

<b>Borehole:</b>	<b>Well:</b>	<b>Field:</b>	<b>Structure:</b>
<b>Original Hole</b>	<b>Shull Fed-9-59-31-4441AE</b>	<b>CO, Weld County (NAD 83 NZ)</b>	<b>31-09N-59W (Anderson-Shull Pad 3)</b>

<b>Gravity &amp; Magnetic Parameters</b>			<b>Surface Location</b>			<b>Miscellaneous</b>		
Model: HDGM 2015	Dip: 67.141°	Date: 09-Mar-2016	Lat: N 40 42 17.14	North: 1502994.26ftUS	Grid Conv: 0.9538°	Slot: Shull Fed-9-59-31-4441AE	TVD Ref: KB 18ft(4898ft above MSL)	
MagDec: 8.053°	FS: 52772.016mT	Gravity FS: 999.082mgn(9.80665 Based)	Lon: W 104 1 26.01	Easting: 3409244.07ftUS	Scale Fact: 0.99998819	Plan: Shull Fed-9-59-31-4441AE R0 mdy 13Apr16		

Northing: 1502994.261		Easting: 3409244.071		Surface Location		Longitude: W 104 1 26.01		VSec Azimuth: 90.315	
Target Description		Grid Coord		Local Coord					
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)	DLS
Anderson-Shull Pad Sec 31-32 - 460' Setback	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4898.00	250.33	2463.39	263.88	
Anderson-Shull Pad Sec 31-8N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4898.00	250.33	2463.39	263.88	
Anderson-Shull Pad Sec 32-9N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4898.00	250.33	2463.39	263.88	
Pad 3	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4898.00	250.33	2463.39	263.88	
Shull Fed-9-59-31-4441AE BHL	N 40 42 15.33	W 103 59 38.79	1502950.35	3417503.79	6006.00	8259.94	-43.91	8259.83	
Shull Fed-9-59-31-4441AE LP	N 40 42 15.10	W 104 1 8.25	1502811.01	3410615.23	6036.00	1372.17	-183.26	1371.18	
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	
KOP, Build 1.5 DLS		1500.00	0.00	105.27	1500.00	0.00	0.00	0.00	
Hold		2169.98	10.05	105.27	2166.55	56.62	-15.44	56.54	1.50
KOP, Build/Turn 10 DLS		5530.03	10.05	105.27	5475.04	623.10	-169.86	622.17	0.00
Hold 200' @ 65° INC		6083.32	65.00	90.22	5897.73	945.95	-184.71	944.95	10.00
KOP, Build 10 DLS to Landing		6283.32	65.00	90.22	5982.25	1127.21	-185.41	1126.21	0.00
Landing Point, Hold to TD		6536.17	90.25	88.84	6036.00	1372.17	-183.26	1371.18	10.00
7" Casing Point		6537.00	90.25	88.84	6036.00	1373.00	-183.24	1372.01	0.00
Shull Fed-9-59-31-4441AE BHL		13426.29	90.25	88.84	6006.00	8259.94	-43.91	8259.83	0.00

**Proposal**  
**Rev 0**



Grid  
True  
Mag

Grid North  
Tot Corr (M->G 7.099°)  
Mag Dec (8.053°)  
Grid Conv (0.954°)

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

