



Devon Energy, Inc.

Eddy County, NM (NAD 83)
Snapping 2 State
Well #6H
OH

30-015-39142

Plan: Plan #2

Global X & Y Report

28 June, 2011

PATHFINDER[®]

A Schlumberger Company



Project: Eddy County, NM (NAD 83)
Site: Snapping 2 State
Well: Well #6H
Wellbore: OH
Plan: Plan #2 (Well #6H/OH)



Azimuths to Grd North
True North: -0.31°
Magnetic North: 7.34°
Magnetic Field
Strength: 48499.2 nT
Dip Angle: 60.01°
Date: 2011/06/27
Model: IGRF2010

PATHFINDER®
A Schlumberger Company

WELL DETAILS Well #6H

Ground Elevation: 3241.10
RKB Elevation: RKB to MSL @ 3267.10ft (H&P 146)
Rig Name: H&P 146

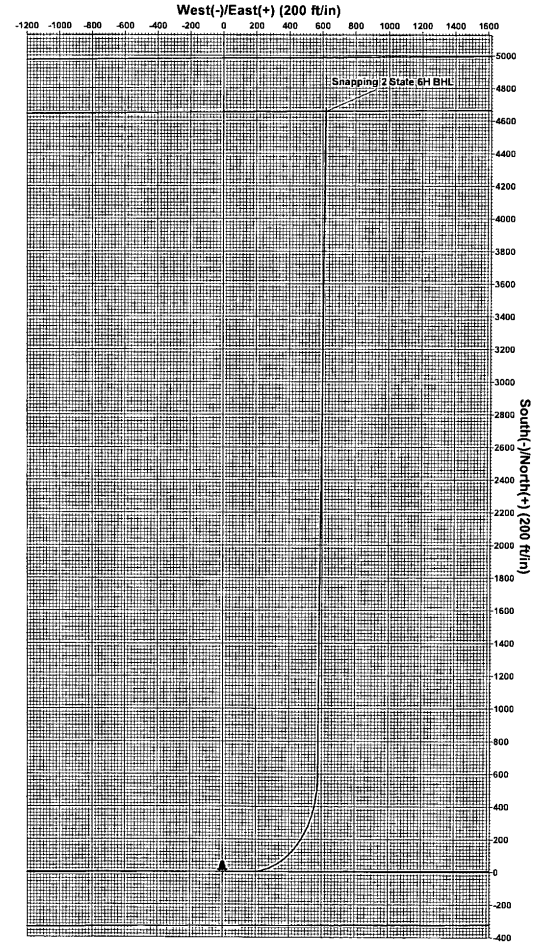
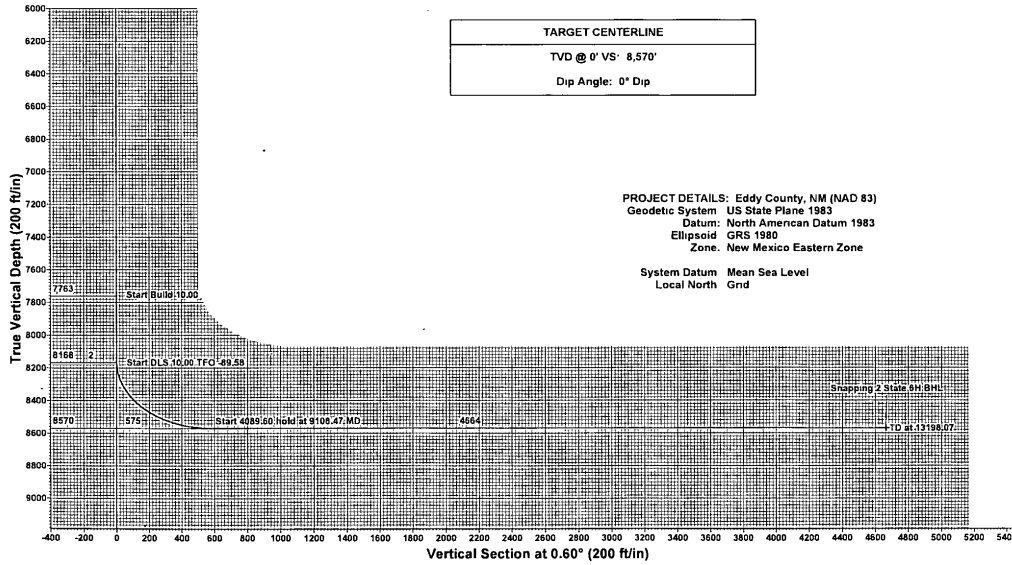
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	388163.65	722760.73	32° 3' 56.838201 N	103° 44' 51.577748 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7762.70	0.00	0.00	7762.70	0.00	0.00	0.00	0.00	0.00	
3	8212.70	45.00	90.00	8167.84	0.00	167.82	10.00	90.00	1.76	
4	9108.47	90.00	0.60	8570.00	568.71	575.92	10.00	-89.58	574.71	
5	13198.07	90.00	0.60	8570.00	4658.09	618.63	0.00	0.00	4664.31	Snapping 2 State 6H BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Snapping 2 State 6H BHL	8570.00	4658.09	618.63	392821.74	723379.36	Point



Plan Plan #2 (Well #6H/OH)
Created By: Kurt Otto Date: 7:22, June 28 2011

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Well #6H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	RKB to MSL @ 3267.10ft (H&P 146)
Site:	Snapping 2 State	MD Reference:	RKB to MSL @ 3267.10ft (H&P 146)
Well:	Well #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Landmark Network db

Project	Eddy County, NM (NAD 83)
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Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Snapping 2 State
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Site Position:		Northing:	388,157.02 ft	Latitude:	32° 3' 56.845500 N
From:	Map	Easting:	721,398.02 ft	Longitude:	103° 45' 7.414288 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.31 °

Well	Well #6H
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Well Position	+N/-S	0.00 ft	Northing:	388,163.65 ft	Latitude:	32° 3' 56.838201 N
	+E/-W	0.00 ft	Easting:	722,760.73 ft	Longitude:	103° 44' 51.577748 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,241.10 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/06/27	7.65	60.01	48,499

Design	Plan #2
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
	0.00 0.00 0.00 0.60

Survey Tool Program	Date 2011/06/28
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From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,197.87	Plan #2 (OH)	Pathfinder	Pathfinder MWD

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Site:	Snapping 2 State	MD Reference:	RKB to MSL @ 3267.10ft (H&P 146)
Well:	Well #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Landmark Network db

Planned Survey												
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	DLeg (°/100ft)	N/S (ft)	E/W (ft)	Northing (ft)	Easting (ft)		
7,762.70	0.00	0.00	7,762.70	-4,495.60	0.00	0.00	0.00	0.00	388,163.65	722,760.73		
7,800.00	3.73	90.00	7,799.97	-4,532.87	0.01	10.00	0.00	1.21	388,163.65	722,761.94		
7,850.00	8.73	90.00	7,849.66	-4,582.56	0.07	10.00	0.00	6.64	388,163.65	722,767.37		
7,900.00	13.73	90.00	7,898.69	-4,631.59	0.17	10.00	0.00	16.37	388,163.65	722,777.10		
7,950.00	18.73	90.00	7,946.68	-4,679.58	0.32	10.00	0.00	30.34	388,163.65	722,791.07		
8,000.00	23.73	90.00	7,993.27	-4,726.17	0.51	10.00	0.00	48.44	388,163.65	722,809.17		
8,050.00	28.73	90.00	8,038.11	-4,771.01	0.74	10.00	0.00	70.53	388,163.65	722,831.26		
8,100.00	33.73	90.00	8,080.85	-4,813.75	1.01	10.00	0.00	96.45	388,163.65	722,857.18		
8,150.00	38.73	90.00	8,121.17	-4,854.07	1.32	10.00	0.00	125.99	388,163.65	722,886.72		
8,200.00	43.73	90.00	8,158.76	-4,891.66	1.66	10.00	0.00	158.94	388,163.65	722,919.67		
8,212.70	45.00	90.00	8,167.84	-4,900.74	1.76	10.00	0.00	167.82	388,163.65	722,928.55		
8,250.00	45.15	84.73	8,194.19	-4,927.09	3.25	10.00	1.21	194.18	388,164.86	722,954.91		
8,300.00	45.72	77.76	8,229.30	-4,962.20	9.04	10.00	6.64	229.34	388,170.29	722,990.07		
8,350.00	46.71	70.97	8,263.92	-4,996.82	19.14	10.00	16.37	264.06	388,180.02	723,024.79		
8,400.00	48.09	64.44	8,297.78	-5,030.68	33.46	10.00	30.34	298.07	388,193.99	723,058.80		
8,450.00	49.82	58.22	8,330.63	-5,063.53	51.91	10.00	48.44	331.11	388,212.09	723,091.84		
8,500.00	51.86	52.33	8,362.22	-5,095.12	74.33	10.00	70.53	362.93	388,234.18	723,123.66		
8,550.00	54.18	46.78	8,392.31	-5,125.21	100.56	10.00	96.45	393.29	388,260.10	723,154.02		
8,600.00	56.75	41.57	8,420.66	-5,153.56	130.40	10.00	125.99	421.95	388,289.64	723,182.68		
8,650.00	59.51	36.66	8,447.07	-5,179.97	163.62	10.00	158.93	448.70	388,322.58	723,209.43		
8,700.00	62.45	32.04	8,471.33	-5,204.23	199.97	10.00	195.03	473.34	388,358.68	723,234.07		
8,750.00	65.54	27.66	8,493.26	-5,226.16	239.17	10.00	234.00	495.68	388,397.65	723,256.41		
8,800.00	68.74	23.49	8,512.69	-5,245.59	280.93	10.00	275.55	515.54	388,439.20	723,276.27		
8,850.00	72.04	19.51	8,529.47	-5,262.37	324.92	10.00	319.36	532.78	388,483.01	723,293.51		
8,900.00	75.43	15.67	8,543.48	-5,276.38	370.81	10.00	365.10	547.27	388,528.75	723,308.00		
8,950.00	78.87	11.95	8,554.60	-5,287.50	418.26	10.00	412.43	558.89	388,576.08	723,319.62		
9,000.00	82.35	8.31	8,562.76	-5,295.66	466.89	10.00	460.97	567.55	388,624.62	723,328.28		

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Site:	Snapping 2 State	MD Reference:	RKB to MSL @ 3267.10ft (H&P 146)
Well:	Well #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Landmark Network db

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	DLeg (°/100ft)	N/S (ft)	E/W (ft)	Northing (ft)	Easting (ft)	
9,050.00	85.87	4.74	8,567.89	-5,300.79	516.34	10.00	510.37	573.20	388,674.02	723,333.93	
9,100.00	89.40	1.20	8,569.96	-5,302.86	566.24	10.00	560.25	575.78	388,723.90	723,336.51	
9,108.47	90.00	0.60	8,570.00	-5,302.90	574.71	10.00	568.71	575.92	388,732.36	723,336.65	
9,200.00	90.00	0.60	8,570.00	-5,302.90	666.24	0.00	660.24	576.87	388,823.89	723,337.60	
9,300.00	90.00	0.60	8,570.00	-5,302.90	766.24	0.00	760.23	577.92	388,923.88	723,338.65	
9,400.00	90.00	0.60	8,570.00	-5,302.90	866.24	0.00	860.23	578.96	389,023.88	723,339.69	
9,500.00	90.00	0.60	8,570.00	-5,302.90	966.24	0.00	960.22	580.01	389,123.87	723,340.74	
9,600.00	90.00	0.60	8,570.00	-5,302.90	1,066.24	0.00	1,060.22	581.05	389,223.87	723,341.78	
9,700.00	90.00	0.60	8,570.00	-5,302.90	1,166.24	0.00	1,160.21	582.09	389,323.86	723,342.82	
9,800.00	90.00	0.60	8,570.00	-5,302.90	1,266.24	0.00	1,260.21	583.14	389,423.86	723,343.87	
9,900.00	90.00	0.60	8,570.00	-5,302.90	1,366.24	0.00	1,360.20	584.18	389,523.85	723,344.91	
10,000.00	90.00	0.60	8,570.00	-5,302.90	1,466.24	0.00	1,460.20	585.23	389,623.85	723,345.96	
10,100.00	90.00	0.60	8,570.00	-5,302.90	1,566.24	0.00	1,560.19	586.27	389,723.84	723,347.00	
10,200.00	90.00	0.60	8,570.00	-5,302.90	1,666.24	0.00	1,660.18	587.32	389,823.83	723,348.05	
10,300.00	90.00	0.60	8,570.00	-5,302.90	1,766.24	0.00	1,760.18	588.36	389,923.83	723,349.09	
10,400.00	90.00	0.60	8,570.00	-5,302.90	1,866.24	0.00	1,860.17	589.41	390,023.82	723,350.14	
10,500.00	90.00	0.60	8,570.00	-5,302.90	1,966.24	0.00	1,960.17	590.45	390,123.82	723,351.18	
10,600.00	90.00	0.60	8,570.00	-5,302.90	2,066.24	0.00	2,060.16	591.49	390,223.81	723,352.22	
10,700.00	90.00	0.60	8,570.00	-5,302.90	2,166.24	0.00	2,160.16	592.54	390,323.81	723,353.27	
10,800.00	90.00	0.60	8,570.00	-5,302.90	2,266.24	0.00	2,260.15	593.58	390,423.80	723,354.31	
10,900.00	90.00	0.60	8,570.00	-5,302.90	2,366.24	0.00	2,360.15	594.63	390,523.80	723,355.36	
11,000.00	90.00	0.60	8,570.00	-5,302.90	2,466.24	0.00	2,460.14	595.67	390,623.79	723,356.40	
11,100.00	90.00	0.60	8,570.00	-5,302.90	2,566.24	0.00	2,560.14	596.72	390,723.79	723,357.45	
11,200.00	90.00	0.60	8,570.00	-5,302.90	2,666.24	0.00	2,660.13	597.76	390,823.78	723,358.49	
11,300.00	90.00	0.60	8,570.00	-5,302.90	2,766.24	0.00	2,760.12	598.81	390,923.77	723,359.54	
11,400.00	90.00	0.60	8,570.00	-5,302.90	2,866.24	0.00	2,860.12	599.85	391,023.77	723,360.58	
11,500.00	90.00	0.60	8,570.00	-5,302.90	2,966.24	0.00	2,960.11	600.89	391,123.76	723,361.62	

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Site:	Snapping 2 State	MD Reference:	RKB to MSL @ 3267.10ft (H&P 146)
Well:	Well #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	Landmark Network db

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	DLeg (°/100ft)	N/S (ft)	E/W (ft)	Northing (ft)	Easting (ft)	
11,600.00	90.00	0.60	8,570.00	-5,302.90	3,066.24	0.00	3,060.11	601.94	391,223.76	723,362.67	
11,700.00	90.00	0.60	8,570.00	-5,302.90	3,166.24	0.00	3,160.10	602.98	391,323.75	723,363.71	
11,800.00	90.00	0.60	8,570.00	-5,302.90	3,266.24	0.00	3,260.10	604.03	391,423.75	723,364.76	
11,900.00	90.00	0.60	8,570.00	-5,302.90	3,366.24	0.00	3,360.09	605.07	391,523.74	723,365.80	
12,000.00	90.00	0.60	8,570.00	-5,302.90	3,466.24	0.00	3,460.09	606.12	391,623.74	723,366.85	
12,100.00	90.00	0.60	8,570.00	-5,302.90	3,566.24	0.00	3,560.08	607.16	391,723.73	723,367.89	
12,200.00	90.00	0.60	8,570.00	-5,302.90	3,666.24	0.00	3,660.08	608.21	391,823.73	723,368.94	
12,300.00	90.00	0.60	8,570.00	-5,302.90	3,766.24	0.00	3,760.07	609.25	391,923.72	723,369.98	
12,400.00	90.00	0.60	8,570.00	-5,302.90	3,866.24	0.00	3,860.06	610.29	392,023.71	723,371.02	
12,500.00	90.00	0.60	8,570.00	-5,302.90	3,966.24	0.00	3,960.06	611.34	392,123.71	723,372.07	
12,600.00	90.00	0.60	8,570.00	-5,302.90	4,066.24	0.00	4,060.05	612.38	392,223.70	723,373.11	
12,700.00	90.00	0.60	8,570.00	-5,302.90	4,166.24	0.00	4,160.05	613.43	392,323.70	723,374.16	
12,800.00	90.00	0.60	8,570.00	-5,302.90	4,266.24	0.00	4,260.04	614.47	392,423.69	723,375.20	
12,900.00	90.00	0.60	8,570.00	-5,302.90	4,366.24	0.00	4,360.04	615.52	392,523.69	723,376.25	
13,000.00	90.00	0.60	8,570.00	-5,302.90	4,466.24	0.00	4,460.03	616.56	392,623.68	723,377.29	
13,100.00	90.00	0.60	8,570.00	-5,302.90	4,566.24	0.00	4,560.03	617.61	392,723.68	723,378.34	
13,198.07	90.00	0.60	8,570.00	-5,302.90	4,664.31	0.00	4,658.09	618.63	392,821.74	723,379.36	

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Snapping 2 State 6H I - plan hits target center - Point	0.00	0.00	8,570.00	4,658.09	618.63	392,821.74	723,379.36	32° 4' 42.900357 N	3° 44' 44.093757 W

Checked By: _____ Approved By: _____ Date: _____