

RECEIVED

JUL 20 2012

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

NMOCDA

Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-46515	² Pool Code 55510	³ Pool Name SCANLON DRAW; BONE SPRING
⁴ Property Code 38568	⁵ Property Name ONYX PWU "29"	⁶ Well Number 8H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3276.2

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	19 S	29 E		830	SOUTH	330	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	19 S	29 E		800	SOUTH	330	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Signature: <i>[Signature]</i> Date: 7/19/2012	
Printed Name: David H. Cook Regulatory Specialist	
¹⁷ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
Date of Survey: MARCH 29, 2012	
Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 11887, N.M.S. E. L.B.S. N.M.L.O. PLS 12797 SURVEY NO. 954	

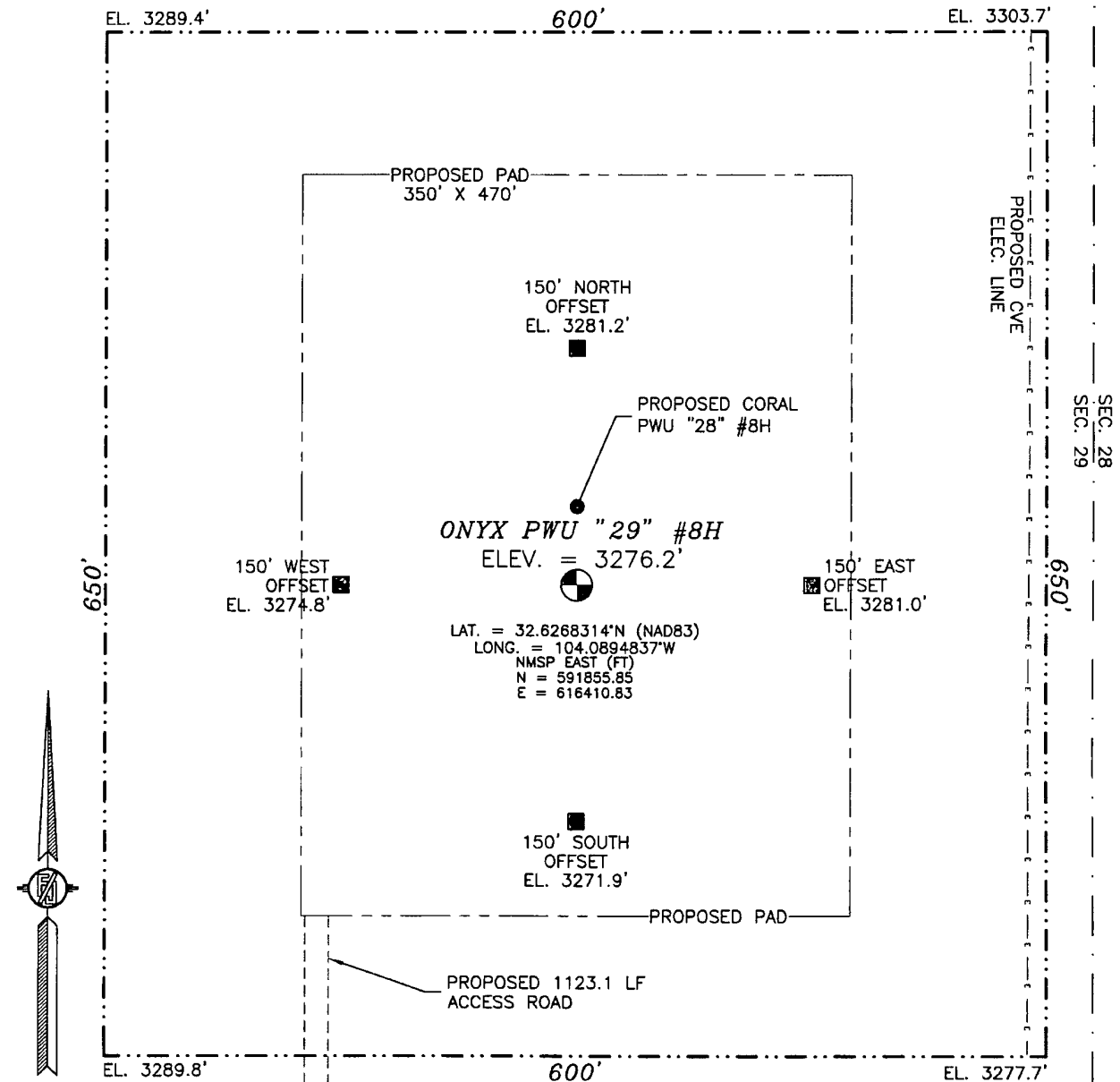
NW CORNER SEC. 29 LAT. = 32.6391287°N LONG. = 104.1055996°W NMSP EAST (FT) N = 596319.79 E = 611438.53	N O CORNER SEC. 29 LAT. = 32.6390910°N LONG. = 104.0969797°W NMSP EAST (FT) N = 596311.87 E = 614092.63	NW CORNER SEC. 29 LAT. = 32.6390699°N LONG. = 104.0883927°W NMSP EAST (FT) N = 596310.16 E = 616736.54
BOTTOM OF HOLE LAT. = 32.6267925°N LONG. = 104.1045010°W NMSP EAST (FT) N = 591831.43 E = 611786.50		
ONYX PWU "29" #8H ELEV. = 3276.2 LAT. = 32.6268314°N (MAD83) LONG. = 104.0894837°W NMSP EAST (FT) N = 591855.85 E = 616410.83		
KO-4330 SW CORNER SEC. 29 LAT. = 32.6245985°N LONG. = 104.1055679°W NMSP EAST (FT) N = 591031.62 E = 611459.69	LO-0323 S O CORNER SEC. 29 LAT. = 32.6245766°N LONG. = 104.0969987°W NMSP EAST (FT) N = 591030.15 E = 611488.52	SURFACE KO-3153 SW CORNER SEC. 29 LAT. = 32.6245465°N LONG. = 104.0884181°W NMSP EAST (FT) N = 591025.17 E = 616740.89

Completion Interval

Project Area

Lease Line

SECTION 29, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF Cr 210 (OLD LOCO) AND Cr 235
(CURRY COMB) GO NORTHWEST FOR APPROX. 1.6 MILES. GO SOUTH
ON LEASE ROAD (YELLOW CATTLE GUARD) FOR APPROX. 2.3 MILES.
GO SOUTHEAST APPROX. 1 MILE. GO NORTH ON LEASE ROAD FOR
APPROX. 0.8 OF A MILE. LOCATION IS APPROX. 0.2 MILES NORTH.

DEVON ENERGY PRODUCTION COMPANY, L.P.

ONYX PWU "29" #8H

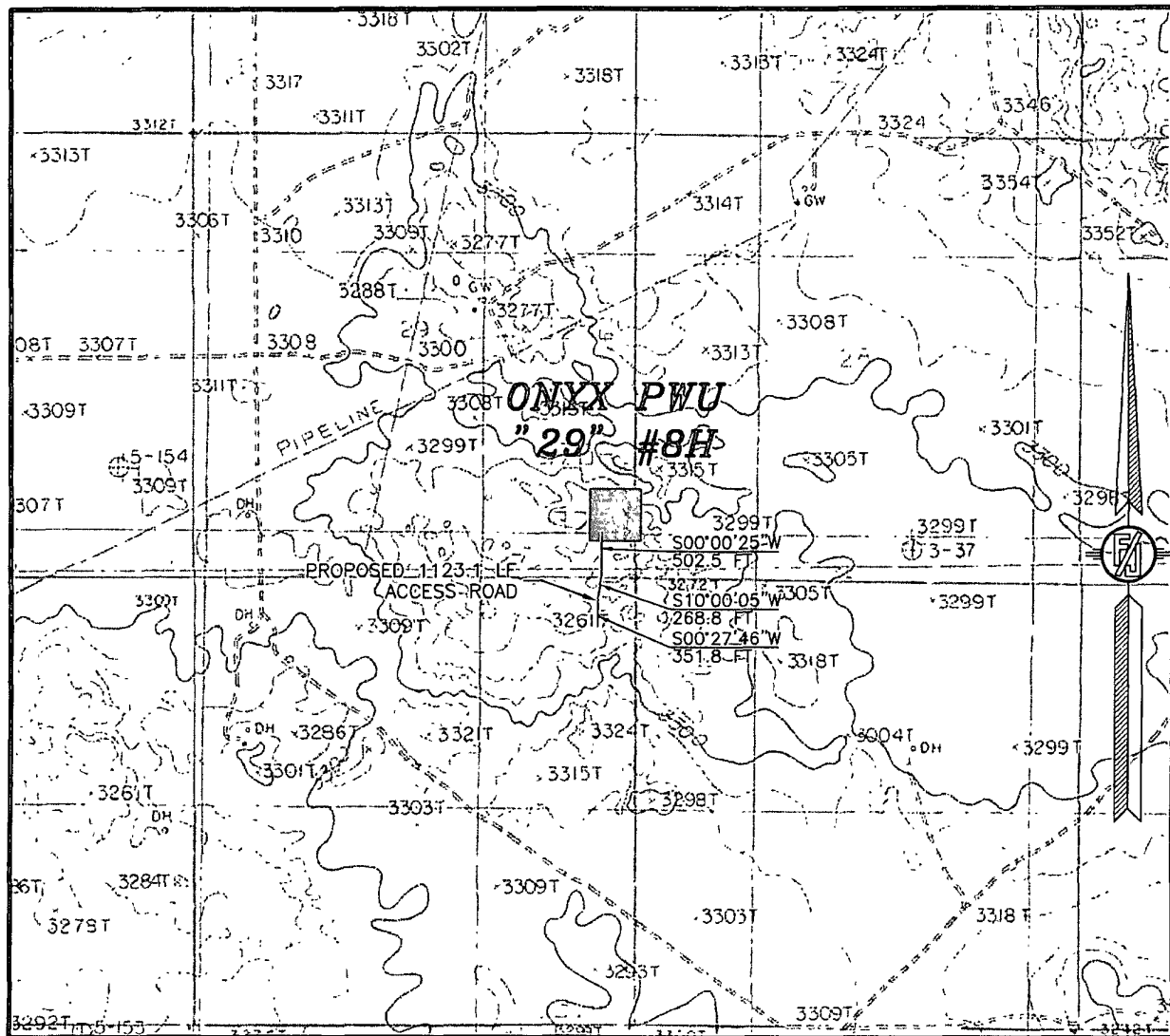
LOCATED 830 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 29, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 27, 2012

SURVEY NO. 954

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 29, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ILLINOIS CAMP NE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

ONYX PWU "29" #8H

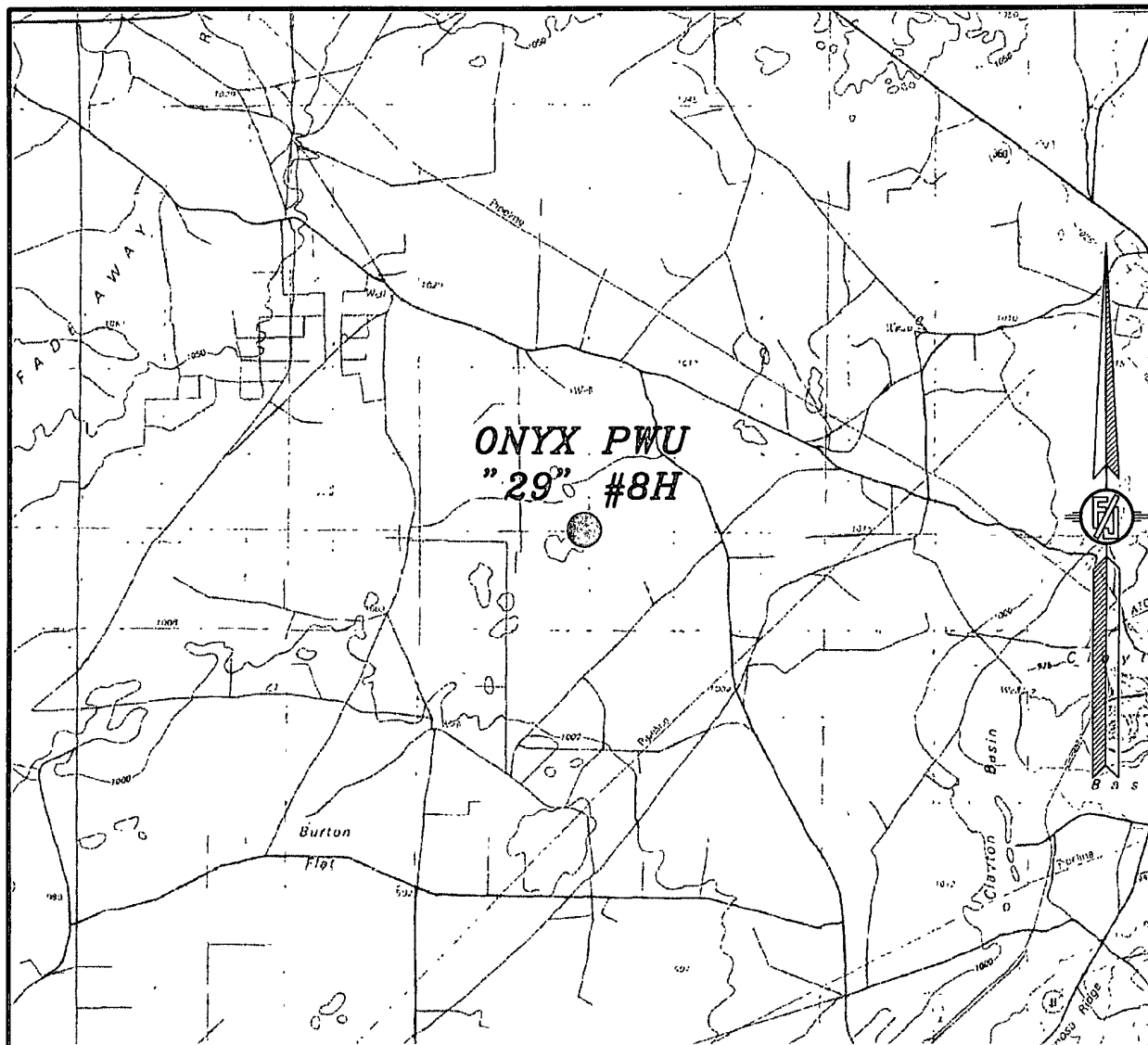
LOCATED 830 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 29, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 27, 2012

SURVEY NO. 954

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 29, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

ONYX PWU "29" #8H

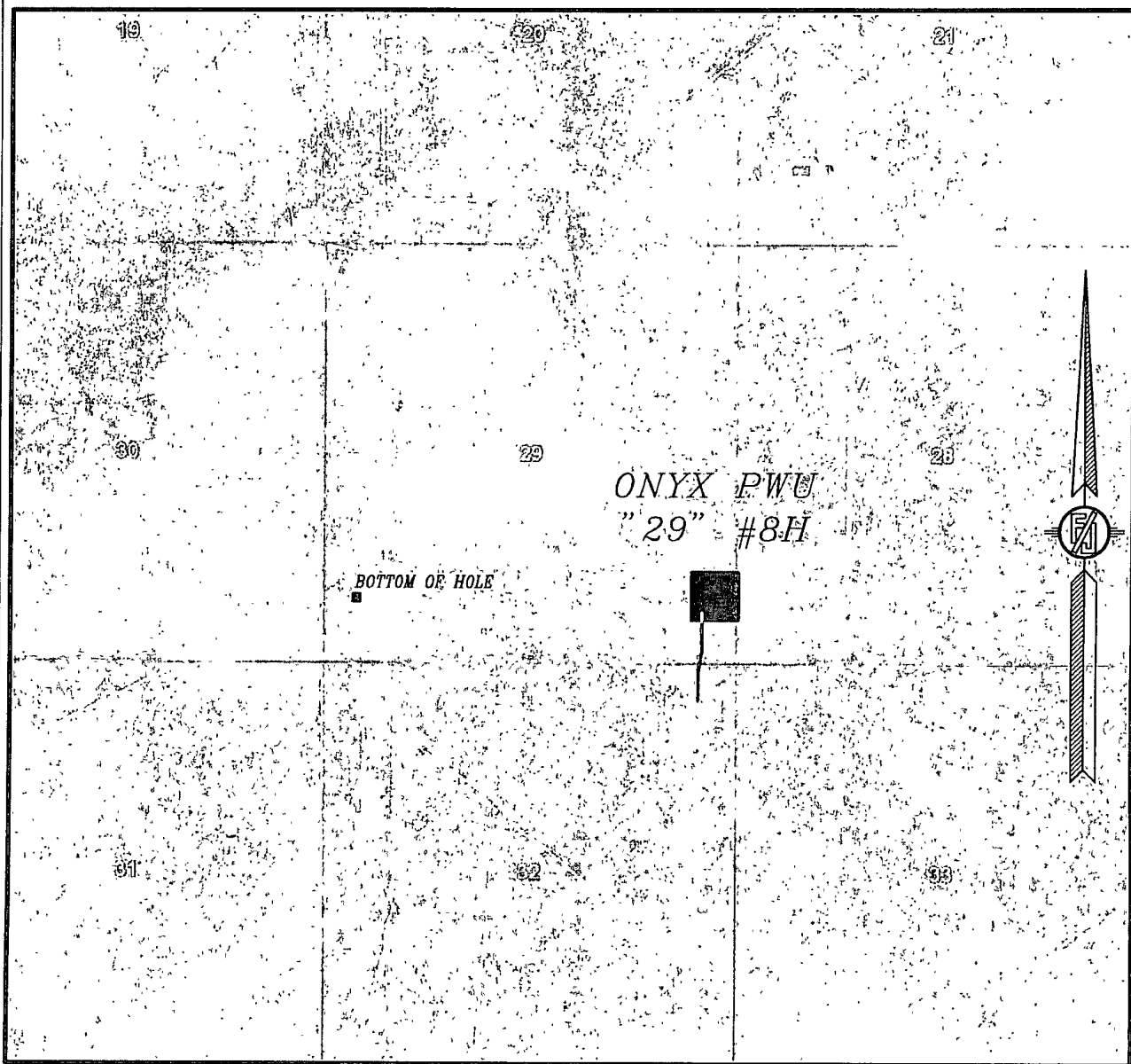
LOCATED 830 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 29, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 27, 2012

SURVEY NO. 954

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 29, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE, 2011

DEVON ENERGY PRODUCTION COMPANY, L.P.

ONYX PWU "29" #8H

LOCATED 830 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 29, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 27, 2012

SURVEY NO. 954

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

Devon Energy Corporation

HALLIBURTON | Sperry Drilling



Project: Eddy County, NM (NAD 83)
Site: Onyx PWU 29
Well: Onyx PWU 29 8H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation GL 3276.2' + 25'KB @ 3301.20ft (Cactus 126)
Northing 591855.85 Easting 616410.83 Latitude 32° 37' 36.569 N Longitude 104° 5' 22.123 W

CASING DETAILS

TVD	MD	Name
300.00	300.00	Surface Csg
3200.00	3200.00	Intermediate Csg
6868.00	11353.85	Production Csg

SECTION DETAILS

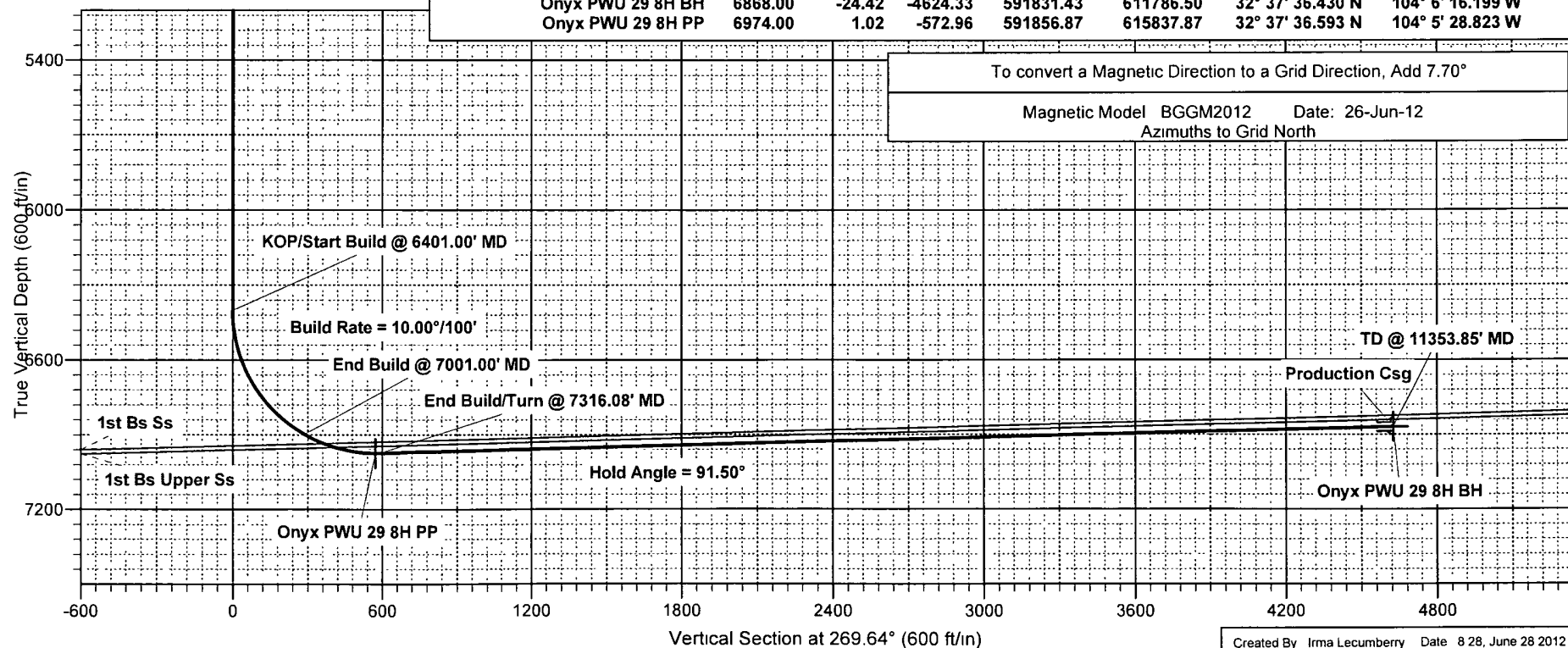
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6401.00	0.00	0.00	6401.00	0.00	0.00	0.00	0.00	0.00	KOP/Start Build
7001.00	60.00	270.30	6897.20	1.50	-286.47	10.00	270.30	286.46	End Build
7316.08	91.50	269.64	6973.78	1.21	-588.02	10.00	-1.27	588.00	End Build/Turn
11353.85	91.50	269.64	6868.00	-24.42	-4624.33	0.00	0.00	4624.39	TD

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Onyx PWU 29 8H BH	6868.00	-24.42	-4624.33	591831.43	611786.50	32° 37' 36.430 N	104° 6' 16.199 W
Onyx PWU 29 8H PP	6974.00	1.02	-572.96	591856.87	615837.87	32° 37' 36.593 N	104° 5' 28.823 W

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

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



Created By Irma Lecumberry Date 8/28/2012



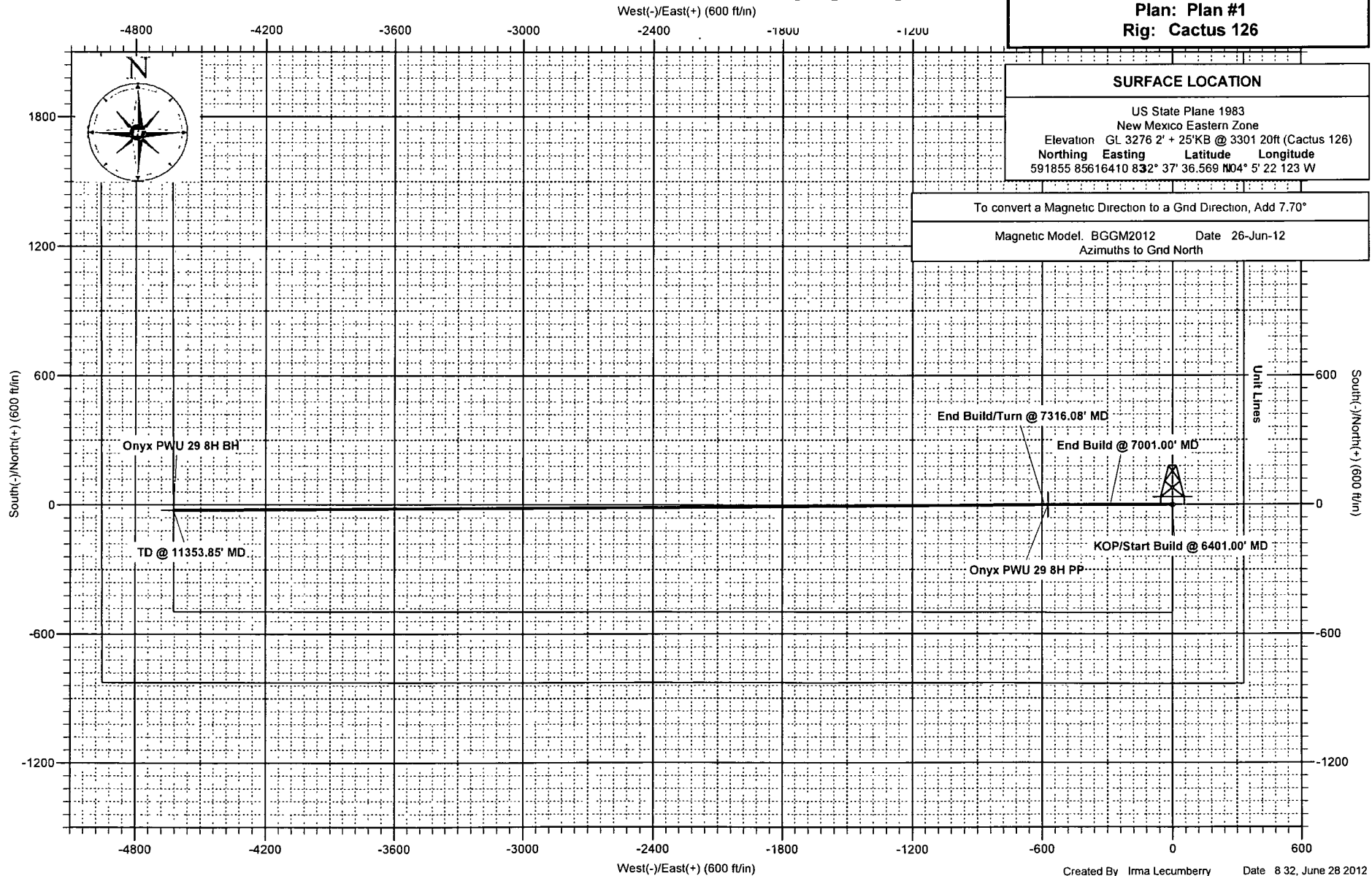
Project: Eddy County, NM (NAD 83)
 Site: Onyx PWU 29
 Well: Onyx PWU 29 8H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3276 2' + 25'KB @ 3301 20ft (Cactus 126)
 Northing Easting Latitude Longitude
 591855 85616410 832° 37' 36.569 N04° 5' 22 123 W

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

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



Devon Energy Corporation

Eddy County, NM (NAD 83)

Onyx PWU 29

Onyx PWU 29 8H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

28 June, 2012

Well Coordinates 591,855 85 N, 616,410 83 E (32° 37' 36 57" N, 104° 05' 22.12" W)
Ground Level 3,276 20 ft

Local Coordinate Origin	Centered on Well Onyx PWU 29 8H
Viewing Datum	GL 3276 2' + 25'KB @ 3301 20ft (Cactus 126)
TVDs to System	N
North Reference.	Grd
Unit System	API - US Survey Feet

Version 2003 16 Build 431

HALLIBURTON

Plan Report for Onyx PWU 29 8H - 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										
381 00	0 00	0 00	381 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Salt										
1,011.00	0 00	0 00	1,011 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Base Salt										
1,091 00	0 00	0 00	1,091 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Tensil Dolo										
1,321 00	0 00	0 00	1,321 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Yates										
1,601 00	0 00	0 00	1,601 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Seven Rivers										
1,961 00	0 00	0 00	1,961 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Queen										
2,451 00	0 00	0 00	2,451 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
San Andres										
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										
3,343 00	0 00	0 00	3,343 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware										
5,171 00	0 00	0 00	5,171 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Bone Spring Lm										
6,401 00	0 00	0 00	6,401 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP/Start Build @ 6401.00' MD										
6,401 01	0 00	270 30	6,401 01	0 00	0 00	0 00	0 00	0 00	0 00	270 30
Build Rate = 10.00°/100'										
6,500 00	9 90	270 30	6,499 51	0 04	-8 53	8 53	10.00	10 00	0 00	270 30
6,600 00	19.90	270 30	6,596 02	0 18	-34 21	34 21	10.00	10 00	0 00	0 00
6,700 00	29 90	270 30	6,686 61	0 40	-76 26	76 26	10.00	10 00	0 00	0 00
6,800 00	39 90	270 30	6,768 52	0 70	-133 40	133 40	10.00	10 00	0 00	0 00
6,900 00	49 90	270 30	6,839 27	1 07	-203 90	203 89	10.00	10 00	0 00	0 00
7,000 00	59 90	270 30	6,896 70	1 50	-285 61	285 59	10 00	10 00	0 00	0 00
7,001 00	60 00	270 30	6,897 20	1 50	-286 47	286 46	10 00	10 00	0 00	0 00
End Build @ 7001.00' MD										
7,087 04	68 60	270 10	6,934 47	1 76	-363 93	363 91	10 00	10 00	-0 24	-1 27
1st Bs Ss										
7,100 00	69 90	270 07	6,939 06	1 78	-376 05	376 03	10 00	10 00	-0 22	-1 18
7,135 65	73 46	269.99	6,950 27	1 80	-409 89	409 87	10 00	10 00	-0 21	-1 17
1st Bs Upper Ss										
7,200 00	79 90	269 86	6,965 09	1 72	-472 47	472 45	10 00	10 00	-0 20	-1 15
7,300 00	89 89	269 67	6,973 97	1 30	-571 95	571 93	10 00	10 00	-0 19	-1 12
7,316 08	91 50	269 64	6,973 78	1 21	-588 03	588 01	10 00	10 00	-0 19	-1 10
End Build/Turn @ 7316.08' MD - Hold Angle = 91.50°										
7,400 00	91 50	269 64	6,971 58	0 67	-671 92	671.90	0 00	0 00	0 00	0 00
7,500 00	91 50	269 64	6,968 96	0 04	-771 88	771 87	0 00	0 00	0 00	0 00
7,600 00	91 50	269 64	6,966 34	-0 59	-871 84	871 83	0 00	0 00	0 00	0 00
7,700 00	91 50	269 64	6,963 72	-1 23	-971 81	971 80	0 00	0 00	0 00	0 00
7,800 00	91 50	269 64	6,961.10	-1 86	-1,071 77	1,071 76	0 00	0 00	0 00	0 00
7,900 00	91 50	269 64	6,958 48	-2 50	-1,171 74	1,171 73	0 00	0 00	0 00	0 00
8,000 00	91 50	269 64	6,955 86	-3 13	-1,271 70	1,271 69	0 00	0 00	0 00	0 00
8,100 00	91 50	269 64	6,953 24	-3 77	-1,371 66	1,371 66	0 00	0 00	0 00	0 00
8,200 00	91 50	269 64	6,950 62	-4.40	-1,471 63	1,471 62	0 00	0 00	0 00	0 00
8,300 00	91 50	269 64	6,948 00	-5 04	-1,571 59	1,571.59	0 00	0.00	0 00	0 00

HALLIBURTON**Plan Report for Onyx PWU 29 8H - 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 (°)
8,400.00	91 50	269 64	6,945.38	-5 67	-1,671.55	1,671 56	0 00	0 00	0 00	0 00
8,500 00	91 50	269 64	6,942 76	-6 31	-1,771 52	1,771 52	0 00	0 00	0 00	0 00
8,600 00	91 50	269 64	6,940 14	-6 94	-1,871 48	1,871 49	0 00	0 00	0 00	0 00
8,700 00	91 50	269 64	6,937 52	-7 58	-1,971 44	1,971 45	0 00	0 00	0 00	0 00
8,800 00	91 50	269 64	6,934 90	-8 21	-2,071 41	2,071 42	0 00	0 00	0 00	0 00
8,900 00	91 50	269 64	6,932 28	-8.85	-2,171 37	2,171 38	0 00	0 00	0 00	0 00
9,000 00	91 50	269 64	6,929 66	-9 48	-2,271 34	2,271 35	0 00	0 00	0 00	0 00
9,100 00	91 50	269 64	6,927 04	-10 12	-2,371 30	2,371 32	0 00	0 00	0 00	0 00
9,200 00	91 50	269 64	6,924 42	-10 75	-2,471 26	2,471 28	0 00	0 00	0 00	0 00
9,300 00	91 50	269 64	6,921 80	-11 38	-2,571 23	2,571 25	0 00	0 00	0 00	0 00
9,400 00	91 50	269 64	6,919 18	-12 02	-2,671 19	2,671 21	0 00	0 00	0 00	0 00
9,500 00	91 50	269.64	6,916 57	-12 65	-2,771 15	2,771 18	0.00	0 00	0 00	0 00
9,600 00	91 50	269 64	6,913 95	-13 29	-2,871 12	2,871 14	0 00	0 00	0 00	0 00
9,700 00	91 50	269 64	6,911 33	-13 92	-2,971 08	2,971 11	0 00	0 00	0 00	0 00
9,800 00	91 50	269 64	6,908 71	-14 56	-3,071 04	3,071 08	0 00	0 00	0 00	0 00
9,900 00	91 50	269 64	6,906 09	-15 19	-3,171 01	3,171 04	0 00	0 00	0 00	0 00
10,000 00	91 50	269 64	6,903.47	-15 83	-3,270 97	3,271.01	0 00	0.00	0 00	0 00
10,100 00	91 50	269 64	6,900 85	-16 46	-3,370 94	3,370 97	0 00	0 00	0 00	0 00
10,200 00	91 50	269 64	6,898 23	-17 10	-3,470 90	3,470 94	0 00	0 00	0 00	0 00
10,300 00	91 50	269 64	6,895 61	-17 73	-3,570 86	3,570 90	0 00	0 00	0 00	0 00
10,400 00	91 50	269 64	6,892 99	-18 37	-3,670 83	3,670 87	0 00	0 00	0 00	0 00
10,500 00	91 50	269 64	6,890 37	-19 00	-3,770 79	3,770.84	0 00	0 00	0 00	0 00
10,600 00	91 50	269 64	6,887 75	-19 64	-3,870 75	3,870 80	0 00	0 00	0 00	0 00
10,700 00	91 50	269 64	6,885 13	-20 27	-3,970 72	3,970 77	0 00	0 00	0 00	0 00
10,800 00	91 50	269 64	6,882 51	-20.90	-4,070 68	4,070 73	0 00	0 00	0 00	0 00
10,900 00	91 50	269.64	6,879 89	-21.54	-4,170 65	4,170 70	0 00	0 00	0 00	0 00
11,000 00	91 50	269 64	6,877 27	-22 17	-4,270 61	4,270 66	0 00	0.00	0 00	0 00
11,100 00	91 50	269 64	6,874 65	-22 81	-4,370 57	4,370 63	0 00	0 00	0 00	0 00
11,200 00	91 50	269 64	6,872 03	-23 44	-4,470 54	4,470 60	0 00	0 00	0 00	0 00
11,300.00	91.50	269 64	6,869 41	-24 08	-4,570.50	4,570 56	0 00	0 00	0 00	0 00
11,353 85	91 50	269 64	6,868 00	-24 42	-4,624 33	4,624 39	0 00	0 00	0 00	0.00

TD @ 11353.85' MD - Onyx PWU 29 8H BH

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
6,401 00	6,401 00	0 00	0.00	KOP/Start Build @ 6401 00' MD
6,401 01	6,401 01	0 00	0 00	Build Rate = 10 00°/100'
7,001 00	6,897 20	1 50	-286 47	End Build @ 7001 00' MD
7,316 08	6,973.78	1 21	-588 02	End Build/Turn @ 7316 08' MD
7,316 08	6,973 78	1 21	-588.03	Hold Angle = 91 50°
11,353 85	6,868.00	-24 42	-4,624 33	TD @ 11353 85' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	+E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	269 64	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	11,353 83	Plan #1	MWD

Plan Report for Onyx PWU 29 8H - Plan #1

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
11,353 85	6,868 00	Production Csg	5-1/2	8-3/4

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
25 00	25 00	Rustler		-1 50	269 64
381 00	381 00	Salt		-1 50	269 64
1,011 00	1,011 00	Base Salt		-1 50	269 64
1,091 00	1,091 00	Tensil Dolo		-1 50	269 64
1,321 00	1,321 00	Yates		-1 50	269 64
1,601 00	1,601 00	Seven Rivers		-1 50	269 64
1,961 00	1,961 00	Queen		-1 50	269 64
2,451 00	2,451 00	San Andres		-1 50	269 64
3,343 00	3,343 00	Delaware		-1 50	269 64
5,171 00	5,171 00	Bone Spring Lm		-1 50	269 64
7,087 04	6,944 00	1st Bs Ss		-1 50	269 64
7,135 65	6,961 00	1st Bs Upper Ss		-1 50	269 64

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Onyx PWU 29 8H BH	6,868 00	-24 42	-4,624 33	Point
Onyx PWU 29 8H PP	6,974.00	1 02	-572 96	Point

North Reference Sheet for Onyx PWU 29 - Onyx PWU 29 8H - 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 3276 2' + 25'KB @ 3301 20ft (Cactus 126) Northing and Easting are relative to Onyx PWU 29 8H

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 99991554

Grid Coordinates of Well 591,855 85 ft N, 616,410 83 ft E

Geographical Coordinates of Well 32° 37' 36 57" N, 104° 05' 22 12" W

Grid Convergence at Surface is 0 13°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,353 85ft

the Bottom Hole Displacement is 4,624 39ft in the Direction of 269 70° (Grid)

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

