

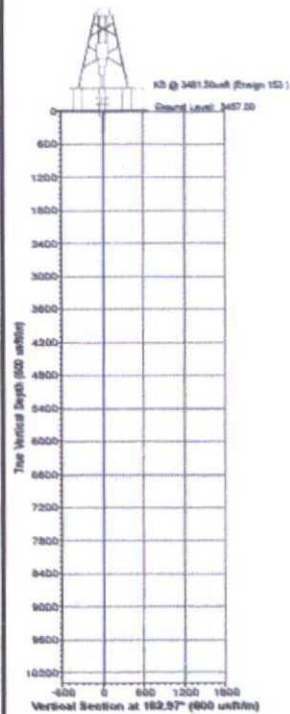
Gramma Ridge 8H: API 30-025-42060



Project: Lea County NM (NAD27 NME)
Site: Gramma Ridge 14-24-34
Well: #8H
Wellbore: WB1
Design: Plan #1 07-25-14
Rig: Ensign 153



Azimuths to Grid North
True North: -0.48°
Magnetic North: 5.67°
Magnetic Field
Strength: 48327.5nT
Dip Angle: 68.13°
Date: 5/23/2014
Model: IGRF2010_14



WELL DETAILS									
N-S	E-W	Nothing	Ground Level	Easting	Latitude	Longitude			
0.00	0.00	446283.00	778437.00	32° 12' 25.47118 N	103° 28' 58.84853 W				

SECTION DETAILS											
Sec	MD	Inc	Asl	TVD	N-S	E-W	Dip	TPace	V-Sect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	11868.54	0.00	0.00	11868.54	0.00	0.00	0.00	0.00	0.00		
3	12335.54	80.00	102.97	12063.00	-478.82	-24.71	12.00	182.97	477.48		
4	16533.34	90.00	102.97	12063.00	-4868.00	-342.80	0.00	0.00	4875.27	PDRL-GR 14-24-34 WB1	

DESIGN TARGET DETAILS									
Name	TVD	N-S	E-W	Nothing	Easting	Latitude	Longitude	Shape	
PDRL-GR 14-24-34 WB1	12063.00	-4868.00	-342.80	441614.00	778995.00	32° 12' 28.28069 N	103° 28' 1.91671 W	Point	

- plan hole target center

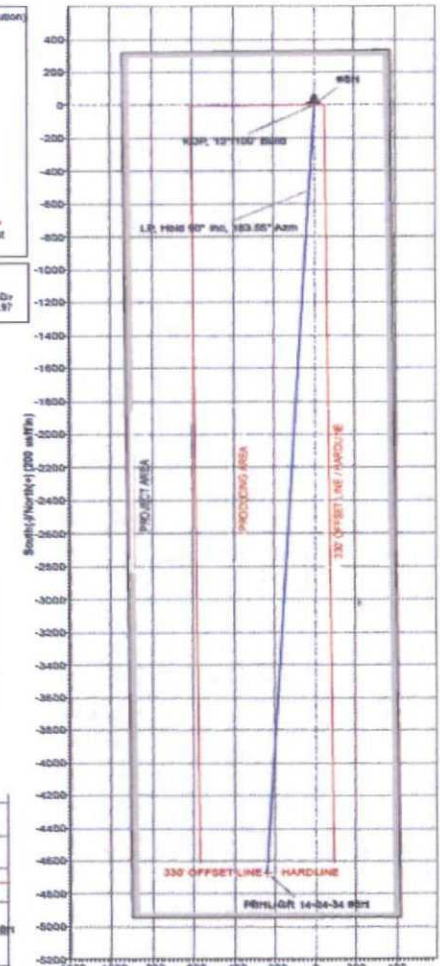
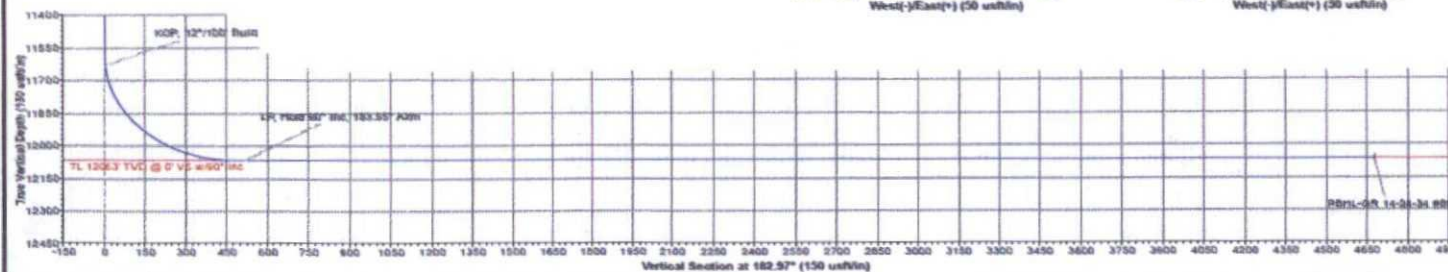
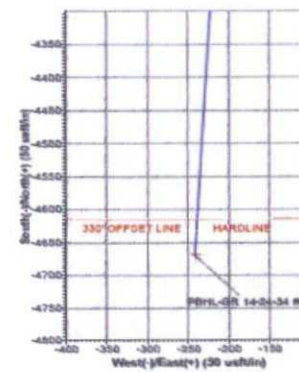
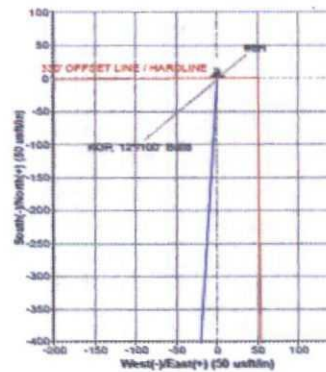
Map System: US State Plane 1987 (Exact solution)
Datum: NAD 1987 (MADCOH CONUS)
Emission: Cores 1985
Zone Name: New Mexico East 3001
Local Origin: Well WB1, Grid North
Latitude: 32° 12' 25.47118 N
Longitude: 103° 28' 58.84853 W
Grid East: 778437.00
Grid North: 446283.00
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 24-Jun-14
Magnetic Declination: 7.15°
Dip Angle from Horizontal: 68.13°
Magnetic Field Strength: 48328
To convert a Magnetic Direction to a Grid Direction, Add 5.67°
To convert a Magnetic Direction to a True Direction, Add 7.15° East
To convert a True Direction to a Grid Direction, Subtract 5.67°

FORMATION TOP DETAILS

TvGPath	MDPath	Formation	DipAngle	DipDr
12063.00	12335.54	TL 12063 TVD @ 0° VS w/80° Inc	0.00	182.97

LEGEND

Plan #1 07-25-14



BEFORE THE OIL CONVERSION
DIVISION
Santa Fe, New Mexico
Exhibit No. 13
Submitted by: CHEVRON U.S.A., INC.
Hearing Date: September 17, 2014