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Devon Energy Corporation

HALLIBURTON | Sperry Drilling

JUL 23 2012

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devon

Project: Eddy County, NM (NAD 83)
Site: Onyx PWU 29
Well: Onyx PWU 29 6H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation: GL 3314.1' + 25'KB @ 3339 10ft (Cactus 126)
Northing Easting Latitude Longitude
594760 21 616689.03 32° 38' 5.303 N 104° 5' 18.792 W

SECTION DETAILS

CASING DETAILS

TVD	MD	Name
300.00	300.00	Surface Csg
3200.00	3200.00	Intermediate Csg
6888.01	11644.00	Production Csg

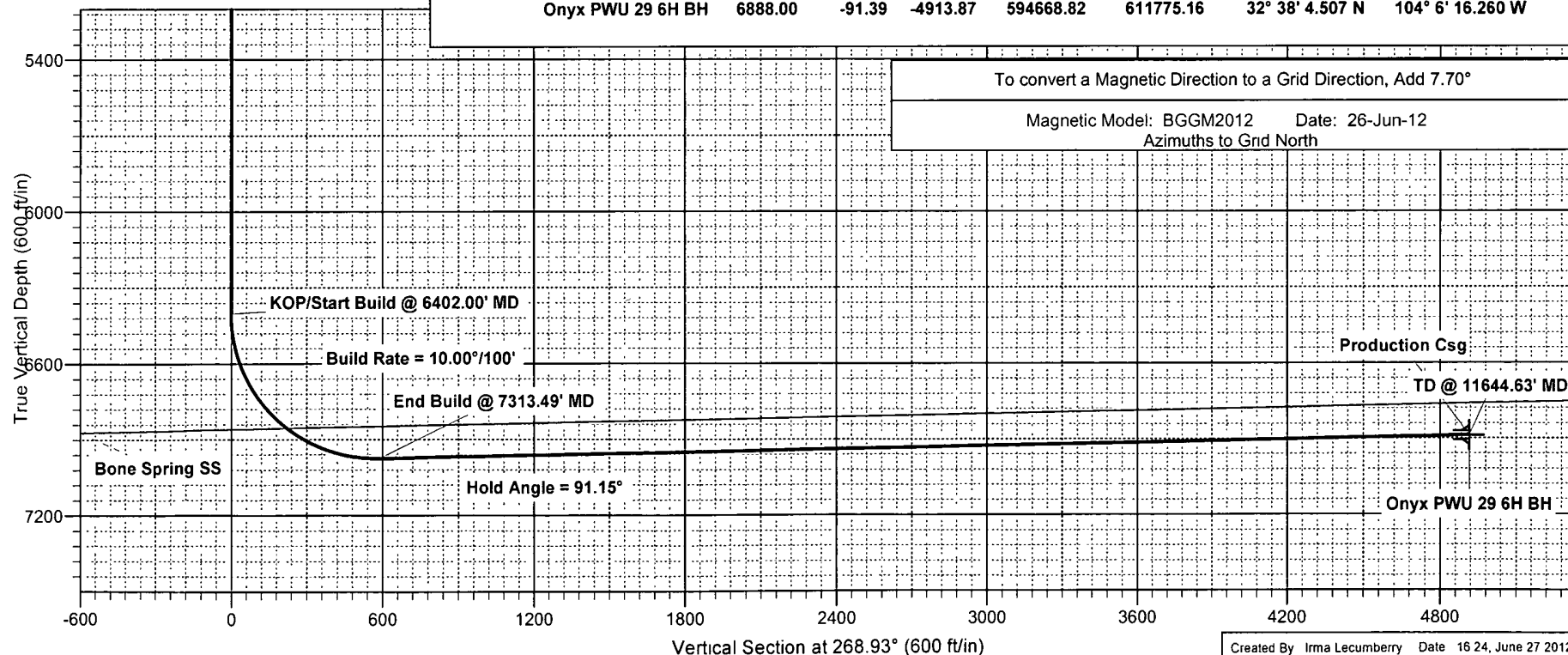
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6402.00	0.00	0.00	6402.00	0.00	0.00	0.00	0.00	0.00	KOP/Start Build
7313.49	91.15	268.93	6974.84	-10.87	-584.34	10.00	268.93	584.45	End Build
11644.63	91.15	268.93	6888.00	-91.39	-4913.87	0.00	0.00	4914.72	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Onyx PWU 29 6H BH	6888.00	-91.39	-4913.87	594668.82	611775.16	32° 38' 4.507 N	104° 6' 16.260 W

To convert a Magnetic Direction to a Grid Direction, Add 7.70°

Magnetic Model: BGGM2012 Date: 26-Jun-12
Azimuths to Grd North



Created By Irma Lecumberry Date 16 24, June 27 2012



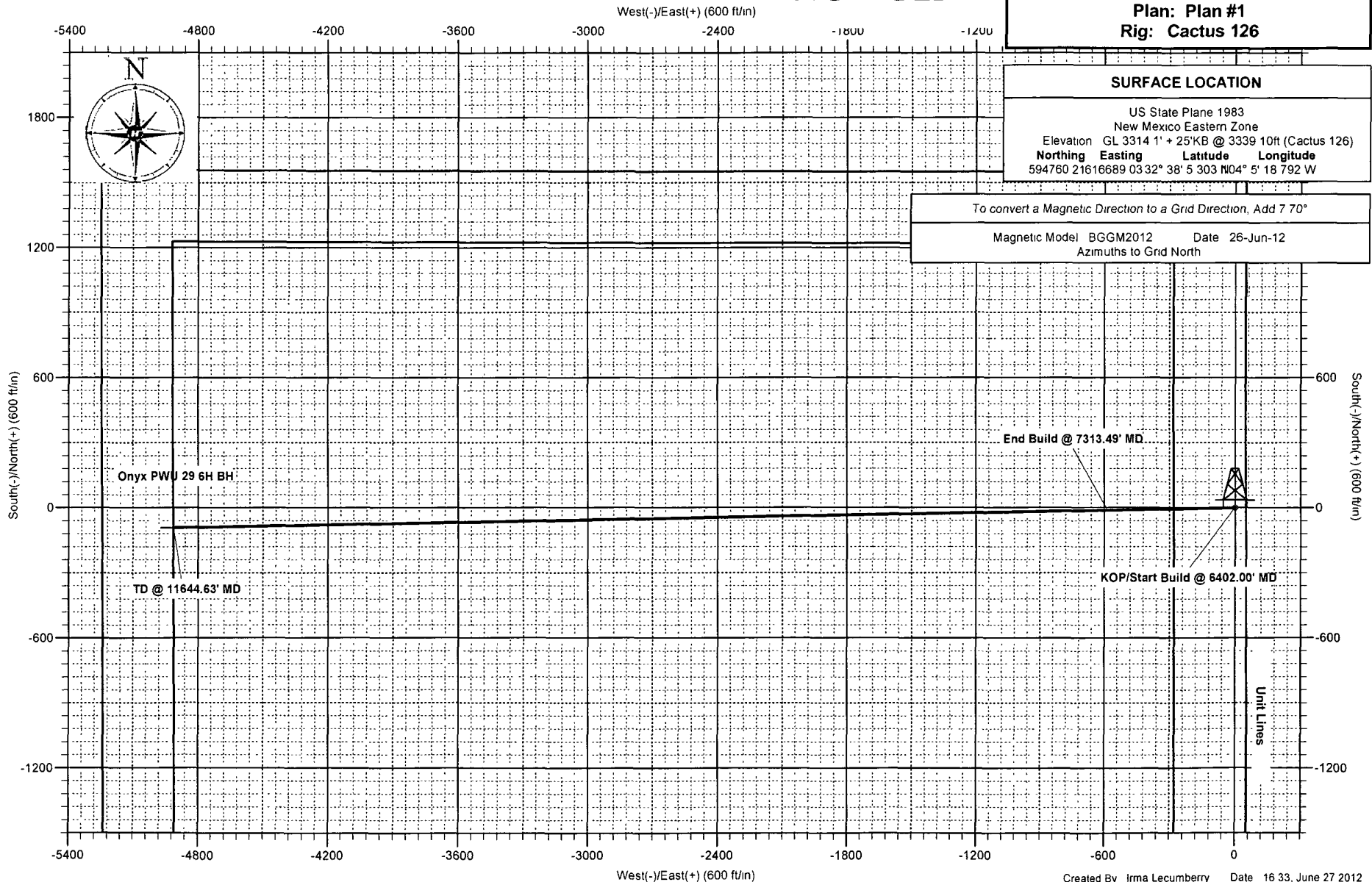
Project: Eddy County, NM (NAD 83)
 Site: Onyx PWU 29
 Well: Onyx PWU 29 6H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3314 1' + 25'KB @ 3339 10ft (Cactus 126)
 Northing Easting Latitude Longitude
 594760 21616689 03 32° 38' 5 303 N04° 5' 18 792 W

To convert a Magnetic Direction to a Grid Direction, Add 7 70°

Magnetic Model BGGM2012 Date 26-Jun-12
 Azimuths to Grid North



Devon Energy Corporation

Eddy County, NM (NAD 83)

Onyx PWU 29

Onyx PWU 29 6H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

27 June, 2012

Well Coordinates 594,760 21 N, 616,689 03 E (32° 38' 05 30" N, 104° 05' 18 79" W)
Ground Level 3,314 10 ft

Local Coordinate Origin	Centered on Well Onyx PWU 29 6H
Viewing Datum	GL 3314 1' + 25'KB @ 3339 10ft (Cactus 126)
TVDs to System	N
North Reference	Grid
Unit System	API - US Survey Feet

Version 2003 16 Build 431

HALLIBURTON

Plan Report for Onyx PWU 29 6H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0 00	0 00	0 00	0 00	0.00	0.00	0 00	0 00	0 00	0 00	0 00
25 00	0 00	0 00	25 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Rustler										
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Surface Csg										
419 00	0 00	0 00	419 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Salt										
1,070 00	0 00	0 00	1,070 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Base Salt										
3,200 00	0 00	0 00	3,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Intermediate Csg										
3,269 00	0 00	0 00	3,269 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware										
6,402 00	0 00	0 00	6,402 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Build Rate = 10.00°/100' - KOP/Start Build @ 6402.00' MD										
6,500 00	9 80	268 93	6,499 52	-0 16	-8 36	8 36	10 00	10 00	0 00	268 93
6,600 00	19 80	268 93	6,596 08	-0 63	-33 87	33 87	10 00	10 00	0 00	0 00
6,700 00	29 80	268 93	6,686 75	-1 41	-75 75	75 76	10 00	10 00	0 00	0 00
6,800 00	39 80	268 93	6,768 76	-2 47	-132 74	132 76	10 00	10 00	0 00	0 00
6,900 00	49 80	268 93	6,839 62	-3 78	-203 10	203 14	10 00	10 00	0 00	0 00
6,924 00	52 20	268 93	6,854 73	-4 12	-221 75	221 79	10 00	10 00	0 00	0 00
Bone Spring SS										
7,000 00	59 80	268 93	6,897 19	-5 29	-284 70	284 75	10 00	10 00	0 00	0 00
7,100 00	69 80	268 93	6,939 72	-6 98	-375 05	375 12	10 00	10 00	0 00	0 00
7,200 00	79 80	268 93	6,965 90	-8 77	-471 41	471 50	10 00	10 00	0 00	0 00
7,300 00	89 80	268 93	6,974 95	-10 62	-570 86	570 96	10 00	10 00	0 00	0 00
7,313 49	91 15	268 93	6,974 84	-10 87	-584 35	584 45	10 00	10 00	0 00	0 00
Hold Angle = 91.15° - End Build @ 7313.49' MD										
7,400 00	91 15	268 93	6,973 11	-12 48	-670 82	670 94	0 00	0 00	0 00	0 00
7,500 00	91 15	268 93	6,971 10	-14 34	-770 79	770 92	0 00	0 00	0 00	0 00
7,600 00	91 15	268 93	6,969 10	-16 19	-870 75	870 90	0 00	0 00	0 00	0 00
7,700 00	91 15	268 93	6,967 09	-18 05	-970 71	970 88	0 00	0 00	0 00	0 00
7,800 00	91 15	268 93	6,965 09	-19 91	-1,070 67	1,070 86	0 00	0 00	0 00	0 00
7,900 00	91 15	268 93	6,963 08	-21 77	-1,170 64	1,170 84	0 00	0 00	0 00	0 00
8,000 00	91 15	268 93	6,961 08	-23 63	-1,270 60	1,270 82	0 00	0 00	0 00	0 00
8,100 00	91 15	268 93	6,959 07	-25 49	-1,370 56	1,370 80	0 00	0 00	0 00	0 00
8,200 00	91 15	268 93	6,957 07	-27 35	-1,470 52	1,470 78	0 00	0 00	0 00	0 00
8,300 00	91 15	268 93	6,955 06	-29 21	-1,570 49	1,570 76	0 00	0 00	0 00	0 00
8,400 00	91 15	268 93	6,953 06	-31 07	-1,670 45	1,670 74	0 00	0 00	0 00	0 00
8,500 00	91 15	268 93	6,951 05	-32 93	-1,770 41	1,770 72	0 00	0 00	0 00	0 00
8,600 00	91 15	268 93	6,949 05	-34 79	-1,870 37	1,870 70	0 00	0 00	0 00	0 00
8,700 00	91 15	268 93	6,947 04	-36 65	-1,970 34	1,970 68	0 00	0 00	0 00	0 00
8,800 00	91 15	268 93	6,945 04	-38 50	-2,070 30	2,070 66	0 00	0 00	0 00	0 00
8,900 00	91 15	268 93	6,943 03	-40 36	-2,170 26	2,170 64	0 00	0 00	0 00	0 00
9,000 00	91 15	268 93	6,941 03	-42 22	-2,270 23	2,270 62	0 00	0 00	0 00	0 00
9,100 00	91 15	268 93	6,939 02	-44 08	-2,370 19	2,370 60	0 00	0 00	0 00	0 00
9,200 00	91 15	268 93	6,937 02	-45 94	-2,470 15	2,470 58	0 00	0 00	0 00	0 00
9,300 00	91 15	268 93	6,935 01	-47 80	-2,570 11	2,570 56	0 00	0 00	0 00	0 00
9,400 00	91 15	268 93	6,933 01	-49 66	-2,670 08	2,670 54	0 00	0 00	0 00	0 00
9,500 00	91 15	268 93	6,931 00	-51 52	-2,770 04	2,770 52	0 00	0 00	0 00	0 00
9,600 00	91 15	268 93	6,929 00	-53 38	-2,870 00	2,870 50	0 00	0 00	0 00	0 00
9,700 00	91 15	268 93	6,926 99	-55 24	-2,969 96	2,970 48	0 00	0 00	0 00	0 00
9,800 00	91 15	268 93	6,924 99	-57 10	-3,069 93	3,070 46	0 00	0 00	0 00	0 00
9,900 00	91 15	268 93	6,922 98	-58 95	-3,169 89	3,170 44	0 00	0 00	0 00	0 00
10,000 00	91 15	268 93	6,920 98	-60 81	-3,269 85	3,270 42	0 00	0 00	0 00	0 00
10,100 00	91 15	268 93	6,918 97	-62 67	-3,369 81	3,370 40	0 00	0 00	0 00	0 00
10,200 00	91 15	268 93	6,916 97	-64 53	-3,469 78	3,470 38	0 00	0 00	0 00	0 00
10,300 00	91 15	268 93	6,914 96	-66 39	-3,569 74	3,570 36	0 00	0 00	0 00	0 00

Plan Report for Onyx PWU 29 6H - Plan #1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
10,400 00	91 15	268 93	6,912 96	-68 25	-3,669 70	3,670 34	0 00	0 00	0 00	0 00
10,500 00	91 15	268 93	6,910 95	-70 11	-3,769 66	3,770 32	0 00	0 00	0 00	0 00
10,600 00	91 15	268 93	6,908 95	-71 97	-3,869 63	3,870 30	0 00	0 00	0 00	0 00
10,700 00	91 15	268 93	6,906 94	-73 83	-3,969 59	3,970 28	0 00	0 00	0 00	0 00
10,800 00	91 15	268 93	6,904 94	-75 69	-4,069 55	4,070 26	0 00	0 00	0 00	0 00
10,900 00	91 15	268 93	6,902 93	-77 55	-4,169 51	4,170 24	0 00	0 00	0 00	0 00
11,000 00	91 15	268 93	6,900 93	-79 41	-4,269 48	4,270 22	0 00	0 00	0 00	0 00
11,100 00	91 15	268 93	6,898 92	-81 26	-4,369 44	4,370 20	0 00	0 00	0 00	0 00
11,200 00	91 15	268 93	6,896 92	-83 12	-4,469 40	4,470 18	0 00	0 00	0 00	0 00
11,300 00	91 15	268 93	6,894 91	-84 98	-4,569 37	4,570 16	0 00	0 00	0 00	0 00
11,400 00	91 15	268 93	6,892 91	-86 84	-4,669 33	4,670 14	0 00	0 00	0 00	0 00
11,500 00	91 15	268 93	6,890 90	-88 70	-4,769 29	4,770 12	0 00	0 00	0 00	0 00
11,600 00	91 15	268 93	6,888 89	-90 56	-4,869 25	4,870 10	0 00	0 00	0 00	0 00
11,644 00	91 15	268 93	6,888 01	-91 38	-4,913 24	4,914 09	0 00	0 00	0 00	0 00
Production Csg										
11,644 63	91 15	268 93	6,888 00	-91 39	-4,913 87	4,914 72	0 00	0 00	0 00	0 00

TD @ 11644.63' MD - Onyx PWU 29 6H BH

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
6,402 00	6,402 00	0 00	0 00	Build Rate = 10 00°/100'
6,402 00	6,402 00	0 00	0 00	KOP/Start Build @ 6402 00' MD
7,313 49	6,974 84	-10 87	-584 35	Hold Angle = 91 15°
7,313 49	6,974 84	-10 87	-584 35	End Build @ 7313 49' MD
11,644 63	6,888 00	-91 39	-4,913 87	TD @ 11644 63' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD	No Target (Freehand)	268 93	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	11,644 63	Plan #1	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
300 00	300 00	Surface Csg	13-3/8	17-1/2
3,200 00	3,200 00	Intermediate Csg	9-5/8	12-1/4
11,644 00	6,888 01	Production Csg	5-1/2	8-3/4

Plan Report for Onyx PWU 29 6H - Plan #1

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
25 00	25 00	Rustler		-1 15	268 93
419 00	419 00	Salt		-1 15	268 93
1,070 00	1,070 00	Base Salt		-1 15	268 93
3,269 00	3,269 00	Delaware		-1 15	268 93
6,924 00	6,859 18	Bone Spring SS		-1 15	268 93

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Onyx PWU 29 6H BH	6,888 00	-91 39	-4,913 87	Point

North Reference Sheet for Onyx PWU 29 - Onyx PWU 29 6H - Wellbore #1

All data is in US Feet unless otherwise stated Directions and Coordinates are relative to Grid North Reference

Vertical Depths are relative to GL 3314 1' + 25'KB @ 3339 10ft (Cactus 126) Northing and Easting are relative to Onyx PWU 29 6H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104 33°, Longitude Origin 0° 0' 0 000 E°, Latitude Origin 0° 0' 0 000 N°

False Easting 541,337 50ft, False Northing 0 00ft, Scale Reduction 0 99991559

Grid Coordinates of Well 594,760 21 ft N, 616,689 03 ft E

Geographical Coordinates of Well 32° 38' 05 30" N, 104° 05' 18 79" W

Grid Convergence at Surface is 0 13°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,644 63ft

the Bottom Hole Displacement is 4,914 72ft in the Direction of 268 93° (Grid)

Magnetic Convergence at surface is -7 70° (26 June 2012, , BGGM2012)

