



Weatherford®

Drilling Services

30-015-40423

Proposal



devon

ONYX PWU 29 #2H

EDDY COUNTY, NM

WELL FILE: **PLAN 2**

JUNE 15, 2012

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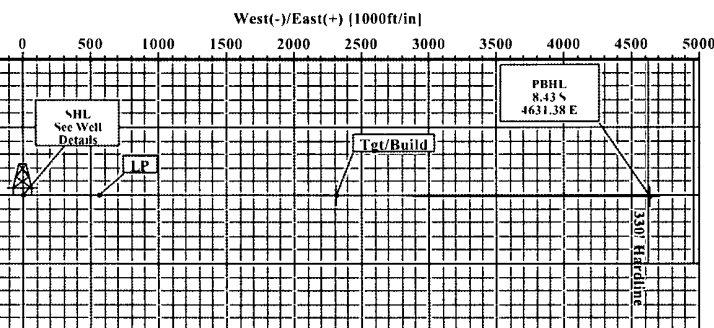
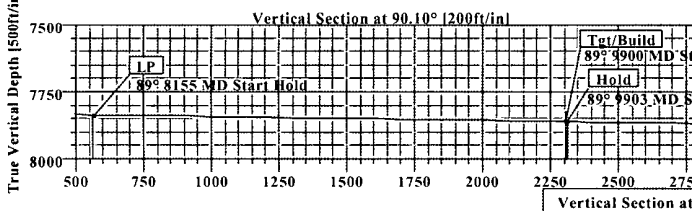
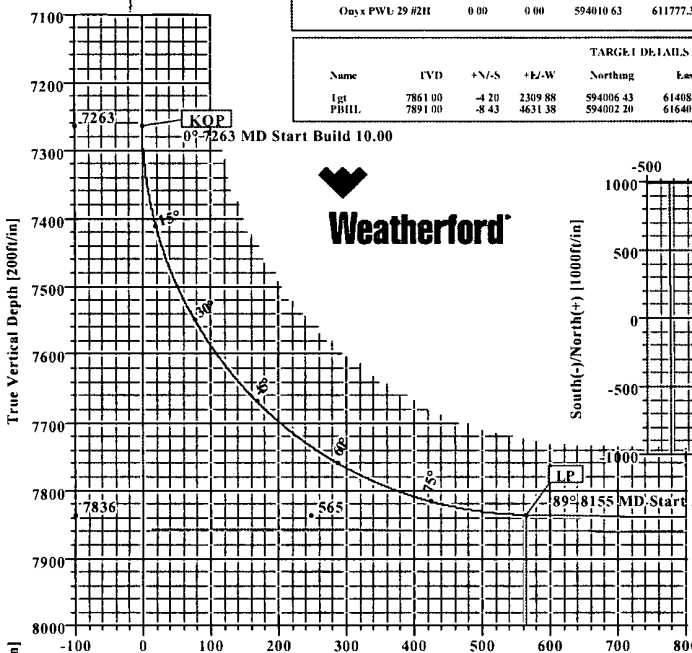
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Onyx PWU 29 #2H
Eddy Co, NM

KB ELEV: 3331
GL ELEV: 3312



LEGEND
Onyx PWU 29-III (Lateral)
Onyx PWU 29-III (Pilot)
Plan #2

SITE DETAILS
Onyx PWU 29 #2H
Site Centre: Northing: 594010.63
Eastings: 611777.35
Ground Level: 3312.00
Positional Uncertainty: 0.00
Convergence: 0.12

Sec	MD	Inc	Δ ₁	IVD	+N/-S	+E/-W	DLeg	T Face	Vscc	Target
1	0.00	0.00	90.10	0.00	0.00	0.00	0.00	0.00	0.00	
2	7263.10	0.00	90.10	7263.10	0.00	0.00	0.00	0.00	0.00	
3	8154.89	89.18	90.10	7836.00	-1.03	564.75	10.00	90.10	564.75	
4	9900.20	89.18	90.10	7861.00	-4.20	2309.88	0.00	0.00	2309.88	Igt
5	9902.89	89.26	90.10	7861.04	-4.20	2312.56	3.00	0.16	2312.57	
6	12221.90	89.26	90.10	7891.00	-8.43	4631.38	0.00	0.00	4631.39	PBHL

Name	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude	Slot
Onyx PWU 29 #2H	0.00	0.00	594010.63	611777.35	32°37'57.982N	104°06'16.265W	N/A

Name	IVD	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude	Shape
Igt	7861.00	-4.20	2309.88	594006.43	614087.23	32°37'57.890N	104°05'49.253W	Point
PBHL	7891.00	-8.43	4631.38	594002.20	616408.73	32°37'57.797N	104°05'22.105W	Point

Arithmetic to Grid North
True North: -0.12°
Magnetic North: 7.60°
Magnetic Field
Strength: 48712nT
Dip Angle: 60.44°
Date: 8/15/2012
Model: IGRF2010
Total Correction to Grid North: 7.60°

FIELD DETAILS
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinates System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

Plan: Plan #2 (Onyx PWU 29 #2H/1)
Created By: Russell W Joyner
Date: 6/15/2012



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WFT Plan Report - X & Y's



Company: Devon Energy	Date: 6/15/2012	Time: 08:32:24	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Onyx PWU 29 #2H, Grid North	
Site: Onyx PWU 29 #2H	Vertical (TVD) Reference:	SITE 3331 0	
Well: Onyx PWU 29 #2H	Section (VS) Reference:	Well (0.00N,0.00E,90.10Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #2	Date Composed: 6/15/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Onyx PWU 29 #2H

Site Position:	Northings:	594010.63 ft	Latitude:	32 37 57.982 N
From: Map	Easting:	611777.35 ft	Longitude:	104 6 16.265 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3312 00 ft		Grid Convergence:	0 12 deg

Well: Onyx PWU 29 #2H	Slot Name:
Well Position:	+N/-S 0.00 ft Northing: 594010 63 ft Latitude: 32 37 57 982 N
	+E/-W 0.00 ft Easting: 611777 35 ft Longitude: 104 6 16 265 W
Position Uncertainty:	0.00 ft

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 8/15/2012	Above System Datum: Mean Sea Level
Field Strength: 48712 nT	Declination: 7 72 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.44 deg
	+N/-S +E/-W Direction
	ft ft deg
0 00	0.00 0.00 90.10

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0 00	0 00	90.10	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
7263.10	0 00	90.10	7263 10	0 00	0 00	0 00	0 00	0 00	0 00	
8154.89	89 18	90.10	7836 00	-1 03	564.75	10 00	10 00	0 00	90.10	
9900.20	89 18	90.10	7861.00	-4 20	2309.88	0 00	0 00	0 00	0 00	Tgt
9902.89	89 26	90.10	7861 04	-4 20	2312.56	3 00	3 00	0 01	0 16	
12221 90	89 26	90 10	7891 00	-8.43	4631.38	0 00	0 00	0 00	0 00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7200.00	0 00	90.10	7200 00	0 00	0 00	0 00	0 00	594010.63	611777.35	
7263.10	0 00	90 10	7263 10	0 00	0 00	0 00	0 00	594010.63	611777.35	KOP
7300.00	3 69	90.10	7299 97	0 00	1 19	1 19	10.00	594010 63	611778.54	
7350.00	8 69	90.10	7349 67	-0 01	6 58	6 58	10.00	594010 62	611783 93	
7400 00	13 69	90.10	7398 70	-0 03	16 28	16 28	10.00	594010.60	611793 63	
7450.00	18 69	90.10	7446 70	-0 05	30 21	30.21	10 00	594010.58	611807.56	
7500.00	23 69	90.10	7493.31	-0 09	48 28	48 28	10 00	594010 54	611825.63	
7550.00	28 69	90.10	7538.16	-0 13	70 34	70 34	10 00	594010 50	611847.69	
7600 00	33 69	90.10	7580.92	-0 17	96 23	96 23	10.00	594010 46	611873 58	
7650 00	38 69	90 10	7621 26	-0 23	125.74	125.74	10.00	594010 40	611903.09	
7700 00	43 69	90 10	7658.87	-0 29	158 66	158.66	10 00	594010.34	611936.01	
7750 00	48 69	90 10	7693 48	-0 35	194.73	194 73	10.00	594010.28	611972 08	
7800 00	53 69	90 10	7724.80	-0 42	233.68	233.68	10 00	594010 21	612011 03	
7850.00	58 69	90.10	7752.62	-0 50	275 21	275 21	10 00	594010 13	612052.56	
7900.00	63 69	90.10	7776.70	-0 58	319.01	319.01	10 00	594010 05	612096 36	



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WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Onyx PWU 29 #2H
Well: Onyx PWU 29 #2H
Wellpath: 1

Date: 6/15/2012 Time: 08:32:24 Page: 2
Co-ordinate(NE) Reference: Well: Onyx PWU 29 #2H, Grid North
Vertical (TVD) Reference: SITE 3331.0
Section (VS) Reference: Well (0 00N,0 00E,90 10Azi)
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	MapN ft	MapE ft	Comment
7950.00	68.69	90.10	7796.88	-0.66	364.74	364.74	10.00	594009.97	612142.09	
8000.00	73.69	90.10	7813.00	-0.75	412.05	412.05	10.00	594009.88	612189.40	
8050.00	78.69	90.10	7824.93	-0.84	460.59	460.59	10.00	594009.79	612237.94	
8100.00	83.69	90.10	7832.59	-0.93	509.98	509.99	10.00	594009.70	612287.33	
8154.89	89.18	90.10	7836.00	-1.03	564.75	564.75	10.00	594009.60	612342.10	LP
8200.00	89.18	90.10	7836.65	-1.11	609.85	609.85	0.00	594009.52	612387.20	
8300.00	89.18	90.10	7838.08	-1.29	709.84	709.84	0.00	594009.34	612487.19	
8400.00	89.18	90.10	7839.51	-1.47	809.83	809.83	0.00	594009.16	612587.18	
8500.00	89.18	90.10	7840.94	-1.65	909.82	909.82	0.00	594008.98	612687.17	
8600.00	89.18	90.10	7842.38	-1.84	1009.81	1009.81	0.00	594008.79	612787.16	
8700.00	89.18	90.10	7843.81	-2.02	1109.80	1109.80	0.00	594008.61	612887.15	
8800.00	89.18	90.10	7845.24	-2.20	1209.79	1209.79	0.00	594008.43	612987.14	
8900.00	89.18	90.10	7846.67	-2.38	1309.78	1309.78	0.00	594008.25	613087.13	
9000.00	89.18	90.10	7848.10	-2.56	1409.77	1409.77	0.00	594008.07	613187.12	
9100.00	89.18	90.10	7849.54	-2.75	1509.76	1509.76	0.00	594007.88	613287.11	
9200.00	89.18	90.10	7850.97	-2.93	1609.75	1609.75	0.00	594007.70	613387.10	
9300.00	89.18	90.10	7852.40	-3.11	1709.74	1709.74	0.00	594007.52	613487.09	
9400.00	89.18	90.10	7853.83	-3.29	1809.73	1809.73	0.00	594007.34	613587.08	
9500.00	89.18	90.10	7855.27	-3.47	1909.72	1909.72	0.00	594007.16	613687.07	
9600.00	89.18	90.10	7856.70	-3.65	2009.71	2009.71	0.00	594006.98	613787.06	
9700.00	89.18	90.10	7858.13	-3.84	2109.70	2109.70	0.00	594006.79	613887.05	
9800.00	89.18	90.10	7859.56	-4.02	2209.69	2209.69	0.00	594006.61	613987.04	
9900.20	89.18	90.10	7861.00	-4.20	2309.88	2309.88	0.00	594006.43	614087.23	Tgt
9902.89	89.26	90.10	7861.04	-4.20	2312.56	2312.57	3.00	594006.43	614089.91	Hold
10000.00	89.26	90.10	7862.29	-4.38	2409.67	2409.67	0.00	594006.25	614187.02	
10100.00	89.26	90.10	7863.58	-4.56	2509.66	2509.66	0.00	594006.07	614287.01	
10200.00	89.26	90.10	7864.88	-4.75	2609.65	2609.65	0.00	594005.88	614387.00	
10300.00	89.26	90.10	7866.17	-4.93	2709.64	2709.65	0.00	594005.70	614486.99	
10400.00	89.26	90.10	7867.46	-5.11	2809.63	2809.64	0.00	594005.52	614586.98	
10500.00	89.26	90.10	7868.75	-5.29	2909.62	2909.63	0.00	594005.34	614686.97	
10600.00	89.26	90.10	7870.04	-5.47	3009.62	3009.62	0.00	594005.16	614786.97	
10700.00	89.26	90.10	7871.34	-5.66	3109.61	3109.61	0.00	594004.97	614886.96	
10800.00	89.26	90.10	7872.63	-5.84	3209.60	3209.60	0.00	594004.79	614986.95	
10900.00	89.26	90.10	7873.92	-6.02	3309.59	3309.60	0.00	594004.61	615086.94	
11000.00	89.26	90.10	7875.21	-6.20	3409.58	3409.59	0.00	594004.43	615186.93	
11100.00	89.26	90.10	7876.50	-6.39	3509.57	3509.58	0.00	594004.24	615286.92	
11200.00	89.26	90.10	7877.80	-6.57	3609.56	3609.57	0.00	594004.06	615386.91	
11300.00	89.26	90.10	7879.09	-6.75	3709.56	3709.56	0.00	594003.88	615486.91	
11400.00	89.26	90.10	7880.38	-6.93	3809.55	3809.55	0.00	594003.70	615586.90	
11500.00	89.26	90.10	7881.67	-7.11	3909.54	3909.55	0.00	594003.52	615686.89	
11600.00	89.26	90.10	7882.96	-7.30	4009.53	4009.54	0.00	594003.33	615786.88	
11700.00	89.26	90.10	7884.26	-7.48	4109.52	4109.53	0.00	594003.15	615886.87	
11800.00	89.26	90.10	7885.55	-7.66	4209.51	4209.52	0.00	594002.97	615986.86	
11900.00	89.26	90.10	7886.84	-7.84	4309.50	4309.51	0.00	594002.79	616086.85	
12000.00	89.26	90.10	7888.13	-8.03	4409.50	4409.50	0.00	594002.60	616186.85	
12100.00	89.26	90.10	7889.42	-8.21	4509.49	4509.50	0.00	594002.42	616286.84	
12200.00	89.26	90.10	7890.72	-8.39	4609.48	4609.49	0.00	594002.24	616386.83	
12221.90	89.26	90.10	7891.00	-8.43	4631.38	4631.39	0.00	594002.06	616408.73	PBHL



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WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co , NM (NAD 83)
Site: Onyx PWU 29 #2H
Well: Onyx PWU 29 #2H
Wellpath: 1

Date: 6/15/2012 Time: 08:32 24 Page: 3
Co-ordinate(NE) Reference: Well Onyx PWU 29 #2H, Grid North
Vertical (TVD) Reference: SITE 3331 0
Section (VS) Reference: Well (0 00N,0 00E,90 10Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Tgt			7861 00	-4 20	2309 88	594006 43	614087.23	32 37 57 890 N	104 5 49 253 W
PBHL			7891 00	-8 43	4631.38	594002.20	616408 73	32 37 57 797 N	104 5 22 105 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7263 10	7263.10	KOP
8154 89	7836 00	LP
9900 20	7861 00	Tgt/Build
9902 89	7861.04	Hold
12221.90	7891 00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: June 15, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Onyx PWU 29 #2H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM (NAD 83)
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 594010.630 USFT	Latitude 32.6327760 DEG
East/West 611777.350 USFT	Longitude -104.1045141 DEG
Grid Convergence: .12°	
Total Correction: +7.60°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.63278° N	32° 37 min 57.994 sec
Longitude =	104.10451° W	104° 6 min 16.251 sec

Magnetic Declination =	7.72°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6592
Local Field Strength =	48708 nT	Magnetic Vector X = 23808 nT
Magnetic Dip =	60.44°	Magnetic Vector Y = 3228 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42370 nT
Spud Date =	Aug 15, 2012	Magnetic Vector H = 24026 nT

Signed: _____

Date: _____