

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

MICKEY 5

ORIGINAL WELLBORE

PROPOSAL #2

Anticollision Report

07 October, 2016



Anticollision Report



Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well MICKEY 5
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 5	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	17,750.3	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 #	16,078.6	6,929.0	1,232.0	847.9	3.208	CC
ABDN VERT UPRR-SMITH 1-3 - Wellbore #1 - Design #	16,100.0	6,929.0	1,232.1	847.5	3.203	ES
ABDN VERT UPRR-SMITH 1-3 - Wellbore #1 - Design #	16,200.0	6,929.0	1,237.9	850.5	3.195	SF
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,164.4	6,857.0	1,206.8	904.7	3.995	CC
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,200.0	6,857.0	1,207.3	904.3	3.984	ES
ABDN VERT WINDER 1 - Wellbore #1 - Design #1	13,300.0	6,857.0	1,214.4	908.6	3.971	SF
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,100.0	8,530.5	542.1	487.9	9.992	SF
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,200.0	8,571.8	517.0	468.3	10.619	ES
EXIST HZ OCHSNER #50-441 - Wellbore #1 - Wellbore	7,228.8	8,581.5	515.6	468.8	11.020	CC
EXIST VERT JBL 34-34 - Wellbore #1 - Design #1	17,750.3	6,936.0	1,607.8	1,176.9	3.731	CC, ES, SF
MICKEY 1 - ORIGINAL WELLBORE - PROPOSAL #2	2,500.0	2,501.0	60.1	49.1	5.472	CC, ES
MICKEY 1 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	18,462.0	834.6	265.9	1.468	Level 3, SF
MICKEY 10 - ORIGINAL WELLBORE - PROPOSAL #2	2,000.0	2,000.0	74.8	66.1	8.571	CC, ES
MICKEY 10 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,564.1	1,157.5	581.0	2.008	SF
MICKEY 11 - ORIGINAL WELLBORE - PROPOSAL #2	1,900.0	1,900.0	89.9	81.6	10.852	CC, ES
MICKEY 11 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,343.9	1,299.9	716.2	2.227	SF
MICKEY 12 - ORIGINAL WELLBORE - PROPOSAL #2	1,800.0	1,800.0	104.9	97.0	13.392	CC, ES
MICKEY 12 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,306.5	1,629.9	1,046.6	2.795	SF
MICKEY 13 - ORIGINAL WELLBORE - PROPOSAL #2	1,700.0	1,700.0	119.9	112.5	16.243	CC, ES
MICKEY 13 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,500.0	1,801.0	1,220.7	3.104	SF
MICKEY 2 - ORIGINAL WELLBORE - PROPOSAL #2	2,500.0	2,501.0	45.1	34.1	4.104	CC, ES
MICKEY 2 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	18,157.5	650.0	64.2	1.110	Level 2, SF
MICKEY 3 - ORIGINAL WELLBORE - PROPOSAL #2	2,500.0	2,501.0	30.0	19.1	2.737	CC
MICKEY 3 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,943.7	320.2	-265.3	0.547	Level 1, ES, SF
MICKEY 4 - ORIGINAL WELLBORE - PROPOSAL #2	2,500.0	2,500.0	15.0	4.1	1.369	Level 3, CC
MICKEY 4 - ORIGINAL WELLBORE - PROPOSAL #2	6,850.0	6,860.5	42.1	-22.0	0.657	Level 1, SF
MICKEY 4 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	18,011.1	256.1	-126.5	0.669	Level 1, ES
MICKEY 6 - ORIGINAL WELLBORE - PROPOSAL #2	2,400.0	2,400.0	14.7	4.2	1.400	Level 3, CC
MICKEY 6 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,606.1	330.1	-254.7	0.564	Level 1, ES, SF
MICKEY 7 - ORIGINAL WELLBORE - PROPOSAL #2	2,300.0	2,300.0	29.8	19.7	2.953	CC
MICKEY 7 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,727.3	529.6	-17.2	0.968	Level 1, ES, SF
MICKEY 8 - ORIGINAL WELLBORE - PROPOSAL #2	2,200.0	2,200.0	44.8	35.2	4.651	CC, ES
MICKEY 8 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,485.8	649.9	65.6	1.112	Level 2, SF
MICKEY 9 - ORIGINAL WELLBORE - PROPOSAL #2	2,100.0	2,100.0	59.8	50.6	6.515	CC, ES
MICKEY 9 - ORIGINAL WELLBORE - PROPOSAL #2	17,750.3	17,403.5	980.0	396.0	1.678	SF

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