

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM114990

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

JUN 16 2014

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
FIGHTING OKRA 18 FED COM 1H

2. Name of Operator

DEVON ENERGY PRODUCTION CO LP

Contact: DAVID H COOK
Email: david.cook@devn.com

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9. API Well No.
30-025-40382-00-X1

3a. Address

333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 731023b. Phone No. (include area code)
Ph: 405-552-7848

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10. Field and Pool, or Exploratory
WILDCAT G06 S263407P

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 T26S R34E SWNW 2590FNL 330FWL

JUN 16 2014

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Co., L.P. respectfully requests to make the following changes to the approved APD:

Plug back the original hole with a cement plug from 9,531' to 9,331'; set an open hole whipstock and re-drill the curve. The updated directional plan is attached.

The cement plug will be as follows:

Pilot hole plug back -

155sx, 15.6 #/gal, water volume: 5.4 g/sx; Yld. 1.19 cf/sx;

Class H Cement + 0.2% BWOC Halad-9 + 0.3% BWOC HR-601 + 60.5% Fresh Water.

Spencer Stuart, Devon Energy, spoke with Jennifer Mason, BLM and received verbal approval to

Verbal given on 5/21/14

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #246561 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 05/22/2014 (14LJ0179SE)

Name (Printed/Typed) DAVID H COOK

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/21/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

APPROVED
JUN 4 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

JUN 17 2014

Additional data for EC transaction #246561 that would not fit on the form

32. Additional remarks, continued

proceed.

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devon

Fighting Okra Federal Com 1H
Lea Co, NM



Weatherford

Plan Data for Fighting Okra Federal Com 1H ST01

Plan Point Information:									
DogLeg	Severity	Unit	°/100.00ft	Position offsets from Slot centre					
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
9323.46	1.41	199.24	9319.90	-79.97	151.32	380397.10	794616.98	-81.18	0.82
9341.43	1.31	203.87	9337.87	-80.37	151.16	380396.70	794616.82	-81.58	0.83
9356.43	0.78	349.06	9352.86	-80.43	151.07	380396.64	794616.73	-81.64	13.33
9361.43	0.78	349.08	9357.86	-80.36	151.06	380396.71	794616.72	-81.57	0.01
10075.20	00.00	349.07	9810.00	369.65	64.14	380846.72	794529.80	369.13	12.50
10158.98	00.00	359.54	9810.00	452.90	55.84	380929.97	794521.50	452.44	12.50
17253.78	00.00	359.54	9810.00	7547.47	-0.88	388024.54	794464.78	7547.23	0.00

Plan Data for Fighting Okra Federal Com 1H ST01

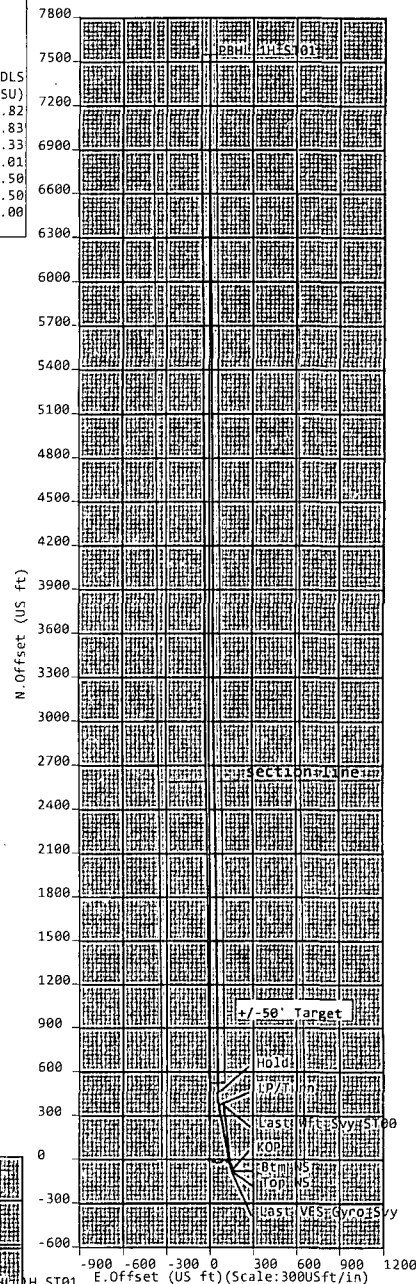
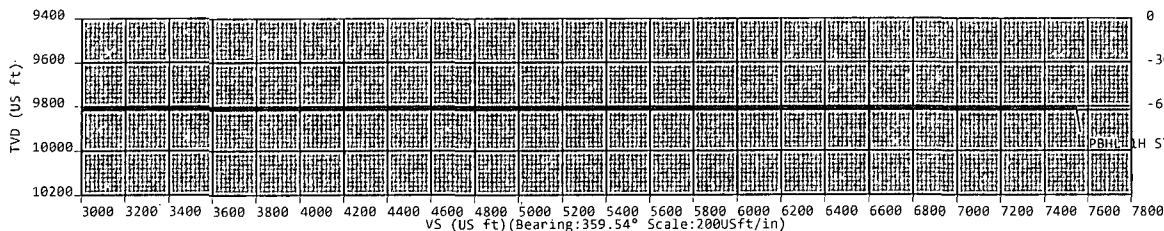
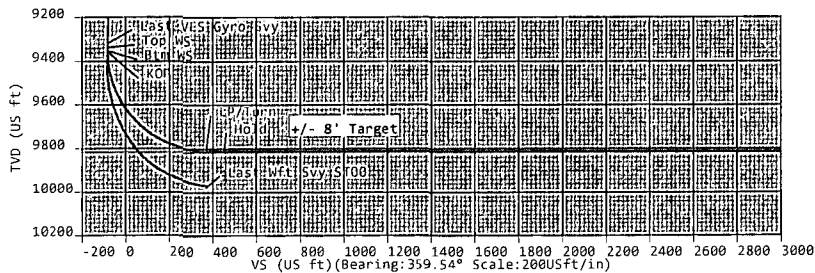
Slot: Fighting Okra Federal Com 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 380477.07USft Latitude: 32°2'36.2"
+E/-W: 0.00USft Easting: 794465.66USft Longitude: -103°30'59.0"
Elevation Above VRD: 3358.00USft

Plan Data for Fighting Okra Federal Com 1H ST01

Target Set Information:
Name: Fighting Okra Federal Com 1H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft)
Lp Tgt 9810.00 520.89 51.01 380997.96 794516.67 Cuboid
PBHL 1H 9810.00 7547.47 -0.88 388024.54 794464.78 Cuboid

Fighting Okra Federal Com 1H ST01 _____
Fighting Okra Federal Com 1H _____
Fighting Okra Federal Com 1H _____

KB-3383
GL-3358



Sign Off: Russell Joyner

5D Plan Report**Devon Energy**

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Fighting Okra Federal Com 1H*
Well Name: *Fighting Okra Federal Com 1H ST01*
Plan: *P1:V1*

21 May 2014

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**Weatherford®**

Fighting Okra Federal Com 1H ST01

Field Name Lea Co. NM Nad 88 NMEZ	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
Projected Coordinate System : NAD83 / New Mexico East (ftUS)		Comment :		
Site Name Fighting Okra Federal Com 1H	Units : US ft	North Reference : Grid	Convergence Angle : 0.43	
	Position	Northing : 380477.07 US ft	Latitude : 32°2'36.17"	
		Easting : 794465.66 US ft	Longitude : -103°30'58.99"	
	Elevation above Mean Sea Level: 3358.00 US ft		Comment :	
Slot Name Fighting Okra Federal Com 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 380477.07 US ft	Latitude : 32°2'36.17"	
	+E / -W : 0.00 US ft	Easting : 794465.66 US ft	Longitude : -103°30'58.99"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3358.00 US ft		Comment :		
Well Name Fighting Okra Federal Com 1H ST01	Type : Sidetrack	UWI :	Plan : P1:V1	
	Parent : Fighting Okra Federal Com 1H ST00	Tie Point Method : MD	Tie Point : 9323.46 US ft	
	Rig Height Drill Floor : 25.00 US ft	Comment :		
	Relative to Mean Sea Level: 3383.00 US ft			
	Closure Distance : 7547.47 US ft	Closure Azimuth : 359.993°		
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 359.54°	
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48204.1nT	Dec : 7.33°	Dip : 59.95°
			Date : 20/Jun/2014	

Target Set

Name : Fighting Okra Federal Com 1H
Number of Targets : 2

Comment :

Target Name: Lp Tgt Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 520.89US ft	Northing : 380997.96 US ft	Latitude : 32°2'41.32"	
	+E / -W : 51.01 US ft	Easting : 794516.67US ft	Longitude : -103°30'58.35"	
	TVD (Drill Floor) : 9810.00 US ft			
Orientation Azimuth : 359.54°		Inclination : 0.20°		
Dimensions Length : 6000.00 US ft	Breadth : 100.00 US ft	Height : 16.00 US ft		

5D Plan Report

Target Name: PBHL 1H Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 7547.47US ft	Northing : 388024.54 US ft	Latitude : 32°3'50.85"	
	+E / -W : -0.88 US ft	Easting : 794464.78US ft	Longitude : -103°30'58.34"	
	TVD (Drill Floor) : 9810.00 US ft			
	Orientation	Azimuth : 359.54°	Inclination : 0.20°	
	Dimensions	Length : 14046.00 US ft	Breadth : 100.00 US ft	Height : 16.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (%/100 US ft)	VS (US ft)	B.Rate (%/100 US ft)	T.Rate (%/100 US ft)	T.Face (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118.71	0.33	85.78	118.71	0.03	0.34	0.28	0.02	0.28	0.00	85.78
213.31	0.70	102.60	213.31	-0.08	1.18	0.42	-0.09	0.39	17.78	30.78
307.91	0.89	93.49	307.90	-0.25	2.47	0.24	-0.27	0.20	-9.63	321.76
402.51	0.96	84.56	402.48	-0.22	4.00	0.17	-0.25	0.07	-9.44	291.39
497.11	0.88	94.51	497.07	-0.20	5.51	0.19	-0.25	-0.08	10.52	121.52
591.71	0.84	96.93	591.66	-0.34	6.92	0.06	-0.40	-0.04	2.56	138.96
686.31	0.77	97.72	686.25	-0.51	8.24	0.07	-0.58	-0.07	0.84	171.39
780.91	0.79	87.13	780.84	-0.57	9.52	0.15	-0.64	0.02	-11.19	272.58
875.51	0.89	90.69	875.43	-0.54	10.91	0.12	-0.63	0.11	3.76	29.35
970.11	0.85	94.23	970.02	-0.60	12.34	0.07	-0.70	-0.04	3.74	128.42
1064.71	0.61	126.81	1064.61	-0.96	13.44	0.50	-1.06	-0.25	34.44	135.65
1159.31	0.59	115.12	1159.21	-1.46	14.29	0.13	-1.58	-0.02	-12.36	254.91
1253.91	0.84	116.38	1253.80	-1.98	15.35	0.26	-2.10	0.26	1.33	4.23
1348.51	0.83	106.05	1348.39	-2.48	16.63	0.16	-2.61	-0.01	-10.92	261.05
1443.11	0.56	180.15	1442.99	-3.13	17.29	0.91	-3.27	-0.29	78.33	141.48
1537.71	0.63	176.55	1537.58	-4.11	17.32	0.08	-4.25	0.07	-3.81	330.09
1632.31	0.76	153.73	1632.17	-5.19	17.63	0.32	-5.33	0.14	-24.12	283.46
1726.91	0.72	168.94	1726.77	-6.34	18.02	0.21	-6.48	-0.04	16.08	109.05
1821.51	0.94	163.62	1821.36	-7.67	18.35	0.25	-7.81	0.23	-5.62	338.02
1916.11	0.60	168.53	1915.95	-8.90	18.67	0.37	-9.05	-0.36	5.19	171.47
2010.71	0.52	151.89	2010.54	-9.76	18.97	0.19	-9.91	-0.08	-17.59	235.65
2105.31	0.64	153.87	2105.14	-10.61	19.40	0.13	-10.77	0.13	2.09	10.47
2199.91	0.79	149.92	2199.73	-11.65	19.96	0.17	-11.81	0.16	-4.18	339.83
2294.51	0.52	110.38	2294.33	-12.37	20.69	0.54	-12.53	-0.29	-41.80	220.40
2389.11	0.33	122.97	2388.92	-12.66	21.32	0.22	-12.83	-0.20	13.31	160.03
2483.71	0.60	71.03	2483.52	-12.65	22.02	0.50	-12.83	0.29	-54.90	274.83
2578.31	1.26	80.71	2578.11	-12.32	23.52	0.71	-12.51	0.70	10.23	18.26
2672.91	1.28	80.39	2672.68	-11.98	25.58	0.02	-12.18	0.02	-0.34	340.31
2767.51	1.65	82.81	2767.25	-11.63	27.98	0.40	-11.85	0.39	2.56	10.70
2862.11	2.29	96.42	2861.80	-11.67	31.21	0.83	-11.92	0.68	14.39	43.10
2956.71	2.87	112.12	2956.30	-12.77	35.28	0.96	-13.06	0.61	16.60	58.64
3051.31	3.24	119.41	3050.77	-14.98	39.80	0.57	-15.30	0.39	7.71	50.08
3145.91	3.23	115.97	3145.22	-17.46	44.53	0.21	-17.82	-0.01	-3.64	265.33
3240.51	2.96	100.78	3239.68	-19.08	49.32	0.91	-19.48	-0.29	-16.06	244.29
3335.11	3.03	87.41	3334.15	-19.43	54.22	0.74	-19.86	0.07	-14.13	269.02
3429.71	2.67	77.56	3428.64	-18.84	58.87	0.64	-19.31	-0.38	-10.41	228.83
3524.31	3.03	86.88	3523.12	-18.23	63.52	0.62	-18.74	0.38	9.85	56.87
3618.91	2.61	85.71	3617.60	-17.93	68.16	0.45	-18.48	-0.44	-1.24	187.22
3713.51	2.59	85.51	3712.11	-17.60	72.44	0.02	-18.18	-0.02	-0.21	204.30
3808.11	2.56	74.62	3806.61	-16.87	76.61	0.52	-17.49	-0.03	-11.51	261.06
3902.71	2.53	54.17	3901.12	-15.09	80.34	0.96	-15.74	-0.03	-21.62	257.91
3997.31	2.41	55.65	3995.63	-12.75	83.67	0.14	-13.42	-0.13	1.56	152.75

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)										
ID (US ft)	Inc (°)	AP (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	DLS (%/100 US ft)	VS (US ft)	B Rate (%/100 US ft)	T Rate (%/100 US ft)	Face (°)
4091.91	2.26	35.21	4090.16	-10.10	86.39	0.89	-10.79	-0.16	-21.61	249.68
4186.51	1.99	35.13	4184.69	-7.23	88.41	0.29	-7.94	-0.29	-0.08	180.59
4281.11	1.10	45.17	4279.26	-5.25	90.00	0.98	-5.97	-0.94	10.61	168.06
4375.71	1.07	49.27	4373.84	-4.03	91.31	0.09	-4.77	-0.03	4.33	113.17
4470.31	1.81	64.44	4468.41	-2.81	93.33	0.87	-3.56	0.78	16.04	34.98
4564.91	2.27	85.11	4562.95	-2.01	96.55	0.91	-2.78	0.49	21.85	68.60
4659.51	3.02	97.01	4657.45	-2.15	100.89	0.98	-2.96	0.79	12.58	42.25
4754.11	3.08	112.76	4751.92	-3.44	105.70	0.89	-4.29	0.06	16.65	93.79
4848.71	2.47	124.89	4846.41	-5.59	109.72	0.89	-6.47	-0.64	12.82	142.04
4943.31	2.30	125.42	4940.92	-7.86	112.94	0.18	-8.76	-0.18	0.56	172.87
5037.91	2.13	115.34	5035.45	-9.71	116.07	0.45	-10.64	-0.18	-10.66	241.44
5132.51	2.18	118.48	5129.99	-11.32	119.24	0.14	-12.28	0.05	3.32	68.62
5227.11	1.66	117.91	5224.53	-12.82	122.04	0.55	-13.80	-0.55	-0.60	181.82
5321.71	1.63	101.09	5319.10	-13.72	124.57	0.51	-14.72	-0.03	-17.78	258.06
5416.31	1.65	97.03	5413.66	-14.14	127.24	0.12	-15.16	0.02	-4.29	277.73
5510.91	1.60	130.20	5508.22	-15.16	129.60	0.98	-16.20	-0.05	35.06	109.54
5605.51	1.35	108.27	5602.79	-16.36	131.67	0.65	-17.42	-0.26	-23.18	235.41
5700.11	1.22	99.40	5697.37	-16.88	133.72	0.25	-17.95	-0.14	-9.38	232.45
5794.71	1.47	138.19	5791.94	-17.95	135.52	0.98	-19.03	0.26	41.00	94.60
5889.31	1.22	136.04	5886.52	-19.58	137.03	0.27	-20.68	-0.26	-2.27	190.34
5983.91	1.13	128.38	5981.10	-20.88	138.46	0.19	-21.99	-0.10	-8.10	236.40
6078.51	1.47	126.30	6075.67	-22.18	140.17	0.36	-23.30	0.36	-2.20	351.06
6173.11	1.46	127.30	6170.24	-23.63	142.10	0.03	-24.77	-0.01	1.06	111.86
6267.71	1.43	153.07	6264.81	-25.41	143.60	0.68	-26.56	-0.03	27.24	105.48
6362.31	0.93	138.77	6359.39	-27.04	144.64	0.61	-28.20	-0.53	-15.12	203.48
6456.91	0.84	127.46	6453.98	-28.04	145.69	0.21	-29.21	-0.10	-11.96	237.16
6551.51	1.15	137.28	6548.57	-29.16	146.89	0.37	-30.34	0.33	10.38	33.78
6646.11	1.07	151.23	6643.15	-30.63	147.96	0.30	-31.82	-0.08	14.75	113.39
6740.71	0.84	130.08	6737.74	-31.85	148.91	0.44	-33.04	-0.24	-22.36	226.60
6835.31	0.71	115.40	6832.33	-32.55	149.97	0.25	-33.75	-0.14	-15.52	229.59
6929.91	1.22	155.75	6926.91	-33.72	150.92	0.87	-34.93	0.54	42.65	74.45
7024.51	1.12	198.84	7021.50	-35.51	151.03	0.91	-36.72	-0.11	45.55	117.72
7119.11	0.70	181.18	7116.08	-36.96	150.72	0.53	-38.17	-0.44	-18.67	205.12
7213.71	0.61	197.87	7210.68	-38.02	150.56	0.22	-39.23	-0.10	17.64	123.44
7308.31	0.95	142.24	7305.27	-39.12	150.88	0.83	-40.33	0.36	-58.81	264.63
7402.91	0.47	164.25	7399.86	-40.11	151.47	0.57	-41.33	-0.51	23.27	161.09
7497.51	0.49	121.26	7494.46	-40.70	151.92	0.37	-41.92	0.02	-45.44	251.53
7592.11	0.91	117.93	7589.05	-41.26	152.93	0.45	-42.49	0.44	-3.52	352.80
7686.71	0.93	154.36	7683.64	-42.30	153.92	0.61	-43.54	0.02	38.51	106.32
7781.31	1.45	169.81	7778.22	-44.17	154.47	0.64	-45.41	0.55	16.33	39.56
7875.91	1.33	162.38	7872.79	-46.40	155.01	0.23	-47.64	-0.13	-7.85	232.67
7970.51	1.34	180.16	7967.37	-48.55	155.34	0.44	-49.80	0.01	18.79	97.52
8065.11	1.53	145.10	8061.94	-50.69	156.06	0.93	-51.94	0.20	-37.06	264.31
8159.71	1.26	168.14	8156.51	-52.75	157.00	0.65	-54.00	-0.29	24.36	126.92
8254.31	1.60	166.48	8251.08	-55.05	157.52	0.36	-56.31	0.36	-1.75	352.22
8348.91	1.53	178.03	8345.65	-57.59	157.87	0.34	-58.86	-0.07	12.21	108.24
8443.51	1.26	154.91	8440.22	-59.80	158.36	0.65	-61.07	-0.29	-24.44	233.12
8538.11	1.30	189.83	8534.80	-61.80	158.61	0.81	-63.07	0.04	36.91	104.61
8632.71	1.36	197.98	8629.37	-63.92	158.08	0.21	-65.19	0.06	8.62	76.50
8727.31	1.27	213.95	8723.95	-65.86	157.15	0.40	-67.12	-0.10	16.88	111.69
8821.91	1.41	201.89	8818.52	-67.81	156.13	0.33	-69.06	0.15	-12.75	290.29
8916.51	1.50	206.93	8913.09	-69.99	155.14	0.17	-71.24	0.10	5.33	57.42
9011.11	1.70	194.17	9007.66	-72.46	154.23	0.43	-73.69	0.21	-13.49	292.83
9105.71	1.46	205.67	9102.22	-74.90	153.37	0.42	-76.13	-0.25	12.16	132.78
9200.31	1.34	198.19	9196.79	-77.04	152.50	0.23	-78.26	-0.13	-7.91	233.01
9294.91	1.59	204.99	9291.36	-79.28	151.60	0.32	-80.50	0.26	7.19	38.25
9323.46	1.41	199.24	9319.90	-79.97	151.32	0.82	-81.18	-0.63	-20.14	217.05

Last VES
Gyro Svy

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	VA (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	DLS (°/100 US ft)	VS (US ft)	B Rate (°/100 US ft)	T Rate (°/100 US ft)	W Pace (°)	Comment
9341.43	1.31	203.87	9337.87	-80.37	151.16	0.83	-81.58	-0.56	25.77	134.60	Top WS
9356.43	0.78	349.06	9352.86	-80.43	151.07	13.33	-81.64	-3.54	967.93	167.15	Btm WS
9361.43	0.78	349.08	9357.86	-80.36	151.06	0.01	-81.57	-0.00	0.48	111.97	KOP
10075.2 0	90.00	349.07	9810.00	369.65	64.14	12.50	369.13	12.50	-0.00	359.99	LP/Turn
10158.9 8	90.00	359.54	9810.00	452.90	55.84	12.50	452.44	0.00	12.50	90.00	Hold
17253.7 8	90.00	359.54	9810.00	7547.47	-0.88	0.00	7547.23	0.00	0.00	0.00	PBHL 1H ST01

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	AZ (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
9300.00	1.56	204.06	9296.45	-79.41	151.54	-80.62	0.00	380397.66	794617.20		
9323.46	1.41	199.24	9319.90	-79.97	151.32	-81.18	0.82	380397.10	794616.98	Last VES Gyro Svy	
9341.43	1.31	203.87	9337.87	-80.37	151.16	-81.58	0.83	380396.70	794616.82	Top WS	
9356.43	0.78	349.06	9352.86	-80.43	151.07	-81.64	13.33	380396.64	794616.73	Btm WS	
9361.43	0.78	349.08	9357.86	-80.36	151.06	-81.57	0.01	380396.71	794616.72	KOP	
9400.00	5.60	349.07	9396.36	-78.25	150.65	-79.46	12.50	380398.82	794616.31		
9500.00	18.10	349.07	9494.04	-58.13	146.77	-59.31	12.50	380418.94	794612.43		
9600.00	30.60	349.07	9584.96	-17.73	138.96	-18.84	12.50	380459.34	794604.62		
9700.00	43.10	349.07	9664.82	41.04	127.61	40.01	12.50	380518.11	794593.27		
9800.00	55.60	349.07	9729.84	115.38	113.25	114.47	12.50	380592.45	794578.91		
9900.00	68.10	349.07	9776.92	201.78	96.57	201.00	12.50	380678.85	794562.23		
10000.00	80.60	349.07	9803.85	296.14	78.34	295.50	12.50	380773.21	794544.00		
10075.21	90.00	349.07	9810.00	369.65	64.14	369.13	12.50	380846.72	794529.80	LP/Turn	
10100.00	90.00	352.17	9810.00	394.11	60.10	393.62	12.50	380871.18	794525.76		
10158.98	90.00	359.54	9810.00	452.90	55.84	452.44	12.50	380929.97	794521.50	Hold	
10200.00	90.00	359.54	9810.00	493.92	55.52	493.46	0.00	380970.99	794521.18		
10300.00	90.00	359.54	9810.00	593.92	54.72	593.46	0.00	381070.99	794520.38		
10400.00	90.00	359.54	9810.00	693.91	53.92	693.46	0.00	381170.98	794519.58		
10500.00	90.00	359.54	9810.00	793.91	53.12	793.46	0.00	381270.98	794518.78		
10600.00	90.00	359.54	9810.00	893.91	52.32	893.46	0.00	381370.98	794517.98		
10700.00	90.00	359.54	9810.00	993.90	51.52	993.46	0.00	381470.97	794517.18		
10800.00	90.00	359.54	9810.00	1093.90	50.72	1093.46	0.00	381570.97	794516.38		
10900.00	90.00	359.54	9810.00	1193.90	49.92	1193.46	0.00	381670.97	794515.58		
11000.00	90.00	359.54	9810.00	1293.89	49.12	1293.46	0.00	381770.96	794514.78		
11100.00	90.00	359.54	9810.00	1393.89	48.32	1393.46	0.00	381870.96	794513.98		
11200.00	90.00	359.54	9810.00	1493.89	47.52	1493.46	0.00	381970.96	794513.18		
11300.00	90.00	359.54	9810.00	1593.88	46.72	1593.46	0.00	382070.95	794512.38		
11400.00	90.00	359.54	9810.00	1693.88	45.92	1693.46	0.00	382170.95	794511.58		
11500.00	90.00	359.54	9810.00	1793.88	45.12	1793.46	0.00	382270.95	794510.78		
11600.00	90.00	359.54	9810.00	1893.87	44.32	1893.46	0.00	382370.94	794509.98		
11700.00	90.00	359.54	9810.00	1993.87	43.52	1993.46	0.00	382470.94	794509.18		
11800.00	90.00	359.54	9810.00	2093.87	42.72	2093.46	0.00	382570.94	794508.38		
11900.00	90.00	359.54	9810.00	2193.86	41.92	2193.46	0.00	382670.93	794507.58		
12000.00	90.00	359.54	9810.00	2293.86	41.13	2293.46	0.00	382770.93	794506.79		
12100.00	90.00	359.54	9810.00	2393.86	40.33	2393.46	0.00	382870.93	794505.99		
12200.00	90.00	359.54	9810.00	2493.85	39.53	2493.46	0.00	382970.92	794505.19		
12300.00	90.00	359.54	9810.00	2593.85	38.73	2593.46	0.00	383070.92	794504.39		
12400.00	90.00	359.54	9810.00	2693.85	37.93	2693.46	0.00	383170.92	794503.59		
12500.00	90.00	359.54	9810.00	2793.85	37.13	2793.46	0.00	383270.92	794502.79		
12600.00	90.00	359.54	9810.00	2893.84	36.33	2893.46	0.00	383370.91	794501.99		
12700.00	90.00	359.54	9810.00	2993.84	35.53	2993.46	0.00	383470.91	794501.19		
12800.00	90.00	359.54	9810.00	3093.84	34.73	3093.46	0.00	383570.91	794500.39		
12900.00	90.00	359.54	9810.00	3193.83	33.93	3193.46	0.00	383670.90	794499.59		
13000.00	90.00	359.54	9810.00	3293.83	33.13	3293.46	0.00	383770.90	794498.79		
13100.00	90.00	359.54	9810.00	3393.83	32.33	3393.46	0.00	383870.90	794497.99		
13200.00	90.00	359.54	9810.00	3493.82	31.53	3493.46	0.00	383970.89	794497.19		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Incl (°)	AZ (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
13300.00	90.00	359.54	9810.00	3593.82	30.73	3593.46	0.00	384070.89	794496.39	
13400.00	90.00	359.54	9810.00	3693.82	29.93	3693.46	0.00	384170.89	794495.59	
13500.00	90.00	359.54	9810.00	3793.81	29.13	3793.46	0.00	384270.88	794494.79	
13600.00	90.00	359.54	9810.00	3893.81	28.33	3893.46	0.00	384370.88	794493.99	
13700.00	90.00	359.54	9810.00	3993.81	27.53	3993.46	0.00	384470.88	794493.19	
13800.00	90.00	359.54	9810.00	4093.80	26.73	4093.46	0.00	384570.87	794492.39	
13900.00	90.00	359.54	9810.00	4193.80	25.93	4193.46	0.00	384670.87	794491.59	
14000.00	90.00	359.54	9810.00	4293.80	25.13	4293.46	0.00	384770.87	794490.79	
14100.00	90.00	359.54	9810.00	4393.79	24.34	4393.46	0.00	384870.86	794490.00	
14200.00	90.00	359.54	9810.00	4493.79	23.54	4493.46	0.00	384970.86	794489.20	
14300.00	90.00	359.54	9810.00	4593.79	22.74	4593.46	0.00	385070.86	794488.40	
14400.00	90.00	359.54	9810.00	4693.78	21.94	4693.46	0.00	385170.85	794487.60	
14500.00	90.00	359.54	9810.00	4793.78	21.14	4793.46	0.00	385270.85	794486.80	
14600.00	90.00	359.54	9810.00	4893.78	20.34	4893.46	0.00	385370.85	794486.00	
14700.00	90.00	359.54	9810.00	4993.77	19.54	4993.46	0.00	385470.84	794485.20	
14800.00	90.00	359.54	9810.00	5093.77	18.74	5093.46	0.00	385570.84	794484.40	
14900.00	90.00	359.54	9810.00	5193.77	17.94	5193.46	0.00	385670.84	794483.60	
15000.00	90.00	359.54	9810.00	5293.77	17.14	5293.46	0.00	385770.84	794482.80	
15100.00	90.00	359.54	9810.00	5393.76	16.34	5393.46	0.00	385870.83	794482.00	
15200.00	90.00	359.54	9810.00	5493.76	15.54	5493.46	0.00	385970.83	794481.20	
15300.00	90.00	359.54	9810.00	5593.76	14.74	5593.46	0.00	386070.83	794480.40	
15400.00	90.00	359.54	9810.00	5693.75	13.94	5693.46	0.00	386170.82	794479.60	
15500.00	90.00	359.54	9810.00	5793.75	13.14	5793.46	0.00	386270.82	794478.80	
15600.00	90.00	359.54	9810.00	5893.75	12.34	5893.46	0.00	386370.82	794478.00	
15700.00	90.00	359.54	9810.00	5993.74	11.54	5993.46	0.00	386470.81	794477.20	
15800.00	90.00	359.54	9810.00	6093.74	10.74	6093.46	0.00	386570.81	794476.40	
15900.00	90.00	359.54	9810.00	6193.74	9.94	6193.46	0.00	386670.81	794475.60	
16000.00	90.00	359.54	9810.00	6293.73	9.14	6293.46	0.00	386770.80	794474.80	
16100.00	90.00	359.54	9810.00	6393.73	8.34	6393.46	0.00	386870.80	794474.00	
16200.00	90.00	359.54	9810.00	6493.73	7.55	6493.46	0.00	386970.80	794473.21	
16300.00	90.00	359.54	9810.00	6593.72	6.75	6593.46	0.00	387070.79	794472.41	
16400.00	90.00	359.54	9810.00	6693.72	5.95	6693.46	0.00	387170.79	794471.61	
16500.00	90.00	359.54	9810.00	6793.72	5.15	6793.46	0.00	387270.79	794470.81	
16600.00	90.00	359.54	9810.00	6893.71	4.35	6893.46	0.00	387370.78	794470.01	
16700.00	90.00	359.54	9810.00	6993.71	3.55	6993.46	0.00	387470.78	794469.21	
16800.00	90.00	359.54	9810.00	7093.71	2.75	7093.46	0.00	387570.78	794468.41	
16900.00	90.00	359.54	9810.00	7193.70	1.95	7193.46	0.00	387670.77	794467.61	
17000.00	90.00	359.54	9810.00	7293.70	1.15	7293.46	0.00	387770.77	794466.81	
17100.00	90.00	359.54	9810.00	7393.70	0.35	7393.46	0.00	387870.77	794466.01	
17200.00	90.00	359.54	9810.00	7493.69	-0.45	7493.46	0.00	387970.76	794465.21	
17253.78	90.00	359.54	9810.00	7547.47	-0.88	7547.23	0.00	388024.54	794464.78	PBHL 1H ST01

5D Anti-Collision Report

Devon Energy**Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Fighting Okra Federal Com 1H***Well Name:** *Fighting Okra Federal Com 1H ST01*

21 May 2014

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Fighting Okra Federal Com 1H ST01

Field Name Lea Co, NM Nad 83 NMEZ	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
Site Name Fighting Okra Federal Com 1H	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
	Units : US ft	North Reference : Grid	Convergence Angle : 0.43	
	Position	Northing : 380477.07 US ft	Latitude : 32° 2' 36.17"	
	Easting : 794465.66 US ft	Longitude : -103° 30' 58.99"		
	Elevation above Mean Sea Level: 3358.00 US ft			
	Comment :			
Slot Name Fighting Okra Federal Com 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 380477.07 US ft	Latitude : 32° 2' 36.17"	
	+E / -W : 0.00 US ft	Easting : 794465.66 US ft	Longitude : -103° 30' 58.99"	
	Slot TVD Reference : Ground Elevation			
	Elevation above Mean Sea Level : 3358.00 US ft			
	Comment :			
Well Name Fighting Okra Federal Com 1H ST01	Type : Sidetrack	UWI :	Plan : Working Plan	
	Parent : Fighting Okra Federal Com 1H ST00	Tie Point Method : MD	Tie Point : 9323.46 US ft	
	Rig Height Drill Floor : 25.00 US ft	Comment :		
	Relative to Mean Sea Level: 3383.00 US ft			
	Closure Distance : 7547.47 US ft	Closure Azimuth : 359.993°		
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 359.54°	
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48204.1nT	Dec : 7.33°	Dip : 59.95°
			Date : 20/Jun/2014	

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Fighting Okra Federal Com 1H ST01 (p)	4300.00	15859.08	100.00	2

Secondary Well Names

Fighting Okra Federal Com 1H ST00 (s)

Anti-Collision Report Terminology

S.Minor, S.Major : Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.

PHI : Angle between high-side vector and semi-minor axis

TVD Spread : Total TVD range of the ellipsoid of uncertainty at the current location

ES : Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr

T.Face to Sec : Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

AG Filter Info: The following filter(s) have been applied: Depth Range.

5D Anti-Collision Report

Separation factors (calculated using Pedal Curve) (Independent Uncertainty) Well path created using minimum curvature

Anti Collision Proximity Summary (TVD relative to)

SF	Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
	Fighting Okra Federal Com 1H ST00 (s)	9323.46	9323.46	9319.90	0.00	-41.51	0.00	SF (Hi)

Secondary Well : Fighting Okra Federal Com 1H ST00 (s) (TVD Relative to Drill Floor (Primary)) ; All Azimuth Relative to GRID NORTH									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S-Major (US ft)	S-Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
9323.46	9319.90	9323.46	91.41	21.38	21.32	0.00	-41.51	0.00	SF (Hi)
9423.46	9419.60	9423.18	190.21	21.47	21.38	6.21	-35.61	0.15	SF (Hi)
9523.46	9520.13	9524.11	181.23	21.45	21.20	24.59	-17.07	0.59	SF (Hi)
9623.46	9620.14	9627.39	179.33	21.46	20.65	47.32	6.48	1.16	SF (Med)
9723.46	9717.80	9734.48	177.74	21.50	19.83	74.58	35.12	1.89	SF (Lo)
9823.46	9810.55	9846.87	175.31	21.60	18.67	106.14	68.64	2.83	
9923.46	9897.92	9983.17	172.20	21.89	16.49	132.92	99.25	3.95	
10023.46	9949.07	10114.82	169.28	22.48	15.42	151.45	119.67	4.77	
10123.46	9969.14	10209.00	167.09	23.04	15.07	170.58	138.42	5.30	
10223.46	9969.14	10209.00	165.36	23.04	15.07	220.19	183.52	6.00	
10323.46	9969.14	10209.00	165.36	23.04	15.07	296.25	256.87	7.52	
10423.46	9969.14	10209.00	165.36	23.04	15.07	383.46	342.63	9.39	
10523.46	9969.14	10209.00	165.36	23.04	15.07	475.74	434.28	11.48	
10623.46	9969.14	10209.00	165.36	23.04	15.07	570.62	528.82	13.65	
10723.46	9969.14	10209.00	165.36	23.04	15.07	667.00	624.92	15.85	
10823.46	9969.14	10209.00	165.36	23.04	15.07	764.31	722.05	18.09	
10923.46	9969.14	10209.00	165.36	23.04	15.07	862.23	819.86	20.35	
11023.46	9969.14	10209.00	165.36	23.04	15.07	960.58	918.15	22.64	
11123.46	9969.14	10209.00	165.36	23.04	15.07	1059.25	1016.77	24.94	
11223.46	9969.14	10209.00	165.36	23.04	15.07	1158.14	1115.59	27.22	
11323.46	9969.14	10209.00	165.36	23.04	15.07	1257.20	1214.57	29.49	
11423.46	9969.14	10209.00	165.36	23.04	15.07	1356.41	1313.74	31.79	
11523.46	9969.14	10209.00	165.36	23.04	15.07	1455.72	1412.99	34.07	
11623.46	9969.14	10209.00	165.36	23.04	15.07	1555.12	1512.34	36.35	
11723.46	9969.14	10209.00	165.36	23.04	15.07	1654.59	1611.76	38.63	
11823.46	9969.14	10209.00	165.36	23.04	15.07	1754.13	1711.26	40.92	
11923.46	9969.14	10209.00	165.36	23.04	15.07	1853.71	1810.83	43.23	
12023.46	9969.14	10209.00	165.36	23.04	15.07	1953.33	1910.42	45.52	
12123.46	9969.14	10209.00	165.36	23.04	15.07	2053.00	2010.09	47.84	
12223.46	9969.14	10209.00	165.36	23.04	15.07	2152.69	2109.70	50.08	
12323.46	9969.14	10209.00	165.36	23.04	15.07	2252.41	2209.37	52.33	
12423.46	9969.14	10209.00	165.36	23.04	15.07	2352.16	2309.07	54.60	
12523.46	9969.14	10209.00	165.36	23.04	15.07	2451.92	2408.80	56.86	
12623.46	9969.14	10209.00	165.36	23.04	15.07	2551.70	2508.54	59.12	
12723.46	9969.14	10209.00	165.36	23.04	15.07	2651.50	2608.31	61.38	
12823.46	9969.14	10209.00	165.36	23.04	15.07	2751.32	2708.08	63.64	
12923.46	9969.14	10209.00	165.36	23.04	15.07	2851.15	2807.87	65.88	
13023.46	9969.14	10209.00	165.36	23.04	15.07	2950.99	2907.67	68.13	
13123.46	9969.14	10209.00	165.36	23.04	15.07	3050.83	3007.48	70.37	
13223.46	9969.14	10209.00	165.36	23.04	15.07	3150.69	3107.30	72.60	
13323.46	9969.14	10209.00	165.36	23.04	15.07	3250.56	3207.13	74.83	
13423.46	9969.14	10209.00	165.36	23.04	15.07	3350.44	3306.96	77.06	
13523.46	9969.14	10209.00	165.36	23.04	15.07	3450.32	3406.80	79.27	
13623.46	9969.14	10209.00	165.36	23.04	15.07	3550.21	3506.64	81.48	
13723.46	9969.14	10209.00	165.36	23.04	15.07	3650.11	3606.49	83.69	
13823.46	9969.14	10209.00	165.36	23.04	15.07	3750.01	3706.34	85.88	
13923.46	9969.14	10209.00	165.36	23.04	15.07	3849.91	3806.20	88.08	
14023.46	9969.14	10209.00	165.36	23.04	15.07	3949.82	3906.06	90.26	
14123.46	9969.14	10209.00	165.36	23.04	15.07	4049.74	4005.93	92.44	
14223.46	9969.14	10209.00	165.36	23.04	15.07	4149.66	4105.80	94.61	

5D Anti-Collision Report

Secondary Well: Fighting Oltra Federal Com 1H ST00 (s) (TVD Relative to Drill Floor (Primary)) ; All Azimuth Relative to GRID NORTH)								
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S Major (US ft)	S Minor (US ft)	CC (US ft)	ES (US ft)	SP
14323.46	9969.14	10209.00	165.36	23.04	15.07	4249.58	4205.67	96.78
14423.46	9969.14	10209.00	165.36	23.04	15.07	4349.51	4305.55	98.94
14523.46	9969.14	10209.00	165.36	23.04	15.07	4449.44	4405.42	101.09
14623.46	9969.14	10209.00	165.36	23.04	15.07	4549.37	4505.30	103.24
14723.46	9969.14	10209.00	165.36	23.04	15.07	4649.31	4605.19	105.37
14823.46	9969.14	10209.00	165.36	23.04	15.07	4749.25	4705.07	107.50
14923.46	9969.14	10209.00	165.36	23.04	15.07	4849.19	4804.95	109.62
15023.46	9969.14	10209.00	165.36	23.04	15.07	4949.13	4904.84	111.74
15123.46	9969.14	10209.00	165.36	23.04	15.07	5049.08	5004.73	113.85
15223.46	9969.14	10209.00	165.36	23.04	15.07	5149.03	5104.62	115.95
15323.46	9969.14	10209.00	165.36	23.04	15.07	5248.98	5204.51	118.04
15423.46	9969.14	10209.00	165.36	23.04	15.07	5348.93	5304.40	120.12
15523.46	9969.14	10209.00	165.36	23.04	15.07	5448.88	5404.29	122.20
15623.46	9969.14	10209.00	165.36	23.04	15.07	5548.84	5504.18	124.27
15723.46	9969.14	10209.00	165.36	23.04	15.07	5648.79	5604.08	126.33
15823.46	9969.14	10209.00	165.36	23.04	15.07	5748.75	5703.97	128.38
15859.08	9969.14	10209.00	165.36	23.04	15.07	5784.36	5739.56	129.11

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.0.0.3

Report Date: April 28, 2014
Job Number: _____
Customer: Devon Energy
Well Name: Fighting Okra Federal Com. 1H
API Number: _____
Rig Name: _____
Location: Lea Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 380477.07 US Survey Foot	Latitude: 32.043379 Degree
East: 794465.66 US Survey Foot	Longitude: -103.516387 Degree
Convergence: 0.43°	
Declination: 7.29°	
Total Correction: 6.86°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 02' 36.17" N
Longitude = 103° 30' 58.99" W

Magnetic Declination = 7.29 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6807
Local Field Strength = 48213 nT	Magnetic Vector X = 23958 nT
Magnetic Dip = 59.94 deg	Magnetic Vector Y = 3064 nT
Magnetic Model = bggm2013.bgs	Magnetic Vector Z = 41727 nT
Run Date = June 20, 2014	Magnetic Vector H = 24153 nT

Signed: _____ Date: _____

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