

BONANZA CREEK ENERGY OPERATING

Well Name: **Antelope A-E-18HZ**

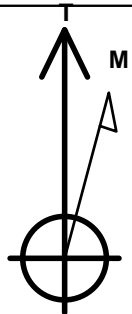
Surface Location: Antelope F-18 Pad Sec.18-T5N-R62W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4614.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1392375.50	3314359.26	40.404980	-104.371170	

Original Well Elev WELL @ 4626.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE BHL 460'FSL (4)	1.0	-4317.1	-993.3	Polygon
HARDLINE SHL 460'FNL (4)	1.0	145.0	-800.0	Polygon
BHL 460'FSL, 500'FWL	6349.0	-4317.1	-593.3	Point
T1 460'FNL, 500'FWL	6349.0	145.7	-682.3	Point



Azimuths to True North
Magnetic North: 8.52°

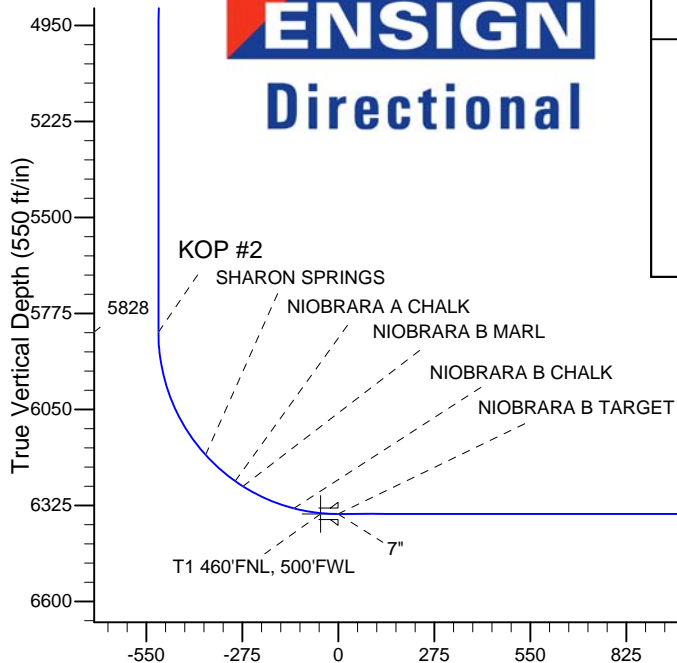
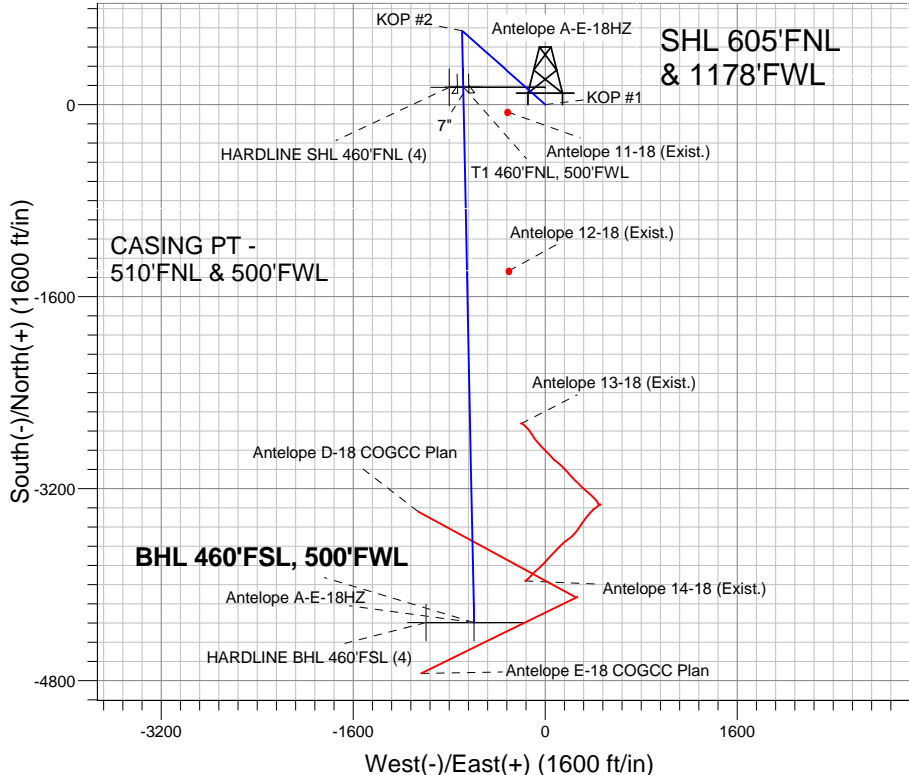
Magnetic Field
Strength: 53071.8nT
Dip Angle: 67.08°
Date: 6/15/2012
Model: IGRF2010

Antelope F-18 Pad Sec.18-T5N-R62W
Antelope A-E-18HZ
Plan #1 (6-11-12)
10:15, June 20 2012

ANNOTATIONS

TVD	MD	Annotation
800.0	800.0	KOP #1
5828.1	5942.0	KOP #2

South(-)/North(+) (1600 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1553.6	15.07	311.63	1544.9	65.5	-73.7	2.00	311.63	-54.8	
4	4360.3	15.07	311.63	4255.1	550.3	-619.1	0.00	0.00	-460.9	
5	5113.9	0.00	0.00	5000.0	615.8	-692.8	2.00	180.00	-515.7	
6	5942.0	0.00	0.00	5828.1	615.8	-692.8	0.00	0.00	-515.7	
7	6760.2	90.00	178.84	6349.0	95.0	-682.3	11.00	178.84	-1.3	
8	11173.2	90.00	178.84	6349.0	-4317.1	-593.3	0.00	0.00	4357.7	BHL 460'FSL, 500'FWL

BHL 460'FSL, 500'FWL

Vertical Section at 187.83° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.18-T5N-R62W

Antelope F-18 Pad Sec.18-T5N-R62W

Antelope A-E-18HZ

Wellbore #1

Plan: Plan #1 (6-11-12)

Standard Planning Report

20 June, 2012

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,553.6	15.07	311.63	1,544.9	65.5	-73.7	2.00	2.00	0.00	311.63	
4,360.3	15.07	311.63	4,255.1	550.3	-619.1	0.00	0.00	0.00	0.00	
5,113.9	0.00	0.00	5,000.0	615.8	-692.8	2.00	-2.00	0.00	180.00	
5,942.0	0.00	0.00	5,828.1	615.8	-692.8	0.00	0.00	0.00	0.00	
6,760.2	90.00	178.84	6,349.0	95.0	-682.3	11.00	11.00	0.00	178.84	
11,173.2	90.00	178.84	6,349.0	-4,317.1	-593.3	0.00	0.00	0.00	0.00	BHL 460'FSL, 500'

Database:	Landmark	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Project:	SEC.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site:	Antelope F-18 Pad Sec.18-T5N-R62W	North Reference:	True
Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (6-11-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
HARDLINE SHL 460'FNL (4) - HARDLINE BHL 460'FSL (4)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
900.0	2.00	311.63	900.0	1.2	-1.3	-1.0	2.00	2.00	0.00
1,000.0	4.00	311.63	999.8	4.6	-5.2	-3.9	2.00	2.00	0.00
1,100.0	6.00	311.63	1,099.5	10.4	-11.7	-8.7	2.00	2.00	0.00
1,200.0	8.00	311.63	1,198.7	18.5	-20.8	-15.5	2.00	2.00	0.00
1,300.0	10.00	311.63	1,297.5	28.9	-32.5	-24.2	2.00	2.00	0.00
1,400.0	12.00	311.63	1,395.6	41.6	-46.8	-34.8	2.00	2.00	0.00
1,500.0	14.00	311.63	1,493.1	56.5	-63.6	-47.3	2.00	2.00	0.00
1,553.6	15.07	311.63	1,544.9	65.5	-73.7	-54.8	2.00	2.00	0.00
1,600.0	15.07	311.63	1,589.7	73.5	-82.7	-61.5	0.00	0.00	0.00
1,700.0	15.07	311.63	1,686.3	90.8	-102.1	-76.0	0.00	0.00	0.00
1,800.0	15.07	311.63	1,782.9	108.0	-121.5	-90.5	0.00	0.00	0.00
1,900.0	15.07	311.63	1,879.4	125.3	-141.0	-105.0	0.00	0.00	0.00
2,000.0	15.07	311.63	1,976.0	142.6	-160.4	-119.4	0.00	0.00	0.00
2,100.0	15.07	311.63	2,072.5	159.9	-179.9	-133.9	0.00	0.00	0.00
2,200.0	15.07	311.63	2,169.1	177.1	-199.3	-148.4	0.00	0.00	0.00
2,300.0	15.07	311.63	2,265.7	194.4	-218.7	-162.8	0.00	0.00	0.00
2,400.0	15.07	311.63	2,362.2	211.7	-238.2	-177.3	0.00	0.00	0.00
2,500.0	15.07	311.63	2,458.8	229.0	-257.6	-191.8	0.00	0.00	0.00
2,600.0	15.07	311.63	2,555.3	246.2	-277.0	-206.2	0.00	0.00	0.00
2,700.0	15.07	311.63	2,651.9	263.5	-296.5	-220.7	0.00	0.00	0.00
2,800.0	15.07	311.63	2,748.5	280.8	-315.9	-235.2	0.00	0.00	0.00
2,900.0	15.07	311.63	2,845.0	298.1	-335.3	-249.6	0.00	0.00	0.00
3,000.0	15.07	311.63	2,941.6	315.3	-354.8	-264.1	0.00	0.00	0.00
3,100.0	15.07	311.63	3,038.1	332.6	-374.2	-278.6	0.00	0.00	0.00
3,200.0	15.07	311.63	3,134.7	349.9	-393.6	-293.0	0.00	0.00	0.00
3,300.0	15.07	311.63	3,231.3	367.2	-413.1	-307.5	0.00	0.00	0.00
3,400.0	15.07	311.63	3,327.8	384.4	-432.5	-322.0	0.00	0.00	0.00
3,418.8	15.07	311.63	3,346.0	387.7	-436.2	-324.7	0.00	0.00	0.00
PARKMAN									
3,500.0	15.07	311.63	3,424.4	401.7	-451.9	-336.4	0.00	0.00	0.00
3,600.0	15.07	311.63	3,520.9	419.0	-471.4	-350.9	0.00	0.00	0.00
3,700.0	15.07	311.63	3,617.5	436.3	-490.8	-365.4	0.00	0.00	0.00
3,800.0	15.07	311.63	3,714.1	453.5	-510.3	-379.8	0.00	0.00	0.00
3,900.0	15.07	311.63	3,810.6	470.8	-529.7	-394.3	0.00	0.00	0.00
4,000.0	15.07	311.63	3,907.2	488.1	-549.1	-408.8	0.00	0.00	0.00
4,100.0	15.07	311.63	4,003.7	505.4	-568.6	-423.2	0.00	0.00	0.00
4,200.0	15.07	311.63	4,100.3	522.6	-588.0	-437.7	0.00	0.00	0.00
4,205.9	15.07	311.63	4,106.0	523.7	-589.1	-438.6	0.00	0.00	0.00
SUSSEX									
4,300.0	15.07	311.63	4,196.9	539.9	-607.4	-452.2	0.00	0.00	0.00
4,360.3	15.07	311.63	4,255.1	550.3	-619.1	-460.9	0.00	0.00	0.00
4,400.0	14.28	311.63	4,293.5	557.0	-626.7	-466.5	2.00	-2.00	0.00

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Site:	Antelope F-18 Pad Sec.18-T5N-R62W	North Reference:	True
Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (6-11-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0	12.28	311.63	4,390.8	572.3	-643.8	-479.3	2.00	-2.00	0.00
4,600.0	10.28	311.63	4,488.9	585.3	-658.4	-490.2	2.00	-2.00	0.00
4,700.0	8.28	311.63	4,587.6	596.0	-670.5	-499.1	2.00	-2.00	0.00
4,800.0	6.28	311.63	4,686.8	604.4	-680.0	-506.2	2.00	-2.00	0.00
4,900.0	4.28	311.63	4,786.3	610.5	-686.8	-511.3	2.00	-2.00	0.00
5,000.0	2.28	311.63	4,886.2	614.3	-691.1	-514.5	2.00	-2.00	0.00
5,100.0	0.28	311.63	4,986.1	615.8	-692.8	-515.7	2.00	-2.00	0.00
5,113.9	0.00	0.00	5,000.0	615.8	-692.8	-515.7	2.00	-2.00	0.00
5,200.0	0.00	0.00	5,086.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,186.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,286.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,386.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,486.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,586.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,686.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,786.1	615.8	-692.8	-515.7	0.00	0.00	0.00
5,942.0	0.00	0.00	5,828.1	615.8	-692.8	-515.7	0.00	0.00	0.00
KOP #2									
6,000.0	6.38	178.84	5,886.0	612.6	-692.7	-512.6	11.00	11.00	0.00
6,100.0	17.38	178.84	5,983.7	592.0	-692.3	-492.2	11.00	11.00	0.00
6,200.0	28.38	178.84	6,075.7	553.2	-691.5	-453.9	11.00	11.00	0.00
6,300.0	39.38	178.84	6,158.6	497.6	-690.4	-398.9	11.00	11.00	0.00
6,328.3	42.50	178.84	6,180.0	479.0	-690.0	-380.6	11.00	11.00	0.00
SHARON SPRINGS									
6,400.0	50.38	178.84	6,229.4	427.1	-689.0	-329.3	11.00	11.00	0.00
6,442.3	55.04	178.84	6,255.0	393.4	-688.3	-296.1	11.00	11.00	0.00
NIOBRARA A CHALK									
6,469.6	58.03	178.84	6,270.0	370.8	-687.9	-273.7	11.00	11.00	0.00
NIOBRARA B MARL									
6,500.0	61.38	178.84	6,285.4	344.5	-687.3	-247.7	11.00	11.00	0.00
6,600.0	72.38	178.84	6,324.6	252.7	-685.5	-157.0	11.00	11.00	0.00
6,630.7	75.76	178.84	6,333.0	223.1	-684.9	-127.8	11.00	11.00	0.00
NIOBRARA B CHALK									
6,700.0	83.38	178.84	6,345.5	155.1	-683.5	-60.6	11.00	11.00	0.00
6,709.5	84.43	178.84	6,346.5	145.6	-683.3	-51.2	11.00	11.00	0.00
T1 460'FNL, 500'FWL									
6,760.2	90.00	178.84	6,349.0	95.0	-682.3	-1.2	11.00	11.00	0.00
NIOBRARA B TARGET - 7"									
6,800.0	90.00	178.84	6,349.0	55.2	-681.5	38.1	0.00	0.00	0.00
6,900.0	90.00	178.84	6,349.0	-44.8	-679.5	136.9	0.00	0.00	0.00
7,000.0	90.00	178.84	6,349.0	-144.7	-677.5	235.6	0.00	0.00	0.00
7,100.0	90.00	178.84	6,349.0	-244.7	-675.4	334.4	0.00	0.00	0.00
7,200.0	90.00	178.84	6,349.0	-344.7	-673.4	433.2	0.00	0.00	0.00
7,300.0	90.00	178.84	6,349.0	-444.7	-671.4	531.9	0.00	0.00	0.00
7,400.0	90.00	178.84	6,349.0	-544.7	-669.4	630.7	0.00	0.00	0.00
7,500.0	90.00	178.84	6,349.0	-644.6	-667.4	729.5	0.00	0.00	0.00
7,600.0	90.00	178.84	6,349.0	-744.6	-665.4	828.3	0.00	0.00	0.00
7,700.0	90.00	178.84	6,349.0	-844.6	-663.3	927.0	0.00	0.00	0.00
7,800.0	90.00	178.84	6,349.0	-944.6	-661.3	1,025.8	0.00	0.00	0.00
7,900.0	90.00	178.84	6,349.0	-1,044.6	-659.3	1,124.6	0.00	0.00	0.00
8,000.0	90.00	178.84	6,349.0	-1,144.5	-657.3	1,223.4	0.00	0.00	0.00
8,100.0	90.00	178.84	6,349.0	-1,244.5	-655.3	1,322.1	0.00	0.00	0.00
8,200.0	90.00	178.84	6,349.0	-1,344.5	-653.3	1,420.9	0.00	0.00	0.00

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Project:	SEC.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site:	Antelope F-18 Pad Sec.18-T5N-R62W	North Reference:	True
Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (6-11-12)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,300.0	90.00	178.84	6,349.0	-1,444.5	-651.2	1,519.7	0.00	0.00	0.00
8,400.0	90.00	178.84	6,349.0	-1,544.4	-649.2	1,618.5	0.00	0.00	0.00
8,500.0	90.00	178.84	6,349.0	-1,644.4	-647.2	1,717.2	0.00	0.00	0.00
8,600.0	90.00	178.84	6,349.0	-1,744.4	-645.2	1,816.0	0.00	0.00	0.00
8,700.0	90.00	178.84	6,349.0	-1,844.4	-643.2	1,914.8	0.00	0.00	0.00
8,800.0	90.00	178.84	6,349.0	-1,944.4	-641.2	2,013.6	0.00	0.00	0.00
8,900.0	90.00	178.84	6,349.0	-2,044.3	-639.1	2,112.3	0.00	0.00	0.00
9,000.0	90.00	178.84	6,349.0	-2,144.3	-637.1	2,211.1	0.00	0.00	0.00
9,100.0	90.00	178.84	6,349.0	-2,244.3	-635.1	2,309.9	0.00	0.00	0.00
9,200.0	90.00	178.84	6,349.0	-2,344.3	-633.1	2,408.7	0.00	0.00	0.00
9,300.0	90.00	178.84	6,349.0	-2,444.3	-631.1	2,507.4	0.00	0.00	0.00
9,400.0	90.00	178.84	6,349.0	-2,544.2	-629.1	2,606.2	0.00	0.00	0.00
9,500.0	90.00	178.84	6,349.0	-2,644.2	-627.1	2,705.0	0.00	0.00	0.00
9,600.0	90.00	178.84	6,349.0	-2,744.2	-625.0	2,803.8	0.00	0.00	0.00
9,700.0	90.00	178.84	6,349.0	-2,844.2	-623.0	2,902.5	0.00	0.00	0.00
9,800.0	90.00	178.84	6,349.0	-2,944.2	-621.0	3,001.3	0.00	0.00	0.00
9,900.0	90.00	178.84	6,349.0	-3,044.1	-619.0	3,100.1	0.00	0.00	0.00
10,000.0	90.00	178.84	6,349.0	-3,144.1	-617.0	3,198.8	0.00	0.00	0.00
10,100.0	90.00	178.84	6,349.0	-3,244.1	-615.0	3,297.6	0.00	0.00	0.00
10,200.0	90.00	178.84	6,349.0	-3,344.1	-612.9	3,396.4	0.00	0.00	0.00
10,300.0	90.00	178.84	6,349.0	-3,444.1	-610.9	3,495.2	0.00	0.00	0.00
10,400.0	90.00	178.84	6,349.0	-3,544.0	-608.9	3,593.9	0.00	0.00	0.00
10,500.0	90.00	178.84	6,349.0	-3,644.0	-606.9	3,692.7	0.00	0.00	0.00
10,600.0	90.00	178.84	6,349.0	-3,744.0	-604.9	3,791.5	0.00	0.00	0.00
10,700.0	90.00	178.84	6,349.0	-3,844.0	-602.9	3,890.3	0.00	0.00	0.00
10,800.0	90.00	178.84	6,349.0	-3,944.0	-600.8	3,989.0	0.00	0.00	0.00
10,900.0	90.00	178.84	6,349.0	-4,043.9	-598.8	4,087.8	0.00	0.00	0.00
11,000.0	90.00	178.84	6,349.0	-4,143.9	-596.8	4,186.6	0.00	0.00	0.00
11,100.0	90.00	178.84	6,349.0	-4,243.9	-594.8	4,285.4	0.00	0.00	0.00
11,173.2	90.00	178.84	6,349.0	-4,317.1	-593.3	4,357.7	0.00	0.00	0.00
BHL 460'FSL, 500'FWL									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
800.0	800.0	0.0	0.0	KOP #1	
5,942.0	5,828.1	615.8	-692.8	KOP #2	



BONANZA CREEK ENERGY OPERATING

SEC.18-T5N-R62W

Antelope F-18 Pad Sec.18-T5N-R62W

Antelope A-E-18HZ

Wellbore #1

Plan #1 (6-11-12)

Anticollision Report

20 June, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (6-11-12)		
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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 6/20/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,173.1	Plan #1 (6-11-12) (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
Antelope (Existing Wells) Pad Sec.8-T5N-R62W						
Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1	1,921.0	1,884.7	255.4	212.1	5.904	CC
Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1	2,000.0	1,961.0	256.2	211.0	5.672	ES
Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1	6,924.5	6,334.0	364.3	221.1	2.544	SF
Antelope 12-18 (Exist.) - Wellbore #1 - Wellbore #1	8,246.9	6,334.0	348.8	188.6	2.177	CC, ES, SF
Antelope 13-18 (Exist.) - Wellbore #1 - Wellbore #1	9,521.0	6,422.5	425.3	350.5	5.689	CC, ES
Antelope 13-18 (Exist.) - Wellbore #1 - Wellbore #1	9,600.0	6,423.1	432.5	356.3	5.675	SF
Antelope 14-18 (Exist.) - Wellbore #1 - Wellbore #1	10,832.8	6,418.3	433.4	334.8	4.398	CC, ES
Antelope 14-18 (Exist.) - Wellbore #1 - Wellbore #1	10,900.0	6,418.7	438.5	338.7	4.394	SF
Antelope D-18 Pad - Plans by another company						
Antelope D-18 COGCC Plan - Wellbore #1 - Wellbore #1	10,237.0	6,552.2	449.0	357.7	4.917	CC, ES
Antelope D-18 COGCC Plan - Wellbore #1 - Wellbore #1	10,300.0	6,552.2	453.4	360.9	4.901	SF
Antelope E-18 COGCC Plan - Wellbore #1 - Wellbore #1	11,173.2	6,539.4	610.7	502.9	5.665	CC, ES, SF
Antelope F-18 Pad Sec.18-T5N-R62W						
Antelope 11-14-18HZ - Wellbore #1 - Plan #1 (6-12-12)	800.0	800.0	18.2	14.8	5.403	CC, ES
Antelope 11-14-18HZ - Wellbore #1 - Plan #1 (6-12-12)	11,173.2	10,960.4	599.3	425.9	3.456	SF
Antelope F-J-18HZ - Wellbore #1 - Plan #1 (6-11-12)	600.0	600.0	21.9	19.4	8.841	CC, ES
Antelope F-J-18HZ - Wellbore #1 - Plan #1 (6-11-12)	700.0	699.4	23.2	20.3	7.955	SF
Antelope K-O-18HZ - Wellbore #1 - Plan #1 (6-11-12)	200.0	200.0	40.1	39.4	59.437	CC, ES
Antelope K-O-18HZ - Wellbore #1 - Plan #1 (6-11-12)	600.0	595.0	57.8	55.3	23.214	SF

Offset Design													
Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1													
Survey Program: 6349-UNKNOWN													
Reference													
Offset													
Semi Major Axis													
Distance													
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	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-101.13	-61.9	-314.7	321.1				
100.0	100.0	85.0	85.0	0.1	1.7	-101.13	-61.9	-314.7	320.7	318.9	1.81	176.954	
200.0	200.0	185.0	185.0	0.3	3.7	-101.13	-61.9	-314.7	320.7	316.7	4.04	79.444	
300.0	300.0	285.0	285.0	0.6	5.7	-101.13	-61.9	-314.7	320.7	314.5	6.26	51.220	
400.0	400.0	385.0	385.0	0.8	7.7	-101.13	-61.9	-314.7	320.7	312.3	8.49	37.793	
500.0	500.0	485.0	485.0	1.0	9.7	-101.13	-61.9	-314.7	320.7	310.0	10.71	29.943	
600.0	600.0	585.0	585.0	1.2	11.7	-101.13	-61.9	-314.7	320.7	307.8	12.94	24.794	
700.0	700.0	685.0	685.0	1.5	13.7	-101.13	-61.9	-314.7	320.7	305.6	15.16	21.156	

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

Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:		0.0 ft
Survey Program: 6349-UNKNOWN											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
800.0	800.0	785.0	785.0	1.7	15.7	-101.13	-61.9	-314.7	320.7	303.4	17.39	18.448	
900.0	900.0	885.0	885.0	1.9	17.7	-53.03	-61.9	-314.7	319.7	300.1	19.60	16.310	
1,000.0	999.8	984.8	984.8	2.1	19.7	-53.84	-61.9	-314.7	316.6	294.8	21.80	14.520	
1,100.0	1,099.5	1,084.5	1,084.5	2.4	21.7	-55.21	-61.9	-314.7	311.5	287.5	24.00	12.980	
1,200.0	1,198.7	1,183.7	1,183.7	2.6	23.7	-57.20	-61.9	-314.7	304.7	278.5	26.19	11.632	
1,300.0	1,297.5	1,282.5	1,282.5	2.9	25.6	-59.86	-61.9	-314.7	296.4	268.0	28.40	10.436	
1,400.0	1,395.6	1,380.6	1,380.6	3.2	27.6	-63.27	-61.9	-314.7	287.2	256.6	30.65	9.370	
1,500.0	1,493.1	1,478.1	1,478.1	3.6	29.6	-67.51	-61.9	-314.7	277.6	244.7	32.96	8.424	
1,553.6	1,544.9	1,529.9	1,529.9	3.8	30.6	-70.14	-61.9	-314.7	272.6	238.4	34.23	7.965	
1,600.0	1,589.7	1,574.7	1,574.7	4.0	31.5	-72.49	-61.9	-314.7	268.7	233.3	35.36	7.598	
1,700.0	1,686.3	1,671.3	1,671.3	4.5	33.4	-77.74	-61.9	-314.7	261.7	223.9	37.81	6.922	
1,800.0	1,782.9	1,767.9	1,767.9	5.0	35.4	-83.22	-61.9	-314.7	257.3	217.0	40.28	6.387	
1,900.0	1,879.4	1,864.4	1,864.4	5.5	37.3	-88.82	-61.9	-314.7	255.4	212.7	42.74	5.976	
1,921.0	1,899.7	1,884.7	1,884.7	5.6	37.7	-90.00	-61.9	-314.7	255.4	212.1	43.25	5.904 CC	
2,000.0	1,976.0	1,961.0	1,961.0	6.0	39.2	-94.44	-61.9	-314.7	256.2	211.0	45.17	5.672 ES	
2,100.0	2,072.5	2,057.5	2,057.5	6.5	41.2	-99.98	-61.9	-314.7	259.6	212.0	47.55	5.459	
2,200.0	2,169.1	2,154.1	2,154.1	7.0	43.1	-105.34	-61.9	-314.7	265.5	215.6	49.88	5.322	
2,300.0	2,265.7	2,250.7	2,250.7	7.5	45.0	-110.44	-61.9	-314.7	273.7	221.6	52.15	5.249	
2,400.0	2,362.2	2,347.2	2,347.2	8.0	46.9	-115.22	-61.9	-314.7	284.1	229.8	54.36	5.227	
2,500.0	2,458.8	2,443.8	2,443.8	8.6	48.9	-119.65	-61.9	-314.7	296.4	239.9	56.53	5.244	
2,600.0	2,555.3	2,540.3	2,540.3	9.1	50.8	-123.73	-61.9	-314.7	310.5	251.8	58.65	5.293	
2,700.0	2,651.9	2,636.9	2,636.9	9.6	52.7	-127.45	-61.9	-314.7	326.0	265.2	60.75	5.366	
2,800.0	2,748.5	2,733.5	2,733.5	10.2	54.7	-130.84	-61.9	-314.7	342.7	279.9	62.83	5.455	
2,900.0	2,845.0	2,830.0	2,830.0	10.7	56.6	-133.91	-61.9	-314.7	360.6	295.7	64.89	5.557	
3,000.0	2,941.6	2,926.6	2,926.6	11.2	58.5	-136.69	-61.9	-314.7	379.4	312.5	66.94	5.668	
3,100.0	3,038.1	3,023.1	3,023.1	11.8	60.5	-139.22	-61.9	-314.7	399.0	330.0	68.99	5.784	
3,200.0	3,134.7	3,119.7	3,119.7	12.3	62.4	-141.51	-61.9	-314.7	419.3	348.3	71.04	5.903	
3,300.0	3,231.3	3,216.3	3,216.3	12.9	64.3	-143.59	-61.9	-314.7	440.2	367.1	73.09	6.023	
3,400.0	3,327.8	3,312.8	3,312.8	13.4	66.3	-145.49	-61.9	-314.7	461.7	386.5	75.14	6.144	
3,500.0	3,424.4	3,409.4	3,409.4	13.9	68.2	-147.21	-61.9	-314.7	483.5	406.3	77.19	6.264	
3,600.0	3,520.9	3,505.9	3,505.9	14.5	70.1	-148.80	-61.9	-314.7	505.8	426.5	79.25	6.382	
3,700.0	3,617.5	3,602.5	3,602.5	15.0	72.1	-150.24	-61.9	-314.7	528.4	447.1	81.31	6.498	
3,800.0	3,714.1	3,699.1	3,699.1	15.6	74.0	-151.58	-61.9	-314.7	551.3	467.9	83.38	6.612	
3,900.0	3,810.6	3,795.6	3,795.6	16.1	75.9	-152.80	-61.9	-314.7	574.5	489.0	85.45	6.723	
4,000.0	3,907.2	3,892.2	3,892.2	16.7	77.8	-153.93	-61.9	-314.7	597.9	510.4	87.53	6.831	
4,100.0	4,003.7	3,988.7	3,988.7	17.2	79.8	-154.98	-61.9	-314.7	621.5	531.9	89.61	6.936	
4,200.0	4,100.3	4,085.3	4,085.3	17.8	81.7	-155.95	-61.9	-314.7	645.3	553.6	91.69	7.038	
4,300.0	4,196.9	4,181.9	4,181.9	18.3	83.6	-156.85	-61.9	-314.7	669.3	575.5	93.78	7.137	
4,360.3	4,255.1	4,240.1	4,240.1	18.6	84.8	-157.37	-61.9	-314.7	683.8	588.7	95.04	7.195	
4,400.0	4,293.5	4,278.5	4,278.5	18.8	85.6	-157.76	-61.9	-314.7	693.1	597.0	96.11	7.212	
4,500.0	4,390.8	4,375.8	4,375.8	19.2	87.5	-158.61	-61.9	-314.7	714.5	615.8	98.74	7.236	
4,600.0	4,488.9	4,473.9	4,473.9	19.6	89.5	-159.30	-61.9	-314.7	732.8	631.5	101.33	7.232	
4,700.0	4,587.6	4,572.6	4,572.6	19.9	91.5	-159.84	-61.9	-314.7	747.9	644.1	103.86	7.201	
4,800.0	4,686.8	4,671.8	4,671.8	20.1	93.4	-160.25	-61.9	-314.7	759.9	653.5	106.32	7.147	
4,900.0	4,786.3	4,771.3	4,771.3	20.3	95.4	-160.54	-61.9	-314.7	768.5	659.9	108.68	7.072	
5,000.0	4,886.2	4,871.2	4,871.2	20.5	97.4	-160.72	-61.9	-314.7	773.9	663.0	110.94	6.976	
5,100.0	4,986.1	4,971.1	4,971.1	20.6	99.4	-160.79	-61.9	-314.7	776.0	662.9	113.09	6.862	
5,113.9	5,000.0	4,985.0	4,985.0	20.6	99.7	150.84	-61.9	-314.7	776.1	662.6	113.51	6.837	
5,200.0	5,086.1	5,071.1	5,071.1	20.7	101.4	150.84	-61.9	-314.7	776.1	660.7	115.37	6.727	
5,300.0	5,186.1	5,171.1	5,171.1	20.8	103.4	150.84	-61.9	-314.7	776.1	658.5	117.54	6.603	
5,400.0	5,286.1	5,271.1	5,271.1	21.0	105.4	150.84	-61.9	-314.7	776.1	656.4	119.71	6.483	
5,500.0	5,386.1	5,371.1	5,371.1	21.1	107.4	150.84	-61.9	-314.7	776.1	654.2	121.89	6.367	

Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 11-18 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6349-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,600.0	5,486.1	5,471.1	5,471.1	21.2	109.4	150.84	-61.9	-314.7	776.1	652.0	124.06	6.256	
5,700.0	5,586.1	5,571.1	5,571.1	21.3	111.4	150.84	-61.9	-314.7	776.1	649.8	126.24	6.148	
5,800.0	5,686.1	5,671.1	5,671.1	21.4	113.4	150.84	-61.9	-314.7	776.1	647.6	128.41	6.043	
5,900.0	5,786.1	5,771.1	5,771.1	21.6	115.4	150.84	-61.9	-314.7	776.1	645.5	130.59	5.943	
5,942.0	5,828.1	5,813.1	5,813.1	21.6	116.3	150.84	-61.9	-314.7	776.1	644.6	131.51	5.901	
5,950.0	5,836.1	5,821.1	5,821.1	21.6	116.4	-28.01	-61.9	-314.7	776.0	644.5	131.52	5.900	
6,000.0	5,886.0	5,871.0	5,871.0	21.7	117.4	-28.26	-61.9	-314.7	773.2	641.4	131.78	5.868	
6,050.0	5,935.4	5,920.4	5,920.4	21.7	118.4	-28.91	-61.9	-314.7	766.2	635.2	131.05	5.847	
6,100.0	5,983.7	5,968.7	5,968.7	21.6	119.4	-29.99	-61.9	-314.7	755.1	625.7	129.42	5.835	
6,150.0	6,030.6	6,015.6	6,015.6	21.5	120.3	-31.54	-61.9	-314.7	740.1	613.1	127.05	5.825	
6,200.0	6,075.7	6,060.7	6,060.7	21.4	121.2	-33.63	-61.9	-314.7	721.4	597.2	124.23	5.807	
6,250.0	6,118.5	6,103.5	6,103.5	21.3	122.1	-36.33	-61.9	-314.7	699.2	577.8	121.38	5.760	
6,300.0	6,158.6	6,143.6	6,143.6	21.1	122.9	-39.74	-61.9	-314.7	673.9	554.8	119.11	5.658	
6,350.0	6,195.7	6,180.7	6,180.7	21.0	123.6	-43.95	-61.9	-314.7	646.0	527.9	118.11	5.469	
6,400.0	6,229.4	6,214.4	6,214.4	20.8	124.3	-49.01	-61.9	-314.7	615.8	496.8	119.04	5.173	
6,450.0	6,259.3	6,244.3	6,244.3	20.6	124.9	-54.90	-61.9	-314.7	584.1	461.9	122.15	4.782	
6,500.0	6,285.4	6,270.4	6,270.4	20.4	125.4	-61.45	-61.9	-314.7	551.4	424.4	126.99	4.342	
6,550.0	6,307.2	6,292.2	6,292.2	20.2	125.8	-68.32	-61.9	-314.7	518.5	386.1	132.42	3.915	
6,600.0	6,324.6	6,309.6	6,309.6	20.0	126.2	-75.02	-61.9	-314.7	486.3	349.1	137.17	3.545	
6,650.0	6,337.4	6,322.4	6,322.4	19.8	126.4	-81.04	-61.9	-314.7	455.7	315.3	140.42	3.245	
6,700.0	6,345.5	6,330.5	6,330.5	19.6	126.6	-85.94	-61.9	-314.7	427.9	285.8	142.10	3.011	
6,750.0	6,348.9	6,333.9	6,333.9	19.4	126.7	-89.46	-61.9	-314.7	404.0	261.3	142.68	2.831	
6,760.2	6,349.0	6,334.0	6,334.0	19.4	126.7	-90.00	-61.9	-314.7	399.7	257.0	142.72	2.801	
6,800.0	6,349.0	6,334.0	6,334.0	19.3	126.7	-90.00	-61.9	-314.7	385.0	242.3	142.78	2.697	
6,900.0	6,349.0	6,334.0	6,334.0	19.0	126.7	-90.00	-61.9	-314.7	365.2	222.1	143.08	2.552	
6,924.5	6,349.0	6,334.0	6,334.0	19.0	126.7	-90.00	-61.9	-314.7	364.3	221.1	143.20	2.544 SF	
7,000.0	6,349.0	6,334.0	6,334.0	18.9	126.7	-90.00	-61.9	-314.7	372.1	228.5	143.60	2.591	
7,100.0	6,349.0	6,334.0	6,334.0	19.1	126.7	-90.00	-61.9	-314.7	404.4	260.1	144.31	2.802	
7,200.0	6,349.0	6,334.0	6,334.0	19.7	126.7	-90.00	-61.9	-314.7	456.8	311.6	145.20	3.146	
7,300.0	6,349.0	6,334.0	6,334.0	20.7	126.7	-90.00	-61.9	-314.7	523.2	377.0	146.24	3.578	
7,400.0	6,349.0	6,334.0	6,334.0	21.8	126.7	-90.00	-61.9	-314.7	599.0	451.6	147.40	4.064	
7,500.0	6,349.0	6,334.0	6,334.0	23.1	126.7	-90.00	-61.9	-314.7	681.1	532.4	148.68	4.581	
7,600.0	6,349.0	6,334.0	6,334.0	24.4	126.7	-90.00	-61.9	-314.7	767.5	617.4	150.04	5.115	
7,700.0	6,349.0	6,334.0	6,334.0	25.9	126.7	-90.00	-61.9	-314.7	856.8	705.3	151.48	5.656	
7,800.0	6,349.0	6,334.0	6,334.0	27.4	126.7	-90.00	-61.9	-314.7	948.3	795.3	152.98	6.198	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 12-18 (Exist.) - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 ft
Survey Program: 6349-UNKNOWN													
Reference		Offset		Semi Major Axis			Distance						
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	Warning
7,400.0	6,349.0	6,334.0	6,334.0	21.8	126.7	-90.00	-1,384.4	-303.6	915.9	768.5	147.40	6.214	
7,500.0	6,349.0	6,334.0	6,334.0	23.1	126.7	-90.00	-1,384.4	-303.6	824.4	675.7	148.68	5.545	
7,600.0	6,349.0	6,334.0	6,334.0	24.4	126.7	-90.00	-1,384.4	-303.6	735.0	584.9	150.04	4.899	
7,700.0	6,349.0	6,334.0	6,334.0	25.9	126.7	-90.00	-1,384.4	-303.6	648.7	497.2	151.48	4.282	
7,800.0	6,349.0	6,334.0	6,334.0	27.4	126.7	-90.00	-1,384.4	-303.6	566.9	414.0	152.98	3.706	
7,900.0	6,349.0	6,334.0	6,334.0	28.9	126.7	-90.00	-1,384.4	-303.6	492.0	337.4	154.54	3.183	
8,000.0	6,349.0	6,334.0	6,334.0	30.5	126.7	-90.00	-1,384.4	-303.6	427.4	271.2	156.14	2.737	
8,100.0	6,349.0	6,334.0	6,334.0	32.1	126.7	-90.00	-1,384.4	-303.6	378.5	220.7	157.77	2.399	
8,200.0	6,349.0	6,334.0	6,334.0	33.7	126.7	-90.00	-1,384.4	-303.6	351.9	192.5	159.44	2.207	
8,246.9	6,349.0	6,334.0	6,334.0	34.5	126.7	-90.00	-1,384.4	-303.6	348.8	188.6	160.24	2.177	CC, ES, SF
8,300.0	6,349.0	6,334.0	6,334.0	35.4	126.7	-90.00	-1,384.4	-303.6	352.8	191.7	161.14	2.190	
8,400.0	6,349.0	6,334.0	6,334.0	37.1	126.7	-90.00	-1,384.4	-303.6	380.9	218.1	162.86	2.339	
8,500.0	6,349.0	6,334.0	6,334.0	38.8	126.7	-90.00	-1,384.4	-303.6	430.9	266.3	164.60	2.618	
8,600.0	6,349.0	6,334.0	6,334.0	40.5	126.7	-90.00	-1,384.4	-303.6	496.3	330.0	166.36	2.983	
8,700.0	6,349.0	6,334.0	6,334.0	42.3	126.7	-90.00	-1,384.4	-303.6	571.8	403.7	168.13	3.401	
8,800.0	6,349.0	6,334.0	6,334.0	44.1	126.7	-90.00	-1,384.4	-303.6	653.9	484.0	169.91	3.848	
8,900.0	6,349.0	6,334.0	6,334.0	45.8	126.7	-90.00	-1,384.4	-303.6	740.4	568.7	171.71	4.312	
9,000.0	6,349.0	6,334.0	6,334.0	47.6	126.7	-90.00	-1,384.4	-303.6	829.9	656.4	173.52	4.783	
9,100.0	6,349.0	6,334.0	6,334.0	49.4	126.7	-90.00	-1,384.4	-303.6	921.6	746.3	175.34	5.256	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design		Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 13-18 (Exist.) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft
Survey Program: 469-MWD												Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
8,700.0	6,349.0	6,416.3	6,329.4	42.3	21.1	-89.38	-2,656.6	-201.4	924.6	864.8	59.74	15.476	5.689 CC, ES 5.675 SF	
8,800.0	6,349.0	6,417.0	6,330.1	44.1	21.1	-89.47	-2,656.6	-201.4	837.1	775.5	61.54	13.602		
8,900.0	6,349.0	6,417.8	6,330.8	45.8	21.1	-89.57	-2,656.6	-201.4	752.6	689.3	63.35	11.882		
9,000.0	6,349.0	6,418.5	6,331.6	47.6	21.1	-89.68	-2,656.6	-201.4	672.5	607.4	65.16	10.321		
9,100.0	6,349.0	6,419.3	6,332.3	49.4	21.1	-89.78	-2,656.6	-201.4	598.4	531.4	66.99	8.933		
9,200.0	6,349.0	6,420.0	6,333.1	51.2	21.1	-89.88	-2,656.6	-201.4	532.8	464.0	68.82	7.742		
9,300.0	6,349.0	6,420.8	6,333.9	53.0	21.1	-89.98	-2,656.6	-201.4	479.3	408.6	70.66	6.782		
9,400.0	6,349.0	6,421.6	6,334.6	54.9	21.1	-90.08	-2,656.6	-201.5	442.1	369.6	72.51	6.098		
9,500.0	6,349.0	6,422.3	6,335.4	56.7	21.2	-90.19	-2,656.7	-201.5	425.8	351.4	74.36	5.726		
9,521.0	6,349.0	6,422.5	6,335.6	57.1	21.2	-90.21	-2,656.7	-201.5	425.3	350.5	74.75			
9,600.0	6,349.0	6,423.1	6,336.2	58.5	21.2	-90.29	-2,656.7	-201.5	432.5	356.3	76.22			
9,700.0	6,349.0	6,423.9	6,337.0	60.4	21.2	-90.40	-2,656.7	-201.5	461.4	383.3	78.08	5.909		
9,800.0	6,349.0	6,424.7	6,337.7	62.2	21.2	-90.50	-2,656.7	-201.5	508.6	428.7	79.95	6.362		
9,900.0	6,349.0	6,425.5	6,338.5	64.1	21.2	-90.61	-2,656.7	-201.5	569.6	487.8	81.82	6.962		
10,000.0	6,349.0	6,426.2	6,339.3	65.9	21.2	-90.72	-2,656.7	-201.5	640.5	556.8	83.70	7.653		
10,100.0	6,349.0	6,427.0	6,340.1	67.8	21.2	-90.82	-2,656.7	-201.5	718.4	632.8	85.57	8.395		
10,200.0	6,349.0	6,427.8	6,340.9	69.6	21.2	-90.93	-2,656.7	-201.5	801.2	713.7	87.45	9.161		
10,300.0	6,349.0	6,428.7	6,341.7	71.5	21.2	-91.04	-2,656.7	-201.5	887.5	798.2	89.34	9.934		
10,400.0	6,349.0	6,429.0	6,342.1	73.4	21.2	-91.09	-2,656.7	-201.5	976.4	885.2	91.22	10.704		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design Antelope (Existing Wells) Pad Sec.8-T5N-R62W - Antelope 14-18 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 439-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
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	Warning
10,000.0	6,349.0	6,413.7	6,332.0	65.9	20.4	-89.73	-3,968.0	-166.9	938.8	856.0	82.81	11.337	
10,100.0	6,349.0	6,414.3	6,332.5	67.8	20.4	-89.81	-3,968.0	-166.9	851.3	766.6	84.69	10.053	
10,200.0	6,349.0	6,414.8	6,333.1	69.6	20.4	-89.88	-3,968.0	-166.9	766.9	680.4	86.57	8.859	
10,300.0	6,349.0	6,415.4	6,333.7	71.5	20.4	-89.96	-3,968.0	-166.9	686.8	598.3	88.45	7.764	
10,400.0	6,349.0	6,415.9	6,334.2	73.4	20.4	-90.03	-3,968.0	-166.9	612.4	522.1	90.34	6.780	
10,500.0	6,349.0	6,416.5	6,334.8	75.2	20.4	-90.10	-3,968.0	-166.9	546.4	454.2	92.22	5.924	
10,600.0	6,349.0	6,417.0	6,335.3	77.1	20.4	-90.18	-3,968.0	-166.9	491.9	397.8	94.12	5.227	
10,700.0	6,349.0	6,417.6	6,335.9	79.0	20.4	-90.25	-3,968.0	-166.9	453.2	357.2	96.01	4.721	
10,800.0	6,349.0	6,418.2	6,336.4	80.9	20.4	-90.32	-3,968.0	-166.9	434.6	336.7	97.90	4.439	
10,832.8	6,349.0	6,418.3	6,336.6	81.5	20.4	-90.35	-3,968.0	-166.9	433.4	334.8	98.52	4.398 CC, ES	
10,900.0	6,349.0	6,418.7	6,337.0	82.8	20.4	-90.40	-3,968.0	-166.9	438.5	338.7	99.80	4.394 SF	
11,000.0	6,349.0	6,419.3	6,337.6	84.6	20.4	-90.47	-3,968.0	-166.9	464.5	362.8	101.70	4.568	
11,100.0	6,349.0	6,419.8	6,338.1	86.5	20.4	-90.54	-3,968.0	-166.9	509.1	405.5	103.60	4.915	
11,173.2	6,349.0	6,420.2	6,338.5	87.9	20.4	-90.60	-3,968.0	-166.9	551.1	446.1	104.99	5.249	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design												Antelope D-18 Pad - Plans by another company - Antelope D-18 COGCC Plan - Wellbore #1 - Wellbore	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		
9,400.0	6,349.0	6,552.2	6,328.0	54.9	32.4	90.00	-3,390.2	-1,061.1	949.9	874.1	75.74	12.542		
9,500.0	6,349.0	6,552.2	6,328.0	56.7	32.4	90.00	-3,390.2	-1,061.1	863.0	785.5	77.58	11.124		
9,600.0	6,349.0	6,552.2	6,328.0	58.5	32.4	90.00	-3,390.2	-1,061.1	779.4	699.9	79.43	9.812		
9,700.0	6,349.0	6,552.2	6,328.0	60.4	32.4	90.00	-3,390.2	-1,061.1	700.0	618.7	81.29	8.611		
9,800.0	6,349.0	6,552.2	6,328.0	62.2	32.4	90.00	-3,390.2	-1,061.1	626.6	543.4	83.15	7.535		
9,900.0	6,349.0	6,552.2	6,328.0	64.1	32.4	90.00	-3,390.2	-1,061.1	561.4	476.4	85.02	6.604		
10,000.0	6,349.0	6,552.2	6,328.0	65.9	32.4	90.00	-3,390.2	-1,061.1	507.7	420.9	86.89	5.844		
10,100.0	6,349.0	6,552.2	6,328.0	67.8	32.4	90.00	-3,390.2	-1,061.1	469.5	380.7	88.76	5.289		
10,200.0	6,349.0	6,552.2	6,328.0	69.6	32.4	90.00	-3,390.2	-1,061.1	450.5	359.9	90.63	4.971		
10,237.0	6,349.0	6,552.2	6,328.0	70.3	32.4	90.00	-3,390.2	-1,061.1	449.0	357.7	91.33	4.917 CC, ES		
10,300.0	6,349.0	6,552.2	6,328.0	71.5	32.4	90.00	-3,390.2	-1,061.1	453.4	360.9	92.51	4.901 SF		
10,400.0	6,349.0	6,552.2	6,328.0	73.4	32.4	90.00	-3,390.2	-1,061.1	477.7	383.3	94.39	5.061		
10,500.0	6,349.0	6,552.2	6,328.0	75.2	32.4	90.00	-3,390.2	-1,061.1	520.4	424.1	96.28	5.405		
10,600.0	6,349.0	6,552.2	6,328.0	77.1	32.4	90.00	-3,390.2	-1,061.1	577.4	479.2	98.16	5.882		
10,700.0	6,349.0	6,552.2	6,328.0	79.0	32.4	90.00	-3,390.2	-1,061.1	645.0	544.9	100.05	6.446		
10,800.0	6,349.0	6,552.2	6,328.0	80.9	32.4	90.00	-3,390.2	-1,061.1	720.1	618.2	101.94	7.064		
10,900.0	6,349.0	6,552.2	6,328.0	82.8	32.4	90.00	-3,390.2	-1,061.1	800.7	696.9	103.83	7.712		
11,000.0	6,349.0	6,552.2	6,328.0	84.6	32.4	90.00	-3,390.2	-1,061.1	885.3	779.6	105.73	8.374		
11,100.0	6,349.0	6,552.2	6,328.0	86.5	32.4	90.00	-3,390.2	-1,061.1	972.8	865.2	107.62	9.039		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design Antelope D-18 Pad - Plans by another company - Antelope E-18 COGCC Plan - Wellbore #1 - Wellbore												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
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	Warning
10,700.0	6,349.0	6,539.4	6,328.0	79.0	31.8	90.00	-4,739.7	-1,034.2	994.2	895.3	98.85	10.057	
10,800.0	6,349.0	6,539.4	6,328.0	80.9	31.8	90.00	-4,739.7	-1,034.2	906.1	805.3	100.74	8.994	
10,900.0	6,349.0	6,539.4	6,328.0	82.8	31.8	90.00	-4,739.7	-1,034.2	820.7	718.1	102.63	7.997	
11,000.0	6,349.0	6,539.4	6,328.0	84.6	31.8	90.00	-4,739.7	-1,034.2	739.1	634.6	104.52	7.071	
11,100.0	6,349.0	6,539.4	6,328.0	86.5	31.8	90.00	-4,739.7	-1,034.2	662.5	556.1	106.42	6.225	
11,173.2	6,349.0	6,539.4	6,328.0	87.9	31.8	90.00	-4,739.7	-1,034.2	610.7	502.9	107.81	5.665 CC, ES, SF	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design Antelope F-18 Pad Sec.18-T5N-R62W - Antelope 11-14-18HZ - Wellbore #1 - Plan #1 (6-12-12)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-18.2	0.0	18.2	18.2	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-18.2	0.0	18.2	18.0	0.22	81.043		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-18.2	0.0	18.2	17.5	0.67	27.014		
300.0	300.0	300.0	300.0	0.6	0.6	180.00	-18.2	0.0	18.2	17.1	1.12	16.209		
400.0	400.0	400.0	400.0	0.8	0.8	180.00	-18.2	0.0	18.2	16.6	1.57	11.578		
500.0	500.0	500.0	500.0	1.0	1.0	180.00	-18.2	0.0	18.2	16.2	2.02	9.005		
600.0	600.0	600.0	600.0	1.2	1.2	180.00	-18.2	0.0	18.2	15.7	2.47	7.368		
700.0	700.0	700.0	700.0	1.5	1.5	180.00	-18.2	0.0	18.2	15.3	2.92	6.234		
800.0	800.0	800.0	800.0	1.7	1.7	180.00	-18.2	0.0	18.2	14.8	3.37	5.403 CC, ES		
900.0	900.0	900.0	900.0	1.9	1.9	-135.47	-18.2	0.0	19.4	15.6	3.82	5.087		
1,000.0	999.8	999.8	999.8	2.1	2.1	-144.42	-18.2	0.0	23.4	19.2	4.26	5.501		
1,100.0	1,099.5	1,099.5	1,099.5	2.4	2.4	-153.78	-18.2	0.0	31.0	26.2	4.70	6.580		
1,200.0	1,198.7	1,198.7	1,198.7	2.6	2.6	-161.02	-18.2	0.0	42.2	37.1	5.14	8.213		
1,300.0	1,297.5	1,297.5	1,297.5	2.9	2.8	-166.04	-18.2	0.0	57.3	51.7	5.58	10.268		
1,400.0	1,395.6	1,395.6	1,395.6	3.2	3.0	-169.45	-18.2	0.0	75.9	69.9	6.01	12.641		
1,500.0	1,493.1	1,493.1	1,493.1	3.6	3.2	-171.79	-18.2	0.0	98.1	91.7	6.43	15.256		
1,553.6	1,544.9	1,544.9	1,544.9	3.8	3.4	-172.74	-18.2	0.0	111.5	104.8	6.66	16.738		
1,600.0	1,589.7	1,589.7	1,589.7	4.0	3.5	-173.45	-18.2	0.0	123.5	116.6	6.87	17.963		
1,700.0	1,686.3	1,686.3	1,686.3	4.5	3.7	-174.58	-18.2	0.0	149.3	142.0	7.34	20.356		
1,800.0	1,782.9	1,782.9	1,782.9	5.0	3.9	-175.39	-18.2	0.0	175.3	167.4	7.80	22.454		
1,900.0	1,879.4	1,879.4	1,879.4	5.5	4.1	-175.98	-18.2	0.0	201.2	192.9	8.28	24.305		
2,000.0	1,976.0	1,976.0	1,976.0	6.0	4.3	-176.44	-18.2	0.0	227.1	218.4	8.75	25.948		
2,100.0	2,072.5	2,072.5	2,072.5	6.5	4.5	-176.81	-18.2	0.0	253.1	243.9	9.23	27.414		
2,200.0	2,169.1	2,169.1	2,169.1	7.0	4.8	-177.10	-18.2	0.0	279.1	269.4	9.71	28.729		
2,300.0	2,265.7	2,265.7	2,265.7	7.5	5.0	-177.35	-18.2	0.0	305.0	294.8	10.20	29.914		
2,400.0	2,362.2	2,362.2	2,362.2	8.0	5.2	-177.56	-18.2	0.0	331.0	320.3	10.68	30.987		
2,500.0	2,458.8	2,458.8	2,458.8	8.6	5.4	-177.74	-18.2	0.0	357.0	345.8	11.17	31.962		
2,600.0	2,555.3	2,555.3	2,555.3	9.1	5.6	-177.89	-18.2	0.0	383.0	371.3	11.66	32.852		
2,700.0	2,651.9	2,651.9	2,651.9	9.6	5.8	-178.02	-18.2	0.0	409.0	396.8	12.15	33.668		
2,800.0	2,748.5	2,748.5	2,748.5	10.2	6.1	-178.14	-18.2	0.0	435.0	422.3	12.64	34.418		
2,900.0	2,845.0	2,852.5	2,852.5	10.7	6.3	-178.28	-17.8	-0.2	460.6	447.4	13.14	35.043		
3,000.0	2,941.6	2,966.5	2,966.4	11.2	6.6	-178.64	-13.6	-1.6	483.3	469.6	13.67	35.368		
3,100.0	3,038.1	3,082.1	3,081.6	11.8	6.8	-179.21	-5.1	-4.5	502.6	488.4	14.19	35.420		
3,200.0	3,134.7	3,198.9	3,197.6	12.3	7.1	-179.99	8.0	-9.1	518.4	503.7	14.72	35.218		
3,300.0	3,231.3	3,313.6	3,310.8	12.9	7.4	179.04	25.1	-15.0	530.8	515.6	15.25	34.797		
3,400.0	3,327.8	3,412.6	3,408.4	13.4	7.6	178.17	41.3	-20.6	542.1	526.4	15.77	34.388		
3,500.0	3,424.4	3,511.6	3,505.9	13.9	7.9	177.34	57.5	-26.2	553.5	537.3	16.29	33.990		
3,600.0	3,520.9	3,610.6	3,603.4	14.5	8.1	176.54	73.6	-31.8	565.1	548.3	16.81	33.607		
3,700.0	3,617.5	3,709.7	3,701.0	15.0	8.4	175.77	89.8	-37.4	576.7	559.3	17.35	33.237		
3,800.0	3,714.1	3,808.7	3,798.5	15.6	8.7	175.03	106.0	-43.0	588.4	570.5	17.90	32.880		
3,900.0	3,810.6	3,907.7	3,896.0	16.1	9.0	174.32	122.1	-48.6	600.3	581.8	18.45	32.535		
4,000.0	3,907.2	4,006.8	3,993.6	16.7	9.3	173.64	138.3	-54.2	612.2	593.2	19.01	32.200		
4,100.0	4,003.7	4,105.8	4,091.1	17.2	9.6	172.98	154.5	-59.8	624.2	604.6	19.58	31.877		
4,200.0	4,100.3	4,204.8	4,188.7	17.8	9.9	172.35	170.6	-65.4	636.2	616.1	20.16	31.563		
4,300.0	4,196.9	4,303.8	4,286.2	18.3	10.3	171.74	186.8	-71.0	648.4	627.6	20.74	31.260		
4,360.3	4,255.1	4,363.5	4,345.0	18.6	10.5	171.38	196.6	-74.4	655.7	634.6	21.10	31.081		
4,400.0	4,293.5	4,402.9	4,383.8	18.8	10.6	171.16	203.0	-76.6	660.3	639.0	21.35	30.923		
4,500.0	4,390.8	4,502.2	4,481.6	19.2	10.9	170.59	219.2	-82.2	669.5	647.6	21.96	30.483		
4,600.0	4,488.9	4,601.7	4,579.6	19.6	11.3	169.96	235.5	-87.9	675.4	652.8	22.55	29.948		
4,700.0	4,587.6	4,701.4	4,677.8	19.9	11.6	169.29	251.7	-93.5	677.9	654.8	23.12	29.325		
4,800.0	4,686.8	4,801.0	4,775.9	20.1	11.9	168.54	268.0	-99.1	677.1	653.4	23.66	28.619		
4,900.0	4,786.3	4,900.4	4,873.8	20.3	12.3	167.72	284.2	-104.8	673.0	648.8	24.18	27.834		

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

Antelope F-18 Pad Sec.18-T5N-R62W - Antelope 11-14-18HZ - Wellbore #1 - Plan #1 (6-12-12)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,000.0	4,886.2	4,999.6	4,971.5	20.5	12.6	166.81	300.4	-110.4	665.6	641.0	24.68	26.972		
5,100.0	4,986.1	5,098.4	5,068.9	20.6	13.0	165.79	316.6	-116.0	655.1	629.9	25.16	26.035		
5,113.9	5,000.0	5,112.1	5,082.3	20.6	13.0	117.27	318.8	-116.7	653.3	628.2	25.11	26.023		
5,200.0	5,086.1	5,196.9	5,165.9	20.7	13.3	116.37	332.6	-121.5	642.6	617.0	25.59	25.109		
5,300.0	5,186.1	5,295.4	5,262.9	20.8	13.7	115.27	348.7	-127.1	630.3	604.1	26.18	24.075		
5,400.0	5,286.1	5,393.9	5,359.9	21.0	14.0	114.14	364.8	-132.7	618.2	591.4	26.78	23.082		
5,500.0	5,386.1	5,492.4	5,456.9	21.1	14.4	112.96	380.9	-138.2	606.4	579.0	27.40	22.129		
5,600.0	5,486.1	5,584.9	5,548.1	21.2	14.7	111.83	395.7	-143.4	595.1	567.1	27.99	21.260		
5,700.0	5,586.1	5,672.2	5,634.4	21.3	14.9	110.91	407.5	-147.4	585.8	557.3	28.50	20.554		
5,800.0	5,686.1	5,760.1	5,721.8	21.4	15.1	110.16	416.8	-150.7	578.6	549.6	28.97	19.971		
5,900.0	5,786.1	5,848.6	5,809.9	21.6	15.3	109.60	423.6	-153.0	573.5	544.0	29.41	19.500		
5,942.0	5,828.1	5,885.8	5,847.2	21.6	15.4	109.42	425.7	-153.8	571.9	542.3	29.58	19.334		
5,950.0	5,836.1	5,892.9	5,854.2	21.6	15.4	-69.48	426.1	-153.9	571.6	541.8	29.76	19.205		
6,000.0	5,886.0	5,937.2	5,898.4	21.7	15.5	-70.15	427.9	-154.5	569.2	539.3	29.91	19.026		
6,050.0	5,935.4	5,981.0	5,942.3	21.7	15.6	-71.28	429.0	-154.9	565.7	535.6	30.11	18.788		
6,100.0	5,983.7	6,024.1	5,985.4	21.6	15.6	-72.84	429.5	-155.1	561.3	530.9	30.35	18.493		
6,150.0	6,030.6	6,059.6	6,020.9	21.5	15.7	-74.49	429.0	-155.1	556.4	525.9	30.58	18.196		
6,200.0	6,075.7	6,091.8	6,052.8	21.4	15.7	-76.04	425.5	-155.0	552.0	521.3	30.76	17.949		
6,250.0	6,118.5	6,125.0	6,085.3	21.3	15.7	-77.58	418.8	-154.7	548.2	517.3	30.90	17.743		
6,300.0	6,158.6	6,159.6	6,118.3	21.1	15.7	-79.10	408.3	-154.4	544.9	513.9	30.99	17.583		
6,350.0	6,195.7	6,195.6	6,151.2	21.0	15.6	-80.57	393.9	-153.9	542.2	511.2	31.04	17.468		
6,400.0	6,229.4	6,233.0	6,183.6	20.8	15.5	-82.00	375.3	-153.3	540.2	509.1	31.04	17.402		
6,450.0	6,259.3	6,272.0	6,215.0	20.6	15.4	-83.34	352.1	-152.5	538.7	507.7	30.99	17.381		
6,500.0	6,285.4	6,312.6	6,244.5	20.4	15.3	-84.59	324.3	-151.5	537.7	506.8	30.90	17.400		
6,550.0	6,307.2	6,354.8	6,271.4	20.2	15.2	-85.71	291.8	-150.4	537.3	506.5	30.79	17.451		
6,589.8	6,321.4	6,389.5	6,290.3	20.0	15.1	-86.49	262.7	-149.4	537.1	506.5	30.69	17.503		
6,600.0	6,324.6	6,398.6	6,294.7	20.0	15.0	-86.68	254.7	-149.2	537.2	506.5	30.66	17.519		
6,650.0	6,337.4	6,443.9	6,313.5	19.8	14.9	-87.47	213.6	-147.8	537.4	506.8	30.55	17.590		
6,700.0	6,345.5	6,490.4	6,326.8	19.6	14.8	-88.06	169.1	-146.2	537.8	507.3	30.47	17.647		
6,750.0	6,348.9	6,537.8	6,333.9	19.4	14.7	-88.42	122.3	-144.7	538.3	507.9	30.46	17.674		
6,760.2	6,349.0	6,547.6	6,334.6	19.4	14.7	-88.46	112.6	-144.3	538.4	508.0	30.46	17.675		
6,800.0	6,349.0	6,587.7	6,334.0	19.3	14.6	-88.41	73.5	-143.0	539.0	508.5	30.51	17.667		
6,900.0	6,349.0	6,687.6	6,334.0	19.0	14.7	-88.41	-26.4	-139.6	540.4	509.4	30.97	17.447		
7,000.0	6,349.0	6,787.6	6,334.0	18.9	15.1	-88.41	-126.3	-136.2	541.8	509.9	31.89	16.987		
7,100.0	6,349.0	6,887.6	6,334.0	19.1	15.7	-88.42	-226.3	-132.8	543.2	509.9	33.24	16.340		
7,200.0	6,349.0	6,987.6	6,334.0	19.7	16.6	-88.42	-326.2	-129.4	544.5	509.6	34.97	15.573		
7,300.0	6,349.0	7,087.6	6,334.0	20.7	17.6	-88.43	-426.1	-126.0	545.9	508.9	37.02	14.748		
7,400.0	6,349.0	7,187.6	6,334.0	21.8	18.8	-88.43	-526.1	-122.6	547.3	507.9	39.34	13.911		
7,500.0	6,349.0	7,287.6	6,334.0	23.1	20.0	-88.43	-626.0	-119.2	548.7	506.8	41.89	13.096		
7,600.0	6,349.0	7,387.6	6,334.0	24.4	21.4	-88.44	-725.9	-115.8	550.0	505.4	44.64	12.323		
7,700.0	6,349.0	7,487.6	6,334.0	25.9	22.9	-88.44	-825.9	-112.4	551.4	503.9	47.54	11.600		
7,800.0	6,349.0	7,587.6	6,334.0	27.4	24.4	-88.44	-925.8	-109.0	552.8	502.2	50.57	10.933		
7,900.0	6,349.0	7,687.6	6,334.0	28.9	26.0	-88.45	-1,025.7	-105.6	554.2	500.5	53.70	10.320		
8,000.0	6,349.0	7,787.5	6,334.0	30.5	27.6	-88.45	-1,125.7	-102.3	555.6	498.6	56.93	9.759		
8,100.0	6,349.0	7,887.5	6,334.0	32.1	29.3	-88.46	-1,225.6	-98.9	556.9	496.7	60.23	9.247		
8,200.0	6,349.0	7,987.5	6,334.0	33.7	31.0	-88.46	-1,325.5	-95.5	558.3	494.7	63.59	8.780		
8,300.0	6,349.0	8,087.5	6,334.0	35.4	32.7	-88.46	-1,425.5	-92.1	559.7	492.7	67.01	8.353		
8,400.0	6,349.0	8,187.5	6,334.0	37.1	34.4	-88.47	-1,525.4	-88.7	561.1	490.6	70.47	7.962		
8,500.0	6,349.0	8,287.5	6,334.0	38.8	36.2	-88.47	-1,625.3	-85.3	562.5	488.5	73.98	7.603		
8,600.0	6,349.0	8,387.5	6,334.0	40.5	38.0	-88.48	-1,725.3	-81.9	563.8	486.3	77.52	7.274		
8,700.0	6,349.0	8,487.5	6,334.0	42.3	39.8	-88.48	-1,825.2	-78.5	565.2	484.1	81.08	6.971		
8,800.0	6,349.0	8,587.5	6,334.0	44.1	41.6	-88.48	-1,925.1	-75.1	566.6	481.9	84.68	6.691		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Antelope A-E-18HZ
Project:	SEC.18-T5N-R62W	TVD Reference:	WELL @ 4626.0ft (Original Well Elev)
Reference Site:	Antelope F-18 Pad Sec.18-T5N-R62W	MD Reference:	WELL @ 4626.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope A-E-18HZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (6-11-12)	Offset TVD Reference:	Offset Datum

Offset Design Antelope F-18 Pad Sec.18-T5N-R62W - Antelope 11-14-18HZ - Wellbore #1 - Plan #1 (6-12-12)												Offset Site Error:	0.0 ft
Survey Program: 0-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	
8,900.0	6,349.0	8,687.5	6,334.0	45.8	43.4	-88.49	-2,025.1	-71.7	568.0	479.7	88.29	6.433	
9,000.0	6,349.0	8,787.4	6,334.0	47.6	45.2	-88.49	-2,125.0	-68.3	569.4	477.4	91.93	6.193	
9,100.0	6,349.0	8,887.4	6,334.0	49.4	47.0	-88.49	-2,224.9	-64.9	570.7	475.2	95.58	5.971	
9,200.0	6,349.0	8,987.4	6,334.0	51.2	48.9	-88.50	-2,324.9	-61.5	572.1	472.9	99.25	5.764	
9,300.0	6,349.0	9,087.4	6,334.0	53.0	50.7	-88.50	-2,424.8	-58.1	573.5	470.6	102.94	5.571	
9,400.0	6,349.0	9,187.4	6,334.0	54.9	52.6	-88.50	-2,524.7	-54.7	574.9	468.2	106.64	5.391	
9,500.0	6,349.0	9,287.4	6,334.0	56.7	54.5	-88.51	-2,624.7	-51.3	576.3	465.9	110.34	5.222	
9,600.0	6,349.0	9,387.4	6,334.0	58.5	56.3	-88.51	-2,724.6	-47.9	577.6	463.6	114.06	5.064	
9,700.0	6,349.0	9,487.4	6,334.0	60.4	58.2	-88.52	-2,824.5	-44.5	579.0	461.2	117.79	4.916	
9,800.0	6,349.0	9,587.4	6,334.0	62.2	60.1	-88.52	-2,924.5	-41.1	580.4	458.9	121.53	4.776	
9,900.0	6,349.0	9,687.4	6,334.0	64.1	61.9	-88.52	-3,024.4	-37.7	581.8	456.5	125.27	4.644	
10,000.0	6,349.0	9,787.4	6,334.0	65.9	63.8	-88.53	-3,124.3	-34.3	583.2	454.1	129.02	4.520	
10,100.0	6,349.0	9,887.3	6,334.0	67.8	65.7	-88.53	-3,224.3	-30.9	584.5	451.8	132.78	4.402	
10,200.0	6,349.0	9,987.3	6,334.0	69.6	67.6	-88.53	-3,324.2	-27.5	585.9	449.4	136.55	4.291	
10,300.0	6,349.0	10,087.3	6,334.0	71.5	69.5	-88.54	-3,424.1	-24.2	587.3	447.0	140.31	4.186	
10,400.0	6,349.0	10,187.3	6,334.0	73.4	71.4	-88.54	-3,524.1	-20.8	588.7	444.6	144.09	4.086	
10,500.0	6,349.0	10,287.3	6,334.0	75.2	73.3	-88.54	-3,624.0	-17.4	590.1	442.2	147.87	3.990	
10,600.0	6,349.0	10,387.3	6,334.0	77.1	75.2	-88.55	-3,723.9	-14.0	591.4	439.8	151.65	3.900	
10,700.0	6,349.0	10,487.3	6,334.0	79.0	77.1	-88.55	-3,823.9	-10.6	592.8	437.4	155.44	3.814	
10,800.0	6,349.0	10,587.3	6,334.0	80.9	79.0	-88.55	-3,923.8	-7.2	594.2	435.0	159.23	3.732	
10,900.0	6,349.0	10,687.3	6,334.0	82.8	80.9	-88.56	-4,023.7	-3.8	595.6	432.6	163.02	3.653	
11,000.0	6,349.0	10,787.3	6,334.0	84.6	82.8	-88.56	-4,123.7	-0.4	597.0	430.1	166.82	3.578	
11,100.0	6,349.0	10,887.2	6,334.0	86.5	84.7	-88.56	-4,223.6	3.0	598.3	427.7	170.62	3.507	
11,173.2	6,349.0	10,960.4	6,334.0	87.9	86.1	-88.57	-4,296.7	5.5	599.3	425.9	173.40	3.456 SF	

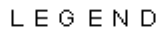
Antelope F-18 Pad Sec.18-T5N-R62W - Antelope F-J-18HZ - Wellbore #1 - Plan #1 (6-11-12)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	0.00	21.9	0.0	21.9					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	21.9	0.0	21.9	21.6	0.22	97.251		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	21.9	0.0	21.9	21.2	0.67	32.417		
300.0	300.0	300.0	300.0	0.6	0.6	0.00	21.9	0.0	21.9	20.7	1.12	19.450		
400.0	400.0	400.0	400.0	0.8	0.8	0.00	21.9	0.0	21.9	20.3	1.57	13.893		
500.0	500.0	500.0	500.0	1.0	1.0	0.00	21.9	0.0	21.9	19.8	2.02	10.806		
600.0	600.0	600.0	600.0	1.2	1.2	0.00	21.9	0.0	21.9	19.4	2.47	8.841 CC, ES		
700.0	700.0	699.4	699.4	1.5	1.5	2.74	23.2	1.1	23.2	20.3	2.92	7.955 SF		
800.0	800.0	798.5	798.4	1.7	1.7	9.26	27.1	4.4	27.5	24.2	3.36	8.182		
900.0	900.0	897.2	896.6	1.9	1.9	67.23	33.7	9.9	34.5	30.7	3.81	9.053		
1,000.0	999.8	995.0	993.8	2.1	2.2	78.68	42.7	17.5	44.7	40.5	4.26	10.488		
1,100.0	1,099.5	1,091.7	1,089.3	2.4	2.4	88.94	54.1	27.1	59.3	54.6	4.73	12.546		
1,200.0	1,198.7	1,187.4	1,183.3	2.6	2.8	97.02	67.8	38.6	78.7	73.5	5.21	15.094		
1,300.0	1,297.5	1,284.2	1,278.2	2.9	3.1	103.53	82.6	51.0	101.1	95.4	5.73	17.643		
1,400.0	1,395.6	1,380.5	1,372.5	3.2	3.5	109.00	97.3	63.3	125.5	119.2	6.29	19.966		
1,500.0	1,493.1	1,476.1	1,466.2	3.6	3.8	113.71	111.9	75.6	152.2	145.3	6.89	22.092		
1,553.6	1,544.9	1,527.0	1,516.1	3.8	4.0	115.98	119.6	82.1	167.4	160.2	7.23	23.165		
1,600.0	1,589.7	1,571.0	1,559.2	4.0	4.2	117.98	126.4	87.7	181.0	173.5	7.53	24.028		
1,700.0	1,686.3	1,665.8	1,652.1	4.5	4.6	121.40	140.8	99.9	210.9	202.7	8.21	25.702		
1,800.0	1,782.9	1,760.6	1,745.0	5.0	5.0	123.98	155.3	112.0	241.3	232.4	8.89	27.136		
1,900.0	1,879.4	1,855.3	1,837.8	5.5	5.4	125.98	169.8	124.2	272.0	262.5	9.59	28.368		
2,000.0	1,976.0	1,950.1	1,930.7	6.0	5.8	127.58	184.2	136.3	303.0	292.7	10.30	29.432		
2,100.0	2,072.5	2,044.9	2,023.6	6.5	6.2	128.88	198.7	148.5	334.2	323.2	11.01	30.357		
2,200.0	2,169.1	2,139.6	2,116.4	7.0	6.6	129.96	213.2	160.6	365.5	353.8	11.73	31.167		
2,300.0	2,265.7	2,234.4	2,209.3	7.5	7.0	130.87	227.6	172.7	396.9	384.5	12.45	31.880		
2,400.0	2,362.2	2,329.2	2,302.2	8.0	7.4	131.65	242.1	184.9	428.4	415.2	13.18	32.512		
2,500.0	2,458.8	2,423.9	2,395.0	8.6	7.8	132.32	256.6	197.0	459.9	446.0	13.90	33.076		
2,600.0	2,555.3	2,518.7	2,487.9	9.1	8.2	132.91	271.0	209.2	491.5	476.9	14.64	33.580		
2,700.0	2,651.9	2,613.5	2,580.8	9.6	8.6	133.42	285.5	221.3	523.1	507.7	15.37	34.035		
2,800.0	2,748.5	2,708.2	2,673.6	10.2	9.0	133.88	300.0	233.5	554.8	538.7	16.11	34.446		
2,900.0	2,845.0	2,803.0	2,766.5	10.7	9.4	134.28	314.4	245.6	586.5	569.6	16.84	34.820		
3,000.0	2,941.6	2,897.8	2,859.4	11.2	9.8	134.65	328.9	257.8	618.2	600.6	17.58	35.161		
3,100.0	3,038.1	2,992.6	2,952.2	11.8	10.2	134.98	343.4	269.9	649.9	631.6	18.32	35.473		
3,200.0	3,134.7	3,087.3	3,045.1	12.3	10.6	135.28	357.8	282.1	681.7	662.6	19.06	35.759		
3,300.0	3,231.3	3,182.1	3,138.0	12.9	11.0	135.55	372.3	294.2	713.4	693.6	19.80	36.023		
3,400.0	3,327.8	3,276.9	3,230.8	13.4	11.4	135.80	386.8	306.3	745.2	724.7	20.55	36.268		
3,500.0	3,424.4	3,371.6	3,323.7	13.9	11.8	136.03	401.2	318.5	777.0	755.7	21.29	36.494		
3,600.0	3,520.9	3,466.4	3,416.6	14.5	12.2	136.24	415.7	330.6	808.8	786.8	22.04	36.704		
3,700.0	3,617.5	3,561.2	3,509.4	15.0	12.6	136.43	430.2	342.8	840.6	817.8	22.78	36.900		
3,800.0	3,714.1	3,655.9	3,602.3	15.6	13.1	136.61	444.6	354.9	872.4	848.9	23.53	37.083		
3,900.0	3,810.6	3,750.7	3,695.2	16.1	13.5	136.78	459.1	367.1	904.2	880.0	24.27	37.254		
4,000.0	3,907.2	3,845.5	3,788.0	16.7	13.9	136.94	473.6	379.2	936.1	911.0	25.02	37.414		
4,100.0	4,003.7	3,940.2	3,880.9	17.2	14.3	137.08	488.0	391.4	967.9	942.1	25.77	37.565		
4,200.0	4,100.3	4,035.0	3,973.8	17.8	14.7	137.22	502.5	403.5	999.7	973.2	26.51	37.706		





Antelope F-18 Pad Sec.18-T5N-R62W - Antelope K-O-18HZ - Wellbore #1 - Plan #1 (6-11-12)													Offset Site Error: 0.0 ft	
Survey Program: 0-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		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	40.1	0.0	40.1					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	40.1	0.0	40.1	39.9	0.22	178.312		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	40.1	0.0	40.1	39.4	0.67	59.437	CC, ES	
300.0	300.0	299.4	299.3	0.6	0.6	2.17	40.8	1.5	40.9	39.7	1.12	36.530		
400.0	400.0	398.5	398.3	0.8	0.8	8.16	43.1	6.2	43.6	42.0	1.57	27.726		
500.0	500.0	497.1	496.6	1.0	1.0	16.46	46.8	13.8	48.9	46.9	2.03	24.129		
600.0	600.0	595.0	593.8	1.2	1.3	25.17	52.0	24.4	57.8	55.3	2.49	23.214	SF	
700.0	700.0	692.1	689.6	1.5	1.6	32.90	58.6	37.9	70.5	67.6	2.96	23.812		
800.0	800.0	787.9	783.8	1.7	2.0	39.12	66.4	54.0	87.2	83.7	3.45	25.228		
900.0	900.0	882.3	875.9	1.9	2.4	92.76	75.5	72.7	107.6	103.7	3.96	27.192		
1,000.0	999.8	974.8	965.4	2.1	2.8	97.90	85.7	93.6	132.4	128.0	4.42	29.927		
1,100.0	1,099.5	1,067.5	1,054.4	2.4	3.3	102.61	97.0	116.8	161.4	156.5	4.90	32.957		
1,200.0	1,198.7	1,161.5	1,144.6	2.6	3.9	106.77	108.6	140.5	192.6	187.2	5.37	35.863		
1,300.0	1,297.5	1,254.6	1,233.9	2.9	4.4	110.42	120.1	164.1	225.9	220.0	5.87	38.504		
1,400.0	1,395.6	1,346.7	1,322.3	3.2	4.9	113.65	131.5	187.4	261.3	254.9	6.40	40.861		
1,500.0	1,493.1	1,437.8	1,409.8	3.6	5.4	116.52	142.7	210.4	299.1	292.1	6.96	42.978		
1,553.6	1,544.9	1,486.1	1,456.1	3.8	5.7	117.93	148.7	222.6	320.3	313.0	7.28	44.017		
1,600.0	1,589.7	1,527.8	1,496.2	4.0	6.0	119.40	153.8	233.2	339.1	331.5	7.57	44.820		
1,700.0	1,686.3	1,617.7	1,582.4	4.5	6.5	122.07	164.9	255.9	380.1	371.9	8.21	46.321		
1,800.0	1,782.9	1,707.6	1,668.6	5.0	7.0	124.24	176.0	278.6	421.7	412.8	8.87	47.566		
1,900.0	1,879.4	1,797.5	1,754.9	5.5	7.5	126.02	187.1	301.4	463.7	454.2	9.54	48.612		
2,000.0	1,976.0	1,887.3	1,841.1	6.0	8.1	127.50	198.2	324.1	506.0	495.8	10.22	49.501		
2,100.0	2,072.5	1,977.2	1,927.4	6.5	8.6	128.77	209.3	346.8	548.6	537.6	10.91	50.267		
2,200.0	2,169.1	2,067.1	2,013.6	7.0	9.1	129.85	220.4	369.6	591.3	579.7	11.61	50.932		
2,300.0	2,265.7	2,157.0	2,099.9	7.5	9.6	130.78	231.5	392.3	634.2	621.9	12.31	51.516		
2,400.0	2,362.2	2,246.8	2,186.1	8.0	10.2	131.60	242.6	415.0	677.2	664.2	13.02	52.032		
2,500.0	2,458.8	2,336.7	2,272.3	8.6	10.7	132.33	253.7	437.8	720.3	706.6	13.72	52.491		
2,600.0	2,555.3	2,426.6	2,358.6	9.1	11.2	132.97	264.7	460.5	763.5	749.1	14.43	52.903		
2,700.0	2,651.9	2,516.5	2,444.8	9.6	11.8	133.54	275.8	483.2	806.8	791.7	15.14	53.273		
2,800.0	2,748.5	2,606.3	2,531.1	10.2	12.3	134.05	286.9	505.9	850.1	834.3	15.86	53.608		
2,900.0	2,845.0	2,696.2	2,617.3	10.7	12.8	134.52	298.0	528.7	893.5	876.9	16.57	53.913		
3,000.0	2,941.6	2,786.1	2,703.6	11.2	13.3	134.94	309.1	551.4	936.9	919.6	17.29	54.191		
3,100.0	3,038.1	2,875.9	2,789.8	11.8	13.9	135.32	320.2	574.1	980.4	962.4	18.01	54.446		

Reference Depths are relative to WELL @ 4626.0ft (Original Well Elev)Coordinates are relative to: Antelope A-E-18HZ
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: 0.73°



Reference Depths are relative to WELL @ 4626.0ft (Original Well Elev)Coordinates are relative to: Antelope A-E-18HZ
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: 0.73°



-18 (Exist.), Wellbore #1, Wellbore #1 VD	 Antelope D-18 COGCC Plan, Wellbore #1, Wellbore #1 VD	 Antelope K-O-18HZ, Wellbore #1, Plan #1 (6-11-12) VD
-18 (Exist.), Wellbore #1, Wellbore #1 VD	Antelope F-J-18HZ, Wellbore #1, Plan #1 (6-11-12) VD	Antelope 13-18 (Exist.), Wellbore #1, Plan #1 (6-12-12) VD
-18 COGCC Plan, Wellbore #1, Wellbore #1 VD	 Antelope 11-14-18HZ, Wellbore #1, Plan #1 (6-12-12) VD	 Antelope 14-18 (Exist.), Wellbore #1, Plan #1 (6-12-12) VD