

HOBBS OCD

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

Energy, 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 30-015-40135		2 Pool Code 49622		3 Pool Name Parkway SEARLON DRAW, BONE SPRING	
4 Property Code 38568		5 Property Name ONYX PWU "29"			6 Well Number 5H
7 OGRID No 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			9 Elevation 3320.9

10 Surface Location

U.L. or lot no	Section	Township	Range	1 of 10	Feet from the	North/South line	Feet from the	East/West line	County
D	28	19 S	29 E		450	NORTH	140	WEST	EDDY

11 Bottom Hole Location If Different From Surface

U.L. or lot no	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
D	29	19 S	29 E		330	NORTH	330	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No
160			

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

1ST PERFORATION POINT - 405' FNL & 620' FEL

☐ PROJECT AREA
☐ PRODUCING AREA

17 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 undivided 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: *[Signature]* Date: **03/29/2012**

Printed Name: **STEPHANIE A. YSASAGA**

18 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

MARCH 29 2012 NEW MEXICO

Date of Survey: **MARCH 29 2012**

Signature and Seal of Professional Surveyor: *[Signature]*

Certificate Number: **FILMION J. JARAMILLO PLS 12797**

SURVEY NO 045

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40135		² Pool Code 49622		³ Pool Name	
⁴ Property Code 38568		⁵ Property Name ONYX PWU "29"			⁶ Well Number 5H
⁷ OGRID No 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			⁹ Elevation 3320.9

¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	19 S	29 E		450	NORTH	140	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

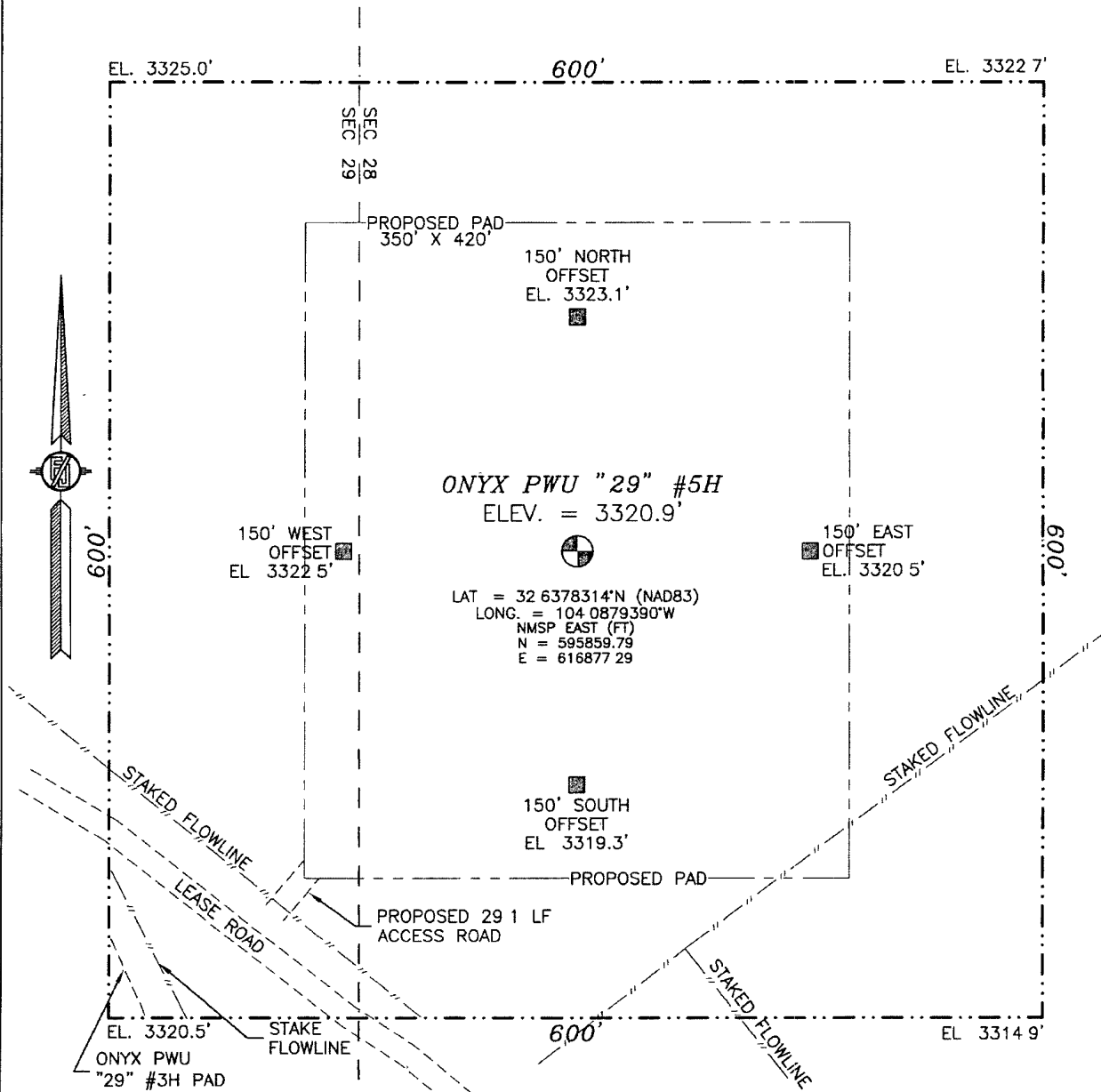
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	29	19 S	29 E		330	NORTH	330	WEST	EDDY

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

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.

	¹⁷ 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 _____ Date _____ Printed Name _____
	¹⁸ 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. MARCH 24 2012 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number FILINION J. JARVILLO, PLS 12797 NEW MEXICO DEPARTMENT OF ENERGY, MINERALS & NATURAL RESOURCES OIL CONSERVATION DIVISION WELL LOCATION AND ACREAGE DEDICATION PLAT SURVEY NO 945

SECTION 28, 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 ON Cr 235 FOR APPROXIMATE 1.6 MILES TURN SOUTH ON LEASE ROAD (YELLOW CATTLE GUARD) AND GO SOUTH APPROXIMATE 1.8 MILES. GO EAST-NORTHEAST APPROXIMATE 1.2 MILES LOCATION IS APPROXIMATE 305 FT NORTHEAST.

DEVON ENERGY PRODUCTION COMPANY, L.P.

ONYX PWU "29" #5H

LOCATED 450 FT. FROM THE NORTH LINE
AND 140 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.

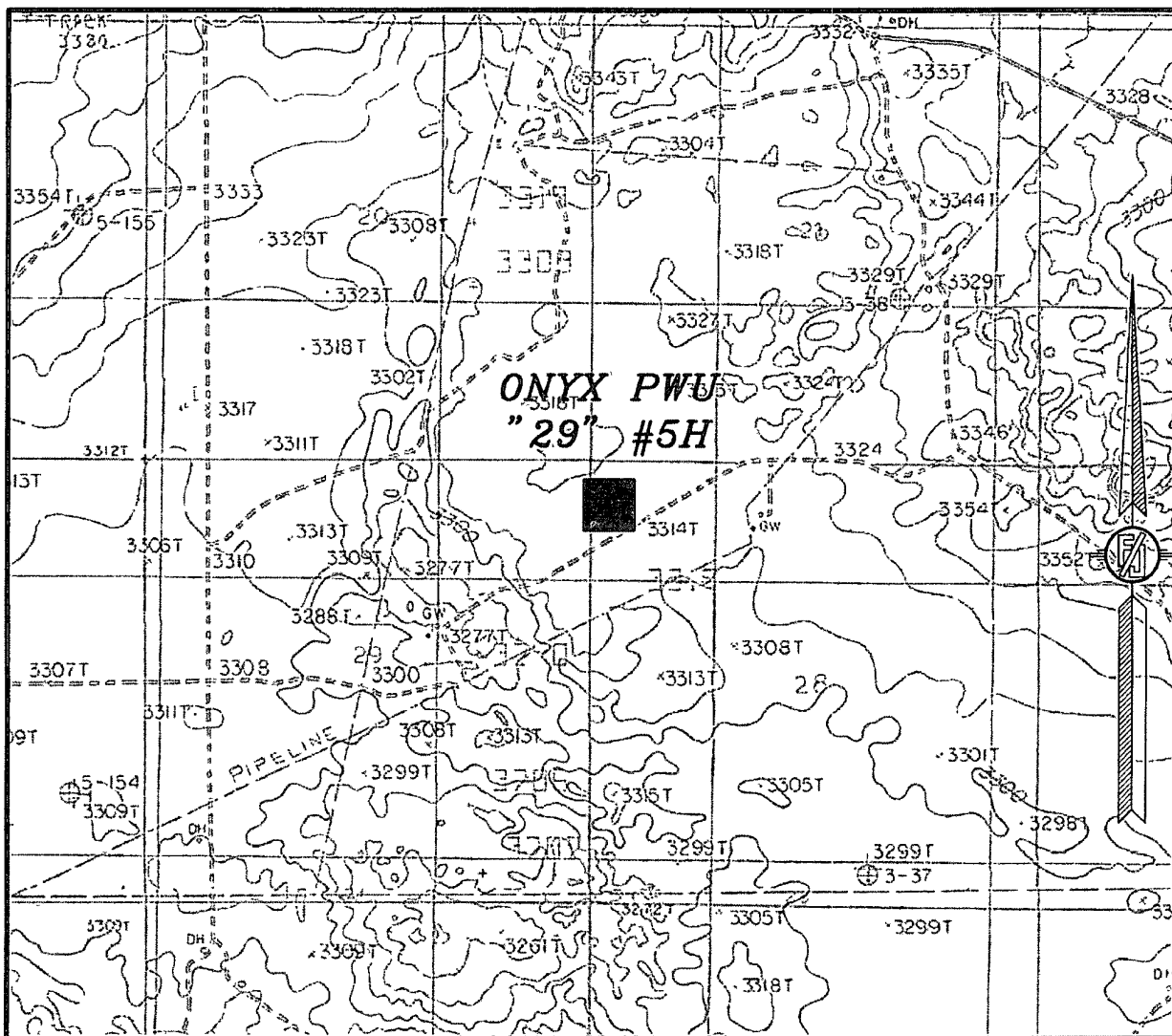
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 24, 2012

SURVEY NO. 945

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

SECTION 28, 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

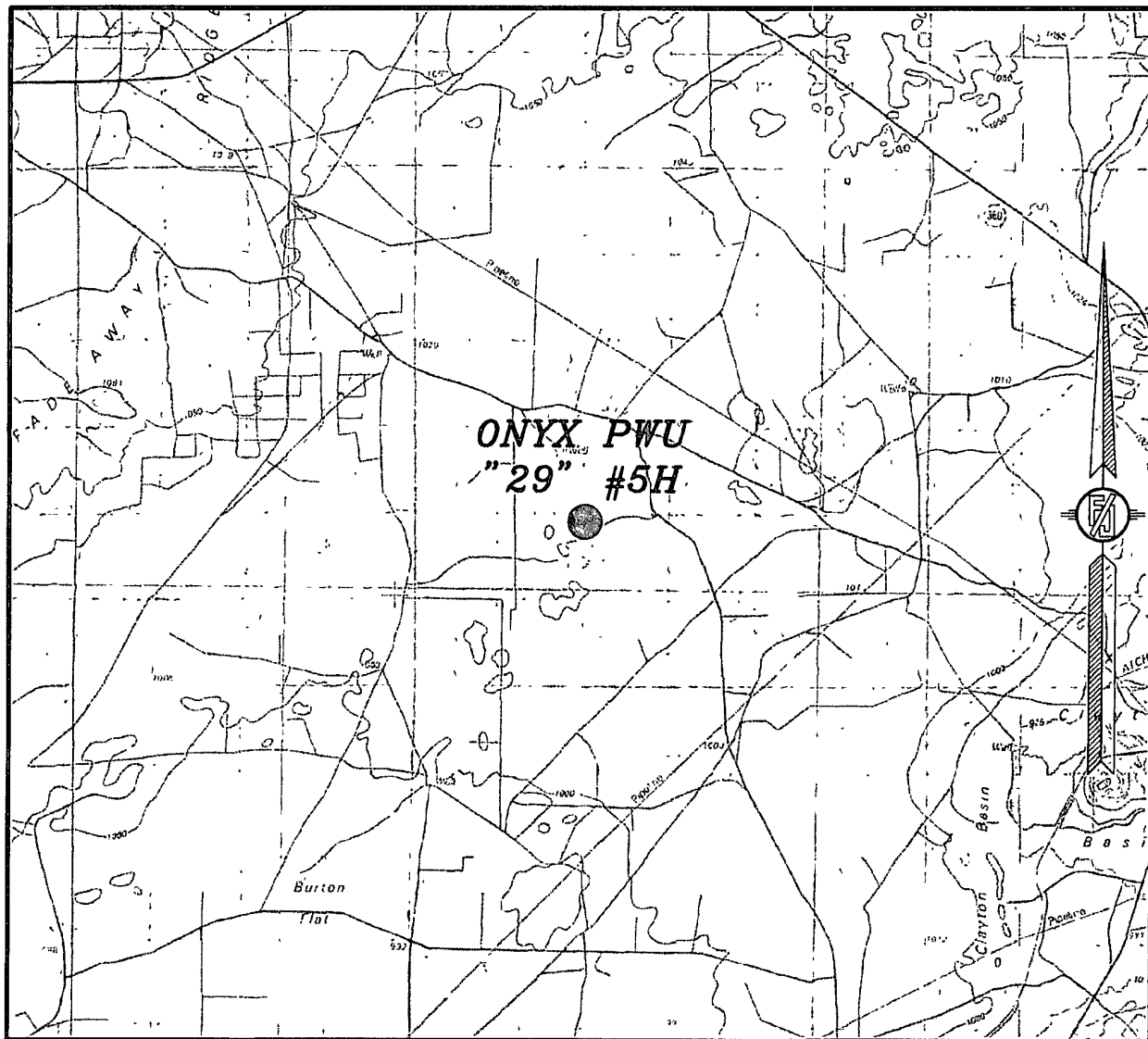
DEVON ENERGY PRODUCTION COMPANY, L.P.
ONYX PWU "29" #5H
 LOCATED 450 FT. FROM THE NORTH LINE
 AND 140 FT. FROM THE WEST LINE OF
 SECTION 28, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 24, 2012

SURVEY NO. 945

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

SECTION 28, 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" #5H

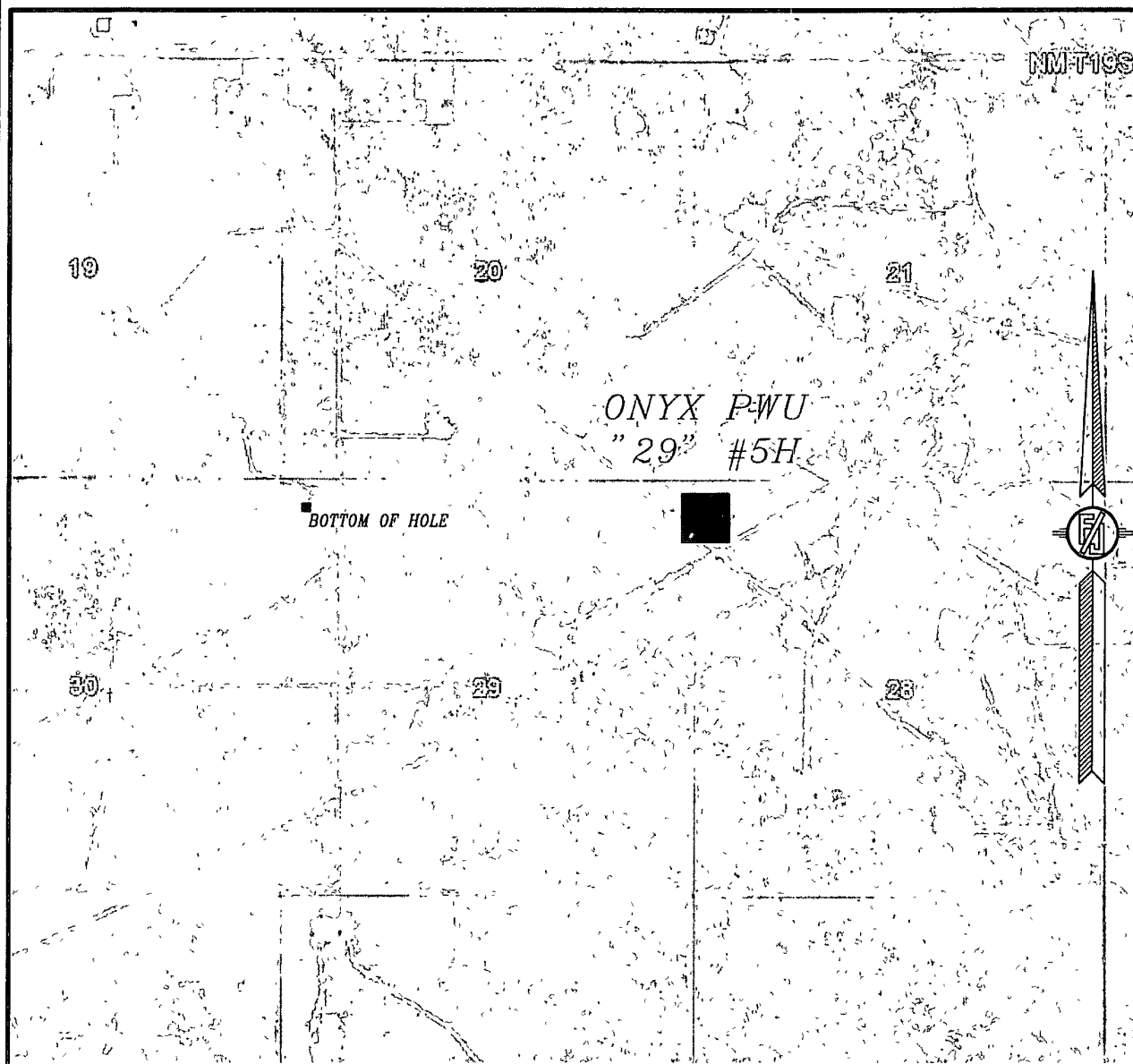
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RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 24, 2012

SURVEY NO. 945

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

SECTION 28, 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" #5H

LOCATED 450 FT. FROM THE NORTH LINE
AND 140 FT. FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 24, 2012

SURVEY NO. 945

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

Devon Energy Corporation

Eddy County, NM (NAD 83)

Onyx PWU 29

Onyx PWU 29 5H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

30 March, 2012

Well Coordinates 595,859 79 N, 616,877 29 E (32° 38' 16 18" N, 104° 05' 16 56" W)

Ground Level 3,321 00 ft

Local Coordinate Origin

Centered on Well Onyx PWU 29 5H

Viewing Datum

GL 3321' + KB 25' @ 3346 00ft (Cactus 126)

TVDs to System

N

North Reference

Gnd

Unit System

API - US Survey Feet

Version 2003 16 Build 43I

HALLIBURTON

Plan Report for Onyx PWU 29 5H - 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
100 00	0 00	0 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
200 00	0 00	0 00	200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
400 00	0 00	0 00	400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
420 00	0 00	0 00	420 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Salado										
500 00	0 00	0 00	500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
600 00	0 00	0 00	600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
700 00	0 00	0 00	700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
800 00	0 00	0 00	800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
900 00	0 00	0 00	900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,000 00	0 00	0 00	1,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,100 00	0 00	0 00	1,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,165 00	0 00	0 00	1,165 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Tansil Dolomite										
1,200 00	0 00	0 00	1,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,300 00	0 00	0 00	1,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,363 00	0 00	0 00	1,363 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Yates										
1,400 00	0 00	0 00	1,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,500 00	0 00	0 00	1,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,600 00	0 00	0 00	1,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,614 00	0 00	0 00	1,614 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Seven Rivers										
1,700 00	0 00	0 00	1,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,800 00	0 00	0 00	1,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,900 00	0 00	0 00	1,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,975 00	0 00	0 00	1,975 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Queen										
2,000 00	0 00	0 00	2,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,100 00	0 00	0 00	2,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,200 00	0 00	0 00	2,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,300 00	0 00	0 00	2,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,400 00	0 00	0 00	2,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,500 00	0 00	0 00	2,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,600 00	0 00	0 00	2,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,700 00	0 00	0 00	2,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,800 00	0 00	0 00	2,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,873 00	0 00	0 00	2,873 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
San Andres										
2,900 00	0 00	0 00	2,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,000 00	0 00	0 00	3,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,100 00	0 00	0 00	3,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,200 00	0 00	0 00	3,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,273 00	0 00	0 00	3,273 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware										
3,300 00	0 00	0 00	3,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,400 00	0 00	0 00	3,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,500 00	0 00	0 00	3,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,600 00	0 00	0 00	3,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,700 00	0 00	0 00	3,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,800 00	0 00	0 00	3,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,900 00	0 00	0 00	3,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,000 00	0 00	0 00	4,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,100 00	0 00	0 00	4,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,200 00	0 00	0 00	4,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00

Plan Report for Onyx PWU 29 5H - 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 (°)
4,300 00	0 00	0 00	4,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,400 00	0 00	0 00	4,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,500 00	0 00	0 00	4,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,600 00	0 00	0 00	4,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,700 00	0 00	0 00	4,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,800 00	0 00	0 00	4,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,857 00	0 00	0 00	4,857 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Cutoff Dolomite										
4,900 00	0 00	0 00	4,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,987 00	0 00	0 00	4,987 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Bone Spring Lm										
5,000 00	0 00	0 00	5,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,100 00	0 00	0 00	5,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,200 00	0 00	0 00	5,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,300 00	0 00	0 00	5,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,400 00	0 00	0 00	5,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,500 00	0 00	0 00	5,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,600 00	0 00	0 00	5,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,700 00	0 00	0 00	5,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,800 00	0 00	0 00	5,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,900 00	0 00	0 00	5,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,000 00	0 00	0 00	6,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,100 00	0 00	0 00	6,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,200 00	0 00	0 00	6,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,300 00	0 00	0 00	6,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,402 15	0 00	0 00	6,402 15	0 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP/Start Build @ 6402 15' MD - Build Rate = 10 00°/100'										
6,450 00	4 78	271 45	6,449 94	0 05	-2 00	2 00	10 00	10 00	0 00	271 45
6,500 00	9 78	271 45	6,499 53	0 21	-8 33	8 33	10 00	10 00	0 00	0 00
6,550 00	14 78	271 45	6,548 36	0 48	-18 96	18 97	10 00	10 00	0 00	0 00
6,600 00	19 78	271 45	6,596 09	0 85	-33 81	33 82	10 00	10 00	0 00	0 00
6,650 00	24 78	271 45	6,642 34	1 33	-52 76	52 78	10 00	10 00	0 00	0 00
6,700 00	29 78	271 45	6,686 77	1 91	-75 66	75 69	10 00	10 00	0 00	0 00
6,750 00	34 78	271 45	6,729 02	2 59	-102 35	102 39	10 00	10 00	0 00	0 00
6,800 00	39 78	271 45	6,768 79	3 35	-132 62	132 67	10 00	10 00	0 00	0 00
6,850 00	44 78	271 45	6,805 77	4 20	-166 24	166 30	10 00	10 00	0 00	0 00
6,900 00	49 78	271 45	6,839 68	5 13	-202 96	203 02	10 00	10 00	0 00	0 00
6,950 00	54 78	271 45	6,870 25	6 12	-242 48	242 56	10 00	10 00	0 00	0 00
6,985 07	58 29	271 45	6,889 59	6 86	-271 73	271 82	10 00	10 00	0 00	0 00
1st Bone Spring Ss - 1st Bone Spring Middle Ss										
7,000 00	59 78	271 45	6,897 27	7 19	-284 52	284 62	10 00	10 00	0 00	0 00
7,034 52	63 24	271 45	6,913 73	7 95	-314 85	314 95	10 00	10 00	0 00	0 00
1st Bone Spring Middle B Ss										
7,050 00	64 78	271 45	6,920 52	8 30	-328 76	328 86	10 00	10 00	0 00	0 00
7,100 00	69 78	271 45	6,939 82	9 47	-374 85	374 97	10 00	10 00	0 00	0 00
7,107 60	70 54	271 45	6,942 40	9 65	-382 00	382 12	10 00	10 00	0 00	0 00
1st Bone Spring Lower Ss										
7,150 00	74 78	271 45	6,955 03	10 67	-422 45	422 59	10 00	10 00	0 00	0 00
7,175 20	77 30	271 45	6,961 10	11 29	-446 90	447 04	10 00	10 00	0 00	0 00
1st Bone Spring Lower B Ss										
7,200 00	79 78	271 45	6,966 03	11 90	-471 19	471 34	10 00	10 00	0 00	0 00
7,206 32	80 42	271 45	6,967 12	12 06	-477 42	477 57	10 00	10 00	0 00	0 00
T/ Target Line										
7,250 00	84 78	271 45	6,972 74	13 15	-520 71	520 88	10 00	10 00	0 00	0 00
7,300 00	89 78	271 45	6,975 11	14 41	-570 62	570 80	10 00	10 00	0 00	0 00
7,310 76	90 86	271 45	6,975 05	14 69	-581 38	581 56	10 00	10 00	0 00	0 00
Target Line										
7,313 55	91 14	271 45	6,975 00	14 76	-584 17	584 35	10 00	10 00	0 00	0 00
End Build @ 7313 55' MD - Hold Angle = 91 14°										

HALLIBURTON**Plan Report for Onyx PWU 29 5H - 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 (°)
7,400 00	91 14	271 45	6,973 28	16 94	-670 57	670 79	0 00	0 00	0 00	0 00
7,500 00	91 14	271 45	6,971 29	19 46	-770 52	770 77	0 00	0 00	0 00	0 00
7,600 00	91 14	271 45	6,969 30	21 99	-870 47	870 75	0 00	0 00	0 00	0 00
7,700 00	91 14	271 45	6,967 31	24 51	-970 42	970 73	0 00	0 00	0 00	0 00
7,800 00	91 14	271 45	6,965 32	27 04	-1,070 37	1,070 71	0 00	0 00	0 00	0 00
7,900 00	91 14	271 45	6,963 34	29 56	-1,170 31	1,170 69	0 00	0 00	0 00	0 00
8,000 00	91 14	271 45	6,961 35	32 09	-1,270 26	1,270 67	0 00	0 00	0 00	0 00
8,100 00	91 14	271 45	6,959 36	34 61	-1,370 21	1,370 65	0 00	0 00	0 00	0 00
8,200 00	91 14	271 45	6,957 37	37 14	-1,470 16	1,470 63	0 00	0 00	0 00	0 00
8,300 00	91 14	271 45	6,955 38	39 66	-1,570 11	1,570 61	0 00	0 00	0 00	0 00
8,400 00	91 14	271 45	6,953 39	42 18	-1,670 06	1,670 59	0 00	0 00	0 00	0 00
8,500 00	91 14	271 45	6,951 40	44 71	-1,770 00	1,770 57	0 00	0 00	0 00	0 00
8,600 00	91 14	271 45	6,949 42	47 23	-1,869 95	1,870 55	0 00	0 00	0 00	0 00
8,700 00	91 14	271 45	6,947 43	49 76	-1,969 90	1,970 53	0 00	0 00	0 00	0 00
8,800 00	91 14	271 45	6,945 44	52 28	-2,069 85	2,070 51	0 00	0 00	0 00	0 00
8,900 00	91 14	271 45	6,943 45	54 81	-2,169 80	2,170 49	0 00	0 00	0 00	0 00
9,000 00	91 14	271 45	6,941 46	57 33	-2,269 75	2,270 47	0 00	0 00	0 00	0 00
9,100 00	91 14	271 45	6,939 47	59 86	-2,369 69	2,370 45	0 00	0 00	0 00	0 00
9,200 00	91 14	271 45	6,937 48	62 38	-2,469 64	2,470 43	0 00	0 00	0 00	0 00
9,300 00	91 14	271 45	6,935 49	64 91	-2,569 59	2,570 41	0 00	0 00	0 00	0 00
9,400 00	91 14	271 45	6,933 51	67 43	-2,669 54	2,670 39	0 00	0 00	0 00	0 00
9,500 00	91 14	271 45	6,931 52	69 96	-2,769 49	2,770 37	0 00	0 00	0 00	0 00
9,600 00	91 14	271 45	6,929 53	72 48	-2,869 44	2,870 35	0 00	0 00	0 00	0 00
9,700 00	91 14	271 45	6,927 54	75 01	-2,969 38	2,970 33	0 00	0 00	0 00	0 00
9,800 00	91 14	271 45	6,925 55	77 53	-3,069 33	3,070 31	0 00	0 00	0 00	0 00
9,900 00	91 14	271 45	6,923 56	80 05	-3,169 28	3,170 29	0 00	0 00	0 00	0 00
10,000 00	91 14	271 45	6,921 57	82 58	-3,269 23	3,270 27	0 00	0 00	0 00	0 00
10,100 00	91 14	271 45	6,919 59	85 10	-3,369 18	3,370 25	0 00	0 00	0 00	0 00
10,200 00	91 14	271 45	6,917 60	87 63	-3,469 13	3,470 23	0 00	0 00	0 00	0 00
10,300 00	91 14	271 45	6,915 61	90 15	-3,569 07	3,570 21	0 00	0 00	0 00	0 00
10,400 00	91 14	271 45	6,913 62	92 68	-3,669 02	3,670 19	0 00	0 00	0 00	0 00
10,500 00	91 14	271 45	6,911 63	95 20	-3,768 97	3,770 17	0 00	0 00	0 00	0 00
10,600 00	91 14	271 45	6,909 64	97 73	-3,868 92	3,870 15	0 00	0 00	0 00	0 00
10,700 00	91 14	271 45	6,907 65	100 25	-3,968 87	3,970 13	0 00	0 00	0 00	0 00
10,800 00	91 14	271 45	6,905 66	102 78	-4,068 82	4,070 11	0 00	0 00	0 00	0 00
10,900 00	91 14	271 45	6,903 68	105 30	-4,168 76	4,170 09	0 00	0 00	0 00	0 00
11,000 00	91 14	271 45	6,901 69	107 83	-4,268 71	4,270 07	0 00	0 00	0 00	0 00
11,100 00	91 14	271 45	6,899 70	110 35	-4,368 66	4,370 05	0 00	0 00	0 00	0 00
11,200 00	91 14	271 45	6,897 71	112 87	-4,468 61	4,470 03	0 00	0 00	0 00	0 00
11,300 00	91 14	271 45	6,895 72	115 40	-4,568 56	4,570 01	0 00	0 00	0 00	0 00
11,400 00	91 14	271 45	6,893 73	117 92	-4,668 51	4,669 99	0 00	0 00	0 00	0 00
11,500 00	91 14	271 45	6,891 74	120 45	-4,768 45	4,769 98	0 00	0 00	0 00	0 00
11,600 00	91 14	271 45	6,889 76	122 97	-4,868 40	4,869 96	0 00	0 00	0 00	0 00
11,700 00	91 14	271 45	6,887 77	125 50	-4,968 35	4,969 94	0 00	0 00	0 00	0 00
11,800 00	91 14	271 45	6,885 78	128 02	-5,068 30	5,069 92	0 00	0 00	0 00	0 00
11,839 11	91 14	271 45	6,885 00	129 01	-5,107 39	5,109 02	0 00	0 00	0 00	0 00

TD @ 11839 11' MD - Onyx PWU 29 5H / BHL

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,402 15	6,402 15	0 00	0 00	KOP/Start Build @ 6402 15' MD
6,402 15	6,402 15	0 00	0 00	Build Rate = 10 00°/100'
7,313 55	6,975 00	14 76	-584 17	End Build @ 7313 55' MD
7,313 55	6,975 00	14 76	-584 17	Hold Angle = 91 14°
11,839 11	6,885 00	129 01	-5,107 39	TD @ 11839 11' MD

Plan Report for Onyx PWU 29 5H - Plan #1

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	271 45	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	11,838 35	Plan #1	MWD

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	6,990 00	2nd Bone Spring Lm		-1 14	271 45
	6,996 62	B/ Target Line		-1 14	271 45
420 00	420 00	Salado		-1 14	271 45
1,165 00	1,165 00	Tansil Dolomite		-1 14	271 45
1,363 00	1,363 00	Yates		-1 14	271 45
1,614 00	1,614 00	Seven Rivers		-1 14	271 45
1,975 00	1,975 00	Queen		-1 14	271 45
2,873 00	2,873 00	San Andres		-1 14	271 45
3,273 00	3,273 00	Delaware		-1 14	271 45
4,857 00	4,857 00	Cutoff Dolomite		-1 14	271 45
4,987 00	4,987 00	Bone Spring Lm		-1 14	271 45
6,985 07	6,895 00	1st Bone Spring Ss		-1 14	271 45
6,985 07	6,895 00	1st Bone Spring Middle Ss		-1 14	271 45
7,034 52	6,920 00	1st Bone Spring Middle B Ss		-1 14	271 45
7,107 60	6,950 00	1st Bone Spring Lower Ss		-1 14	271 45
7,175 20	6,970 00	1st Bone Spring Lower B Ss		-1 14	271 45
7,206 32	6,976 62	T/ Target Line		-1 14	271 45
7,310 76	6,986 62	Target Line		-1 14	271 45

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Onyx PWU 29 5H / BHL	6,885 00	129 01	-5,107 39	Point

North Reference Sheet for Onyx PWU 29 - Onyx PWU 29 5H - 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 3321' + KB 25' @ 3346 00ft (Cactus 126) Northing and Easting are relative to Onyx PWU 29 5H

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 99991562

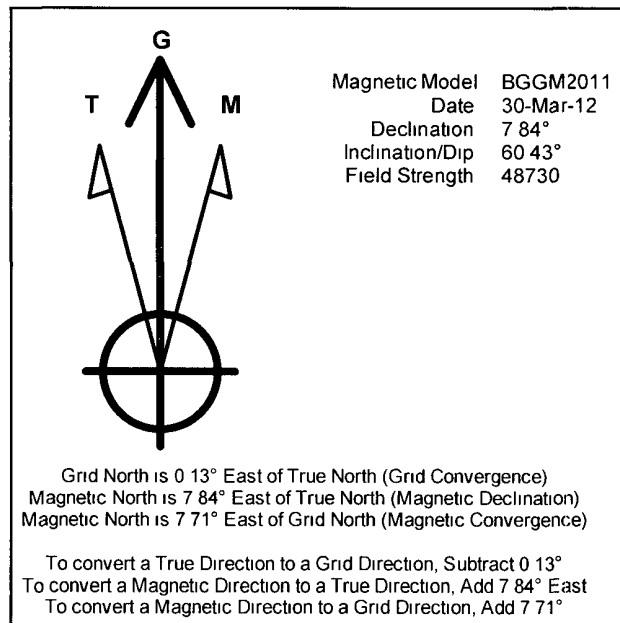
Grid Coordinates of Well 595,859 79 ft N, 616,877 29 ft E

Geographical Coordinates of Well 32° 38' 16 18" N, 104° 05' 16 56" W

Grid Convergence at Surface is 0 13°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,839 11ft
the Bottom Hole Displacement is 5,109 02ft in the Direction of 271 45° (Grid)

Magnetic Convergence at surface is -7 71° (30 March 2012, , BGGM2011)



Project: Eddy County, NM (NAD 83)
 Site: Onyx PWU 29
 Well: Onyx PWU 29 5H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3321' + KB 25' @ 3346 00ft (Cactus 126)
 Northing 595859 79 Easting 616877 29 32° 38' 16 179 N 104° 5' 16 561 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
6402 15	0 00	0 00	6402 15	0 00	0 00	0 00	0 00	0 00	KOP/Start Build
7313 55	91 14	271 45	6975 00	14 76	-584 17	10 00	271 45	584 35	End Build
11839 11	91 14	271 45	6885 00	129 01	-5107 39	0 00	0 00	5109.02	TD

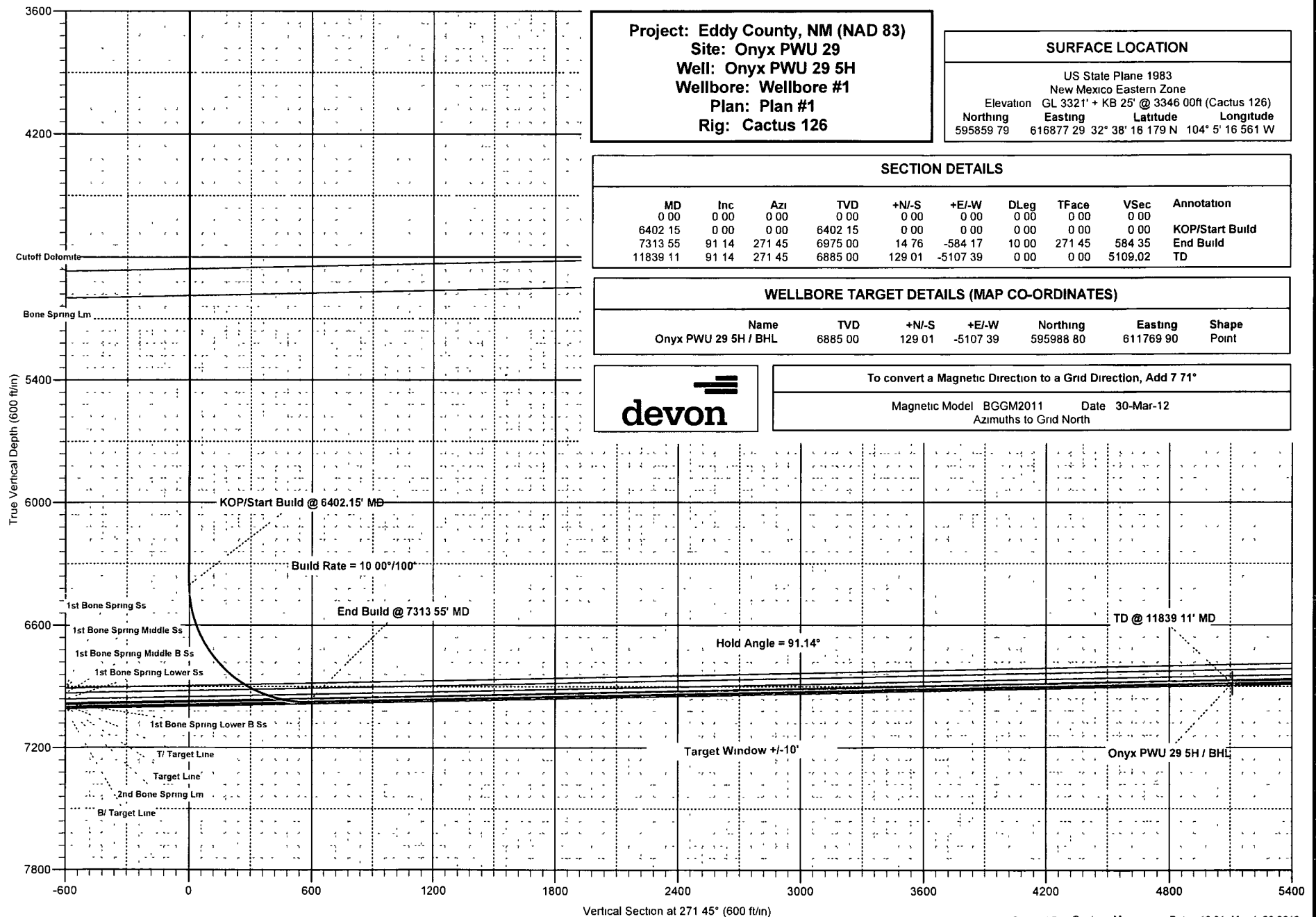
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
Onyx PWU 29 5H / BHL	6885 00	129 01	-5107 39	595988 80	611769 90	



To convert a Magnetic Direction to a Grid Direction, Add 7 71°

Magnetic Model BGGM2011 Date 30-Mar-12
 Azimuths to Grid North



Vertical Section at 271 45° (600 ft/in)



Project: Eddy County, NM (NAD 83)
 Site: Onyx PWU 29
 Well: Onyx PWU 29 5H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Cactus 126

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3321' + KB 25' @ 3346 00ft (Cactus 126)
 Northing 595859 79 Easting 616877 29 Latitude 32° 38' 16 179 N Longitude 104° 5' 16 561 W

To convert a Magnetic Direction to a Grid Direction, Add 7 71°

Magnetic Model BGGM2011 Date 30-Mar-12
 Azimuths to Grid North

