

<b>Borehole:</b>	<b>Well:</b>	<b>Field:</b>	<b>Structure:</b>
<b>Original Hole</b>	<b>Shull Fed-9-59-31-0508BE</b>	<b>CO, Weld County (NAD 83 NZ)</b>	<b>31-09N-59W (Anderson-Shull Pad 1)</b>

Gravity & Magnetic Parameters					Surface Location				NAD83 Colorado State Plane, Northern Zone, US Feet				Miscellaneous			
Model:	HDGM 2015	Dip:	67.141°	Date:	13-Apr-2016	Lat:	N 40 42 41.43	Northing:	1505457.62ftUS	Grid Conv:	0.9545°	Slot:	Shull Fed-9-59-31-0508BE	TVD Ref:	KB 18ft(4923ft above MSL)	
MagDec:	8.028°	FS:	52771.049nT	Gravity FS:	999.08mgn (9.80665 Based)	Lon:	W 104 1 22.06	Easting:	3409507.95ftUS	Scale Fact:	0.99998913	Plan:	Shull Fed-9-59-31-0508BE R0 mdv 13Apr16			

Northing: 1505457.615		Easting: 3409507.946		Surface Location		Longitude: W 104 1 22.06		VSec Azimuth: 85.772		Local Coord	
Target Description		Grid Coord		Latitude: N 40 42 41.43		Longitude: W 104 1 22.06		VSec Azimuth: 85.772		Local Coord	
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)	DLS		
Pad 1	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	0.00	0.00	0.00	0.00		
Anderson-Shull Pad Sec 31-32 - 460' Setback	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	0.00	0.00	0.00	0.00		
Anderson-Shull Pad Sec 31-9N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	0.00	0.00	0.00	0.00		
Anderson-Shull Pad Sec 32-9N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	0.00	0.00	0.00	0.00		
Shull Fed-9-59-31-0508BE BHL	N 40 42 45.90	W 103 59 39.05	1506043.43	3417431.29	6138.00	7945.07	585.82	7923.45			
Shull Fed-9-59-31-0508BE LP	N 40 42 45.66	W 104 1 8.62	1505902.51	3410535.31	6168.00	1057.38	444.90	1027.38			

  

Critical Point		MD		INCL		AZIM		TVD		VSEC		N(+)/S(-)		E(+)/W(-)		DLS	
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Build 1.5 DLS	1500.00	0.00	36.47	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hold	1957.60	6.86	36.47	1956.51	17.85	22.02	16.27	16.27	1.50								
KOP, Build/Turn 10 DLS	5581.86	6.86	36.47	5554.79	300.32	370.33	273.76	0.00									
Hold 200' @ 65° INC	6188.73	65.00	86.22	6029.53	630.42	422.60	600.89	10.00									
KOP, Build10 DLS to Landing	6388.73	65.00	86.22	6114.05	811.67	434.55	781.76	0.00									
Landing Point, Hold to TD	6642.49	90.25	88.83	6168.00	1057.39	444.90	1027.38	10.00									
KOP, Build10 DLS to Landing	6643.00	90.25	88.83	6168.00	1057.90	444.91	1027.89	0.00									
7" Casing Point	6643.00	90.25	88.83	6168.00	1057.90	444.91	1027.89	0.00									
Shull Fed-9-59-31-0508BE BHL	13540.06	90.25	88.83	6138.00	7945.07	585.82	7923.45	0.00									

**Proposal**  
**Rev 0**



Grid  
True  
Mag

Grid North  
Tot Corr (M->G 7.074°)  
Mag Dec (8.028°)  
Grid Conv (0.954°)

EW (ft) Scale = 1:2000.00(ft)

