

Borehole:	Well:	Field:	Structure:
Original Hole	Shull Fed-9-59-31-2124CE	CO, Weld County (NAD 83 NZ)	31-09N-59W (Anderson-Shull Pad 1)

Gravity & Magnetic Parameters			Surface Location			Miscellaneous		
Model: HDGM 2015	Dip: 67.141°	Date: 13-Apr-2016	Lat: N 40 42 40.96	North: 1505410.69ftUS	Grid Conv: 0.9546°	Slot: Shull Fed-9-59-31-2124CE	TVD Ref: KB 18ft(4923ft above MSL)	
MagDec: 8.028°	FS: 52770.847nT	Gravity FS: 999.08mgn (9.80665 Based)	Lon: W 104 1 21.31	Easting: 3409566.46ftUS	Scale Fact: 0.99998912	Plan: Shull Fed-9-59-31-2124CE R0 mdy 13Apr16		

Northing: 1505410.69		Easting: 3409566.456		Surface Location		Longitude: W 104 1 21.31		VSec Azimuth: 91.939	
Target Description		Grid Coord		Local Coord					
Target Name	Latitude	Longitude	North	East	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	-60.06	46.93	-58.51	
Anderson-Shull Pad Sec 31-32 - 460' Setback	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	-60.06	46.93	-58.51	
Anderson-Shull Pad Sec 31-9N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	-60.06	46.93	-58.51	
Anderson-Shull Pad Sec 32-9N-59W	N 40 42 41.43	W 104 1 22.06	1505457.62	3409507.95	4923.00	-60.06	46.93	-58.51	
Shull Fed-9-59-31-2124CE BHL	N 40 42 37.01	W 103 59 38.98	1505143.77	3417452.39	6231.00	7890.55	-266.92	7886.04	
Shull Fed-9-59-31-2124CE LP	N 40 42 36.76	W 104 1 8.51	1505002.52	3410558.66	6261.00	1005.46	-408.18	992.22	

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
KOP, Build 1.5 DLS		1500.00	0.00	147.13	1500.00	0.00	0.00	0.00	0.00
Hold		1920.34	6.31	147.13	1919.49	13.19	-19.41	12.54	1.50
KOP, Build/Turn 10 DLS		5662.47	6.31	147.13	5638.99	247.77	-364.59	235.57	0.00
Hold 200' @ 65° INC		6278.17	65.00	91.39	6122.53	578.52	-403.58	565.19	10.00
KOP, Build 10 DLS to Landing		6478.17	65.00	91.39	6207.05	759.77	-407.98	746.40	0.00
Landing Point, Hold to TD		6731.90	90.25	88.83	6261.00	1005.46	-408.18	992.22	10.00
7" Casing Point		6732.00	90.25	88.83	6261.00	1005.55	-408.17	992.32	0.00
Shull Fed-9-59-31-2124CE BHL		13627.23	90.25	88.83	6231.00	7890.55	-266.92	7886.04	0.00

Proposal
Rev 0



Grid
True
Mag

Grid North
Tot Corr (M→G 7.073°)
Mag Dec (8.028°)
Grid Conv (0.955°)

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

