

Project: FREMONT COUNTY, CO
Site: MACKINAW 12-28
Well: MACKINAW 12-28
Wellbore: MACKINAW 12-28
Design: MACKINAW 12-28
Lat: 38° 22' 5.545 N
Long: 105° 7' 20.276 W
KB: WELL @ 5365.00ft (CAPSTAR 311)
GR: 5354.00
SAP#: 4022321



Weatherford®

SECTION DETAILS

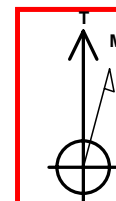
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1825.00	0.00	0.00	1825.00	0.00	0.00	0.00	0.00	0.00	Start Build 4.00
2892.79	42.73	98.30	2796.52	-54.86	376.07	4.00	98.30	380.05	Start 492.10 hold at 2892.79 MD
3384.89	42.73	98.30	3158.00	-103.06	706.49	0.00	0.00	713.96	TD at 3384.89

WELL DETAILS: MACKINAW 12-28

+N/-S	+E/-W	Northing	Ground Level: Easting	5354.00 Latitude	Longitude	Slot
0.00	0.00	1195026.21	3108294.80	38° 22' 5.545 N	105° 7' 20.276 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TOP OF TGT	2419.44	-18.65	127.88	38° 22' 5.361 N	105° 7' 18.671 W	Rectangle (Sides: L100.00 W150.00)
PBHL MACKINAW 12-28	3158.00	-103.06	706.49	38° 22' 4.526 N	105° 7' 11.406 W	Rectangle (Sides: L100.00 W150.00)

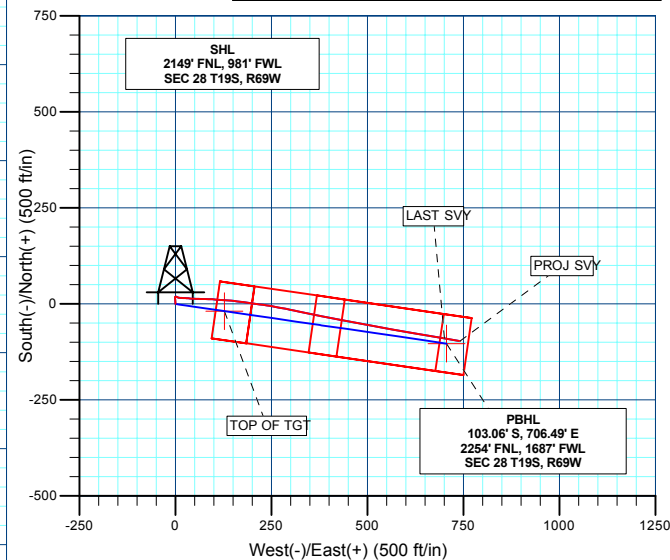
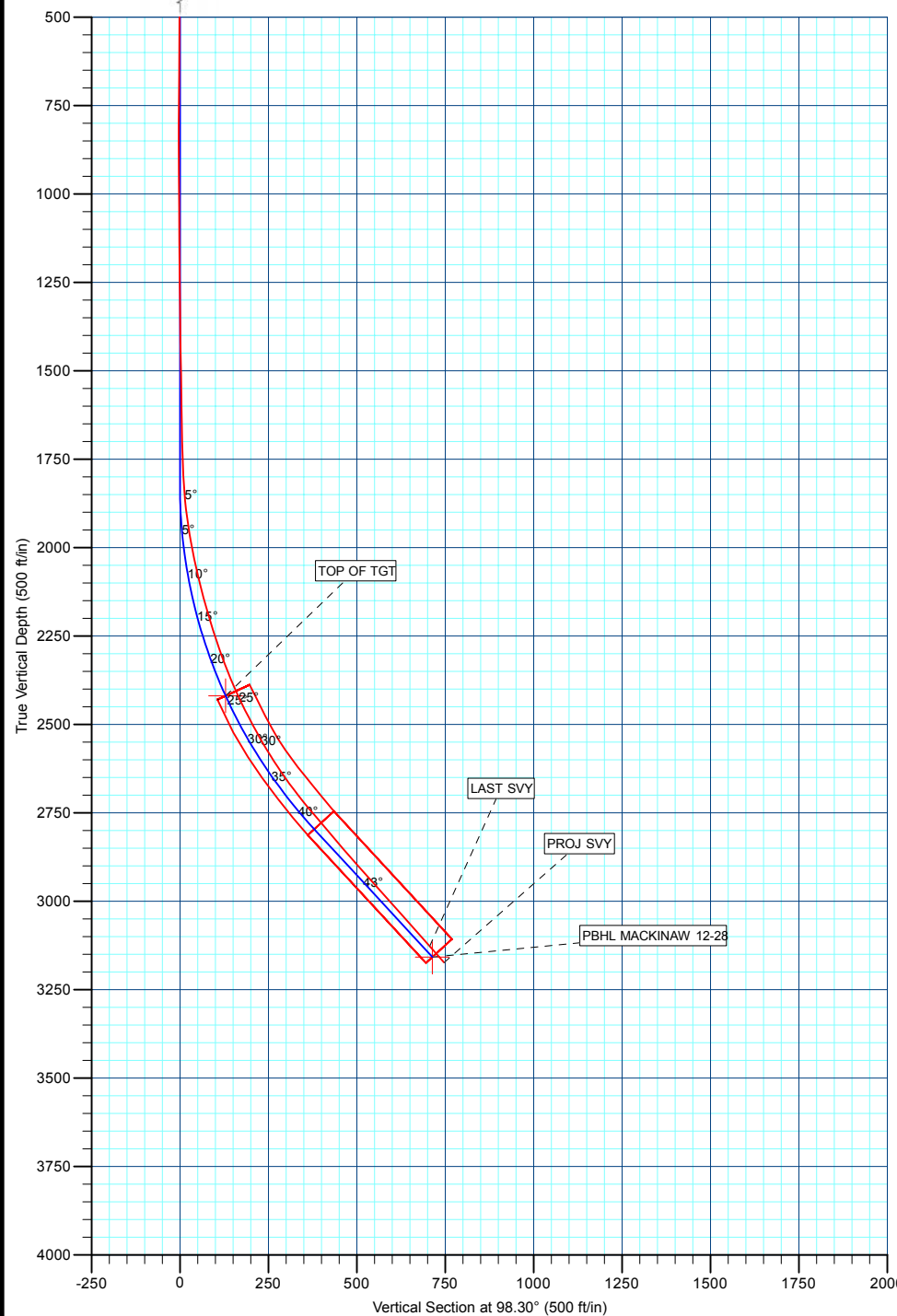


Azimuths to True North
Magnetic North: 8.87°

Magnetic Field
Strength: 51981.5nT
Dip Angle: 65.35°
Date: 4/13/2011
Model: BGGM2010

CASING DETAILS

TVD	MD	Name	Size
600.00	600.00	8 5/8"	8-5/8



Survey: Survey #1 (MACKINAW 12-28/MACKINAW 12-28)

Created By: TRACY WILLIAMS

Date: 9:58, April 17 2011