

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 30 2017

RECEIVED

Percussion Petroleum
Eddy County, NM
SEC. 22, T19S, R24E
B&B 22 #12
B&B 22 #12
30-015-44161

Survey: MWD Surveys

Final Survey Report

14 June, 2017

Provide signature page for survey





Geoguidance Drilling
Final Survey Report



Company: Percussion Petroleum
Project: Eddy County, NM
Site: SEC. 22, T19S, R24E
Well: B&B 22 #12
Wellbore: B&B 22 #12
Design: B&B 22 #12

Local Co-ordinate Reference: Well B&B 22 #12
TVD Reference: B&B 22 #12 @ 3477.0usft (GL + 17')
MD Reference: B&B 22 #12 @ 3477.0usft (GL + 17')
North Reference: B&B 22 #12 @ 3477.0usft (GL + 17')
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 5000.1 Single User Db

Project Eddy County, NM
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site SEC. 22, T19S, R24E
Site Position:
From: Map
Position Uncertainty: 0.0 usft

Northing: 599,000.00 usft
Easting: 498,000.00 usft
Slot Radius: 13-3/16 "

Latitude: 32° 38' 47.832 N
Longitude: 104° 28' 26.883 W
Grid Convergence: -0.08 °

Well B&B 22 #12, SUR. N 599642.8 E 498878.0
Well Position +N/-S 0.0 usft
+E/-W 0.0 usft
Position Uncertainty 0.0 usft

Northing: 599,642.80 usft
Easting: 498,878.00 usft
Wellhead Elevation: 3,477.0 usft

Latitude: 32° 38' 54.204 N
Longitude: 104° 28' 16.623 W
Ground Level: 3,460.0 usft

Wellbore B&B 22 #12
Magnetics Model Name Sample Date
IGRF2015 05/08/17

Declination (°) 7.41

Dip Angle (°) 60.31

Field Strength (nT) 48,103

Design B&B 22 #12
Audit Notes:
Version: 1.0
Vertical Section:

Phase: ACTUAL
Depth From (TVD) (usft)
+N/-S (usft)
+E/-W (usft)
Direction (°)
0.0 0.0 0.0

Survey Program From To
(usft) (usft)
782.0 3,651.0

Date 06/14/17
Survey (Wellbore) MWD+IGRF

Tool Name MWD+IGRF

Description OWSG MWD + IGRF or WMM



GeoGuidance Drilling Final Survey Report



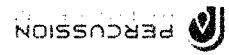
Company: Percussion Petroleum
Project: Eddy County, NM
Site: SEC. 22, T19S, R24E
Well: B&B 22 #12
Wellbore: B&B 22 #12
Design: B&B 22 #12

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well B&B 22 #12
B&B 22 #12 @ 3477.0usft (GL + 17')
B&B 22 #12 @ 3477.0usft (GL + 17')
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Northing (usft)	Easting (usft)	Dleg (°/100usft)	V. Sec (usft)
	0.0	0.00	0.00	0.0	-3,477.0	0.0	0.0	599,642.80	498,878.00	0.00	0.00
	782.0	1.00	0.00	782.0	-2,895.0	6.8	0.0	599,649.62	498,878.00	0.13	6.82
	893.0	0.60	81.30	893.0	-2,584.0	7.9	0.6	599,650.68	498,878.57	0.98	7.88
	987.0	0.60	86.20	986.9	-2,490.1	8.0	1.6	599,650.77	498,879.55	0.08	7.97
	1,081.0	0.50	85.10	1,080.9	-2,396.1	8.0	2.5	599,650.82	498,880.45	0.11	8.02
	1,175.0	0.40	77.30	1,174.9	-2,302.1	8.1	3.2	599,650.93	498,881.18	0.12	8.13
	1,364.0	0.40	83.60	1,363.9	-2,113.1	8.3	4.5	599,651.15	498,882.48	0.02	8.35
	1,553.0	0.10	66.60	1,552.9	-1,924.1	8.5	5.3	599,651.29	498,883.29	0.16	8.49
	1,742.0	0.20	290.10	1,741.9	-1,735.1	8.7	5.1	599,651.46	498,883.13	0.15	8.66
	1,931.0	0.30	296.60	1,930.9	-1,546.1	9.0	4.4	599,651.80	498,882.38	0.05	9.00
	2,121.0	0.40	298.10	2,120.9	-1,356.1	9.5	3.4	599,652.34	498,881.35	0.05	9.54
	2,308.0	0.40	311.80	2,308.9	-1,168.1	10.3	2.3	599,653.10	498,880.29	0.05	10.30
	2,487.0	0.40	323.00	2,486.9	-980.1	11.3	1.4	599,654.06	498,879.41	0.04	11.28
	2,687.0	0.40	347.80	2,686.9	-790.1	12.4	0.9	599,655.24	498,878.87	0.09	12.44
	2,875.0	0.40	337.10	2,874.9	-602.1	13.7	0.5	599,656.49	498,878.47	0.04	13.69
	3,064.0	0.40	316.30	3,063.9	-413.1	14.8	-0.2	599,657.57	498,877.76	0.08	14.77
	3,252.0	0.30	310.50	3,251.9	-225.1	15.6	-1.1	599,658.37	498,876.93	0.06	15.57
	3,441.0	0.20	294.80	3,440.9	-36.1	16.0	-1.7	599,658.83	498,876.26	0.06	16.03
	3,631.0	0.10	37.40	3,630.9	153.9	16.3	-1.9	599,659.10	498,876.06	0.13	16.30
	3,651.0	0.10	37.40	3,650.9	173.9	16.3	-1.9	599,659.12	498,876.08	0.00	16.32

Checked By: _____ Approved By: _____ Date: _____



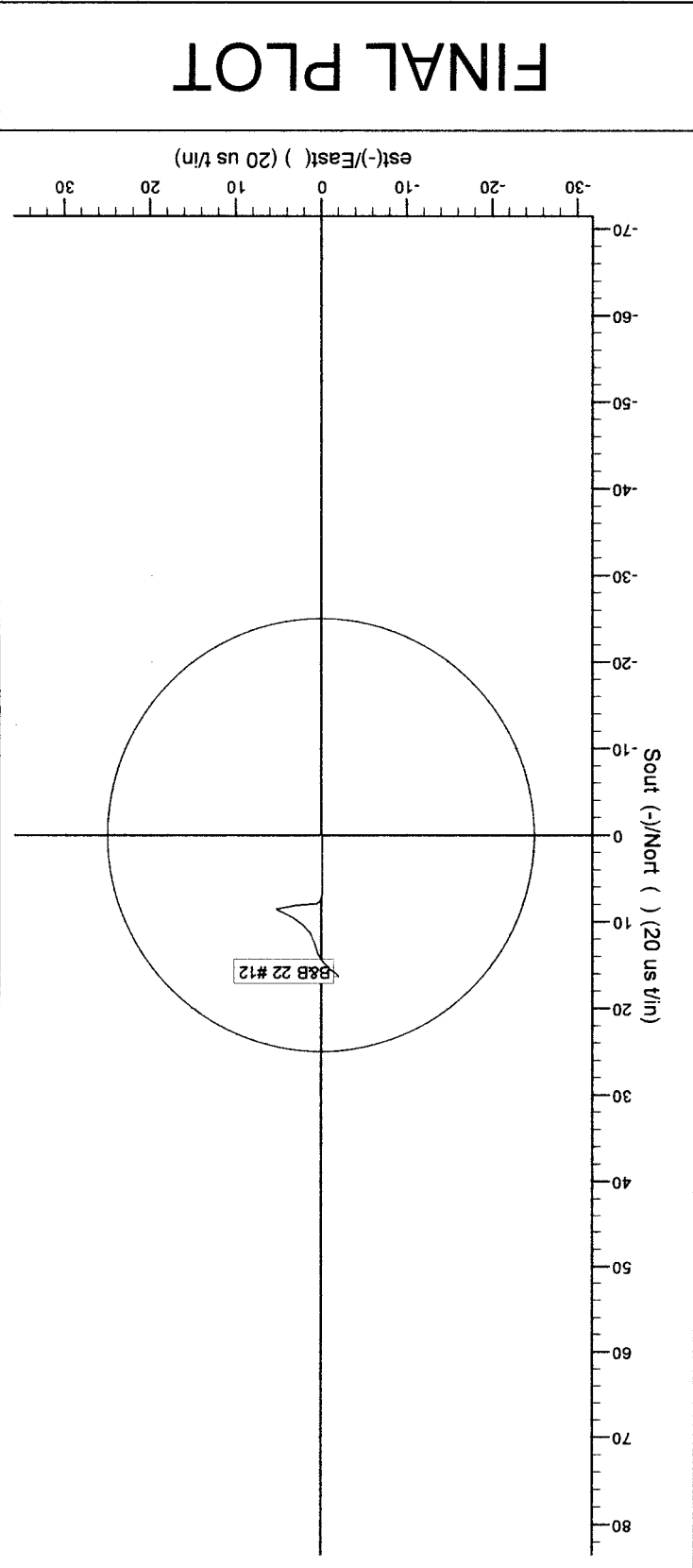
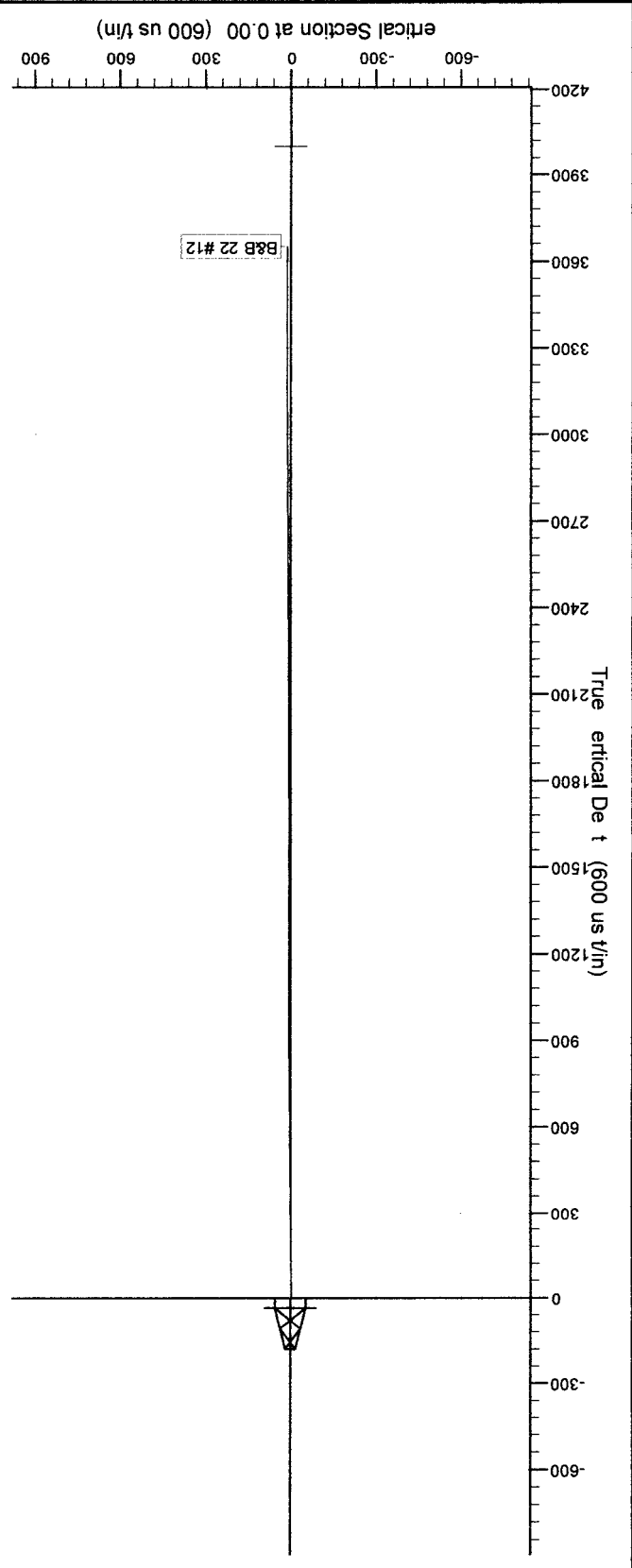
Percussion Petroleum
Project: Eddy County, NM
Site: SEC. 22, T19S, R24E
Well: B&B 22 #12
Well at: B&B 22 #12
Design: B&B 22 #12



Azimuths to Grid North
True North : 0.07
Magnetic North : 7.49
Magnetic Field
Strength : 48103.0nT
Dip Angle: 60.31
Date: 05/08/2017
Model: IGRF2015



PERCUSSION PETROLEUM, INC.



FINAL PLOT