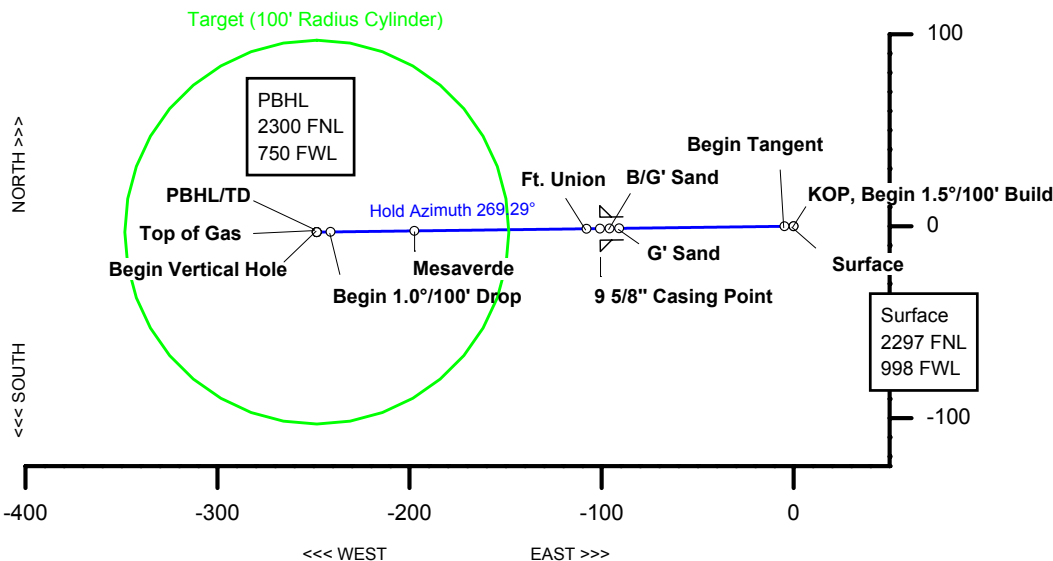


WELL	FIELD	STRUCTURE
PA 12-28	Garfield County, Colorado	Williams 28-6S-95W
Magnetic Parameters Model: BGM 2002 Dip: 65.963° Mag Dec: 11.432° Date: January 31, 2003 FS: 53029.3 nT	Surface Location Lat: N39 29 46.588 Lon: W108 0 31.851 North: 1615422.37 ftUS East: 2292094.84 ftUS Grid Conv: -1.5823° Scale Fact: 1.0000	Miscellaneous Slot: PA 12-28 Plan#: Rev0 jok 31-Jan-03 Elev Ref: RKB(5696.00ft above MSL) Date Drawn: 04:16:36PM 04-Feb-2003

PLAN VIEW Scale (1 in = 100 feet)



Surface Location: North:1615422.37 ftUS, East:2292094.84 ftUS NAD83 Colorado State Planes, Central Zone, US Feet

Target Name	Grid Coord		TVD ft	VSEC ft	Local Coord		Shape	Major Axis
	N(+)/S(-) ftUS	E(+)/W(-) ftUS			N(+)/S(-) ft	E(+)/W(-) ft		
PA 12-28 Target (1)	1615426.14	2291846.56	5450.00	248.32	-3.08	-248.30	Circle	200.0
Critical Points								
Surface	0.00	0.00	269.29	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.5°/1	200.00	0.00	269.29	200.00	0.00	0.00	0.00	0.00
Begin Tangent	391.03	2.87	269.29	390.95	4.78	-0.06	-4.78	1.50
G' Sand	2112.23	2.87	269.29	2110.00	90.82	-1.13	-90.81	0.00
B/G' Sand	2212.36	2.87	269.29	2210.00	95.82	-1.19	-95.82	0.00
9 5/8" Casing Poi	2312.48	2.87	269.29	2310.00	100.83	-1.25	-100.82	0.00
Ft. Union	2452.66	2.87	269.29	2450.00	107.84	-1.34	-107.83	0.00
Mesaverde	4244.90	2.87	269.29	4240.00	197.43	-2.45	-197.42	0.00
Begin 1.0°/100' D	5119.57	2.87	269.29	5113.58	241.16	-2.99	-241.14	0.00
Begin Vertical Ho	5406.11	0.00	269.29	5400.00	248.32	-3.08	-248.30	1.00
Top of Gas	5456.11	0.00	269.29	5450.00	248.32	-3.08	-248.30	0.00
Cameo Coals	6966.11	0.00	269.29	6960.00	248.32	-3.08	-248.30	0.00
Rollins SS	7666.11	0.00	269.29	7660.00	248.32	-3.08	-248.30	0.00
PBHL/TD	7816.11	0.00	269.29	7810.00	248.32	-3.08	-248.30	0.00



True North
Tot Corr (E 11.43°)
Mag Dec (E 11.43°)

Quality Control
Date Drawn: 04-Feb-2003
Drawn by: James Wimberg
Checked by: John O'Keefe
Client OK: _____

