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END OF WELL REPORT

MESA WEST
DIRECTIONAL

Client: Devon Energy Corp.
Well Name: NEBU 485
Location: 3-30N,TW-6,
Job Number: 1216
Start Date: 16-Jul-12

RCVD SEP 19 '12
OIL CONS. DIV.
DIST. 3

End Date: 20-Jul-12

PERSONAL

Operator Personnel
Company Man:
Joe Balkus
Geologist:

Directional Personnel
Shane Sligar
David Westbrook
Jay Hoppal

Survey Personnel
Ken Mitchell

WELL SUMMARY

KOP: 2652	TD: 3158	FEET DRLG.: 506	TOTAL DRLG. HRS.: 17.5	AVG. ROP:
# DAYS: 3	# BITS: 1	# BHA'S: 1	NO. OF MOTORS: 1	28.9

Well Parameters

RE-ENTRY	TOTAL DEPTH	
	MAIN HOLE	LEG 2
HOLE SIZE: 6 1/4 WHIPSTOCK SETTING: 205.71	HOLE SIZE:	HOLE SIZE: N/A
Coordinates: MD: 3158 TVD: 3150.98 INC: 3.9 DIRECTION: 211 VERTICAL SECTION: 77.51 N / S: -65.2 E / W: -42.1	Coordinates: MD: TVD: INC: DIRECTION: VERTICAL SECTION: N / S: E / W:	Coordinates: MD: TVD: INC: DIRECTION: VERTICAL SECTION: N / S: E / W:

RE-ENTRY DATA: N/A

TOP OF WINDOW: 2629.37 **DIRECTION:** 205.71
BOTTOM OF WINDOW: 2642.64 **RAT HOLE:** 9.5

DIRECTIONAL COMMENTS

BHA 1 - Drilled from 506 ft in 17.5 hrs - 28.9 ft/hr

Bit - 6.25" Reed R22AP Insert with open jets. Motor is an National 4.75", 7/8 lobe, 2.0 stage, .32 rev/gal, set at 1.83°.

Whipstock was oriented @ AZM of 205.7°, but drilled off @ 232.7°

BHA was hanging up and was hard to slide in the drop section of the well.

RECOMMENDATIONS

A flow meter would accurately measure the amount of air going downhole.

Auto driller would increase ROP due to the inconsistency of drilling by hand.

Drillers need to pay better attention to their weight indicators so they don't put too much weight on the bit and pull over their string weight.

Drill collars in BHA may have restricted the ROP at the end of the well. Use of HWDP may increase flexibility, ROP, and ability to slide.

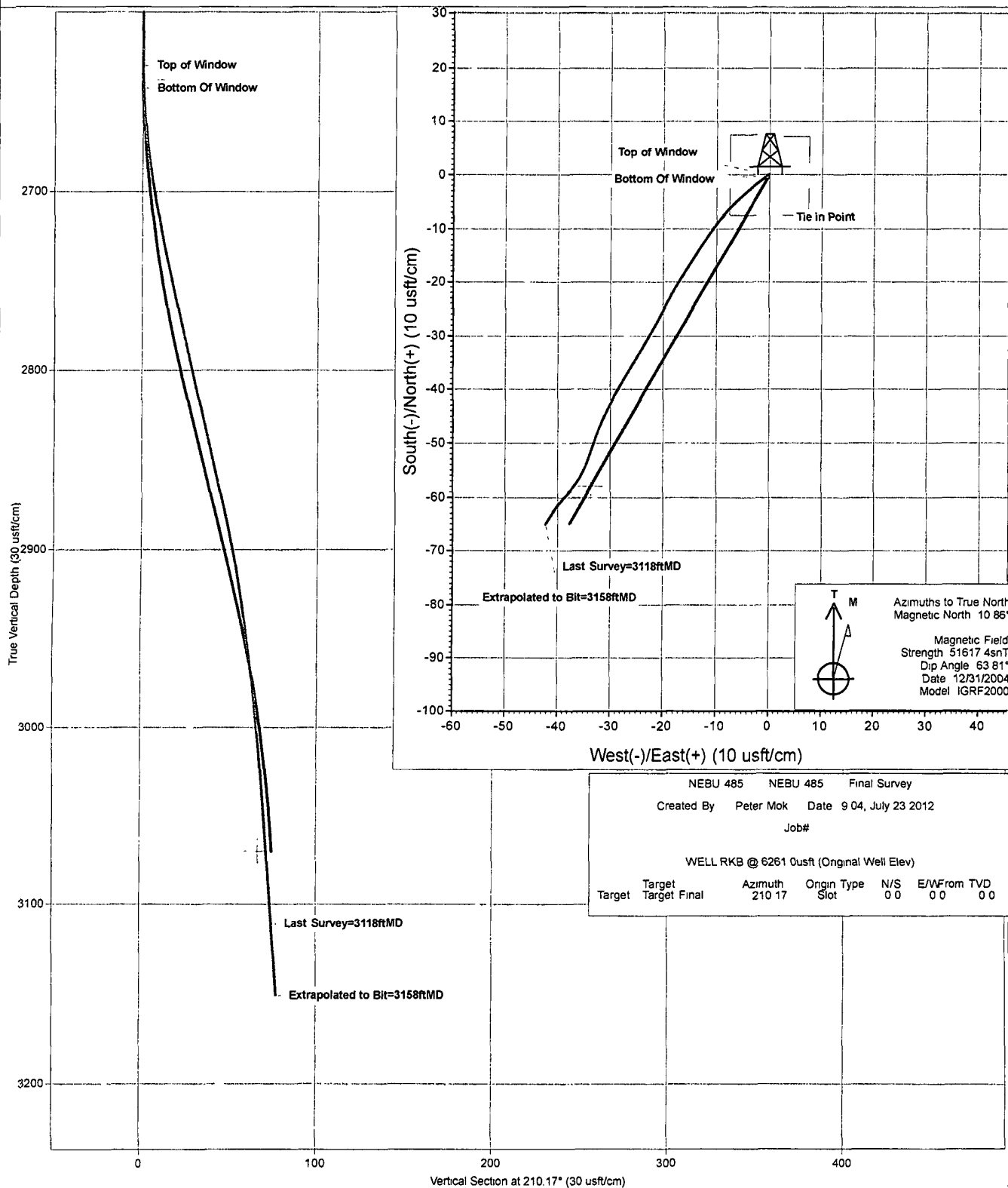
REPORT PREPARED BY:

Peter Leskosek

devon

Project: San Juan County, NM
 Site: NEBU 485
 Well: NEBU 485
 Wellbore: Wellbore #1
 Final Survey

MESA WEST
 DIRECTIONAL





Devon Energy Corp.

San Juan County, NM

NEBU 485

NEBU 485

Wellbore #1

Design: Final Survey

Mesa West Directional Survey Report

23 July, 2012



Company: Devon Energy Corp.
 Project: San Juan County, NM
 Site: NEBU 485
 Well: NEBU 485
 Wellbore: Wellbore #1
 Design: Final Survey

Local Co-ordinate Reference: Well NEBU 485
 TVD Reference: WELL RKB @ 6261.0usft (Original Well Elev)
 MD Reference: WELL RKB @ 6261.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDMDB

Project: San Juan County, NM

Map System: US State Plane 1927 (Exact solution)
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: New Mexico West 3003

System Datum: Mean Sea Level

Site: NEBU 485

Site Position: Northing: 2,127,078.92 usft Latitude: 36° 50' 43.158 N
 From: Lat/Long Easting: 582,165.22 usft Longitude: 107° 33' 9.102 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.17 °

Well: NEBU 485

Well Position +N/-S 0.0 usft Northing: 2,127,078.92 usft Latitude: 36° 50' 43.158 N
 +E/-W 0.0 usft Easting: 582,165.22 usft Longitude: 107° 33' 9.102 W
 Position Uncertainty 0.0 usft Wellhead Elevation: usft Ground Level: 6,254.0 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	10.86	63.81	51,617

Design: Final Survey

Audit Notes:

Version: 10 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	15.31

Survey Program: Date 7/23/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
2,629.0	3,158.0	Final Survey (Wellbore #1)	MWD	

Company:	Devon Energy Corp.	Local Co-ordinate Reference:	Well NEBU 485
Project:	San Juan County, NM	TVD Reference:	WELL RKB @ 6261.0usft (Original Well Elev)
Site:	NEBU 485	MD Reference:	WELL RKB @ 6261.0usft (Original Well Elev)
Well:	NEBU 485	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Final Survey	Database:	EDMDB

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)	
0.0	0.00	0.00	0.0	6,261.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
2,629.0	0.00	0.00	2,629.0	3,632.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
Top of Window											
2,642.0	3.10	232.70	2,642.0	3,619.0	-0.2	-0.3	23.85	23.85	0.00	-0.28	
Bottom Of Window											
2,668.0	6.70	232.70	2,667.9	3,593.1	-1.6	-2.0	13.85	13.85	0.00	-2.04	
2,700.0	10.50	228.20	2,699.5	3,561.5	-4.6	-5.7	12.05	11.87	-14.06	-5.98	
2,731.0	12.10	217.10	2,729.9	3,531.1	-9.1	-9.8	8.69	5.16	-35.81	-11.37	
2,763.0	13.00	212.00	2,761.2	3,499.8	-14.8	-13.7	4.46	2.81	-15.94	-17.93	
2,795.0	13.10	210.50	2,792.3	3,468.7	-21.0	-17.5	1.10	0.31	-4.69	-24.88	
2,826.0	13.60	207.40	2,822.5	3,438.5	-27.3	-20.9	2.82	1.61	-10.00	-31.83	
2,856.0	13.20	211.10	2,851.7	3,409.3	-33.3	-24.3	3.15	-1.33	12.33	-38.57	
2,888.0	12.60	210.50	2,882.9	3,378.1	-39.5	-28.0	1.92	-1.87	-1.87	-45.46	
2,918.0	10.40	205.90	2,912.3	3,348.7	-44.7	-30.8	7.94	-7.33	-15.33	-51.28	
2,950.0	8.20	198.50	2,943.9	3,317.1	-49.5	-32.8	7.81	-6.87	-23.12	-56.40	
2,982.0	6.80	199.80	2,975.6	3,285.4	-53.4	-34.2	4.41	-4.37	4.06	-60.56	
3,013.0	5.40	210.70	3,006.4	3,254.6	-56.4	-35.5	5.84	-4.52	35.16	-63.80	
3,045.0	4.80	221.90	3,038.3	3,222.7	-58.7	-37.2	3.62	-1.87	35.00	-66.45	
3,076.0	4.30	224.30	3,069.2	3,191.8	-60.5	-38.9	1.73	-1.61	7.74	-68.63	
3,118.0	3.90	211.00	3,111.1	3,149.9	-62.9	-40.7	2.45	-0.95	-31.67	-71.38	
Last Survey=3118ftMD											
3,158.0	3.90	211.00	3,151.0	3,110.0	-65.2	-42.1	0.00	0.00	0.00	-74.00	
Extrapolated to Bit=3158ftMD											

Checked By: _____ Approved By: _____ Date: _____