

# **EXTRACTION OIL & GAS**

**WELD COUNTY, COLORADO (NAD 83)  
NW SW SEC. 21 T3N R68W 6th P.M.  
KITELEY 7**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**24 August, 2016**



## Anticollision Report



<b>Company:</b>	EXTRACTION OIL & GAS	<b>Local Co-ordinate Reference:</b>	Well KITELEY 7
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>TVD Reference:</b>	KB-EST @ 5005.0usft
<b>Reference Site:</b>	NW SW SEC. 21 T3N R68W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 5005.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KITELEY 7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.0usft	<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 10,000.0 us	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b> 24/08/2016			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,864.3	PROPOSAL #1 (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						
NW SW SEC. 21 T3N R68W 6th P.M.						
EXIST VERT HIGHLAND #1 - Wellbore #1 - Design #1	11,327.2	7,107.0	6.3	-253.3	0.024	Level 1, CC, ES, SF
KITELEY 1 - ORIGINAL WELLBORE - PROPOSAL #1	0.0	2.0	150.2			
KITELEY 1 - ORIGINAL WELLBORE - PROPOSAL #1	100.0	100.0	150.2	150.1	795.795	ES
KITELEY 1 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,887.4	1,400.3	1,136.6	5.310	SF
KITELEY 10 - ORIGINAL WELLBORE - PROPOSAL #1	300.0	299.0	74.9	73.9	69.026	CC
KITELEY 10 - ORIGINAL WELLBORE - PROPOSAL #1	400.0	398.4	75.3	73.8	49.812	ES
KITELEY 10 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,917.2	699.8	437.6	2.669	SF
KITELEY 11 - ORIGINAL WELLBORE - PROPOSAL #1	746.1	749.7	99.7	96.5	31.120	CC, ES
KITELEY 11 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	12,568.4	1,116.8	900.4	5.162	SF
KITELEY 12 - ORIGINAL WELLBORE - PROPOSAL #1	100.0	98.0	124.9	124.7	668.302	CC
KITELEY 12 - ORIGINAL WELLBORE - PROPOSAL #1	300.0	297.5	125.2	124.1	116.367	ES
KITELEY 12 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	12,559.5	794.1	636.8	5.047	SF
KITELEY 2 - ORIGINAL WELLBORE - PROPOSAL #1	166.0	168.0	125.1	124.6	255.337	CC
KITELEY 2 - ORIGINAL WELLBORE - PROPOSAL #1	200.0	200.0	125.1	124.5	195.998	ES
KITELEY 2 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,865.4	1,050.2	786.4	3.980	SF
KITELEY 3 - ORIGINAL WELLBORE - PROPOSAL #1	266.0	268.0	100.2	99.3	106.709	CC
KITELEY 3 - ORIGINAL WELLBORE - PROPOSAL #1	300.0	301.9	100.2	99.2	91.792	ES
KITELEY 3 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	12,046.9	894.8	636.6	3.465	SF
KITELEY 4 - ORIGINAL WELLBORE - PROPOSAL #1	366.0	368.0	75.1	73.7	54.080	CC
KITELEY 4 - ORIGINAL WELLBORE - PROPOSAL #1	400.0	402.0	75.1	73.6	48.724	ES
KITELEY 4 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,853.0	700.2	436.1	2.652	SF
KITELEY 5 - ORIGINAL WELLBORE - PROPOSAL #1	466.3	467.3	50.0	48.1	27.197	CC
KITELEY 5 - ORIGINAL WELLBORE - PROPOSAL #1	500.0	501.0	50.0	48.0	25.130	ES
KITELEY 5 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,850.9	350.1	86.4	1.328	Level 3, SF
KITELEY 6 - ORIGINAL WELLBORE - PROPOSAL #1	757.1	757.9	24.6	21.5	7.918	CC
KITELEY 6 - ORIGINAL WELLBORE - PROPOSAL #1	800.0	800.7	24.7	21.4	7.526	ES
KITELEY 6 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	12,045.4	257.0	69.0	1.367	Level 3, SF
KITELEY 8 - ORIGINAL WELLBORE - PROPOSAL #1	500.0	499.0	24.7	22.7	12.430	CC
KITELEY 8 - ORIGINAL WELLBORE - PROPOSAL #1	600.0	598.9	24.8	22.4	10.287	ES
KITELEY 8 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	11,886.1	349.7	87.1	1.332	Level 3, SF
KITELEY 9 - ORIGINAL WELLBORE - PROPOSAL #1	400.0	399.0	49.8	48.3	32.442	CC
KITELEY 9 - ORIGINAL WELLBORE - PROPOSAL #1	500.0	498.7	50.1	48.1	25.525	ES
KITELEY 9 - ORIGINAL WELLBORE - PROPOSAL #1	11,865.3	12,088.3	558.3	310.8	2.256	SF

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