



DEVON ENERGY CORPORATION

Field: San Juan County, NM
Site: NEBU 63M
Well: NEBU 63M
Wellpath: Original Hole
Plan: Plan #2



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 8/30/2006
Model: igrf2005

FIELD DETAILS

San Juan County, NM
USA

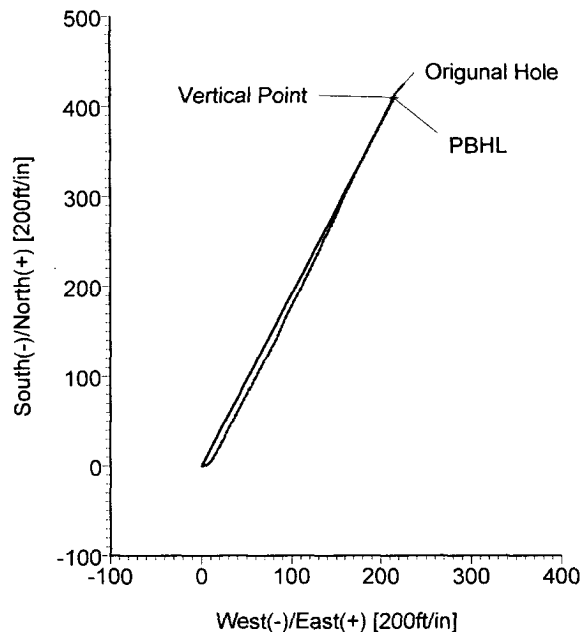
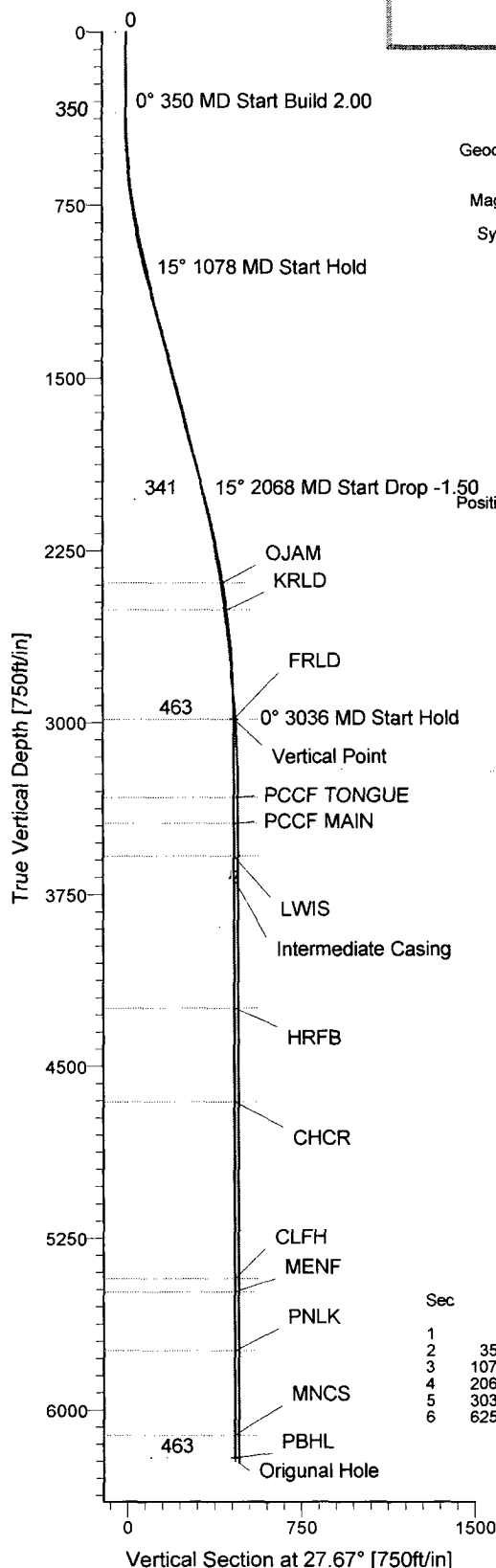
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Western Zone
Magnetic Model: igrf2005
System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

NEBU 63M

Water Depth: 0.00
Positional Uncertainty: 0.00
Convergence: 0.00

30-045-33476



WELLPATH DETAILS

Original Hole

Rig: SITE 0.00ft
Ref. Datum: SITE 0.00ft
V. Section Angle: 27.67°
Origin +N/-S: 0.00
Origin +E/-W: 0.00
Starting From TVD: 0.00

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Vertical Point	2986.00	410.21	215.09	00°00'00.000S	000°00'00.000W	Point
PBHL	6209.00	410.21	215.09	00°00'00.000S	000°00'00.000W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	27.67	0.00	0.00	0.00	0.00	0.00	0.00	
2	350.00	0.00	27.67	350.00	0.00	0.00	0.00	0.00	0.00	
3	1077.98	14.56	27.67	1070.17	81.48	42.72	2.00	27.67	92.00	
4	2067.82	14.56	27.67	2028.23	301.85	158.27	0.00	0.00	340.83	
5	3035.98	0.00	27.67	2986.00	410.21	215.09	1.50	180.00	463.18	Vertical Point
6	6258.98	0.00	27.67	6209.00	410.21	215.09	0.00	27.67	463.18	PBHL

Surface: 890/S 1615/E
BHL 1315/S 1290/E

MD 6259 TVD 6210

Ryan Energy Technology
19510 Oil Center Blvd
Houston, TX 77073
Ph: 281-443-1414
Fx: 281-443-1676



Ryan The leader in
UNDERGROUND INTELLIGENCE™

Plan: Plan #2 (NEBU 63M/Original Hole)
Created By: Alexis Gonzalez Date: 11/28/2006
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

B 2/9/07



Ryan Energy Technologied

Survey Report



Company: DEVON ENERGY CORPORATION
Field: San Juan County, NM
Site: NEBU 63M
Well: NEBU 63M
Wellpath: Original Hole

Date: 11/28/2006 Time: 09:21:46 Page: 1
Co-ordinate(NE) Reference: Site: NEBU 63M, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,27.67Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Field: San Juan County, NM

USA
Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2005

Site: NEBU 63M

Site Position: Northing: ft Latitude:
From: Local Only Easting: ft Longitude:
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 0.00 ft Grid Convergence: deg

Well: NEBU 63M

Slot Name:

Well Position: +N/-S 0.00 ft Northing: ft Latitude:
+E/-W 0.00 ft Easting: ft Longitude:
Position Uncertainty: 0.00 ft

Wellpath: Original Hole

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 0.00 deg
Mag Dip Angle: 0.00 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 0.00 ft
Magnetic Data: 8/30/2006
Field Strength: 0 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 27.67

Survey Program for Definitive Wellpath

Date: 11/28/2006 Validated: No Version: 0
Actual From To Survey Toolcode Tool Name
ft ft
323.00 3048.00 Survey #1 (323.00-3048.00) MWD
3325.00 6280.00 Survey #2 (3325.00-6280.00) Project

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
323.00	1.10	81.10	322.98	0.48	3.06	1.85	0.34	0.34	0.00	MWD
354.00	1.40	89.20	353.97	0.53	3.74	2.21	1.12	0.97	26.13	MWD
386.00	1.90	78.30	385.96	0.64	4.65	2.73	1.84	1.56	-34.06	MWD
417.00	2.20	61.00	416.94	1.04	5.67	3.55	2.21	0.97	-55.81	MWD
447.00	2.60	56.10	446.91	1.70	6.74	4.63	1.50	1.33	-16.33	MWD
478.00	3.00	45.20	477.88	2.66	7.90	6.02	2.14	1.29	-35.16	MWD
508.00	3.60	39.30	507.83	3.94	9.05	7.69	2.30	2.00	-19.67	MWD
539.00	3.90	38.90	538.76	5.51	10.33	9.68	0.97	0.97	-1.29	MWD
571.00	4.50	34.00	570.67	7.40	11.71	12.00	2.18	1.87	-15.31	MWD
601.00	5.00	31.50	600.57	9.49	13.06	14.47	1.80	1.67	-8.33	MWD
632.00	5.50	32.60	631.44	11.90	14.56	17.30	1.65	1.61	3.55	MWD
669.00	6.40	29.80	668.24	15.18	16.54	21.13	2.56	2.43	-7.57	MWD
700.00	7.60	29.40	699.01	18.47	18.41	24.90	3.87	3.87	-1.29	MWD
731.00	8.40	27.60	729.71	22.26	20.46	29.21	2.70	2.58	-5.81	MWD
763.00	9.10	26.20	761.34	26.60	22.66	34.08	2.29	2.19	-4.37	MWD
791.00	9.70	26.90	788.96	30.69	24.71	38.65	2.18	2.14	2.50	MWD
823.00	10.40	26.60	820.47	35.68	27.22	44.24	2.19	2.19	-0.94	MWD
854.00	11.30	26.20	850.91	40.90	29.81	50.07	2.91	2.90	-1.29	MWD
885.00	12.10	27.30	881.27	46.52	32.65	56.36	2.68	2.58	3.55	MWD
978.00	12.80	28.00	972.08	64.27	41.95	76.41	0.77	0.75	0.75	MWD
1073.00	12.60	27.30	1064.76	82.77	51.65	97.29	0.27	-0.21	-0.74	MWD



Ryan Energy Technologied Survey Report



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Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1167.00	13.50	28.70	1156.33	101.51	61.62	118.51	1.01	0.96	1.49	MWD
1259.00	14.80	27.30	1245.54	121.37	72.16	141.00	1.46	1.41	-1.52	MWD
1350.00	15.00	26.20	1333.48	142.27	82.69	164.40	0.38	0.22	-1.21	MWD
1443.00	14.80	26.20	1423.35	163.72	93.25	188.30	0.22	-0.22	0.00	MWD
1537.00	14.50	26.60	1514.29	185.02	103.82	212.07	0.34	-0.32	0.43	MWD
1628.00	14.20	26.90	1602.45	205.16	113.97	234.62	0.34	-0.33	0.33	MWD
1722.00	14.10	25.50	1693.60	225.77	124.12	257.59	0.38	-0.11	-1.49	MWD
1811.00	13.90	25.50	1779.96	245.21	133.39	279.11	0.22	-0.22	0.00	MWD
1902.00	13.70	25.20	1868.33	264.82	142.68	300.80	0.23	-0.22	-0.33	MWD
1996.00	13.40	25.20	1959.72	284.75	152.06	322.80	0.32	-0.32	0.00	MWD
2089.00	13.30	25.50	2050.20	304.16	161.25	344.25	0.13	-0.11	0.32	MWD
2182.00	12.10	25.90	2140.93	322.58	170.12	364.69	1.29	-1.29	0.43	MWD
2243.00	10.90	27.30	2200.70	333.46	175.55	376.85	2.02	-1.97	2.30	MWD
2335.00	9.70	25.90	2291.22	348.16	182.93	393.29	1.33	-1.30	-1.52	MWD
2429.00	8.70	28.40	2384.01	361.54	189.77	408.32	1.15	-1.06	2.66	MWD
2523.00	7.60	29.40	2477.05	373.21	196.20	421.64	1.18	-1.17	1.06	MWD
2616.00	6.50	27.60	2569.35	383.23	201.66	433.05	1.21	-1.18	-1.94	MWD
2707.00	6.20	25.90	2659.79	392.21	206.19	443.11	0.39	-0.33	-1.87	MWD
2800.00	4.80	27.60	2752.36	400.18	210.19	452.02	1.52	-1.51	1.83	MWD
2893.00	4.80	18.10	2845.04	407.33	213.20	459.75	0.85	0.00	-10.22	MWD
2955.00	4.70	22.70	2906.82	412.14	214.99	464.84	0.64	-0.16	7.42	MWD
2986.00	4.60	32.60	2937.72	414.36	216.15	467.34	2.61	-0.32	31.94	MWD
3018.00	4.20	38.90	2969.63	416.35	217.58	469.77	1.96	-1.25	19.69	MWD
3048.00	3.90	43.10	2999.55	417.95	218.96	471.83	1.41	-1.00	14.00	MWD
3325.00	0.00	43.10	3276.34	424.83	225.40	480.92	1.41	-1.41	0.00	Project
6280.00	0.00	43.10	6231.34	424.83	225.40	480.92	0.00	0.00	0.00	Project