

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SW NE SEC. 5 T6N R67W 6th P.M.

MICKEY 4

ORIGINAL WELLBORE

PROPOSAL #2

Anticollision Report

07 October, 2016



Anticollision Report



Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well MICKEY 4
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KB-EST @ 4896.0usft
Reference Site:	SW NE SEC. 5 T6N R67W 6th P.M.	MD Reference:	KB-EST @ 4896.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MICKEY 4	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	07/10/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,011.1	PROPOSAL #2 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SW NE SEC. 5 T6N R67W 6th P.M.						
ABDN VERT UPRR-SMITH 1-3 - Wellbore #1 - Design #	16,340.6	7,129.0	1,391.9	1,003.8	3.587	CC
ABDN VERT UPRR-SMITH 1-3 - Wellbore #1 - Design #	16,400.0	7,129.0	1,393.2	1,003.4	3.575	ES
ABDN VERT UPRR-SMITH 1-3 - Wellbore #1 - Design #	16,500.0	7,129.0	1,401.0	1,008.4	3.569	SF
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,426.4	7,057.0	1,366.7	1,060.6	4.464	CC
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,500.0	7,057.0	1,368.7	1,060.5	4.441	ES
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,600.0	7,057.0	1,377.7	1,066.7	4.431	SF
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,300.0	8,681.7	396.8	335.3	6.447	SF
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,400.0	8,721.2	375.6	319.5	6.698	ES
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,406.9	8,723.9	375.5	319.9	6.752	CC
EXIST VERT JBL 34-34 - Wellbore #1 - Design #1	18,011.1	7,136.0	1,459.1	1,024.2	3.355	CC, ES, SF
MICKEY 1 - ORIGINAL WELLBORE - PROPOSAL #2	2,600.0	2,601.0	45.1	33.6	3.942	CC, ES
MICKEY 1 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	18,462.0	650.3	64.0	1.109	Level 2, SF
MICKEY 10 - ORIGINAL WELLBORE - PROPOSAL #2	2,000.0	2,000.0	89.9	81.1	10.293	CC, ES
MICKEY 10 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,562.9	1,299.9	716.2	2.227	SF
MICKEY 11 - ORIGINAL WELLBORE - PROPOSAL #2	1,900.0	1,900.0	104.9	96.6	12.667	CC, ES
MICKEY 11 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,342.6	1,473.3	895.4	2.549	SF
MICKEY 12 - ORIGINAL WELLBORE - PROPOSAL #2	1,800.0	1,800.0	119.9	112.1	15.312	CC, ES
MICKEY 12 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,304.5	1,800.8	1,221.5	3.109	SF
MICKEY 13 - ORIGINAL WELLBORE - PROPOSAL #2	1,700.0	1,700.0	134.9	127.5	18.279	CC, ES
MICKEY 13 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,500.0	1,949.7	1,366.5	3.343	SF
MICKEY 2 - ORIGINAL WELLBORE - PROPOSAL #2	2,600.0	2,601.0	30.0	18.6	2.628	CC
MICKEY 2 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	18,157.5	529.3	-20.3	0.963	Level 1, ES, SF
MICKEY 3 - ORIGINAL WELLBORE - PROPOSAL #2	2,600.0	2,601.0	15.0	3.6	1.314	Level 3, CC
MICKEY 3 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,943.7	256.3	-139.7	0.647	Level 1, ES, SF
MICKEY 5 - ORIGINAL WELLBORE - PROPOSAL #2	2,500.0	2,500.0	15.0	4.1	1.369	Level 3, CC
MICKEY 5 - ORIGINAL WELLBORE - PROPOSAL #2	6,877.1	6,871.9	39.7	-19.7	0.668	Level 1, SF
MICKEY 5 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,749.1	256.1	-126.5	0.669	Level 1, ES
MICKEY 6 - ORIGINAL WELLBORE - PROPOSAL #2	2,400.0	2,400.0	29.8	19.2	2.828	CC
MICKEY 6 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,604.9	528.9	-13.7	0.975	Level 1, ES, SF
MICKEY 7 - ORIGINAL WELLBORE - PROPOSAL #2	2,300.0	2,300.0	44.8	34.7	4.444	CC, ES
MICKEY 7 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,726.0	649.9	65.6	1.112	Level 2, SF
MICKEY 8 - ORIGINAL WELLBORE - PROPOSAL #2	2,200.0	2,200.0	59.8	50.2	6.212	CC, ES
MICKEY 8 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,484.6	834.0	266.8	1.470	Level 3, SF
MICKEY 9 - ORIGINAL WELLBORE - PROPOSAL #2	2,100.0	2,100.0	74.8	65.7	8.153	CC, ES
MICKEY 9 - ORIGINAL WELLBORE - PROPOSAL #2	18,011.1	17,402.2	1,157.2	582.3	2.013	SF

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