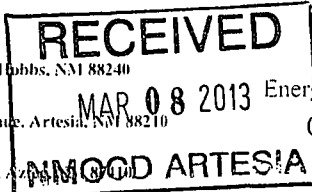


District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505



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 30-015-41182	² Pool Code 49622	³ Pool Name Parkway; B.S.
⁴ Property Code 38568	⁵ Property Name ONYX PWU "29"	⁶ Well Number 7H
⁷ GRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3316.5

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
L	28	19 S	29 E		2310	SOUTH	620	WEST	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
L	29	19 S	29 E		2310	SOUTH	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.

Completion Interval Lease Line Project Area Bottom of Hole KO-4330 Surface Location SEC. 28	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: <i>Melanie Crawford</i> Date: <i>3-6-13</i> Printed Name: Melanie Crawford 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 27, 2012 Date of Survey: <i>3/27/12</i> Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: <i>12797</i> SURVEY NO. 951
--	---

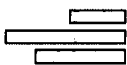


Weatherford®



Drilling Services

Proposal



devon

ONYX PWU 29 7H

EDDY COUNTY, NM

WELL FILE: **PLAN 2**

MARCH 4, 2013

Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	88.06	0.00	0.00	0.00	0.00	0.00	0.00	
2	6409.71	0.00	88.06	6409.71	0.00	0.00	0.00	0.00	0.00	
3	7146.63	88.43	88.06	6887.00	15.74	464.12	12.00	88.06	464.38	
4	11818.99	88.43	88.06	7015.00	174.00	5132.04	0.00	0.00	5134.99	PBHL

SITE DETAILS

Onyx PWU 29 7H
Site Centre Northing: 592834.36
Easting: 611277.17
Ground Level: 3304.00
Positional Uncertainty: 0.00
Convergence: 0.12

WELL DETAILS

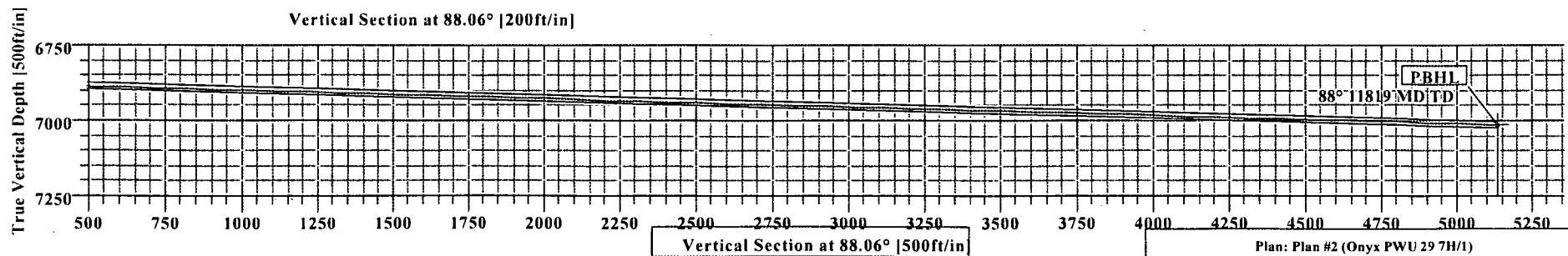
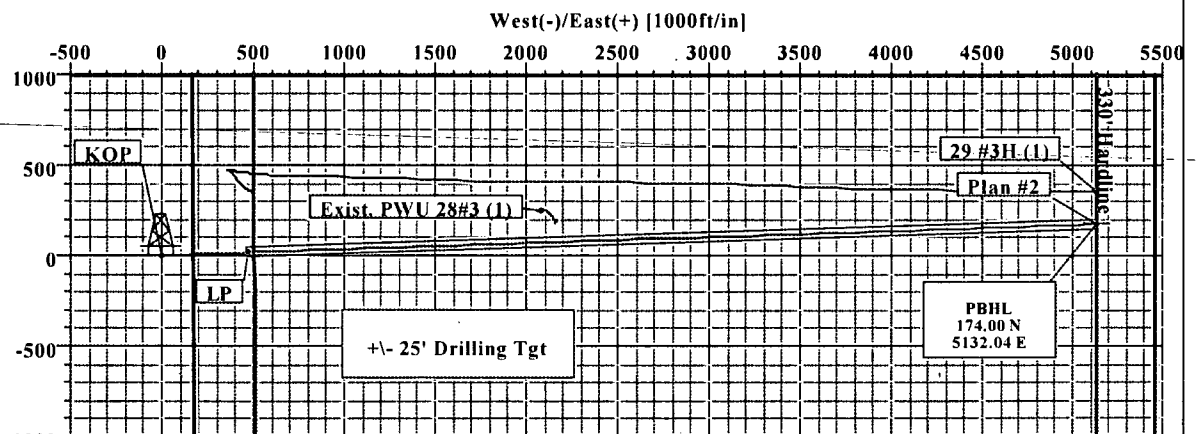
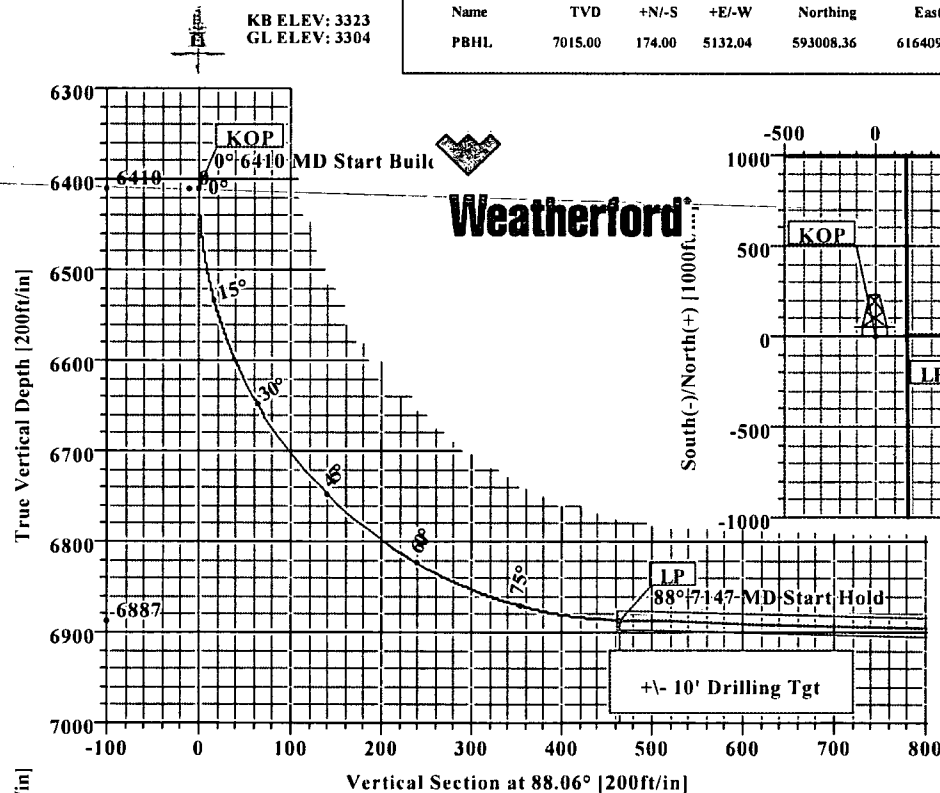
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Onyx PWU 29 7H	0.00	0.00	592834.36	611277.17	32°37'46.353N	104°06'22.144W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7015.00	174.00	5132.04	593008.36	616409.21	32°37'47.962N	104°05'22.126W	Point

LEGEND

Exist. PWU 28#3 (1)
29 #3H (1)
I
Plan #2





Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy	Date: 3/4/2013	Time: 14:03:48	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North		
Site: Onyx PWU 29 7H	Vertical (TVD) Reference: SITE 3323.0		
Well: Onyx PWU 29 7H	Section (VS) Reference: Well (0.00N,0.00E,88.06Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Dh: Sybase	

Plan: Plan #2	Date Composed: 3/4/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Site: Onyx PWU 29 7H		
Site Position:	Northing: 592834.36 ft	Latitude: 32 37 46.353 N
From: Map	Easting: 611277.17 ft	Longitude: 104 6 22.144 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3304.00 ft		Grid Convergence: 0.12 deg

Well: Onyx PWU 29 7H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 592834.36 ft	Latitude: 32 37 46.353 N
+E/-W 0.00 ft	Easting: 611277.17 ft	Longitude: 104 6 22.144 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 3/15/2013	Above System Datum: Mean Sea Level		
Field Strength: 48652 nT	Declination: 7.65 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.43 deg		
ft	+E/-W Direction		
	ft deg		
0.00	0.00	0.00	88.06

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	88.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6409.71	0.00	88.06	6409.71	0.00	0.00	0.00	0.00	0.00	0.00	
7146.63	88.43	88.06	6887.00	15.74	464.12	12.00	12.00	0.00	88.06	
11818.99	88.43	88.06	7015.00	174.00	5132.04	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
6409.71	0.00	88.06	6409.71	0.00	0.00	0.00	0.00	592834.36	611277.17	KOP
6425.00	1.83	88.06	6425.00	0.01	0.24	0.24	12.00	592834.37	611277.41	
6450.00	4.83	88.06	6449.95	0.06	1.70	1.70	12.00	592834.42	611278.87	
6475.00	7.83	88.06	6474.80	0.15	4.45	4.46	12.00	592834.51	611281.62	
6500.00	10.83	88.06	6499.46	0.29	8.51	8.51	12.00	592834.65	611285.68	
6525.00	13.83	88.06	6523.88	0.47	13.84	13.85	12.00	592834.83	611291.01	
6550.00	16.83	88.06	6547.99	0.69	20.45	20.46	12.00	592835.05	611297.62	
6575.00	19.83	88.06	6571.72	0.96	28.31	28.33	12.00	592835.32	611305.48	
6600.00	22.83	88.06	6595.00	1.27	37.40	37.42	12.00	592835.63	611314.57	
6625.00	25.83	88.06	6617.78	1.62	47.69	47.72	12.00	592835.98	611324.86	
6650.00	28.83	88.06	6639.98	2.01	59.16	59.20	12.00	592836.37	611336.33	
6675.00	31.83	88.06	6661.56	2.43	71.78	71.82	12.00	592836.79	611348.95	
6700.00	34.83	88.06	6682.44	2.90	85.51	85.56	12.00	592837.26	611362.68	
6725.00	37.83	88.06	6702.58	3.40	100.31	100.37	12.00	592837.76	611377.48	
6750.00	40.83	88.06	6721.91	3.94	116.15	116.22	12.00	592838.30	611393.32	
6775.00	43.83	88.06	6740.39	4.51	132.97	133.05	12.00	592838.87	611410.14	
6800.00	46.83	88.06	6757.97	5.11	150.74	150.83	12.00	592839.47	611427.91	
6825.00	49.83	88.06	6774.58	5.74	169.41	169.50	12.00	592840.10	611446.58	
6850.00	52.83	88.06	6790.20	6.41	188.91	189.02	12.00	592840.77	611466.08	
6875.00	55.83	88.06	6804.77	7.09	209.21	209.33	12.00	592841.45	611486.38	
6900.00	58.83	88.06	6818.27	7.81	230.24	230.37	12.00	592842.17	611507.41	
6925.00	61.83	88.06	6830.64	8.54	251.95	252.09	12.00	592842.90	611529.12	
6950.00	64.83	88.06	6841.86	9.30	274.28	274.43	12.00	592843.66	611551.45	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Onyx PWU 29 7H
Well: Onyx PWU 29 7H
Wellpath: 1

Date: 3/4/2013 Time: 14:03:48 Page: 2
Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0
Section (VS) Reference: Well (0.00N,0.00E,88.06Azi)
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
6975.00	67.83	88.06	6851.89	10.08	297.16	297.33	12.00	592844.44	611574.33	
7000.00	70.83	88.06	6860.71	10.87	320.53	320.72	12.00	592845.23	611597.70	
7025.00	73.83	88.06	6868.30	11.67	344.34	344.53	12.00	592846.03	611621.51	
7050.00	76.83	88.06	6874.63	12.49	368.51	368.72	12.00	592846.85	611645.68	
7075.00	79.83	88.06	6879.68	13.32	392.97	393.20	12.00	592847.68	611670.14	
7100.00	82.83	88.06	6883.45	14.16	417.67	417.91	12.00	592848.52	611694.84	
7125.00	85.83	88.06	6885.91	15.00	442.53	442.79	12.00	592849.36	611719.70	
7146.63	88.43	88.06	6887.00	15.74	464.12	464.38	12.00	592850.10	611741.29	LP
7200.00	88.43	88.06	6888.46	17.54	517.44	517.74	0.00	592851.90	611794.61	
7300.00	88.43	88.06	6891.20	20.93	617.34	617.70	0.00	592855.29	611894.51	
7400.00	88.43	88.06	6893.94	24.32	717.25	717.66	0.00	592858.68	611994.42	
7500.00	88.43	88.06	6896.68	27.71	817.15	817.62	0.00	592862.07	612094.32	
7600.00	88.43	88.06	6899.42	31.09	917.06	917.59	0.00	592865.45	612194.23	
7700.00	88.43	88.06	6902.16	34.48	1016.96	1017.55	0.00	592868.84	612294.13	
7800.00	88.43	88.06	6904.90	37.87	1116.87	1117.51	0.00	592872.23	612394.04	
7900.00	88.43	88.06	6907.64	41.25	1216.77	1217.47	0.00	592875.61	612493.94	
8000.00	88.43	88.06	6910.37	44.64	1316.68	1317.44	0.00	592879.00	612593.85	
8100.00	88.43	88.06	6913.11	48.03	1416.58	1417.40	0.00	592882.39	612693.75	
8200.00	88.43	88.06	6915.85	51.42	1516.49	1517.36	0.00	592885.78	612793.66	
8300.00	88.43	88.06	6918.59	54.80	1616.39	1617.32	0.00	592889.16	612893.56	
8400.00	88.43	88.06	6921.33	58.19	1716.30	1717.29	0.00	592892.55	612993.47	
8500.00	88.43	88.06	6924.07	61.58	1816.20	1817.25	0.00	592895.94	613093.37	
8600.00	88.43	88.06	6926.81	64.97	1916.11	1917.21	0.00	592899.33	613193.28	
8700.00	88.43	88.06	6929.55	68.35	2016.02	2017.17	0.00	592902.71	613293.19	
8800.00	88.43	88.06	6932.29	71.74	2115.92	2117.14	0.00	592906.10	613393.09	
8900.00	88.43	88.06	6935.03	75.13	2215.83	2217.10	0.00	592909.49	613493.00	
9000.00	88.43	88.06	6937.77	78.51	2315.73	2317.06	0.00	592912.87	613592.90	
9100.00	88.43	88.06	6940.51	81.90	2415.64	2417.02	0.00	592916.26	613692.81	
9200.00	88.43	88.06	6943.25	85.29	2515.54	2516.99	0.00	592919.65	613792.71	
9300.00	88.43	88.06	6945.99	88.68	2615.45	2616.95	0.00	592923.04	613892.62	
9400.00	88.43	88.06	6948.73	92.06	2715.35	2716.91	0.00	592926.42	613992.52	
9500.00	88.43	88.06	6951.47	95.45	2815.26	2816.87	0.00	592929.81	614092.43	
9600.00	88.43	88.06	6954.21	98.84	2915.16	2916.84	0.00	592933.20	614192.33	
9700.00	88.43	88.06	6956.95	102.22	3015.07	3016.80	0.00	592936.58	614292.24	
9800.00	88.43	88.06	6959.69	105.61	3114.97	3116.76	0.00	592939.97	614392.14	
9900.00	88.43	88.06	6962.43	109.00	3214.88	3216.72	0.00	592943.36	614492.05	
10000.00	88.43	88.06	6965.17	112.39	3314.78	3316.69	0.00	592946.75	614591.95	
10100.00	88.43	88.06	6967.91	115.77	3414.69	3416.65	0.00	592950.13	614691.86	
10200.00	88.43	88.06	6970.65	119.16	3514.59	3516.61	0.00	592953.52	614791.76	
10300.00	88.43	88.06	6973.39	122.55	3614.50	3616.57	0.00	592956.91	614891.67	
10400.00	88.43	88.06	6976.13	125.94	3714.40	3716.54	0.00	592960.30	614991.57	
10500.00	88.43	88.06	6978.86	129.32	3814.31	3816.50	0.00	592963.68	615091.48	
10600.00	88.43	88.06	6981.60	132.71	3914.21	3916.46	0.00	592967.07	615191.38	
10700.00	88.43	88.06	6984.34	136.10	4014.12	4016.42	0.00	592970.46	615291.29	
10800.00	88.43	88.06	6987.08	139.48	4114.02	4116.39	0.00	592973.84	615391.19	
10900.00	88.43	88.06	6989.82	142.87	4213.93	4216.35	0.00	592977.23	615491.10	
11000.00	88.43	88.06	6992.56	146.26	4313.83	4316.31	0.00	592980.62	615591.00	
11100.00	88.43	88.06	6995.30	149.65	4413.74	4416.27	0.00	592984.01	615690.91	
11200.00	88.43	88.06	6998.04	153.03	4513.64	4516.24	0.00	592987.39	615790.81	
11300.00	88.43	88.06	7000.78	156.42	4613.55	4616.20	0.00	592990.78	615890.72	
11400.00	88.43	88.06	7003.52	159.81	4713.45	4716.16	0.00	592994.17	615990.62	
11500.00	88.43	88.06	7006.26	163.20	4813.36	4816.12	0.00	592997.56	616090.53	



Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Onyx PWU 29 7H
Well: Onyx PWU 29 7H
Wellpath: 1

Date: 3/4/2013 Time: 14:03:48 Page: 3
Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0
Section (VS) Reference: Well (0.00N,0.00E,88.06Azi)
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
11600.00	88.43	88.06	7009.00	166.58	4913.26	4916.08	0.00	593000.94	616190.43	
11700.00	88.43	88.06	7011.74	169.97	5013.17	5016.05	0.00	593004.33	616290.34	
11800.00	88.43	88.06	7014.48	173.36	5113.07	5116.01	0.00	593007.72	616390.24	
11818.99	88.43	88.06	7015.00	174.00	5132.04	5134.99	0.00	593008.36	616409.21	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
PBHL			7015.00	174.00	5132.04	593008.36	616409.21	32	37	47.962 N	104	5	22.126 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6409.71	6409.71	KOP
7146.63	6887.00	LP
11818.99	0.00	PBHL



Weatherford Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	3/4/2013	Time:	14:04:47	Page:	1
Field:	Eddy Co., NM (NAD 83)						
Reference Site:	Onyx PWU 29 7H	Co-ordinate(NE) Reference:	Well: Onyx PWU 29 7H, Grid North				
Reference Well:	Onyx PWU 29 7H	Vertical (TVD) Reference:	SITE 3323.0				
Reference Wellpath:						Db:	Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria	Reference:	Plan: Plan #2
Interpolation Method MD + Stations Interval: 100.00 ft	Error Model:	ISCWSA Ellipse
Depth Range: 0.00 to 12295.77 ft	Scan Method:	Closest Approach 3D
Maximum Radius 40000.00 ft	Error Surface:	Ellipse

Plan:	Plan #2	Date Composed:	3/4/2013
Principal: Yes		Version:	1
		Tied-to:	From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
Exist. PWU 28#3	Exist. PWU 28#3	1 V0	8800.00	6917.59	191.89	118.68	2.62	
Onyx PWU 29 #3H	29 #3H	1 V0	11818.99	12302.98	925.77	838.09	10.56	

Site: Exist. PWU 28#3
Well: Exist. PWU 28#3
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	85.26	178.72	2154.28	2161.76			No Data
100.00	100.00	82.18	82.18	0.09	0.11	85.25	178.95	2154.26	2161.68	2161.48	10798.52	
200.00	200.00	176.85	176.85	0.32	0.33	85.24	179.53	2154.30	2161.77	2161.12	3346.49	
300.00	300.00	275.54	275.53	0.54	0.58	85.22	179.98	2154.55	2162.07	2160.95	1926.91	
400.00	400.00	371.54	371.53	0.77	0.82	85.22	180.28	2154.88	2162.43	2160.85	1366.71	
500.00	500.00	469.61	469.60	0.99	1.06	85.21	180.54	2155.40	2162.99	2160.94	1057.05	
600.00	600.00	570.80	570.80	1.21	1.31	85.20	180.93	2155.94	2163.54	2161.02	855.39	
700.00	700.00	664.43	664.42	1.44	1.56	85.19	181.52	2156.46	2164.16	2161.15	721.26	
800.00	800.00	754.46	754.44	1.66	1.80	85.17	182.29	2157.33	2165.20	2161.73	625.63	
900.00	900.00	847.95	847.92	1.89	2.04	85.15	183.02	2158.65	2166.66	2162.73	551.85	
1000.00	1000.00	945.30	945.26	2.11	2.29	85.14	183.74	2160.18	2168.30	2163.90	492.79	
1100.00	1100.00	1046.82	1046.76	2.34	2.55	85.12	184.57	2161.86	2170.01	2165.12	444.03	
1200.00	1200.00	1154.77	1154.69	2.56	2.83	85.10	185.51	2163.35	2171.46	2166.07	402.47	
1300.00	1300.00	1261.19	1261.10	2.79	3.11	85.08	186.43	2164.43	2172.55	2166.64	368.14	
1400.00	1400.00	1368.05	1367.96	3.01	3.39	85.05	187.50	2165.22	2173.37	2166.97	339.40	
1500.00	1500.00	1475.44	1475.33	3.24	3.66	85.02	188.78	2165.62	2173.84	2166.95	315.38	
1600.00	1600.00	1583.62	1583.51	3.46	3.90	84.99	190.03	2165.64	2173.97	2166.61	295.34	
1700.00	1700.00	1690.50	1690.38	3.69	4.11	84.95	191.18	2165.29	2173.73	2165.93	278.67	
1800.00	1800.00	1795.70	1795.57	3.91	4.31	84.92	192.33	2164.65	2173.22	2165.01	264.49	
1900.00	1900.00	1899.04	1898.90	4.14	4.49	84.89	193.54	2163.82	2172.52	2163.90	251.86	
2000.00	2000.00	1995.78	1995.63	4.36	4.67	84.86	194.67	2163.03	2171.82	2162.79	240.48	
2100.00	2100.00	2096.45	2096.29	4.59	4.86	84.83	195.62	2162.30	2171.18	2161.73	229.89	
2200.00	2200.00	2196.55	2196.39	4.81	5.04	84.81	196.43	2161.56	2170.52	2160.66	220.26	
2300.00	2300.00	2297.75	2297.59	5.04	5.23	84.79	197.21	2160.79	2169.83	2159.56	211.30	
2400.00	2400.00	2400.29	2400.12	5.26	5.42	84.76	197.99	2159.92	2169.05	2158.37	203.00	
2500.00	2500.00	2492.77	2492.60	5.49	5.61	84.74	198.73	2159.24	2168.39	2157.29	195.36	
2600.00	2600.00	2599.49	2599.31	5.71	5.83	84.72	199.48	2158.50	2167.77	2156.23	187.88	
2700.00	2700.00	2704.61	2704.42	5.93	6.01	84.70	199.97	2157.48	2166.85	2154.90	181.43	
2800.00	2800.00	2802.71	2802.51	6.16	6.18	84.69	200.43	2156.47	2165.86	2153.52	175.52	
2900.00	2900.00	2906.84	2906.64	6.38	6.35	84.68	200.78	2155.33	2164.80	2152.07	169.94	
3000.00	3000.00	3003.45	3003.24	6.61	6.51	84.67	200.99	2154.29	2163.75	2150.63	164.92	
3100.00	3100.00	3108.36	3108.15	6.83	6.70	84.66	201.37	2153.09	2162.64	2149.11	159.82	
3200.00	3200.00	3206.86	3206.64	7.06	6.87	84.65	201.62	2151.90	2161.46	2147.54	155.17	
3300.00	3300.00	3303.14	3302.91	7.28	7.05	84.64	201.94	2150.85	2160.41	2146.08	150.71	
3400.00	3400.00	3403.74	3403.50	7.51	7.27	84.62	202.59	2149.79	2159.42	2144.64	146.10	
3500.00	3500.00	3490.61	3490.37	7.73	7.48	84.60	203.33	2149.11	2158.73	2143.51	141.88	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013 Time: 14:04:47 Page: 2
Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0
Db: Sybase

Site: Exist. PWU 28#3
Well: Exist. PWU 28#3
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3600.00	3578.80	3578.55	7.96	7.71	84.56	204.48	2148.91	2158.62	2142.95	137.81	
3700.00	3700.00	3680.59	3680.32	8.18	7.97	84.51	206.38	2148.92	2158.81	2142.66	133.66	
3800.00	3800.00	3800.82	3800.52	8.41	8.28	84.44	209.13	2148.24	2158.48	2141.79	129.35	
3900.00	3900.00	3911.07	3910.72	8.63	8.56	84.36	211.99	2146.81	2157.44	2140.25	125.48	
4000.00	4000.00	4040.75	4040.31	8.86	8.88	84.27	215.22	2143.65	2155.22	2137.48	121.53	
4100.00	4100.00	4150.05	4149.49	9.08	9.15	84.15	219.17	2140.09	2152.34	2134.11	118.10	
4200.00	4200.00	4253.13	4252.43	9.31	9.40	84.04	223.00	2136.26	2149.02	2130.32	114.90	
4300.00	4300.00	4352.45	4351.59	9.53	9.65	83.92	227.13	2132.63	2145.82	2126.64	111.90	
4400.00	4400.00	4458.01	4456.98	9.76	9.91	83.79	231.60	2128.59	2142.46	2122.80	108.95	
4500.00	4500.00	4553.52	4552.36	9.98	10.15	83.69	234.83	2124.87	2138.96	2118.84	106.29	
4600.00	4600.00	4651.38	4650.11	10.21	10.39	83.59	238.19	2121.43	2135.85	2115.25	103.72	
4700.00	4700.00	4752.52	4751.11	10.43	10.64	83.49	241.77	2117.67	2132.55	2111.48	101.22	
4800.00	4800.00	4859.64	4858.12	10.66	10.90	83.40	244.69	2113.81	2129.29	2107.74	98.81	
4900.00	4900.00	4960.79	4959.16	10.88	11.14	83.32	246.97	2109.73	2125.54	2103.52	96.55	
5000.00	5000.00	5062.88	5061.14	11.10	11.39	83.24	249.78	2105.72	2121.96	2099.48	94.38	
5100.00	5100.00	5180.48	5178.60	11.33	11.66	83.15	252.32	2100.57	2117.88	2094.90	92.16	
5200.00	5200.00	5278.77	5276.75	11.55	11.88	83.08	254.25	2095.78	2113.27	2089.84	90.21	
5300.00	5300.00	5383.74	5381.60	11.78	12.10	83.04	255.37	2090.83	2108.72	2084.85	88.32	
5400.00	5400.00	5469.23	5466.99	12.00	12.28	83.01	255.75	2086.93	2104.26	2079.99	86.68	
5500.00	5500.00	5557.72	5555.42	12.23	12.46	83.00	255.83	2083.63	2100.56	2075.88	85.12	
5600.00	5600.00	5652.53	5650.18	12.45	12.65	82.99	255.85	2080.42	2097.21	2072.11	83.58	
5700.00	5700.00	5746.87	5744.47	12.68	12.84	82.97	256.33	2077.38	2094.06	2068.55	82.09	
5800.00	5800.00	5827.74	5825.31	12.90	13.01	82.97	256.04	2075.20	2091.38	2065.49	80.77	
5900.00	5900.00	5900.00	5897.56	13.13	13.17	82.96	256.19	2074.33	2090.15	2063.87	79.53	
6000.00	6000.00	5967.25	5964.81	13.35	13.28	82.95	256.55	2074.48	2090.36	2063.75	78.58	
6100.00	6100.00	6051.82	6049.37	13.58	13.38	82.95	256.71	2075.58	2091.65	2064.71	77.63	
6200.00	6200.00	6151.78	6149.32	13.80	13.48	82.95	256.95	2077.22	2093.31	2066.04	76.76	
6300.00	6300.00	6265.81	6263.34	14.03	13.66	82.93	257.93	2078.56	2094.59	2066.92	75.68	
6400.00	6400.00	6396.40	6393.91	14.25	13.95	82.88	259.68	2078.64	2094.84	2066.64	74.30	
6409.71	6409.71	6410.57	6408.08	14.27	13.99	82.87	259.92	2078.52	2094.77	2066.52	74.15	
6425.00	6425.00	6433.48	6430.99	14.31	14.04	354.80	260.23	2078.26	2094.38	2066.05	73.93	
6450.00	6449.95	6470.85	6468.35	14.36	14.13	354.76	260.59	2077.67	2092.57	2064.13	73.58	
6475.00	6474.80	6504.29	6501.78	14.42	14.20	354.71	260.74	2076.98	2089.33	2060.82	73.29	
6500.00	6499.46	6524.08	6521.57	14.47	14.24	354.65	260.77	2076.57	2084.79	2056.28	73.15	
6525.00	6523.88	6543.68	6541.16	14.53	14.27	354.57	260.78	2076.21	2079.03	2050.56	73.04	
6550.00	6547.99	6563.03	6560.51	14.59	14.31	354.47	260.76	2075.90	2072.06	2043.66	72.96	
6575.00	6571.72	6582.08	6579.56	14.64	14.34	354.35	260.72	2075.65	2063.91	2035.61	72.93	
6600.00	6595.00	6600.95	6598.43	14.70	14.37	354.21	260.65	2075.44	2054.59	2026.42	72.93	
6625.00	6617.78	6622.73	6620.21	14.77	14.41	354.05	260.57	2075.22	2044.10	2016.08	72.96	
6650.00	6639.98	6643.96	6641.44	14.83	14.44	353.85	260.49	2075.02	2032.46	2004.62	73.01	
6675.00	6661.56	6664.58	6662.06	14.90	14.48	353.62	260.43	2074.84	2019.69	1992.06	73.10	
6700.00	6682.44	6684.54	6682.02	14.98	14.51	353.35	260.37	2074.66	2005.82	1978.42	73.21	
6725.00	6702.58	6703.45	6700.93	15.06	14.54	353.04	260.32	2074.51	1990.91	1963.76	73.35	
6750.00	6721.91	6720.32	6717.80	15.15	14.55	352.68	260.27	2074.38	1974.99	1948.13	73.53	
6775.00	6740.39	6736.47	6733.95	15.26	14.57	352.27	260.19	2074.29	1958.11	1931.55	73.72	
6800.00	6757.97	6751.86	6749.33	15.38	14.59	351.79	260.10	2074.22	1940.33	1914.08	73.92	
6825.00	6774.58	6766.43	6763.91	15.51	14.60	351.22	260.00	2074.17	1921.67	1895.74	74.10	
6850.00	6790.20	6780.17	6777.64	15.66	14.62	350.56	259.88	2074.14	1902.20	1876.58	74.25	
6875.00	6804.77	6793.01	6790.49	15.83	14.63	349.76	259.76	2074.12	1881.95	1856.64	74.34	
6900.00	6818.27	6804.89	6802.36	16.01	14.64	348.81	259.64	2074.12	1861.00	1835.97	74.36	
6925.00	6830.64	6815.73	6813.20	16.22	14.65	347.64	259.54	2074.13	1839.38	1814.61	74.26	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013

Time: 14:04:47

Page: 3

Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0

Db: Sybase

Site: Exist. PWU 28#3

Well: Exist. PWU 28#3

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6950.00	6841.86	6825.59	6823.06	16.45	14.65	346.19	259.46	2074.14	1817.16	1792.60	73.96	
6975.00	6851.89	6834.44	6831.91	16.70	14.66	344.36	259.39	2074.15	1794.40	1769.95	73.38	
7000.00	6860.71	6842.24	6839.71	16.98	14.66	341.99	259.34	2074.17	1771.16	1746.69	72.38	
7025.00	6868.30	6848.98	6846.45	17.28	14.66	338.82	259.30	2074.19	1747.49	1722.79	70.75	
7050.00	6874.63	6854.62	6852.10	17.60	14.67	334.43	259.27	2074.21	1723.47	1698.22	68.25	
7075.00	6879.68	6859.16	6856.63	17.94	14.67	328.07	259.25	2074.23	1699.15	1672.83	64.56	
7100.00	6883.45	6862.57	6860.04	18.30	14.67	318.43	259.23	2074.24	1674.61	1646.46	59.50	
7125.00	6885.91	6864.84	6862.32	18.68	14.67	303.43	259.22	2074.25	1649.90	1619.07	53.52	
7146.63	6887.00	6865.88	6863.35	19.02	14.67	284.82	259.22	2074.25	1628.45	1595.29	49.11	
7200.00	6888.46	6867.37	6864.84	19.91	14.68	284.40	259.21	2074.26	1575.47	1541.42	46.27	
7300.00	6891.20	6870.19	6867.66	21.74	14.68	283.59	259.20	2074.27	1476.29	1440.40	41.13	
7400.00	6893.94	6873.04	6870.51	23.75	14.68	282.77	259.19	2074.28	1377.22	1339.31	36.33	
7500.00	6896.68	6875.93	6873.40	25.89	14.68	281.94	259.18	2074.30	1278.29	1238.21	31.90	
7600.00	6899.42	6878.85	6876.32	28.14	14.68	281.09	259.17	2074.31	1179.52	1137.17	27.85	
7700.00	6902.16	6881.81	6879.28	30.47	14.68	280.22	259.17	2074.33	1080.98	1036.26	24.17	
7800.00	6904.90	6884.80	6882.27	32.87	14.69	279.34	259.16	2074.34	982.72	935.56	20.84	
7900.00	6907.64	6887.83	6885.30	35.31	14.69	278.44	259.16	2074.36	884.84	835.19	17.82	
8000.00	6910.37	6890.90	6888.37	37.80	14.69	277.53	259.15	2074.37	787.48	735.29	15.09	
8100.00	6913.11	6894.01	6891.48	40.32	14.69	276.60	259.15	2074.39	690.86	636.10	12.61	
8200.00	6915.85	6897.16	6894.63	42.87	14.69	275.66	259.14	2074.41	595.35	537.98	10.38	
8300.00	6918.59	6900.38	6897.85	45.44	14.69	274.69	259.14	2074.43	501.56	441.56	8.36	
8400.00	6921.33	6903.90	6901.37	48.03	14.70	273.62	259.14	2074.45	410.68	348.04	6.56	
8500.00	6924.07	6907.39	6904.86	50.64	14.70	272.57	259.13	2074.47	325.17	259.87	4.98	
8600.00	6926.81	6910.83	6908.30	53.26	14.70	271.53	259.13	2074.49	250.57	182.63	3.69	
8700.00	6929.55	6914.23	6911.70	55.89	14.70	270.50	259.12	2074.51	199.54	128.95	2.83	
8800.00	6932.29	6917.59	6915.06	58.54	14.70	269.48	259.11	2074.53	191.89	118.68	2.62	
8900.00	6935.03	6920.91	6918.38	61.19	14.71	268.47	259.10	2074.55	231.96	156.12	3.06	
9000.00	6937.77	6924.19	6921.66	63.85	14.71	267.47	259.09	2074.56	301.28	222.81	3.84	
9100.00	6940.51	6927.44	6924.91	66.52	14.71	266.49	259.08	2074.58	384.34	303.25	4.74	
9200.00	6943.25	6930.65	6928.12	69.19	14.71	265.52	259.06	2074.60	473.96	390.28	5.66	
9300.00	6945.99	6933.82	6931.29	71.87	14.71	264.56	259.05	2074.61	567.04	480.79	6.57	
9400.00	6948.73	6936.96	6934.43	74.55	14.72	263.62	259.03	2074.62	662.13	573.32	7.46	
9500.00	6951.47	6940.06	6937.53	77.24	14.72	262.69	259.01	2074.64	758.47	667.12	8.30	
9600.00	6954.21	6943.13	6940.60	79.93	14.72	261.77	258.99	2074.65	855.64	761.78	9.12	
9700.00	6956.95	6946.17	6943.64	82.63	14.72	260.87	258.97	2074.66	953.39	857.04	9.89	
9800.00	6959.69	6949.17	6946.64	85.33	14.72	259.98	258.95	2074.67	1051.55	952.73	10.64	
9900.00	6962.43	6952.14	6949.61	88.03	14.72	259.11	258.93	2074.68	1150.02	1048.77	11.36	
10000.00	6965.17	6955.07	6952.54	90.73	14.73	258.25	258.91	2074.69	1248.72	1145.06	12.05	
10100.00	6967.91	6957.98	6955.45	93.44	14.73	257.41	258.88	2074.70	1347.61	1241.57	12.71	
10200.00	6970.65	6960.85	6958.32	96.15	14.73	256.58	258.86	2074.71	1446.65	1338.25	13.34	
10300.00	6973.39	6963.69	6961.16	98.86	14.73	255.76	258.83	2074.72	1545.80	1435.07	13.96	
10400.00	6976.13	6966.50	6963.97	101.57	14.73	254.96	258.81	2074.73	1645.06	1532.02	14.55	
10500.00	6978.86	6969.29	6966.76	104.29	14.73	254.17	258.78	2074.74	1744.39	1629.08	15.13	
10600.00	6981.60	6972.04	6969.51	107.00	14.74	253.40	258.75	2074.74	1843.79	1726.24	15.68	
10700.00	6984.34	6974.76	6972.23	109.72	14.74	252.64	258.72	2074.75	1943.25	1823.48	16.22	
10800.00	6987.08	6977.46	6974.93	112.44	14.74	251.89	258.69	2074.76	2042.75	1920.79	16.75	
10900.00	6989.82	6980.13	6977.60	115.16	14.74	251.16	258.66	2074.76	2142.30	2018.18	17.26	
11000.00	6992.56	6982.77	6980.24	117.88	14.74	250.44	258.63	2074.77	2241.89	2115.63	17.76	
11100.00	6995.30	6985.38	6982.85	120.61	14.74	249.73	258.60	2074.77	2341.51	2213.14	18.24	
11200.00	6998.04	6987.97	6985.44	123.33	14.74	249.04	258.57	2074.78	2441.15	2310.71	18.71	
11300.00	7000.78	6990.53	6988.00	126.05	14.75	248.36	258.54	2074.78	2540.82	2408.33	19.18	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013

Time: 14:04:47

Page: 4

Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0

Db: Sybase

Site: Exist. PWU 28#3
Well: Exist. PWU 28#3
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
11400.00	7003.52	6993.07	6990.53	128.78	14.75	247.69	258.51	2074.79	2640.52	2505.99	19.63
11500.00	7006.26	6995.58	6993.04	131.51	14.75	247.04	258.47	2074.79	2740.23	2603.71	20.07
11600.00	7009.00	6998.06	6995.53	134.23	14.75	246.39	258.44	2074.79	2839.96	2701.46	20.51
11700.00	7011.74	7000.00	6997.47	136.96	14.75	245.90	258.41	2074.79	2939.71	2799.14	20.91
11800.00	7014.48	7002.68	7000.14	139.69	14.75	245.22	258.37	2074.80	3039.47	2897.02	21.34
11818.99	7015.00	7003.09	7000.56	140.21	14.75	245.11	258.37	2074.80	3058.41	2915.59	21.41

Site: Onyx PWU 29 #3H
Well: 29 #3H
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
0.00	0.00	8.14	8.14	0.00	0.01	55.67	342.45	501.46	607.23	607.22	64202.97
100.00	100.00	109.84	109.84	0.09	0.13	55.62	342.78	501.03	607.07	606.85	2775.69
200.00	200.00	211.43	211.42	0.32	0.26	55.49	343.68	499.87	606.63	606.05	1048.38
300.00	300.00	312.19	312.16	0.54	0.53	55.32	344.84	498.30	606.00	604.93	565.76
400.00	400.00	412.77	412.72	0.77	0.80	55.12	346.11	496.51	605.26	603.69	387.20
500.00	500.00	512.17	512.09	0.99	1.06	54.92	347.44	494.70	604.53	602.48	294.53
600.00	600.00	611.44	611.33	1.21	1.33	54.72	348.83	492.96	603.91	601.37	237.67
700.00	700.00	709.69	709.57	1.44	1.58	54.54	350.10	491.57	603.50	600.48	199.58
800.00	800.00	807.94	807.81	1.66	1.84	54.41	351.14	490.69	603.39	599.88	172.26
900.00	900.00	905.98	905.85	1.89	2.05	54.33	351.99	490.31	603.58	599.64	153.36
1000.00	1000.00	1004.16	1004.02	2.11	2.25	54.28	352.71	490.42	604.10	599.73	138.30
1100.00	1100.00	1105.37	1105.23	2.34	2.43	54.25	353.26	490.72	604.66	599.89	126.74
1200.00	1200.00	1206.53	1206.39	2.56	2.61	54.24	353.58	490.94	605.01	599.84	116.88
1300.00	1300.00	1306.90	1306.76	2.79	2.84	54.22	353.90	491.00	605.25	599.62	107.58
1400.00	1400.00	1407.19	1407.05	3.01	3.06	54.17	354.38	490.87	605.43	599.35	99.63
1500.00	1500.00	1506.44	1506.29	3.24	3.30	54.13	354.88	490.78	605.65	599.11	92.63
1600.00	1600.00	1605.89	1605.74	3.46	3.54	54.11	355.29	490.91	605.99	598.99	86.60
1700.00	1700.00	1708.80	1708.65	3.69	3.74	54.08	355.59	490.86	606.12	598.69	81.60
1800.00	1800.00	1811.32	1811.17	3.91	3.95	54.04	355.73	490.32	605.78	597.92	77.05
1900.00	1900.00	1910.91	1910.76	4.14	4.16	53.99	355.87	489.62	605.29	596.99	72.96
2000.00	2000.00	2010.78	2010.62	4.36	4.37	53.93	356.11	488.92	604.87	596.14	69.29
2100.00	2100.00	2113.07	2112.92	4.59	4.57	53.88	356.18	488.08	604.24	595.09	66.01
2200.00	2200.00	2214.98	2214.81	4.81	4.76	53.84	355.91	487.02	603.24	593.67	63.01
2300.00	2300.00	2314.67	2314.50	5.04	4.93	53.81	355.51	485.95	602.14	592.17	60.42
2400.00	2400.00	2414.41	2414.23	5.26	5.10	53.79	355.09	484.95	601.08	590.72	58.02
2500.00	2500.00	2514.32	2514.13	5.49	5.28	53.76	354.68	483.97	600.05	589.29	55.73
2600.00	2600.00	2614.43	2614.24	5.71	5.47	53.74	354.30	482.99	599.04	587.86	53.60
2700.00	2700.00	2715.72	2715.53	5.93	5.66	53.71	353.85	481.87	597.89	586.29	51.55
2800.00	2800.00	2816.80	2816.59	6.16	5.86	53.68	353.32	480.55	596.52	584.50	49.62
2900.00	2900.00	2916.79	2916.58	6.38	6.07	53.64	352.77	479.17	595.08	582.63	47.78
3000.00	3000.00	3016.80	3016.57	6.61	6.28	53.60	352.24	477.77	593.64	580.75	46.06
3100.00	3100.00	3116.86	3116.62	6.83	6.50	53.55	351.79	476.30	592.19	578.85	44.40
3200.00	3200.00	3216.48	3216.23	7.06	6.73	53.49	351.45	474.74	590.74	576.95	42.84
3300.00	3300.00	3314.00	3313.73	7.28	6.97	53.42	351.34	473.39	589.55	575.30	41.36
3400.00	3400.00	3411.87	3411.60	7.51	7.21	53.34	351.52	472.32	588.79	574.07	40.00
3500.00	3500.00	3512.34	3512.07	7.73	7.47	53.25	351.90	471.22	588.13	572.93	38.68
3600.00	3600.00	3611.96	3611.67	7.96	7.73	53.13	352.42	469.94	587.41	571.73	37.45
3700.00	3700.00	3705.71	3705.42	8.18	7.94	53.00	353.47	469.04	587.32	571.20	36.43
3800.00	3800.00	3799.45	3799.14	8.41	8.15	52.84	355.35	468.76	588.29	571.74	35.53



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013

Time: 14:04:47

Page: 5

Co-ordinate(N/E) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0

Db: Sybase

Site: Onyx PWU 29 #3H
Well: 29 #3H
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
3900.00	3900.00	3906.39	3906.05	8.63	8.39	52.62	357.74	468.18	589.22	572.19	34.61	
4000.00	4000.00	4012.58	4012.20	8.86	8.64	52.36	359.64	466.39	588.97	571.47	33.66	
4100.00	4100.00	4113.03	4112.62	9.08	8.90	52.12	361.14	464.28	588.22	570.23	32.71	
4200.00	4200.00	4213.21	4212.77	9.31	9.16	51.90	362.46	462.20	587.40	568.93	31.81	
4300.00	4300.00	4311.57	4311.10	9.53	9.42	51.69	363.73	460.37	586.73	567.78	30.96	
4400.00	4400.00	4410.08	4409.59	9.76	9.67	51.49	365.07	458.82	586.34	566.91	30.18	
4500.00	4500.00	4509.81	4509.30	9.98	9.93	51.31	366.40	457.44	586.09	566.18	29.43	
4600.00	4600.00	4609.62	4609.10	10.21	10.19	51.14	367.63	456.19	585.89	565.50	28.73	
4700.00	4700.00	4710.10	4709.55	10.43	10.45	50.88	369.51	454.38	585.66	564.78	28.05	
4800.00	4800.00	4810.66	4810.02	10.66	10.71	50.48	372.51	451.54	585.37	564.00	27.40	
4900.00	4900.00	4912.74	4911.97	10.88	10.98	49.97	376.16	447.82	584.86	563.00	26.76	
5000.00	5000.00	5014.16	5013.21	11.10	11.24	49.40	380.02	443.45	584.03	561.68	26.13	
5100.00	5100.00	5112.02	5110.89	11.33	11.50	48.82	384.11	439.00	583.33	560.50	25.55	
5200.00	5200.00	5210.11	5208.78	11.55	11.76	48.19	388.66	434.60	583.04	559.73	25.01	
5300.00	5300.00	5310.56	5309.01	11.78	12.02	47.55	393.44	430.07	582.88	559.08	24.49	
5400.00	5400.00	5410.86	5409.09	12.00	12.28	46.90	398.12	425.48	582.69	558.41	23.99	
5500.00	5500.00	5510.01	5508.05	12.23	12.54	46.29	402.57	421.13	582.60	557.82	23.52	
5600.00	5600.00	5608.91	5606.78	12.45	12.80	45.72	406.81	417.14	582.67	557.42	23.07	
5700.00	5700.00	5704.78	5702.47	12.68	13.05	45.15	411.30	413.50	583.25	557.52	22.67	
5800.00	5800.00	5800.60	5798.09	12.90	13.30	44.55	416.55	410.02	584.57	558.37	22.31	
5900.00	5900.00	5899.18	5896.43	13.13	13.55	43.91	422.37	406.62	586.41	559.73	21.98	
6000.00	6000.00	5997.76	5994.79	13.35	13.80	43.29	428.25	403.45	588.52	561.37	21.68	
6100.00	6100.00	6099.77	6096.57	13.58	14.06	42.66	434.25	400.15	590.61	562.98	21.37	
6200.00	6200.00	6201.88	6198.45	13.80	14.32	42.03	439.98	396.54	592.39	564.26	21.06	
6300.00	6300.00	6304.13	6300.49	14.03	14.59	41.40	445.37	392.71	593.82	565.21	20.75	
6400.00	6400.00	6406.53	6402.69	14.25	14.86	40.80	450.32	388.72	594.91	565.80	20.44	
6409.71	6409.71	6416.64	6412.78	14.27	14.88	40.74	450.78	388.32	595.00	565.84	20.41	
6425.00	6425.00	6432.55	6428.67	14.31	14.93	312.57	451.48	387.69	594.95	565.72	20.35	
6450.00	6449.95	6458.49	6454.56	14.36	15.00	312.25	452.58	386.67	594.13	564.79	20.25	
6475.00	6474.80	6484.26	6480.29	14.42	15.06	311.75	453.60	385.66	592.40	562.97	20.12	
6500.00	6499.46	6509.80	6505.79	14.47	15.13	311.08	454.56	384.65	589.79	560.27	19.98	
6525.00	6523.88	6535.04	6531.00	14.53	15.20	310.23	455.44	383.66	586.32	556.72	19.81	
6550.00	6547.99	6559.90	6555.83	14.59	15.26	309.20	456.25	382.69	582.02	552.36	19.62	
6575.00	6571.72	6584.33	6580.22	14.64	15.33	307.99	456.99	381.74	576.95	547.23	19.41	
6600.00	6595.00	6608.27	6604.14	14.70	15.39	306.60	457.66	380.80	571.16	541.37	19.17	
6625.00	6617.78	6631.69	6627.53	14.77	15.45	305.02	458.29	379.86	564.70	534.84	18.91	
6650.00	6639.98	6654.42	6650.23	14.83	15.51	303.27	458.86	378.92	557.64	527.71	18.63	
6675.00	6661.56	6676.40	6672.19	14.90	15.57	301.34	459.39	377.98	550.06	520.03	18.32	
6700.00	6682.44	6697.58	6693.35	14.98	15.62	299.25	459.87	377.04	542.05	511.91	17.99	
6725.00	6702.58	6717.90	6713.63	15.06	15.68	297.02	460.31	376.12	533.71	503.43	17.63	
6750.00	6721.91	6737.28	6733.00	15.15	15.73	294.66	460.70	375.22	525.13	494.70	17.26	
6775.00	6740.39	6755.69	6751.38	15.26	15.78	292.23	461.06	374.35	516.44	485.82	16.87	
6800.00	6757.97	6773.07	6768.74	15.38	15.82	289.73	461.38	373.50	507.75	476.93	16.47	
6825.00	6774.58	6789.38	6785.02	15.51	15.86	287.23	461.66	372.70	499.19	468.14	16.07	
6850.00	6790.20	6804.31	6799.94	15.66	15.90	284.78	461.91	371.94	490.91	459.61	15.68	
6875.00	6804.77	6817.63	6813.23	15.83	15.94	282.46	462.13	371.28	483.04	451.48	15.31	
6900.00	6818.27	6829.88	6825.47	16.01	15.97	280.25	462.33	370.68	475.73	443.90	14.95	
6925.00	6830.64	6841.03	6836.60	16.22	16.00	278.20	462.52	370.14	469.12	437.01	14.61	
6950.00	6841.86	6851.05	6846.61	16.45	16.03	276.34	462.69	369.67	463.33	430.93	14.30	
6975.00	6851.89	6859.91	6855.46	16.70	16.05	274.71	462.84	369.25	458.50	425.79	14.02	
7000.00	6860.71	6867.57	6863.11	16.98	16.07	273.33	462.98	368.90	454.72	421.71	13.77	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013

Time: 14:04:47

Page: 6

Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0

Db: Sybase

Site: Onyx PWU 29 #3H
Well: 29 #3H
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	Major Axis TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
7025.00	6868.30	6874.02	6869.55	17.28	16.09	272.22	463.09	368.60	452.12	418.78	13.56	
7050.00	6874.63	6879.22	6874.74	17.60	16.10	271.41	463.18	368.36	450.75	417.08	13.39	
7075.00	6879.68	6883.15	6878.67	17.94	16.11	270.91	463.25	368.19	450.70	416.68	13.25	
7100.00	6883.45	6885.81	6881.33	18.30	16.12	270.73	463.29	368.07	451.98	417.59	13.14	
7125.00	6885.91	6887.18	6882.69	18.68	16.12	270.88	463.32	368.01	454.61	419.84	13.08	
7146.63	6887.00	6887.30	6882.82	19.02	16.12	271.27	463.32	368.00	457.95	422.85	13.05	
7200.00	6888.46	6886.41	6881.93	19.91	16.12	271.38	463.31	368.04	470.36	434.38	13.07	
7300.00	6891.20	6884.71	6880.23	21.74	16.11	271.59	463.28	368.12	508.08	470.28	13.44	
7400.00	6893.94	6883.00	6878.52	23.75	16.11	271.81	463.25	368.19	561.29	521.50	14.11	
7500.00	6896.68	6881.25	6876.78	25.89	16.10	272.03	463.21	368.27	626.05	584.13	14.93	
7600.00	6899.42	6879.49	6875.01	28.14	16.10	272.26	463.18	368.35	699.17	655.00	15.83	
7700.00	6902.16	6877.70	6873.22	30.47	16.10	272.49	463.15	368.43	778.28	731.79	16.74	
7800.00	6904.90	6875.88	6871.41	32.87	16.09	272.72	463.12	368.52	861.74	812.87	17.63	
7900.00	6907.64	6874.03	6869.56	35.31	16.09	272.95	463.09	368.60	948.40	897.10	18.49	
8000.00	6910.37	8515.78	7827.15	37.80	29.30	202.78	425.36	1281.84	985.92	953.09	30.04	
8100.00	6913.11	8622.56	7832.75	40.32	31.72	202.39	422.96	1388.45	986.13	951.52	28.49	
8200.00	6915.85	8734.85	7836.36	42.87	34.35	201.97	419.10	1500.61	983.92	947.48	27.00	
8300.00	6918.59	8825.66	7839.65	45.44	36.53	201.61	415.77	1591.30	982.14	944.06	25.79	
8400.00	6921.33	8933.55	7844.08	48.03	39.18	201.15	411.68	1699.01	980.82	940.99	24.63	
8500.00	6924.07	9048.36	7846.48	50.64	42.03	200.78	408.42	1813.75	977.98	936.26	23.44	
8600.00	6926.81	9137.88	7847.66	53.26	44.28	200.58	407.28	1903.26	975.01	931.53	22.42	
8700.00	6929.55	9242.49	7848.65	55.89	46.91	200.44	407.68	2007.86	972.27	926.76	21.36	
8800.00	6932.29	9335.11	7849.17	58.54	49.25	200.42	409.63	2100.46	969.78	922.25	20.40	
8900.00	6935.03	9447.97	7849.98	61.19	52.21	200.35	411.42	2213.30	967.30	917.53	19.44	
9000.00	6937.77	9573.68	7848.78	63.85	55.52	200.09	409.22	2338.98	961.94	910.05	18.54	
9100.00	6940.51	9678.69	7846.88	66.52	58.28	199.81	406.11	2443.92	955.50	901.78	17.78	
9200.00	6943.25	9761.06	7845.78	69.19	60.45	199.56	403.35	2526.23	949.45	894.15	17.17	
9300.00	6945.99	9844.45	7846.68	71.87	62.64	199.28	400.83	2609.58	945.71	888.90	16.65	
9400.00	6948.73	9929.06	7847.83	74.55	64.88	199.13	400.57	2694.18	943.23	884.72	16.12	
9500.00	6951.47	10011.25	7850.99	77.24	67.07	198.93	400.16	2776.30	942.97	882.90	15.70	
9600.00	6954.21	10111.21	7855.58	79.93	69.73	198.64	399.23	2876.15	943.33	881.62	15.29	
9700.00	6956.95	10213.83	7860.66	82.63	72.47	198.32	397.86	2978.64	943.95	880.66	14.92	
9800.00	6959.69	10326.03	7865.59	85.33	75.48	197.83	393.72	3090.65	943.31	878.65	14.59	
9900.00	6962.43	10423.74	7869.32	88.03	78.11	197.41	390.21	3188.23	942.23	876.31	14.29	
10000.00	6965.17	10542.26	7873.58	90.73	81.29	196.89	385.58	3306.58	940.98	873.78	14.00	
10100.00	6967.91	10650.29	7875.31	93.44	84.21	196.43	381.02	3414.50	937.70	869.27	13.70	
10200.00	6970.65	10747.19	7876.58	96.15	86.83	196.04	377.27	3511.31	934.30	864.70	13.42	
10300.00	6973.39	10841.26	7878.27	98.86	89.37	195.66	373.66	3605.30	931.42	860.70	13.17	
10400.00	6976.13	10939.49	7880.31	101.57	92.03	195.26	370.15	3703.45	928.93	857.10	12.93	
10500.00	6978.86	11028.90	7882.60	104.29	94.46	194.94	367.67	3792.80	927.15	854.22	12.71	
10600.00	6981.60	11119.84	7885.72	107.00	96.92	194.63	365.83	3883.66	926.45	852.37	12.51	
10700.00	6984.34	11213.30	7889.64	109.72	99.45	194.33	364.33	3977.03	926.60	851.37	12.32	
10800.00	6987.08	11307.71	7893.93	112.44	102.00	194.03	363.01	4071.33	927.21	850.82	12.14	
10900.00	6989.82	11437.81	7898.16	115.16	105.54	193.63	360.82	4201.33	926.43	848.68	11.92	
11000.00	6992.56	11537.67	7899.98	117.88	108.26	193.32	358.83	4301.16	924.28	845.39	11.72	
11100.00	6995.30	11634.55	7901.95	120.61	110.89	193.02	356.95	4398.00	922.38	842.39	11.53	
11200.00	6998.04	11733.02	7904.11	123.33	113.57	192.74	355.62	4496.43	920.79	839.64	11.35	
11300.00	7000.78	11834.75	7906.18	126.05	116.32	192.49	354.75	4598.14	919.18	836.79	11.16	
11400.00	7003.52	11922.91	7907.99	128.78	118.73	192.29	354.37	4686.28	917.74	834.17	10.98	
11500.00	7006.26	12008.56	7911.85	131.51	121.05	192.03	353.24	4771.83	918.43	833.91	10.87	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Onyx PWU 29 7H
Reference Well: Onyx PWU 29 7H
Reference Wellpath:

Date: 3/4/2013

Time: 14:04:47

Page: 7

Co-ordinate(NE) Reference: Well: Onyx PWU 29 7H, Grid North
Vertical (TVD) Reference: SITE 3323.0

Db: Sybase

Site: Onyx PWU 29 #3H

Well: 29 #3H

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11600.00	7009.00	12105.41	7916.27	134.23	123.68	191.80	353.19	4868.58	919.51	833.80	10.73	
11700.00	7011.74	12193.31	7921.51	136.96	126.10	191.51	351.96	4956.31	921.71	835.13	10.65	
11800.00	7014.48	12284.03	7927.86	139.69	128.55	191.22	351.12	5046.81	925.04	837.55	10.57	
11818.99	7015.00	12302.98	7929.26	140.21	129.07	191.17	350.99	5065.71	925.77	838.09	10.56	

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

GeoDec v5.03

Report Date: March 04, 2013

Job Number: _____

Customer: Devon Energy

Well Name: Onyx PWU 29 #7H

API Number: _____

Rig Name: _____

Location: Eddy Co., NM

Block: _____

Engineer: RWJ

US State Plane 1983

System: New Mexico Eastern Zone

Projection: Transverse Mercator/Gauss Kruger

Datum: North American Datum 1983

Ellipsoid: GRS 1980

North/South 592834.360 USFT

East/West 611277.170 USFT

Grid Convergence: 12°

Total Correction: +7.64°

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Latitude 32.6295458 DEG

Longitude -104.1061471 DEG

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.62955° N 32° 37 min 46.365 sec

Longitude = 104.10615° W 104° 6 min 22.129 sec

Magnetic Declination = 7.76° [True North Offset]

Local Gravity = .9988 g CheckSum = 6692

Local Field Strength = 48626 nT Magnetic Vector X = 23809 nT

Magnetic Dip = 60.39° Magnetic Vector Y = 3244 nT

Magnetic Model = bggm2012 Magnetic Vector Z = 42274 nT

Spud Date = Mar 15, 2013 Magnetic Vector H = 24028 nT

Signed: _____

Date: _____