	60.0	64.6	37.9	26.71	2.420		
6,300.0	6,300.0	6,300.8	6,300.4	14.0	13.1	112.52	-24.7	59.5	64.4	37.2	27.15	2.371		
6,393.8	6,393.8	6,394.2	6,393.8	14.3	13.3	113.50	-25.6	58.8	64.1	36.5	27.56	2.326		
6,400.0	6,400.0	6,400.4	6,400.0	14.3	13.3	113.58	-25.6	58.7	64.1	36.5	27.58	2.324		
6,500.0	6,500.0	6,500.3	6,499.9	14.5	13.5	114.84	-27.0	58.3	64.2	36.2	28.02	2.291		
6,600.0	6,600.0	6,600.5	6,600.1	14.7	13.7	115.87	-28.0	57.8	64.2	35.8	28.45	2.257		
6,665.4	6,665.4	6,665.8	6,665.4	14.9	13.9	116.27	-28.4	57.5	64.2	35.4	28.73	2.233		

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Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (4-26-12)

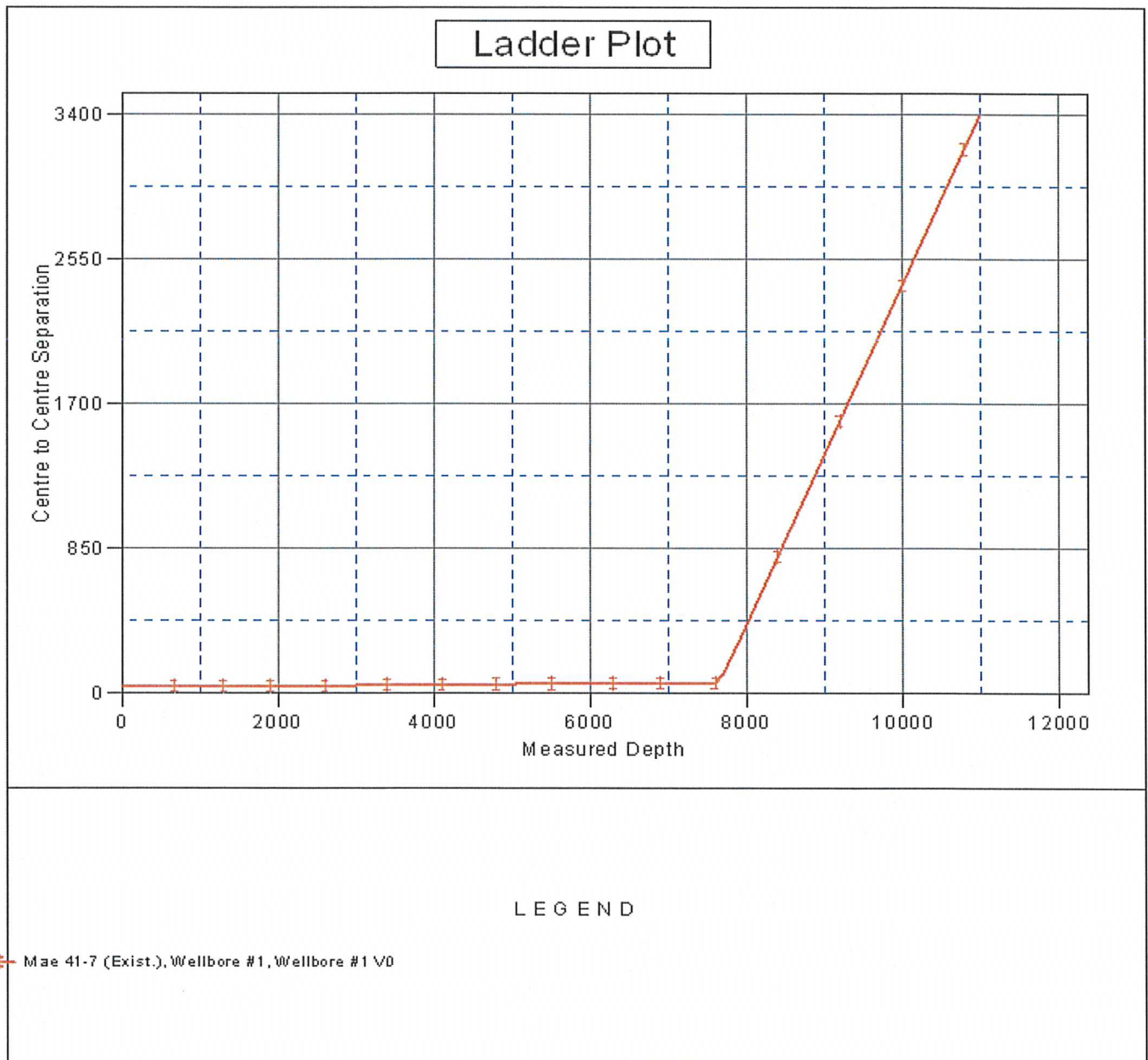
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Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
6,700.0	6,700.0	6,700.4	6,700.0	14.9	13.9	116.29	-28.4	57.5	64.2	35.3	28.88	2.222		
6,800.0	6,800.0	6,800.3	6,799.9	15.2	14.1	116.77	-28.9	57.4	64.3	34.9	29.32	2.192		
6,900.0	6,900.0	6,900.2	6,899.8	15.4	14.4	117.71	-30.0	57.1	64.5	34.7	29.75	2.167		
7,000.0	7,000.0	7,000.9	7,000.5	15.6	14.6	118.83	-31.0	56.2	64.2	34.0	30.19	2.127		
7,100.0	7,100.0	7,101.4	7,100.9	15.8	14.8	120.39	-31.9	54.4	63.1	32.4	30.62	2.059		
7,200.0	7,200.0	7,201.4	7,200.9	16.1	15.0	121.33	-32.0	52.6	61.6	30.5	31.06	1.982		
7,300.0	7,300.0	7,300.8	7,300.3	16.3	15.2	120.91	-31.1	51.9	60.5	29.1	31.49	1.923		
7,343.0	7,343.0	7,343.4	7,343.0	16.4	15.3	120.40	-30.6	52.1	60.4	28.7	31.67	1.908		
7,400.0	7,400.0	7,400.0	7,399.5	16.5	15.4	119.57	-29.9	52.7	60.6	28.7	31.92	1.900 ES, SF		
7,500.0	7,500.0	7,499.5	7,499.0	16.7	15.6	118.05	-29.1	54.5	61.8	29.4	32.35	1.910		
7,600.0	7,600.0	7,599.3	7,598.7	17.0	15.8	116.90	-28.8	56.7	63.6	30.8	32.79	1.939		
7,700.0	7,700.0	7,600.0	7,599.5	17.2	15.8	116.90	-28.8	56.7	118.9	85.9	33.01	3.603		
7,800.0	7,800.0	7,600.0	7,599.5	17.4	15.8	116.90	-28.8	56.7	210.4	177.1	33.24	6.329		
7,900.0	7,900.0	7,600.0	7,599.5	17.6	15.8	116.90	-28.8	56.7	307.2	273.7	33.46	9.180		
8,000.0	8,000.0	7,600.0	7,599.5	17.9	15.8	116.90	-28.8	56.7	405.5	371.9	33.69	12.039		
8,100.0	8,100.0	7,600.0	7,599.5	18.1	15.8	116.90	-28.8	56.7	504.6	470.6	33.91	14.878		
8,200.0	8,200.0	7,600.0	7,599.5	18.3	15.8	116.90	-28.8	56.7	603.9	569.7	34.14	17.690		
8,300.0	8,300.0	7,600.0	7,599.5	18.5	15.8	116.90	-28.8	56.7	703.4	669.0	34.36	20.471		
8,400.0	8,400.0	7,600.0	7,599.5	18.8	15.8	116.90	-28.8	56.7	803.0	768.5	34.59	23.219		
8,500.0	8,500.0	7,600.0	7,599.5	19.0	15.8	116.90	-28.8	56.7	902.8	868.0	34.81	25.933		
8,600.0	8,600.0	7,600.0	7,599.5	19.2	15.8	116.90	-28.8	56.7	1,002.5	967.5	35.04	28.615		
8,700.0	8,700.0	7,600.0	7,599.5	19.4	15.8	116.90	-28.8	56.7	1,102.4	1,067.1	35.26	31.263		
8,800.0	8,800.0	7,600.0	7,599.5	19.7	15.8	116.90	-28.8	56.7	1,202.2	1,166.7	35.49	33.879		
8,900.0	8,900.0	7,600.0	7,599.5	19.9	15.8	116.90	-28.8	56.7	1,302.1	1,266.4	35.71	36.463		
9,000.0	9,000.0	7,600.0	7,599.5	20.1	15.8	116.90	-28.8	56.7	1,402.0	1,366.0	35.93	39.014		
9,100.0	9,100.0	7,600.0	7,599.5	20.3	15.8	116.90	-28.8	56.7	1,501.9	1,465.7	36.16	41.535		
9,200.0	9,200.0	7,600.0	7,599.5	20.6	15.8	116.90	-28.8	56.7	1,601.8	1,565.4	36.38	44.024		
9,300.0	9,300.0	7,600.0	7,599.5	20.8	15.8	116.90	-28.8	56.7	1,701.7	1,665.1	36.61	46.483		
9,400.0	9,400.0	7,600.0	7,599.5	21.0	15.8	116.90	-28.8	56.7	1,801.7	1,764.8	36.83	48.913		
9,500.0	9,500.0	7,600.0	7,599.5	21.2	15.8	116.90	-28.8	56.7	1,901.6	1,864.5	37.06	51.313		
9,600.0	9,600.0	7,600.0	7,599.5	21.5	15.8	116.90	-28.8	56.7	2,001.5	1,964.3	37.28	53.684		
9,700.0	9,700.0	7,600.0	7,599.5	21.7	15.8	116.90	-28.8	56.7	2,101.5	2,064.0	37.51	56.027		
9,800.0	9,800.0	7,600.0	7,599.5	21.9	15.8	116.90	-28.8	56.7	2,201.4	2,163.7	37.73	58.343		
9,900.0	9,900.0	7,600.0	7,599.5	22.1	15.8	116.90	-28.8	56.7	2,301.4	2,263.4	37.96	60.631		
10,000.0	10,000.0	7,600.0	7,599.5	22.4	15.8	116.90	-28.8	56.7	2,401.4	2,363.2	38.18	62.892		
10,100.0	10,100.0	7,600.0	7,599.5	22.6	15.8	116.90	-28.8	56.7	2,501.3	2,462.9	38.41	65.127		
10,200.0	10,200.0	7,600.0	7,599.5	22.8	15.8	116.90	-28.8	56.7	2,601.3	2,562.7	38.63	67.335		
10,300.0	10,300.0	7,600.0	7,599.5	23.0	15.8	116.90	-28.8	56.7	2,701.3	2,662.4	38.86	69.519		
10,400.0	10,400.0	7,600.0	7,599.5	23.3	15.8	116.90	-28.8	56.7	2,801.3	2,762.2	39.08	71.677		
10,500.0	10,500.0	7,600.0	7,599.5	23.5	15.8	116.90	-28.8	56.7	2,901.2	2,861.9	39.31	73.811		
10,600.0	10,600.0	7,600.0	7,599.5	23.7	15.8	116.90	-28.8	56.7	3,001.2	2,961.7	39.53	75.920		
10,700.0	10,700.0	7,600.0	7,599.5	23.9	15.8	116.90	-28.8	56.7	3,101.2	3,061.4	39.76	78.006		
10,800.0	10,800.0	7,600.0	7,599.5	24.2	15.8	116.90	-28.8	56.7	3,201.2	3,161.2	39.98	80.068		
10,900.0	10,900.0	7,600.0	7,599.5	24.4	15.8	116.90	-28.8	56.7	3,301.1	3,260.9	40.21	82.107		
11,000.0	11,000.0	7,600.0	7,599.5	24.6	15.8	116.90	-28.8	56.7	3,401.1	3,360.7	40.43	84.123		

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.7-T10N-R61W
Reference Site: Con GQ07-01 Pad Sec.7-T10N-R61W
Site Error: 0.0ft
Reference Well: Con GQ07-01 (Vert.)
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (4-26-12)

Local Co-ordinate Reference: Well Con GQ07-01 (Vert.)
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5091.0ft (Original Well Elev) Coordinates are relative to: Con GQ07-01 (Vert.)
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.81°



Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.7-T10N-R61W
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Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.81°

