

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM114992

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: REBECCA DEAL

Email: Rebecca.Deal@devn.com

3a. Address

333 WEST SHERIDAN AVENUE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-228-8429

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

Sec 18 T26S R34E 2280FNL 330FWL

8. Well Name and No.

FIGHTING OKRA 18-19 FED 41H

9. API Well No.

30-025-44220

10. Field and Pool or Exploratory Area

WC-025 G-06 S263409P; UBS

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 respectfully requests the following changes to the original APD:

Change of MD at TD from 17,496' to 18,462'.

Please see the attached AC Report, Drill Plan & Directional Survey.

SEE ATTACHED FOR
COMPLETION APPROVAL

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

Electronic Submission #396898 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by CHARLES NIMMER on 12/05/2017 ()

Name (Printed/Typed) REBECCA DEAL

Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission)

Date 12/05/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

mustafa Hague

Title

PETROLEUM ENGINEER

Date 1-25-2018

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

CFO

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.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Devon Energy, Fighting Okra 18-19 Fed 41H

1. Geologic Formations

TVD of target	10,175'	Pilot hole depth	n/a
MD at TD:	18,462'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	897	Barren	
Salado	1244	Barren	
Bell Canyon	5295	Barren	
Cherry Canyon	6346	Oil	
Brushy Canyon	8361	Oil	
Bone Spring	9514	Oil	
Leonard Shale (UPR)	9539	Oil	
1st BSPG Sand	10454	Oil	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Fighting Okra 18-19 Fed 41H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	930'	13.375"	48	H-40	STC	1.73	3.38	2.32
12.25"	0	4,000'	9.625"	40	J-55	BTC	1.21	1.37	2.23
12.25"	4,000'	5,395' 5,250'	9.625"	40	HCK-55	BTC	1.33	2.54	4.28
8.75"	0	18,463'	5.5"	17	P-110	BTC	1.49	1.25	2.17
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Fighting Okra 18-19 Fed 41H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	1000	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1200	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod.	412	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	330	12.5	10.86	1.96	30	1 st Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	2130	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod Two Stage	652	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	2130	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 5445ft					
	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	30	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	5195' 5050'	25%
5-1/2" Production Casing – Two Stage	1 st Stage = 5445ft / 2 nd Stage = 5195ft	25%

5050'

Devon Energy, Fighting Okra 18-19 Fed 41H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Devon Energy, Fighting Okra 18-19 Fed 41H

Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by vendor representatives. - If the welding is performed by a third party, the vendor representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - Vendor representative will install the test plug for the initial BOP test. - Vendor will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Devon Energy, Fighting Okra 18-19 Fed 41H

	See attached schematic.
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	930'	FW Gel	8.6-8.8	28-34	N/C
930'	5,395'	Saturated Brine	10.0-10.2	28-34	N/C
5,395'	18,463'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

Devon Energy, Fighting Okra 18-19 Fed 41H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4921 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions: Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe

devon

Devon Energy
Fighting Okra 18-19 Fed 41H
Lea County, NM

Plan Data for Fighting Okra 18-19 Fed 41H

Plan Point Information:									
Dologleg Severity Unit: */100.00ft Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	0.00
3300.00	0.00	0.00	3300.00	-0.00	0.00	380857.92	794436.65	0.00	0.00 Nudge @ 1° DLS
3860.00	5.60	356.52	3859.19	27.30	-1.66	380885.22	794434.99	-27.31	1.00 Hold
9058.71	5.60	356.52	9033.00	533.74	-32.45	381391.66	794404.20	-533.96	0.00 Drop @ 1° DLS
9618.79	0.00	0.00	9592.19	561.04	-34.11	381418.96	794402.54	-561.27	1.00 KOP- Build @ 10° DLS
10506.53	88.77	177.91	10165.02	0.72	-13.63	380858.64	794423.02	-0.82	10.00 Landing Pt
10938.51	88.77	177.91	10174.26	-430.87	2.15	380427.05	794438.00	430.88	0.00 Build/Turn @ 3° DLS
11007.64	90.00	179.58	10175.00	-499.99	3.67	380357.93	794440.32	500.00	3.00 500' VS - Hold
18462.51	90.00	179.58	10175.00	-7954.65	58.37	372903.27	794495.02	7954.86	0.00 PBHL 41H



Plan Data for Fighting Okra 18-19 Fed 41H

Formation Point Information:				
Name	TVD Elevation	MD	Dip	Direction
(USft)	(USft)	(USft)	(°)	(°)
18555	10460.00	0.00	-1.00	0.00
Rustler	783.00	2602.00	783.00	0.00
Base of Salt	5004.00	-1619.00	5010.38	0.00
Delaware	5260.00	-1875.00	5267.61	0.00
Lwr Brushy	9305.00	-5920.00	9331.48	0.00
18SLM	9527.00	-6142.00	9553.60	0.00
Leonard A	9558.00	-6173.00	9584.60	0.00
Leonard B	9985.00	-6600.00	10051.60	0.00
Leonard C	10153.00	-6768.00	10400.58	0.00

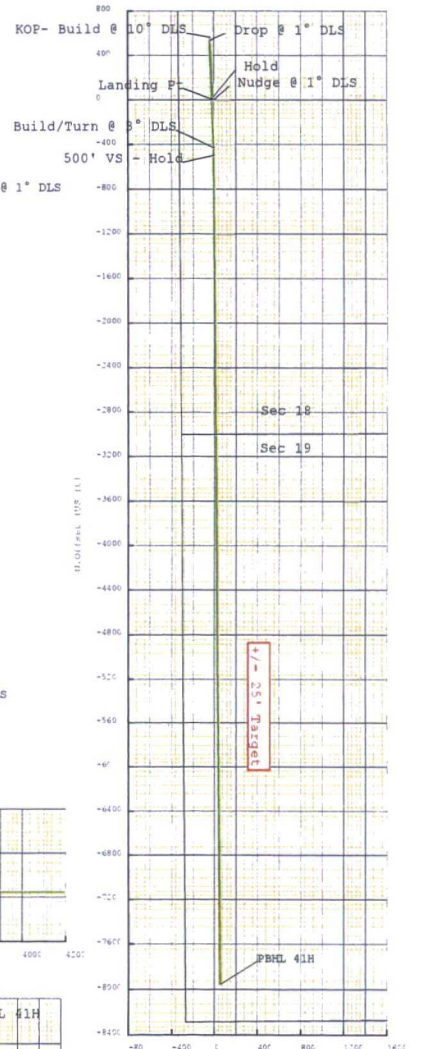
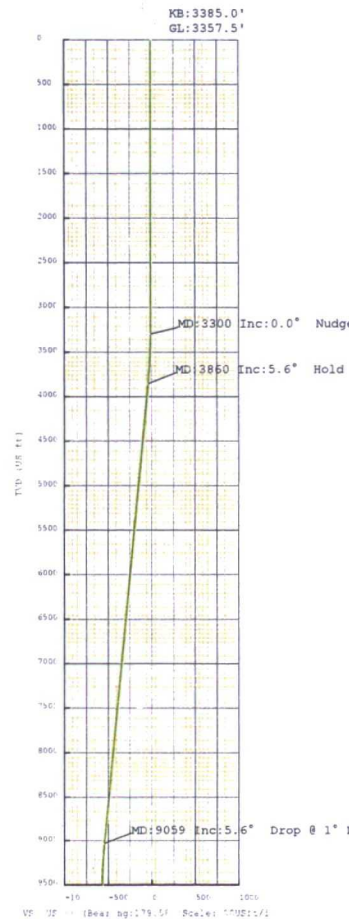
Plan Data for Fighting Okra 18-19 Fed 41H

Field: Lea Co, NM Nad 83 NMEZ
Map Unit: USft Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Fighting Okra 18-19 Fed 21H, 31H, 41H Pad
Unit: USfeet TVD Reference:
Company Name: Devon Energy
Position: Northing: 380827.97USft Latitude: 32.044344°
Easting: 794436.89USft Longitude: -103.516471°
North Reference: Grid Grid Convergence: 0.43°
Elevation Above VRD: 3358.00USft

Slot: Fighting Okra 18-19 Fed 41H
Position:
Offset is from Site centre
+N/-S: 29.95USft Northing: 380857.92USft Latitude: 32.044427°
+E/-W: -0.24USft Easting: 794436.65USft Longitude: -103.516471°
Elevation Above VRD: 3357.50USft

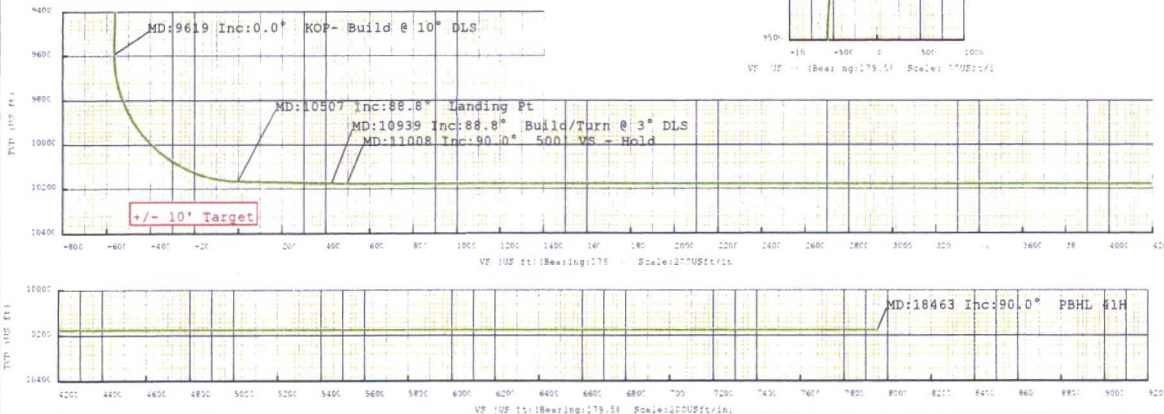
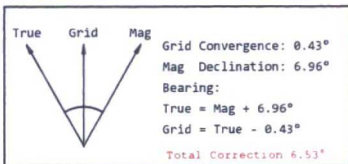
Well: Fighting Okra 18-19 Fed 41H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V4
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 179.58°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 47863(nT) 6.96° 59.88° 2017-11-01



Plan Data for Fighting Okra 18-19 Fed 41H

Target Set Information:
Name: FO 18-19 41H Tgts
Position offsets from Slot centre

Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
VP	9592.19	-6207.19	561.04	-34.11	381418.96
500' VS	10175.00	-6790.00	-499.99	3.67	380357.93
PBHL 41H	10175.00	-6790.00	-7954.65	58.37	372903.27



Drawing By: Lee Winchell Date: 26 September 2017
Office Name: Weatherford Drilling Services-Houston
Address: 12101 Cullen Road
Houston, TX 77066
Phone: 713.896.9294

**5D Anti-Collision Report****Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Fighting Okra 18-19 Fed 21H,31H,41H Pad***Well Name:** *Fighting Okra 18-19 Fed 41H*

26 September 2017





Fighting Okra 18-19 Fed 41H

Field Name: Lea Co, NM Nad 83 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: Fighting Okra 18-19 Fed 21H,31H,41H Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.43	
	Position:	Northing: 380827.97 US ft	Latitude: 32° 2' 39.64"	
		Easting: 794436.89 US ft	Longitude: -103° 30' 59.30"	
		Elevation above MSL: 3358.00 US ft		
	Comment:			
Slot: Fighting Okra 18-19 Fed 41H	Position (Relative to Site Centre)			
	+N/-S: 29.95 US ft	Northing: 380857.92 US ft	Latitude: 32°2'39.94"	
	+E/-W: -0.24 US ft	Easting: 794436.65 US ft	Longitude: -103°30'59.30"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3357.50 US ft			
	Comment:			
Well: Fighting Okra 18-19 Fed 41H	Type: Main well		UWI:	Plan: Working Plan
	File Number:	Comment:		
	Closure Distance: 7954.86US ft		Closure Azimuth: 179.58°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00 US ft		+E/-W: 0.00 US ft	
	Az: 179.58°			
	Magnetic Parameters:			
	Model: bggm2017		Field Strength: 47863.5nT	Declination: 6.96°
				Date: 01/Nov/2017

Drill floor: Plan: Working Plan			
Rig Height (Drill Floor): 27.50 us ft	Elevation above MSL: 3385.00 us ft	Inclination: 0.00°	Azimuth: 0.00°

Collision / Uncertainty Analysis				
Primary Well	Start MD (USFt)	End MD (USFt)	Collision Risk Interval	No. of Std. Deviations in Error Computation
Fighting Okra 18-19 Fed 41H (p)	0.00	30000.00	100.00	2

Secondary Well Names:				
Fighting Okra Federal Com 1H ST01 (s)				
Fighting Okra Federal Com 1H ST00 (s)				
Fighting Okra 18-19 Fed 71H Lat (p)				
Fighting Okra 18-19 Fed 31H (p)				
Fighting Okra 18-19 Fed 21H (p)				

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.**AC Filter Info: Applied filter(s): Depth Range.****Default Survey Tool: MWD**

Separation factors calculated using Pedal Curve (Independent Uncertainty). Surface Uncertainty (S.U.) Not Applied. Wellpath created using minimum curvature.

Anti-Collision Summary (TVD relative to Drill Floor)**SF**

Pri MD (US ft)	TVD (US ft)	Secondary Well Name	Sec MD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
18462.51	10175.00	Fighting Okra 18-19 Fed 31H (p)	17996.84	168.00	42.11	1.33	SF(Med)
9868.55	9834.12	Fighting Okra Federal Com 1H ST01 (s)	10511.08	82.59	32.87	1.66	SF(Lo)
18462.51	10175.00	Fighting Okra 18-19 Fed 21H (p)	17203.00	606.00	483.02	4.93	
10340.82	10137.73	Fighting Okra Federal Com 1H ST00 (s)	10209.00	228.21	189.64	5.92	
18462.51	10175.00	Fighting Okra 18-19 Fed 71H Lat (p)	22347.61	2318.14	2177.28	16.46	

CC

Pri MD (US ft)	TVD (US ft)	Secondary Well Name	Sec MD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
50.00	50.00	Fighting Okra 18-19 Fed 31H (p)	53.00	29.95	29.11	35.80	CC (Lo)
50.00	50.00	Fighting Okra 18-19 Fed 21H (p)	55.00	79.94	79.18	104.39	
9868.55	9834.12	Fighting Okra Federal Com 1H ST01 (s)	10511.08	82.59	32.87	1.66	SF(Lo)
10414.84	10155.74	Fighting Okra Federal Com 1H ST00 (s)	10209.00	220.01	183.37	6.01	
18462.51	10175.00	Fighting Okra 18-19 Fed 71H Lat (p)	22347.61	2318.14	2177.28	16.46	

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
0.00	-0.00	179.54	0.00	0.00	0.00	Fighting Okra 18-19 Fed 31H (p)	29.22	29.95	41.24	MWD	CC (Lo)
100.00	100.00	179.54	0.11	0.11	4.60	Fighting Okra 18-19 Fed 31H (p)	29.00	29.95	31.52	MWD	CC (Lo)
200.00	200.00	179.54	0.34	0.34	4.62	Fighting Okra 18-19 Fed 31H (p)	28.55	29.95	21.40	MWD	CC (Lo)
300.00	300.00	179.54	0.56	0.56	4.65	Fighting Okra 18-19 Fed 31H (p)	28.10	29.95	16.20	MWD	CC (Lo)
400.00	400.00	179.54	0.79	0.79	4.69	Fighting Okra 18-19 Fed 31H (p)	27.65	29.95	13.03	MWD	CC (Lo)
500.00	500.00	179.54	1.01	1.01	4.75	Fighting Okra 18-19 Fed 31H (p)	27.20	29.95	10.90	MWD	CC (Lo)
600.00	600.00	179.54	1.24	1.24	4.81	Fighting Okra 18-19 Fed 31H (p)	26.75	29.95	9.37	MWD	CC (Lo)
700.00	700.00	179.54	1.46	1.46	4.89	Fighting Okra 18-19 Fed 31H (p)	26.30	29.95	8.21	MWD	CC (Lo)
800.00	800.00	179.54	1.69	1.69	4.97	Fighting Okra 18-19 Fed 31H (p)	25.85	29.95	7.31	MWD	CC (Lo)
900.00	900.00	179.54	1.91	1.91	5.06	Fighting Okra 18-19 Fed 31H (p)	25.40	29.95	6.59	MWD	CC (Lo)

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
						Fighting Okra 18-19 Fed 31H (p)					
1000.00	1000.00	179.54	2.14	2.14	5.16	Fighting Okra 18-19 Fed 31H (p)	24.95	29.95	5.99	MWD	CC (Lo)
1100.00	1100.00	179.54	2.36	2.36	5.27	Fighting Okra 18-19 Fed 31H (p)	24.51	29.95	5.50	MWD	CC (Lo)
1200.00	1200.00	179.54	2.59	2.59	5.38	Fighting Okra 18-19 Fed 31H (p)	24.06	29.95	5.08	MWD	CC (Lo)
1300.00	1300.00	179.54	2.81	2.81	5.50	Fighting Okra 18-19 Fed 31H (p)	23.61	29.95	4.72	MWD	CC (Lo)
1400.00	1400.00	179.54	3.03	3.03	5.63	Fighting Okra 18-19 Fed 31H (p)	23.16	29.95	4.41	MWD	CC (Lo)
1500.00	1500.00	179.54	3.26	3.26	5.76	Fighting Okra 18-19 Fed 31H (p)	22.71	29.95	4.13	MWD	CC (Lo)
1600.00	1600.00	179.54	3.48	3.48	5.89	Fighting Okra 18-19 Fed 31H (p)	22.26	29.95	3.89	MWD	CC (Lo)
1700.00	1700.00	179.54	3.71	3.71	6.03	Fighting Okra 18-19 Fed 31H (p)	21.81	29.95	3.68	MWD	CC (Lo)
1800.00	1800.00	179.54	3.93	3.93	6.17	Fighting Okra 18-19 Fed 31H (p)	21.36	29.95	3.49	MWD	CC (Lo)
1900.00	1900.00	179.54	4.16	4.16	6.32	Fighting Okra 18-19 Fed 31H (p)	20.91	29.95	3.31	MWD	CC (Lo)
2000.00	2000.00	179.54	4.38	4.38	6.47	Fighting Okra 18-19 Fed 31H (p)	20.46	29.95	3.16	MWD	CC (Lo)
2100.00	2100.00	179.54	4.61	4.61	6.63	Fighting Okra 18-19 Fed 31H (p)	20.01	29.95	3.01	MWD	CC (Lo)
2200.00	2200.00	179.54	4.83	4.83	6.78	Fighting Okra 18-19 Fed 31H (p)	19.56	29.95	2.88	MWD	CC (Lo)
2300.00	2300.00	179.54	5.06	5.06	6.94	Fighting Okra 18-19 Fed 31H (p)	19.11	29.95	2.76	MWD	CC (Lo)
2400.00	2400.00	179.54	5.28	5.28	7.11	Fighting Okra 18-19 Fed 31H (p)	18.66	29.95	2.65	MWD	CC (Lo)
2500.00	2500.00	179.54	5.51	5.51	7.27	Fighting Okra 18-19 Fed 31H (p)	18.21	29.95	2.55	MWD	CC (Lo)
2600.00	2600.00	179.54	5.73	5.73	7.44	Fighting Okra 18-19 Fed 31H (p)	17.76	29.95	2.46	MWD	SF(Lo); CC (Lo)
2700.00	2700.00	179.54	5.96	5.96	7.62	Fighting Okra 18-19 Fed 31H (p)	17.31	29.95	2.37	MWD	SF(Lo); CC (Lo)
2800.00	2800.00	179.54	6.18	6.18	7.79	Fighting Okra 18-19 Fed 31H (p)	16.86	29.95	2.29	MWD	SF(Lo); CC (Lo)
2900.00	2900.00	179.54	6.41	6.41	7.97	Fighting Okra 18-19 Fed 31H (p)	16.41	29.95	2.21	MWD	SF(Lo); CC (Lo)
3000.00	3000.00	179.54	6.63	6.63	8.15	Fighting Okra 18-19 Fed 31H (p)	15.96	29.95	2.14	MWD	SF(Lo); CC (Lo)
3100.00	3100.00	179.54	6.86	6.86	8.33	Fighting Okra 18-19 Fed 31H (p)	15.51	29.95	2.07	MWD	SF(Lo); CC (Lo)
3200.00	3200.00	179.54	7.08	7.08	8.52	Fighting Okra 18-19 Fed 31H (p)	15.06	29.95	2.01	MWD	SF(Lo); CC (Lo)
3300.00	3300.00	179.54	7.31	7.31	8.70	Fighting Okra 18-19 Fed 31H (p)	14.61	29.95	1.95	MWD	SF(Lo); CC (Lo)
3400.00	3399.99	182.94	7.53	7.53	8.89		15.05	30.82	1.95	MWD	SF(Lo)

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
						Fighting Okra 18-19 Fed 31H (p)					
3500.00	3499.96	182.71	7.75	7.75	9.09	Fighting Okra 18-19 Fed 31H (p)	17.23	33.44	2.06	MWD	SF(Lo)
3600.00	3599.86	182.38	7.98	7.97	9.28	Fighting Okra 18-19 Fed 31H (p)	20.23	36.87	2.22	MWD	SF(Lo)
3700.00	3699.68	181.97	8.20	8.19	9.48	Fighting Okra 18-19 Fed 31H (p)	23.19	40.28	2.36	MWD	SF(Lo)
3800.00	3799.37	181.50	8.43	8.41	9.68	Fighting Okra 18-19 Fed 31H (p)	26.18	43.69	2.49	MWD	SF(Lo)
3900.00	3898.92	181.03	8.65	8.63	9.88	Fighting Okra 18-19 Fed 31H (p)	29.85	47.83	2.66	MWD	
4000.00	3998.44	180.63	8.89	8.85	10.08	Fighting Okra 18-19 Fed 31H (p)	33.82	52.29	2.83	MWD	
4100.00	4097.96	180.30	9.12	9.08	10.30	Fighting Okra 18-19 Fed 31H (p)	37.86	56.74	3.01	MWD	
4200.00	4197.49	180.01	9.36	9.31	10.51	Fighting Okra 18-19 Fed 31H (p)	41.87	61.20	3.17	MWD	
4300.00	4297.01	179.76	9.60	9.53	10.73	Fighting Okra 18-19 Fed 31H (p)	45.88	65.66	3.32	MWD	
4400.00	4396.53	179.55	9.84	9.76	10.95	Fighting Okra 18-19 Fed 31H (p)	49.89	70.12	3.47	MWD	
4500.00	4496.05	179.35	10.08	9.99	11.17	Fighting Okra 18-19 Fed 31H (p)	53.88	74.59	3.60	MWD	
4600.00	4595.58	179.18	10.33	10.22	11.40	Fighting Okra 18-19 Fed 31H (p)	57.92	79.05	3.74	MWD	
4700.00	4695.10	179.03	10.57	10.44	11.63	Fighting Okra 18-19 Fed 31H (p)	61.90	83.51	3.86	MWD	
4800.00	4794.62	178.90	10.82	10.67	11.86	Fighting Okra 18-19 Fed 31H (p)	65.90	87.98	3.98	MWD	
4900.00	4894.14	178.78	11.07	10.90	12.10	Fighting Okra 18-19 Fed 31H (p)	69.90	92.44	4.10	MWD	
5000.00	4993.67	178.66	11.32	11.13	12.35	Fighting Okra 18-19 Fed 31H (p)	73.91	96.91	4.21	MWD	
5100.00	5093.19	178.56	11.58	11.36	12.59	Fighting Okra 18-19 Fed 31H (p)	77.92	101.37	4.32	MWD	
5200.00	5192.71	178.47	11.83	11.59	12.84	Fighting Okra 18-19 Fed 31H (p)	81.93	105.84	4.43	MWD	
5300.00	5292.23	178.38	12.09	11.82	13.09	Fighting Okra 18-19 Fed 31H (p)	85.94	110.30	4.53	MWD	
5400.00	5391.76	178.30	12.34	12.05	13.35	Fighting Okra 18-19 Fed 31H (p)	89.95	114.77	4.62	MWD	
5500.00	5491.28	178.23	12.60	12.28	13.61	Fighting Okra 18-19 Fed 31H (p)	93.96	119.24	4.72	MWD	
5600.00	5590.80	178.16	12.86	12.51	13.88	Fighting Okra 18-19 Fed 31H (p)	97.98	123.70	4.81	MWD	
5700.00	5690.32	178.10	13.12	12.74	14.15	Fighting Okra 18-19 Fed 31H (p)	101.99	128.17	4.90	MWD	
5800.00	5789.85	178.04	13.38	12.97	14.42	Fighting Okra 18-19 Fed 31H (p)	106.00	132.64	4.98	MWD	
5900.00	5889.37	177.99	13.64	13.20	14.70		110.01	137.10	5.06	MWD	

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
6000.00	5988.89	177.94	13.90	13.43	14.99	Fighting Okra 18-19 Fed 31H (p)	114.02	141.57	5.14	MWD	
6100.00	6088.42	177.89	14.17	13.67	15.27	Fighting Okra 18-19 Fed 31H (p)	118.03	146.04	5.22	MWD	
6200.00	6187.94	177.84	14.43	13.90	15.56	Fighting Okra 18-19 Fed 31H (p)	122.05	150.50	5.29	MWD	
6300.00	6287.46	177.80	14.70	14.13	15.86	Fighting Okra 18-19 Fed 31H (p)	126.06	154.97	5.36	MWD	
6400.00	6386.98	177.76	14.96	14.36	16.16	Fighting Okra 18-19 Fed 31H (p)	130.07	159.44	5.43	MWD	
6500.00	6486.51	177.72	15.23	14.59	16.47	Fighting Okra 18-19 Fed 31H (p)	134.08	163.91	5.50	MWD	
6600.00	6586.03	177.68	15.49	14.82	16.78	Fighting Okra 18-19 Fed 31H (p)	138.09	168.37	5.56	MWD	
6700.00	6685.55	177.65	15.76	15.06	17.09	Fighting Okra 18-19 Fed 31H (p)	142.10	172.84	5.62	MWD	
6800.00	6785.07	177.62	16.03	15.29	17.41	Fighting Okra 18-19 Fed 31H (p)	146.11	177.31	5.68	MWD	
6900.00	6884.60	177.59	16.29	15.52	17.74	Fighting Okra 18-19 Fed 31H (p)	150.12	181.78	5.74	MWD	
7000.00	6984.12	177.56	16.56	15.75	18.07	Fighting Okra 18-19 Fed 31H (p)	154.14	186.24	5.80	MWD	
7100.00	7083.64	177.53	16.83	15.98	18.41	Fighting Okra 18-19 Fed 31H (p)	158.15	190.71	5.86	MWD	
7200.00	7183.16	177.50	17.10	16.22	18.75	Fighting Okra 18-19 Fed 31H (p)	162.16	195.18	5.91	MWD	
7300.00	7282.69	177.48	17.37	16.45	19.09	Fighting Okra 18-19 Fed 31H (p)	166.17	199.65	5.96	MWD	
7400.00	7382.21	177.45	17.64	16.68	19.44	Fighting Okra 18-19 Fed 31H (p)	170.18	204.12	6.01	MWD	
7500.00	7481.73	177.43	17.91	16.92	19.80	Fighting Okra 18-19 Fed 31H (p)	174.19	208.58	6.06	MWD	
7600.00	7581.25	177.41	18.18	17.15	20.16	Fighting Okra 18-19 Fed 31H (p)	178.20	213.05	6.11	MWD	
7700.00	7680.78	177.38	18.45	17.38	20.52	Fighting Okra 18-19 Fed 31H (p)	182.21	217.52	6.16	MWD	
7800.00	7780.30	177.36	18.72	17.61	20.89	Fighting Okra 18-19 Fed 31H (p)	186.22	221.99	6.21	MWD	
7900.00	7879.82	177.34	18.99	17.85	21.27	Fighting Okra 18-19 Fed 31H (p)	190.23	226.46	6.25	MWD	
8000.00	7979.34	177.33	19.26	18.08	21.65	Fighting Okra 18-19 Fed 31H (p)	194.24	230.92	6.29	MWD	
8100.00	8078.87	177.31	19.53	18.31	22.04	Fighting Okra 18-19 Fed 31H (p)	198.25	235.39	6.34	MWD	
8200.00	8178.39	177.29	19.80	18.55	22.43	Fighting Okra 18-19 Fed 31H (p)	202.26	239.86	6.38	MWD	
8300.00	8277.91	177.27	20.08	18.78	22.83	Fighting Okra 18-19 Fed 31H (p)	206.27	244.33	6.42	MWD	
8400.00	8377.43	177.26	20.35	19.01	23.23		210.28	248.80	6.46	MWD	

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
8500.00	8476.96	177.24	20.62	19.25	23.64	Fighting Okra 18-19 Fed 31H (p)	214.29	253.26	6.50	MWD	
8600.00	8576.48	177.22	20.90	19.48	24.06	Fighting Okra 18-19 Fed 31H (p)	218.30	257.73	6.54	MWD	
8700.00	8676.00	177.21	21.17	19.71	24.48	Fighting Okra 18-19 Fed 31H (p)	222.31	262.20	6.57	MWD	
8800.00	8775.53	177.20	21.44	19.95	24.90	Fighting Okra 18-19 Fed 31H (p)	226.32	266.67	6.61	MWD	
8900.00	8875.05	177.18	21.72	20.18	25.33	Fighting Okra 18-19 Fed 31H (p)	230.33	271.14	6.64	MWD	
9000.00	8974.57	177.17	21.99	20.41	25.77	Fighting Okra 18-19 Fed 31H (p)	234.34	275.61	6.68	MWD	
9100.00	9074.11	177.15	22.25	20.64	26.21	Fighting Okra 18-19 Fed 31H (p)	238.21	279.92	6.71	MWD	
9200.00	9173.77	177.13	22.46	20.82	26.66	Fighting Okra 18-19 Fed 31H (p)	241.00	283.10	6.73	MWD	
9300.00	9273.56	177.13	22.66	20.99	27.12	Fighting Okra 18-19 Fed 31H (p)	243.62	286.04	6.74	MWD	
9400.00	9373.45	177.14	22.84	21.17	27.58	Fighting Okra 18-19 Fed 31H (p)	246.17	288.90	6.76	MWD	
9500.00	9473.41	177.17	23.02	21.33	28.04	Fighting Okra 18-19 Fed 31H (p)	249.52	292.43	6.82	MWD	
9600.00	9573.40	177.32	23.19	21.49	28.51	Fighting Okra 18-19 Fed 31H (p)	261.01	303.85	7.09	MWD	
9600.00	9573.40	84.85	23.19	21.49	28.51	Fighting Okra Federal Com 1H ST01 (s)	238.33	271.22	8.24	MWD	
9700.00	9673.13	250.86	23.31	21.44	28.98	Fighting Okra Federal Com 1H ST01 (s)	143.34	179.10	5.01	MWD	
9800.00	9770.39	255.08	23.32	20.99	29.42	Fighting Okra Federal Com 1H ST01 (s)	59.90	103.65	2.37	MWD	SF(Lo)
9900.00	9862.24	279.26	23.23	20.22	29.82	Fighting Okra Federal Com 1H ST01 (s)	38.91	87.09	1.81	MWD	SF(Lo)
10000.00	9945.89	310.02	23.08	19.21	30.16	Fighting Okra Federal Com 1H ST01 (s)	97.71	136.69	3.51	MWD	
10100.00	10018.79	328.18	22.90	18.08	30.47	Fighting Okra Federal Com 1H ST01 (s)	161.55	196.77	5.59	MWD	
10200.00	10078.73	331.84	22.73	16.99	30.74	Fighting Okra Federal Com 1H ST00 (s)	238.26	281.19	6.55	MWD	
10200.00	10078.73	336.50	22.73	16.99	30.74	Fighting Okra Federal Com 1H ST01 (s)	215.19	248.95	7.37	MWD	

Geostoreform Information All notes

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5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
10300.00	10123.88	329.56	22.61	16.13	31.01	Fighting Okra Federal Com 1H ST00 (s)	199.33	239.24	5.99	MWD	
10400.00	10152.88	328.56	22.59	15.68	31.30	Fighting Okra Federal Com 1H ST00 (s)	183.43	220.34	5.97	MWD	
10500.00	10164.84	329.08	22.67	15.76	31.61	Fighting Okra Federal Com 1H ST00 (s)	193.83	230.49	6.29	MWD	
10500.00	10164.84	356.86	22.67	15.76	31.61	Fighting Okra 18-19 Fed 31H (p)	188.31	221.40	6.69	MWD	
10600.00	10167.02	357.07	22.89	15.95	31.98	Fighting Okra 18-19 Fed 31H (p)	157.56	189.91	5.87	MWD	
10700.00	10169.16	357.54	23.24	16.16	32.41	Fighting Okra 18-19 Fed 31H (p)	138.50	170.59	5.32	MWD	
10800.00	10171.30	358.26	23.74	16.41	32.90	Fighting Okra 18-19 Fed 31H (p)	131.99	164.45	5.07	MWD	
10900.00	10173.44	359.26	24.36	16.67	33.45	Fighting Okra 18-19 Fed 31H (p)	133.56	166.45	5.06	MWD	
11000.00	10174.99	359.99	25.07	17.02	34.05	Fighting Okra 18-19 Fed 31H (p)	134.59	167.99	5.03	MWD	
11100.00	10175.00	359.99	25.86	17.35	34.69	Fighting Okra 18-19 Fed 31H (p)	133.99	168.00	4.94	MWD	
11200.00	10175.00	359.99	26.80	17.69	35.39	Fighting Okra 18-19 Fed 31H (p)	133.35	168.00	4.85	MWD	
11300.00	10175.00	359.99	27.83	18.07	36.13	Fighting Okra 18-19 Fed 31H (p)	132.67	168.00	4.76	MWD	
11400.00	10175.00	359.99	28.93	18.46	36.92	Fighting Okra 18-19 Fed 31H (p)	131.98	168.00	4.66	MWD	
11500.00	10175.00	359.99	30.10	18.87	37.74	Fighting Okra 18-19 Fed 31H (p)	131.24	168.00	4.57	MWD	
11600.00	10175.00	359.99	31.34	19.30	38.61	Fighting Okra 18-19 Fed 31H (p)	130.41	168.00	4.47	MWD	
11700.00	10175.00	359.99	32.63	19.75	39.51	Fighting Okra 18-19 Fed 31H (p)	129.60	168.00	4.37	MWD	
11800.00	10175.00	359.99	33.98	20.22	40.44	Fighting Okra 18-19 Fed 31H (p)	128.77	168.00	4.28	MWD	
11900.00	10175.00	359.99	35.36	20.70	41.41	Fighting Okra 18-19 Fed 31H (p)	127.75	168.00	4.17	MWD	
12000.00	10175.00	359.99	36.78	21.20	42.40	Fighting Okra 18-19 Fed 31H (p)	126.81	168.00	4.08	MWD	
12100.00	10175.00	359.99	38.24	21.71	43.42	Fighting Okra 18-19 Fed 31H (p)	125.92	168.00	3.99	MWD	
12200.00	10175.00	359.99	39.73	22.23	44.46	Fighting Okra 18-19 Fed 31H (p)	124.81	168.00	3.89	MWD	
12300.00	10175.00	359.99	41.25	22.77	45.53	Fighting Okra 18-19 Fed 31H (p)	123.85	168.00	3.80	MWD	
12400.00	10175.00	359.99	42.79	23.31	46.62	Fighting Okra 18-19 Fed 31H (p)	122.75	168.00	3.71	MWD	
12500.00	10175.00	359.99	44.35	23.87	47.73	Fighting Okra 18-19 Fed 31H (p)	121.71	168.00	3.63	MWD	

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
12600.00	10175.00	359.99	45.93	24.43	48.86	Fighting Okra 18-19 Fed 31H (p)	120.56	168.00	3.54	MWD	
12700.00	10175.00	359.99	47.53	25.00	50.01	Fighting Okra 18-19 Fed 31H (p)	119.53	168.00	3.47	MWD	
12800.00	10175.00	359.99	49.15	25.59	51.17	Fighting Okra 18-19 Fed 31H (p)	118.30	168.00	3.38	MWD	
12900.00	10175.00	359.99	50.78	26.17	52.35	Fighting Okra 18-19 Fed 31H (p)	117.18	168.00	3.31	MWD	
13000.00	10175.00	359.99	52.42	26.77	53.54	Fighting Okra 18-19 Fed 31H (p)	115.94	168.00	3.23	MWD	
13100.00	10175.00	359.99	54.07	27.37	54.75	Fighting Okra 18-19 Fed 31H (p)	114.78	168.00	3.16	MWD	
13200.00	10175.00	359.99	55.74	27.98	55.97	Fighting Okra 18-19 Fed 31H (p)	113.66	168.00	3.09	MWD	
13300.00	10175.00	359.99	57.41	28.60	57.20	Fighting Okra 18-19 Fed 31H (p)	112.52	168.00	3.03	MWD	
13400.00	10175.00	359.99	59.10	29.22	58.44	Fighting Okra 18-19 Fed 31H (p)	111.21	168.00	2.96	MWD	
13500.00	10175.00	359.99	60.79	29.84	59.69	Fighting Okra 18-19 Fed 31H (p)	109.92	168.00	2.89	MWD	
13600.00	10175.00	359.99	62.49	30.47	60.95	Fighting Okra 18-19 Fed 31H (p)	108.64	168.00	2.83	MWD	
13700.00	10175.00	359.99	64.20	31.11	62.22	Fighting Okra 18-19 Fed 31H (p)	107.37	168.00	2.77	MWD	
13800.00	10175.00	359.99	65.91	31.75	63.50	Fighting Okra 18-19 Fed 31H (p)	106.09	168.00	2.71	MWD	
13900.00	10175.00	359.99	67.63	32.39	64.78	Fighting Okra 18-19 Fed 31H (p)	104.82	168.00	2.66	MWD	
14000.00	10175.00	360.00	69.36	33.04	66.08	Fighting Okra 18-19 Fed 31H (p)	103.55	168.00	2.61	MWD	
14100.00	10175.00	360.00	71.09	33.69	67.38	Fighting Okra 18-19 Fed 31H (p)	102.28	168.00	2.56	MWD	
14200.00	10175.00	360.00	72.82	34.34	68.68	Fighting Okra 18-19 Fed 31H (p)	101.00	168.00	2.51	MWD	
14300.00	10175.00	360.00	74.56	35.00	70.00	Fighting Okra 18-19 Fed 31H (p)	99.71	168.00	2.46	MWD	SF(Lo)
14400.00	10175.00	360.00	76.30	35.66	71.32	Fighting Okra 18-19 Fed 31H (p)	98.43	168.00	2.41	MWD	SF(Lo)
14500.00	10175.00	360.00	78.05	36.32	72.64	Fighting Okra 18-19 Fed 31H (p)	97.14	168.00	2.37	MWD	SF(Lo)
14600.00	10175.00	360.00	79.80	36.99	73.97	Fighting Okra 18-19 Fed 31H (p)	95.84	168.00	2.33	MWD	SF(Lo)
14700.00	10175.00	360.00	81.55	37.66	75.31	Fighting Okra 18-19 Fed 31H (p)	94.54	168.00	2.29	MWD	SF(Lo)
14800.00	10175.00	360.00	83.31	38.33	76.65	Fighting Okra 18-19 Fed 31H (p)	93.21	168.00	2.25	MWD	SF(Lo)
14900.00	10175.00	360.00	85.07	39.00	78.00	Fighting Okra 18-19 Fed 31H (p)	91.87	168.00	2.21	MWD	SF(Lo)
15000.00	10175.00	360.00	86.84	39.67	79.35	Fighting Okra 18-19 Fed 31H (p)	90.53	168.00	2.17	MWD	SF(Lo)
15100.00	10175.00	360.00	88.60	40.35	80.70		89.19	168.00	2.13	MWD	SF(Lo)

Weatherford International (UK) Limited

5D S.A. 35-003-001 - 26 September 2017 14:07:05 (T-4)

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
15200.00	10175.00	360.00	90.37	41.03	82.06	Fighting Okra 18-19 Fed 31H (p)	87.85	168.00	2.10	MWD	SF(Lo)
15300.00	10175.00	360.00	92.14	41.71	83.42	Fighting Okra 18-19 Fed 31H (p)	86.50	168.00	2.06	MWD	SF(Lo)
15400.00	10175.00	360.00	93.91	42.39	84.78	Fighting Okra 18-19 Fed 31H (p)	85.13	168.00	2.03	MWD	SF(Lo)
15500.00	10175.00	360.00	95.69	43.08	86.15	Fighting Okra 18-19 Fed 31H (p)	83.75	168.00	1.99	MWD	SF(Lo)
15600.00	10175.00	360.00	97.46	43.76	87.52	Fighting Okra 18-19 Fed 31H (p)	82.37	168.00	1.96	MWD	SF(Lo)
15700.00	10175.00	360.00	99.24	44.45	88.90	Fighting Okra 18-19 Fed 31H (p)	80.99	168.00	1.93	MWD	SF(Lo)
15800.00	10175.00	360.00	101.02	45.14	90.27	Fighting Okra 18-19 Fed 31H (p)	79.60	168.00	1.90	MWD	SF(Lo)
15900.00	10175.00	360.00	102.80	45.83	91.65	Fighting Okra 18-19 Fed 31H (p)	78.22	168.00	1.87	MWD	SF(Lo)
16000.00	10175.00	360.00	104.59	46.52	93.04	Fighting Okra 18-19 Fed 31H (p)	76.83	168.00	1.84	MWD	SF(Lo)
16100.00	10175.00	360.00	106.37	47.21	94.42	Fighting Okra 18-19 Fed 31H (p)	75.44	168.00	1.81	MWD	SF(Lo)
16200.00	10175.00	360.00	108.16	47.90	95.81	Fighting Okra 18-19 Fed 31H (p)	74.04	168.00	1.79	MWD	SF(Lo)
16300.00	10175.00	360.00	109.95	48.60	97.20	Fighting Okra 18-19 Fed 31H (p)	72.65	168.00	1.76	MWD	SF(Lo)
16400.00	10175.00	360.00	111.74	49.30	98.59	Fighting Okra 18-19 Fed 31H (p)	71.25	168.00	1.74	MWD	SF(Lo)
16500.00	10175.00	360.00	113.53	49.99	99.99	Fighting Okra 18-19 Fed 31H (p)	69.85	168.00	1.71	MWD	SF(Lo)
16600.00	10175.00	360.00	115.32	50.69	101.38	Fighting Okra 18-19 Fed 31H (p)	68.45	168.00	1.69	MWD	SF(Lo)
16700.00	10175.00	360.00	117.11	51.39	102.78	Fighting Okra 18-19 Fed 31H (p)	67.05	168.00	1.66	MWD	SF(Lo)
16800.00	10175.00	360.00	118.90	52.09	104.18	Fighting Okra 18-19 Fed 31H (p)	65.64	168.00	1.64	MWD	SF(Lo)
16900.00	10175.00	360.00	120.70	52.79	105.58	Fighting Okra 18-19 Fed 31H (p)	64.24	168.00	1.62	MWD	SF(Lo)
17000.00	10175.00	360.00	122.49	53.49	106.99	Fighting Okra 18-19 Fed 31H (p)	62.83	168.00	1.60	MWD	SF(Lo)
17100.00	10175.00	360.00	124.29	54.20	108.39	Fighting Okra 18-19 Fed 31H (p)	61.42	168.00	1.58	MWD	SF(Lo)
17200.00	10175.00	360.00	126.09	54.90	109.80	Fighting Okra 18-19 Fed 31H (p)	60.01	168.00	1.56	MWD	SF(Lo)
17300.00	10175.00	360.00	127.89	55.60	111.21	Fighting Okra 18-19 Fed 31H (p)	58.60	168.00	1.54	MWD	SF(Lo)
17400.00	10175.00	360.00	129.68	56.31	112.62	Fighting Okra 18-19 Fed 31H (p)	57.19	168.00	1.52	MWD	SF(Lo)
17500.00	10175.00	360.00	131.48	57.01	114.03	Fighting Okra 18-19 Fed 31H (p)	55.77	168.00	1.50	MWD	SF(Med)
17600.00	10175.00	360.00	133.28	57.72	115.44		54.36	168.00	1.48	MWD	SF(Med)

5D Anti-Collision Report

Primary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
17700.00	10175.00	360.00	135.09	58.43	116.86	Fighting Okra 18-19 Fed 31H (p)	52.94	168.00	1.46	MWD	SF(Med)
17800.00	10175.00	360.00	136.89	59.14	118.27	Fighting Okra 18-19 Fed 31H (p)	51.52	168.00	1.44	MWD	SF(Med)
17900.00	10175.00	360.00	138.69	59.84	119.69	Fighting Okra 18-19 Fed 31H (p)	50.11	168.00	1.43	MWD	SF(Med)
18000.00	10175.00	360.00	140.49	60.55	121.11	Fighting Okra 18-19 Fed 31H (p)	48.69	168.00	1.41	MWD	SF(Med)
18100.00	10175.00	360.00	142.30	61.26	122.53	Fighting Okra 18-19 Fed 31H (p)	47.26	168.00	1.39	MWD	SF(Med)
18200.00	10175.00	360.00	144.10	61.97	123.95	Fighting Okra 18-19 Fed 31H (p)	45.84	168.00	1.38	MWD	SF(Med)
18300.00	10175.00	360.00	145.91	62.68	125.37	Fighting Okra 18-19 Fed 31H (p)	44.42	168.00	1.36	MWD	SF(Med)
18400.00	10175.00	360.00	147.71	63.39	126.79	Fighting Okra 18-19 Fed 31H (p)	43.00	168.00	1.34	MWD	SF(Med)
18462.51	10175.00	0.00	148.84	63.84	127.68	Fighting Okra 18-19 Fed 31H (p)	42.11	168.00	1.33	MWD	SF(Med)

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
0.00	9321.90	9323.46	158.63	21.36	21.30	27.25	9316.95	9331.26	651.85	MWD (Gyro)	
100.00	9321.90	9323.46	158.63	21.36	21.30	27.25	9214.75	9231.36	555.76	MWD (Gyro)	
200.00	9321.90	9323.46	158.63	21.36	21.30	27.25	9114.85	9131.47	549.43	MWD (Gyro)	
300.00	9321.90	9323.46	158.63	21.36	21.30	27.25	9014.94	9031.57	542.91	MWD (Gyro)	
400.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8915.02	8931.68	536.22	MWD (Gyro)	
500.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8815.11	8831.79	529.37	MWD (Gyro)	
600.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8715.19	8731.90	522.38	MWD (Gyro)	
700.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8615.27	8632.02	515.27	MWD (Gyro)	
800.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8515.35	8532.14	508.05	MWD (Gyro)	
900.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8415.42	8432.26	500.75	MWD (Gyro)	
1000.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8315.50	8332.38	493.37	MWD (Gyro)	
1100.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8215.57	8232.51	485.93	MWD (Gyro)	
1200.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8115.64	8132.64	478.45	MWD (Gyro)	
1300.00	9321.90	9323.46	158.63	21.36	21.30	27.25	8015.72	8032.78	470.94	MWD (Gyro)	
1400.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7915.79	7932.91	463.40	MWD (Gyro)	
1500.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7815.87	7833.05	455.85	MWD (Gyro)	
1600.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7715.95	7733.20	448.29	MWD (Gyro)	
1700.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7616.03	7633.35	440.74	MWD (Gyro)	
1800.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7516.11	7533.50	433.19	MWD (Gyro)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
1900.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7416.19	7433.65	425.66	MWD (Gyro)	
2000.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7316.28	7333.81	418.16	MWD (Gyro)	
2100.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7216.36	7233.98	410.67	MWD (Gyro)	
2200.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7116.46	7134.15	403.22	MWD (Gyro)	
2300.00	9321.90	9323.46	158.63	21.36	21.30	27.25	7016.55	7034.32	395.80	MWD (Gyro)	
2400.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6916.65	6934.50	388.38	MWD (Gyro)	
2500.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6816.75	6834.69	380.99	MWD (Gyro)	
2600.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6716.85	6734.88	373.64	MWD (Gyro)	
2700.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6616.96	6635.07	366.29	MWD (Gyro)	
2800.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6517.07	6535.27	358.97	MWD (Gyro)	
2900.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6417.18	6435.48	351.70	MWD (Gyro)	
3000.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6317.30	6335.70	344.47	MWD (Gyro)	
3100.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6217.43	6235.92	337.29	MWD (Gyro)	
3200.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6117.56	6136.14	330.16	MWD (Gyro)	
3300.00	9321.90	9323.46	158.63	21.36	21.30	27.25	6017.70	6036.38	323.07	MWD (Gyro)	
3400.00	9321.90	9323.46	165.65	21.36	21.30	27.25	5917.90	5936.69	316.05	MWD (Gyro)	
3500.00	9321.90	9323.46	168.00	21.36	21.30	27.25	5818.27	5837.16	309.08	MWD (Gyro)	
3600.00	9321.90	9323.46	169.67	21.36	21.30	27.25	5718.83	5737.82	302.14	MWD (Gyro)	
3700.00	9321.90	9323.46	170.91	21.36	21.30	27.25	5619.64	5638.73	295.25	MWD (Gyro)	
3800.00	9321.90	9323.46	171.88	21.36	21.30	27.25	5520.72	5539.93	288.39	MWD (Gyro)	
3900.00	9321.90	9323.46	172.35	21.36	21.30	27.25	5422.11	5441.43	281.60	MWD (Gyro)	
4000.00	9321.90	9323.46	172.35	21.36	21.30	27.25	5323.60	5343.05	274.80	MWD (Gyro)	
4100.00	9321.90	9323.46	172.35	21.36	21.30	27.25	5225.15	5244.72	268.07	MWD (Gyro)	
4200.00	9321.90	9323.46	172.35	21.36	21.30	27.25	5126.77	5146.46	261.39	MWD (Gyro)	
4300.00	9321.90	9323.46	172.35	21.36	21.30	27.25	5028.45	5048.27	254.77	MWD (Gyro)	
4400.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4930.20	4950.15	248.21	MWD (Gyro)	
4500.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4832.03	4852.10	241.72	MWD (Gyro)	
4600.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4733.93	4754.14	235.29	MWD (Gyro)	
4700.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4635.93	4656.26	228.93	MWD (Gyro)	
4800.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4538.01	4558.48	222.63	MWD (Gyro)	
4900.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4440.18	4460.80	216.40	MWD (Gyro)	
5000.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4342.46	4363.22	210.19	MWD (Gyro)	
5100.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4244.84	4265.75	203.96	MWD (Gyro)	
5200.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4147.33	4168.40	197.81	MWD (Gyro)	
5300.00	9321.90	9323.46	172.35	21.36	21.30	27.25	4049.95	4071.18	191.73	MWD (Gyro)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
8900.00	9832.06	10561.55	123.95	26.28	15.78	31.40	932.08	961.32	32.88	MWD (Wft MWD Svy ST01)	
9000.00	9831.83	10566.97	121.24	26.33	15.79	31.43	832.39	861.90	29.21	MWD (Wft MWD Svy ST01)	
9100.00	9831.61	10572.25	115.36	26.37	15.81	31.46	732.79	762.58	25.59	MWD (Wft MWD Svy ST01)	
9200.00	9831.45	10576.14	105.52	26.41	15.82	31.48	633.22	663.36	22.01	MWD (Wft MWD Svy ST01)	
9300.00	9831.36	10578.33	97.02	26.43	15.83	31.49	533.82	564.32	18.50	MWD (Wft MWD Svy ST01)	
9400.00	9831.34	10578.81	90.60	26.43	15.83	31.49	434.65	465.65	15.02	MWD (Wft MWD Svy ST01)	
9500.00	9831.39	10577.58	86.53	26.42	15.82	31.49	336.00	367.68	11.61	MWD (Wft MWD Svy ST01)	
9600.00	9831.51	10574.64	84.85	26.39	15.82	31.47	238.33	271.22	8.24	MWD (Wft MWD Svy ST01)	
9700.00	9831.92	10564.90	250.86	26.31	15.79	31.42	143.34	179.10	5.01	MWD (Wft MWD Svy ST01)	
9800.00	9833.04	10538.54	255.08	26.07	15.72	31.27	59.90	103.65	2.37	MWD (Wft MWD Svy ST01)	SF(Lo)
9900.00	9834.87	10496.00	279.26	25.70	15.61	31.04	38.91	87.09	1.81	MWD (Wft MWD Svy ST01)	SF(Lo)
10000.00	9837.65	10437.95	310.02	25.21	15.48	30.75	97.71	136.69	3.51	MWD (Wft MWD Svy ST01)	
10100.00	9841.50	10366.07	328.18	24.64	15.33	30.42	161.55	196.77	5.59	MWD (Wft MWD Svy ST01)	
10200.00	9845.82	10286.43	336.50	24.03	15.13	30.10	215.19	248.95	7.37	MWD (Wft MWD Svy ST01)	
10300.00	9848.22	10203.51	340.50	23.45	14.92	29.79	257.05	290.20	8.75	MWD (Wft MWD Svy ST01)	
10400.00	9848.33	10128.50	341.98	22.99	14.72	29.55	286.80	319.81	9.69	MWD (Wft MWD Svy ST01)	
10500.00	9843.23	10071.86	342.29	22.67	14.61	29.39	309.73	343.23	10.25	MWD (Wft MWD Svy ST01)	
10600.00	9831.39	10016.35	341.93	22.38	14.78	29.24	334.94	369.30	10.75	MWD (Wft MWD Svy ST01)	
10700.00	9814.36	9964.33	341.96	22.16	15.16	29.11	370.52	405.83	11.49	MWD (Wft MWD Svy ST01)	
10800.00	9793.92	9916.80	342.29	21.98	15.67	28.99	415.18	451.65	12.39	MWD (Wft MWD Svy ST01)	
10900.00	9771.01	9872.28	342.77	21.84	16.20	28.88	467.87	505.28	13.51	MWD (Wft MWD Svy ST01)	
11000.00	9745.65	9828.92	344.64	21.72	16.70	28.76	526.51	564.98	14.69	MWD (Wft MWD Svy ST01)	
11100.00	9719.26	9787.65	345.31	21.63	17.14	28.65	589.74	628.98	16.03	MWD (Wft MWD Svy ST01)	
11200.00	9695.65	9753.05	345.71	21.57	17.52	28.55	657.33	697.34	17.43	MWD (Wft MWD Svy ST01)	
11300.00	9672.15	9720.50	346.05	21.52	17.84	28.45	728.90	769.70	18.86	MWD (Wft MWD Svy ST01)	

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
11400.00	9644.41	9683.37	346.36	21.47	18.06	28.33	803.56	844.91	20.43	MWD (Wft MWD Svy ST01)	
11500.00	9620.70	9652.47	346.59	21.44	18.32	28.24	880.42	922.36	22.00	MWD (Wft MWD Svy ST01)	
11600.00	9601.77	9628.55	346.78	21.42	18.59	28.16	959.66	1002.13	23.60	MWD (Wft MWD Svy ST01)	
11700.00	9585.17	9608.17	346.95	21.40	18.84	28.10	1041.27	1084.09	25.31	MWD (Wft MWD Svy ST01)	
11800.00	9568.98	9588.76	347.12	21.39	19.06	28.03	1124.64	1167.92	26.99	MWD (Wft MWD Svy ST01)	
11900.00	9553.08	9570.07	347.28	21.38	19.25	27.97	1209.70	1253.32	28.73	MWD (Wft MWD Svy ST01)	
12000.00	9536.97	9551.42	347.45	21.37	19.40	27.90	1296.09	1340.03	30.50	MWD (Wft MWD Svy ST01)	
12100.00	9522.84	9535.28	347.60	21.36	19.55	27.85	1383.63	1427.88	32.27	MWD (Wft MWD Svy ST01)	
12200.00	9509.98	9520.78	347.74	21.36	19.69	27.79	1472.31	1516.77	34.12	MWD (Wft MWD Svy ST01)	
12300.00	9498.99	9508.52	347.86	21.35	19.83	27.75	1561.82	1606.59	35.88	MWD (Wft MWD Svy ST01)	
12400.00	9489.29	9497.82	347.97	21.35	19.95	27.71	1652.31	1697.27	37.76	MWD (Wft MWD Svy ST01)	
12500.00	9480.28	9487.97	348.08	21.35	20.06	27.67	1743.57	1788.70	39.63	MWD (Wft MWD Svy ST01)	
12600.00	9471.48	9478.42	348.19	21.34	20.15	27.64	1835.46	1880.81	41.48	MWD (Wft MWD Svy ST01)	
12700.00	9462.97	9469.24	348.30	21.34	20.24	27.60	1928.03	1973.50	43.41	MWD (Wft MWD Svy ST01)	
12800.00	9455.00	9460.71	348.40	21.34	20.31	27.57	2021.18	2066.72	45.39	MWD (Wft MWD Svy ST01)	
12900.00	9447.46	9452.66	348.50	21.34	20.38	27.54	2114.71	2160.41	47.28	MWD (Wft MWD Svy ST01)	
13000.00	9437.89	9442.50	348.62	21.34	20.43	27.50	2208.66	2254.50	49.18	MWD (Wft MWD Svy ST01)	
13100.00	9428.84	9432.93	348.73	21.34	20.48	27.46	2302.97	2348.94	51.09	MWD (Wft MWD Svy ST01)	
13200.00	9420.28	9423.90	348.84	21.34	20.53	27.42	2397.63	2443.71	53.03	MWD (Wft MWD Svy ST01)	
13300.00	9414.01	9417.32	348.92	21.33	20.58	27.39	2492.61	2538.78	54.99	MWD (Wft MWD Svy ST01)	
13400.00	9409.01	9412.08	348.99	21.33	20.62	27.37	2587.91	2634.14	56.98	MWD (Wft MWD Svy ST01)	
13500.00	9404.29	9407.15	349.05	21.33	20.67	27.36	2683.48	2729.79	58.95	MWD (Wft MWD Svy ST01)	
13600.00	9399.83	9402.51	349.11	21.33	20.71	27.34	2779.26	2825.69	60.86	MWD (Wft MWD Svy ST01)	
13700.00	9395.61	9398.12	349.16	21.33	20.74	27.32	2875.29	2921.82	62.79	MWD (Wft MWD Svy ST01)	
13800.00	9391.61	9393.98	349.22	21.33	20.77	27.30	2971.54	3018.17	64.74	MWD (Wft MWD Svy ST01)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
13900.00	9387.83	9390.06	349.27	21.33	20.80	27.29	3068.00	3114.71	66.69	MWD (Wft MWD Svy ST01)	
14000.00	9385.60	9387.76	349.30	21.33	20.83	27.28	3164.66	3211.43	68.66	MWD (Wft MWD Svy ST01)	
14100.00	9384.01	9386.12	349.32	21.33	20.86	27.28	3261.51	3308.34	70.64	MWD (Wft MWD Svy ST01)	
14200.00	9382.50	9384.57	349.34	21.33	20.89	27.28	3358.53	3405.42	72.62	MWD (Wft MWD Svy ST01)	
14300.00	9381.06	9383.09	349.36	21.33	20.91	27.28	3455.71	3502.65	74.62	MWD (Wft MWD Svy ST01)	
14400.00	9379.70	9381.70	349.37	21.33	20.93	27.28	3553.03	3600.02	76.61	MWD (Wft MWD Svy ST01)	
14500.00	9378.40	9380.37	349.39	21.33	20.95	27.28	3650.48	3697.53	78.58	MWD (Wft MWD Svy ST01)	
14600.00	9377.17	9379.10	349.41	21.33	20.97	27.28	3748.04	3795.16	80.55	MWD (Wft MWD Svy ST01)	
14700.00	9375.99	9377.90	349.42	21.33	20.99	27.28	3845.73	3892.90	82.53	MWD (Wft MWD Svy ST01)	
14800.00	9374.86	9376.75	349.44	21.34	21.01	27.28	3943.53	3990.75	84.51	MWD (Wft MWD Svy ST01)	
14900.00	9373.79	9375.65	349.45	21.34	21.02	27.28	4041.42	4088.69	86.49	MWD (Wft MWD Svy ST01)	
15000.00	9372.76	9374.60	349.46	21.34	21.03	27.28	4139.41	4186.73	88.48	MWD (Wft MWD Svy ST01)	
15100.00	9371.78	9373.60	349.48	21.34	21.05	27.28	4237.49	4284.86	90.46	MWD (Wft MWD Svy ST01)	
15200.00	9370.83	9372.64	349.49	21.34	21.06	27.28	4335.64	4383.06	92.43	MWD (Wft MWD Svy ST01)	
15300.00	9369.93	9371.72	349.50	21.34	21.07	27.28	4433.85	4481.34	94.37	MWD (Wft MWD Svy ST01)	
15400.00	9369.06	9370.84	349.51	21.34	21.08	27.28	4532.14	4579.69	96.30	MWD (Wft MWD Svy ST01)	
15500.00	9368.22	9369.99	349.52	21.34	21.09	27.28	4630.49	4678.11	98.24	MWD (Wft MWD Svy ST01)	
15600.00	9367.42	9369.18	349.53	21.34	21.10	27.27	4728.91	4776.59	100.17	MWD (Wft MWD Svy ST01)	
15700.00	9366.65	9368.39	349.54	21.34	21.11	27.27	4827.39	4875.13	102.10	MWD (Wft MWD Svy ST01)	
15800.00	9365.91	9367.64	349.55	21.34	21.12	27.27	4925.92	4973.73	104.04	MWD (Wft MWD Svy ST01)	
15900.00	9365.19	9366.92	349.56	21.34	21.12	27.27	5024.51	5072.38	105.97	MWD (Wft MWD Svy ST01)	
16000.00	9364.50	9366.22	349.57	21.34	21.13	27.27	5123.15	5171.07	107.89	MWD (Wft MWD Svy ST01)	
16100.00	9363.84	9365.54	349.58	21.34	21.14	27.27	5221.83	5269.82	109.82	MWD (Wft MWD Svy ST01)	
16200.00	9363.19	9364.89	349.59	21.34	21.14	27.27	5320.56	5368.61	111.74	MWD (Wft MWD Svy ST01)	
16300.00	9362.57	9364.27	349.59	21.34	21.15	27.27	5419.34	5467.44	113.67	MWD (Wft MWD Svy ST01)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
16400.00	9361.97	9363.66	349.60	21.34	21.16	27.27	5518.15	5566.31	115.58	MWD (Wft MWD Svy ST01)	
16500.00	9361.39	9363.07	349.61	21.34	21.16	27.27	5617.01	5665.22	117.50	MWD (Wft MWD Svy ST01)	
16600.00	9360.83	9362.51	349.61	21.35	21.17	27.27	5715.90	5764.17	119.41	MWD (Wft MWD Svy ST01)	
16700.00	9360.29	9361.96	349.62	21.35	21.17	27.27	5814.82	5863.15	121.32	MWD (Wft MWD Svy ST01)	
16800.00	9359.77	9361.43	349.63	21.35	21.18	27.27	5913.78	5962.16	123.23	MWD (Wft MWD Svy ST01)	
16900.00	9359.26	9360.91	349.63	21.35	21.18	27.27	6012.77	6061.21	125.13	MWD (Wft MWD Svy ST01)	
17000.00	9358.76	9360.42	349.64	21.35	21.18	27.27	6111.78	6160.28	127.02	MWD (Wft MWD Svy ST01)	
17100.00	9358.28	9359.93	349.65	21.35	21.19	27.27	6210.83	6259.38	128.92	MWD (Wft MWD Svy ST01)	
17200.00	9357.82	9359.47	349.65	21.35	21.19	27.27	6309.90	6358.51	130.81	MWD (Wft MWD Svy ST01)	
17300.00	9357.37	9359.01	349.66	21.35	21.20	27.27	6409.00	6457.67	132.69	MWD (Wft MWD Svy ST01)	
17400.00	9356.93	9358.57	349.66	21.35	21.20	27.27	6508.13	6556.85	134.57	MWD (Wft MWD Svy ST01)	
17500.00	9356.51	9358.14	349.67	21.35	21.20	27.27	6607.27	6656.05	136.45	MWD (Wft MWD Svy ST01)	
17600.00	9356.09	9357.73	349.67	21.35	21.20	27.27	6706.44	6755.28	138.32	MWD (Wft MWD Svy ST01)	
17700.00	9355.69	9357.32	349.68	21.35	21.21	27.27	6805.63	6854.53	140.19	MWD (Wft MWD Svy ST01)	
17800.00	9355.30	9356.93	349.68	21.35	21.21	27.27	6904.84	6953.80	142.05	MWD (Wft MWD Svy ST01)	
17900.00	9354.92	9356.54	349.69	21.35	21.21	27.27	7004.08	7053.09	143.91	MWD (Wft MWD Svy ST01)	
18000.00	9354.55	9356.17	349.69	21.35	21.21	27.27	7103.33	7152.40	145.76	MWD (Wft MWD Svy ST01)	
18100.00	9354.19	9355.81	349.70	21.35	21.22	27.27	7202.59	7251.72	147.60	MWD (Wft MWD Svy ST01)	
18200.00	9353.84	9355.46	349.70	21.35	21.22	27.27	7301.88	7351.07	149.45	MWD (Wft MWD Svy ST01)	
18300.00	9353.50	9355.11	349.70	21.35	21.22	27.27	7401.18	7450.43	151.28	MWD (Wft MWD Svy ST01)	
18400.00	9353.17	9354.78	349.71	21.36	21.22	27.27	7500.50	7549.81	153.11	MWD (Wft MWD Svy ST01)	
18462.51	9352.96	9354.57	349.71	21.36	21.22	27.27	7562.59	7611.94	154.25	MWD (Wft MWD Svy ST01)	
Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
0.00	2.00	0.00	179.82	0.00	0.00	0.00	308.45	309.17	427.68	NSG Cont (Gyro)	
100.00	100.10	98.10	179.78	0.13	0.13	2.17	308.18	309.15	321.44	NSG Cont (Gyro)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
200.00	199.32	197.32	179.64	0.36	0.36	2.63	307.79	309.21	217.80	NSG Cont (Gyro)	
300.00	299.60	297.61	179.40	0.63	0.63	2.63	307.51	309.42	162.11	NSG Cont (Gyro)	
400.00	400.38	398.40	179.10	0.90	0.90	2.64	307.03	309.43	128.90	NSG Cont (Gyro)	
500.00	499.53	497.56	178.80	1.16	1.16	2.64	306.54	309.43	107.13	NSG Cont (Gyro)	
600.00	599.34	597.39	178.53	1.42	1.42	2.65	306.24	309.62	91.72	NSG Cont (Gyro)	
700.00	699.41	697.47	178.27	1.69	1.69	2.65	305.97	309.83	80.20	NSG Cont (Gyro)	
800.00	800.01	798.08	178.02	1.96	1.96	2.66	305.55	309.90	71.19	NSG Cont (Gyro)	
900.00	899.69	897.77	177.74	2.22	2.22	2.67	305.11	309.95	64.03	NSG Cont (Gyro)	
1000.00	999.02	997.11	177.47	2.48	2.48	2.68	304.79	310.12	58.22	NSG Cont (Gyro)	
1100.00	1098.10	1096.20	177.29	2.73	2.73	2.69	304.85	310.66	53.51	NSG Cont (Gyro)	
1200.00	1198.21	1196.31	177.12	2.98	2.98	2.70	304.91	311.20	49.51	NSG Cont (Gyro)	
1300.00	1298.09	1296.21	176.90	3.24	3.24	2.71	305.09	311.85	46.08	NSG Cont (Gyro)	
1400.00	1397.72	1395.85	176.68	3.48	3.47	2.72	305.21	312.43	43.27	NSG Cont (Gyro)	
1500.00	1496.73	1494.86	176.66	3.65	3.65	2.73	305.74	313.36	41.13	NSG Cont (Gyro)	
1600.00	1596.31	1594.44	176.65	3.83	3.83	2.75	306.44	314.47	39.16	NSG Cont (Gyro)	
1700.00	1696.09	1694.23	176.57	4.04	4.04	2.76	307.23	315.69	37.34	NSG Cont (Gyro)	
1800.00	1795.26	1793.41	176.53	4.25	4.24	2.77	308.13	317.01	35.70	NSG Cont (Gyro)	
1900.00	1896.29	1894.45	176.48	4.46	4.46	2.78	309.11	318.44	34.14	NSG Cont (Gyro)	
2000.00	1997.25	1995.42	176.44	4.69	4.68	2.80	309.65	319.42	32.67	NSG Cont (Gyro)	
2100.00	2096.77	2094.94	176.37	4.93	4.92	2.81	310.09	320.33	31.30	NSG Cont (Gyro)	
2200.00	2196.07	2194.25	176.28	5.17	5.17	2.82	310.76	321.45	30.07	NSG Cont (Gyro)	
2300.00	2298.80	2296.99	176.15	5.43	5.43	2.84	311.08	322.26	28.82	NSG Cont (Gyro)	
2400.00	2399.05	2397.24	176.03	5.69	5.69	2.85	310.96	322.62	27.66	NSG Cont (Gyro)	
2500.00	2500.83	2499.02	175.89	5.93	5.93	2.86	310.46	322.59	26.60	NSG Cont (Gyro)	
2600.00	2600.61	2598.82	175.57	6.16	6.16	2.88	309.78	322.37	25.61	NSG Cont (Gyro)	
2700.00	2700.54	2698.77	175.17	6.40	6.39	2.90	309.14	322.19	24.69	NSG Cont (Gyro)	
2800.00	2799.37	2797.64	174.68	6.63	6.63	2.91	308.60	322.11	23.85	NSG Cont (Gyro)	
2900.00	2895.60	2893.94	174.05	6.88	6.87	2.93	308.85	322.82	23.11	NSG Cont (Gyro)	
3000.00	2991.12	2989.57	173.32	7.13	7.12	2.95	310.48	324.93	22.49	NSG Cont (Gyro)	
3100.00	3089.23	3087.83	172.54	7.39	7.38	2.97	313.13	328.08	21.95	NSG Cont (Gyro)	
3200.00	3191.81	3190.57	171.71	7.67	7.65	2.99	315.67	331.12	21.42	NSG Cont (Gyro)	
3300.00	3296.36	3295.26	170.82	7.94	7.92	3.01	316.90	332.86	20.86	NSG Cont (Gyro)	
3400.00	3399.68	3398.71	173.41	8.20	8.18	3.04	317.86	334.29	20.35	NSG Cont (Gyro)	
3500.00	3498.37	3497.52	172.65	8.44	8.42	3.06	320.09	336.98	19.96	NSG Cont (Gyro)	
3600.00	3597.73	3597.01	171.90	8.69	8.67	3.09	324.62	341.95	19.72	NSG Cont (Gyro)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
3700.00	3697.56	3696.94	171.28	8.94	8.92	3.12	330.76	348.59	19.55	NSG Cont (Gyro)	
3800.00	3799.82	3799.31	170.73	9.20	9.17	3.15	338.35	356.64	19.50	NSG Cont (Gyro)	
3900.00	3905.11	3904.70	170.27	9.43	9.41	3.18	346.31	365.07	19.46	NSG Cont (Gyro)	
4000.00	4004.31	4003.99	169.91	9.64	9.61	3.21	353.86	373.09	19.40	NSG Cont (Gyro)	
4100.00	4107.62	4107.39	169.65	9.83	9.81	3.25	360.90	380.55	19.37	NSG Cont (Gyro)	
4200.00	4205.33	4205.15	169.51	10.01	9.98	3.28	367.78	387.80	19.37	NSG Cont (Gyro)	
4300.00	4300.79	4300.65	169.49	10.19	10.16	3.32	375.61	396.01	19.41	NSG Cont (Gyro)	
4400.00	4399.73	4399.60	169.50	10.40	10.37	3.36	383.89	404.73	19.42	NSG Cont (Gyro)	
4500.00	4497.18	4497.10	169.37	10.63	10.59	3.40	392.38	413.69	19.41	NSG Cont (Gyro)	
4600.00	4591.33	4591.31	169.12	10.87	10.83	3.44	401.86	423.64	19.45	NSG Cont (Gyro)	
4700.00	4685.08	4685.18	168.77	11.12	11.07	3.48	412.61	434.86	19.54	NSG Cont (Gyro)	
4800.00	4779.91	4780.14	168.47	11.36	11.32	3.53	424.61	447.34	19.68	NSG Cont (Gyro)	
4900.00	4879.26	4879.59	168.32	11.62	11.58	3.58	436.94	460.17	19.81	NSG Cont (Gyro)	
5000.00	4980.29	4980.70	168.24	11.88	11.84	3.64	449.07	472.80	19.92	NSG Cont (Gyro)	
5100.00	5080.99	5081.47	168.15	12.14	12.10	3.70	460.67	484.89	20.01	NSG Cont (Gyro)	
5200.00	5181.30	5181.86	168.07	12.41	12.36	3.76	472.23	496.95	20.10	NSG Cont (Gyro)	
5300.00	5284.37	5284.97	168.04	12.68	12.63	3.82	483.20	508.42	20.16	NSG Cont (Gyro)	
5400.00	5385.76	5386.41	167.98	12.95	12.89	3.89	493.52	519.25	20.19	NSG Cont (Gyro)	
5500.00	5481.03	5481.70	167.94	13.19	13.14	3.95	503.99	530.19	20.24	NSG Cont (Gyro)	
5600.00	5582.44	5583.16	167.98	13.45	13.40	4.02	515.03	541.71	20.30	NSG Cont (Gyro)	
5700.00	5685.04	5685.78	167.99	13.73	13.67	4.10	525.26	552.45	20.32	NSG Cont (Gyro)	
5800.00	5778.22	5778.98	168.02	13.96	13.91	4.17	535.75	563.39	20.38	NSG Cont (Gyro)	
5900.00	5878.36	5879.16	168.12	14.21	14.15	4.25	546.93	575.05	20.45	NSG Cont (Gyro)	
6000.00	5979.53	5980.34	168.21	14.46	14.40	4.33	557.75	586.34	20.51	NSG Cont (Gyro)	
6100.00	6076.46	6077.30	168.27	14.70	14.65	4.42	568.62	597.68	20.57	NSG Cont (Gyro)	
6200.00	6175.55	6176.42	168.31	14.96	14.90	4.50	579.70	609.24	20.63	NSG Cont (Gyro)	
6300.00	6272.68	6273.58	168.40	15.19	15.13	4.59	591.05	621.03	20.72	NSG Cont (Gyro)	
6400.00	6378.11	6379.03	168.52	15.44	15.37	4.69	601.96	632.42	20.76	NSG Cont (Gyro)	
6500.00	6478.12	6479.06	168.62	15.69	15.62	4.79	612.30	643.25	20.78	NSG Cont (Gyro)	
6600.00	6574.37	6575.32	168.71	15.92	15.86	4.89	622.99	654.41	20.83	NSG Cont (Gyro)	
6700.00	6674.78	6675.75	168.82	16.16	16.10	4.99	633.85	665.75	20.87	NSG Cont (Gyro)	
6800.00	6778.09	6779.07	168.92	16.42	16.36	5.11	644.22	676.62	20.88	NSG Cont (Gyro)	
6900.00	6875.26	6876.25	169.00	16.66	16.60	5.21	654.31	687.18	20.90	NSG Cont (Gyro)	
7000.00	6970.90	6971.90	169.12	16.87	16.80	5.32	665.28	698.59	20.97	NSG Cont (Gyro)	
7100.00	7073.74	7074.76	169.34	17.03	16.97	5.44	676.10	709.82	21.05	NSG Cont (Gyro)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
7200.00	7175.87	7176.90	169.52	17.19	17.12	5.57	686.47	720.59	21.12	NSG Cont (Gyro)	
7300.00	7273.21	7274.25	169.68	17.36	17.30	5.69	696.71	731.23	21.18	NSG Cont (Gyro)	
7400.00	7374.64	7375.69	169.79	17.58	17.52	5.82	707.17	742.14	21.22	NSG Cont (Gyro)	
7500.00	7476.86	7477.91	169.90	17.82	17.76	5.95	717.08	752.53	21.23	NSG Cont (Gyro)	
7600.00	7573.87	7574.92	169.97	18.07	18.01	6.08	726.96	762.89	21.23	NSG Cont (Gyro)	
7700.00	7669.23	7670.29	170.03	18.31	18.25	6.21	737.33	773.72	21.26	NSG Cont (Gyro)	
7800.00	7761.89	7762.98	170.13	18.52	18.45	6.34	748.39	785.22	21.32	NSG Cont (Gyro)	
7900.00	7861.13	7862.24	170.25	18.73	18.67	6.48	759.99	797.26	21.39	NSG Cont (Gyro)	
8000.00	7960.89	7962.03	170.38	18.93	18.87	6.63	771.46	809.17	21.46	NSG Cont (Gyro)	
8100.00	8058.62	8059.79	170.48	19.14	19.08	6.78	783.00	821.15	21.53	NSG Cont (Gyro)	
8200.00	8160.00	8161.19	170.56	19.38	19.31	6.93	794.50	833.10	21.58	NSG Cont (Gyro)	
8300.00	8254.33	8255.56	170.66	19.58	19.52	7.08	806.20	845.22	21.66	NSG Cont (Gyro)	
8400.00	8355.26	8356.53	170.79	19.79	19.73	7.24	818.09	857.54	21.74	NSG Cont (Gyro)	
8500.00	8458.37	8459.66	170.89	20.01	19.95	7.41	829.60	869.49	21.80	NSG Cont (Gyro)	
8600.00	8558.08	8559.39	171.02	20.21	20.14	7.57	840.93	881.23	21.87	NSG Cont (Gyro)	
8700.00	8659.04	8660.38	171.19	20.37	20.30	7.74	852.20	892.91	21.94	NSG Cont (Gyro)	
8800.00	8759.97	8761.34	171.38	20.51	20.44	7.92	863.14	904.24	22.00	NSG Cont (Gyro)	
8900.00	8856.33	8857.73	171.56	20.64	20.58	8.09	874.35	915.82	22.08	NSG Cont (Gyro)	
9000.00	8953.26	8954.69	171.74	20.79	20.73	8.26	885.70	927.56	22.16	NSG Cont (Gyro)	
9100.00	9051.67	9053.15	171.91	20.94	20.88	8.44	897.32	939.56	22.24	NSG Cont (Gyro)	
9200.00	9971.14	10209.00	169.39	23.05	15.13	30.27	908.14	941.89	27.91	MWD (Wft MWD Svy ST00)	
9300.00	9971.14	10209.00	169.15	23.05	15.13	30.27	827.87	862.74	24.74	MWD (Wft MWD Svy ST00)	
9400.00	9971.14	10209.00	168.93	23.05	15.13	30.27	751.03	787.16	21.78	MWD (Wft MWD Svy ST00)	
9500.00	9971.14	10209.00	168.73	23.05	15.13	30.27	678.64	716.31	19.02	MWD (Wft MWD Svy ST00)	
9600.00	9971.14	10209.00	168.57	23.05	15.13	30.27	612.46	651.75	16.59	MWD (Wft MWD Svy ST00)	
9700.00	9971.14	10209.00	345.71	23.05	15.13	30.27	550.36	591.32	14.43	MWD (Wft MWD Svy ST00)	
9800.00	9971.14	10209.00	343.56	23.05	15.13	30.27	485.79	528.30	12.43	MWD (Wft MWD Svy ST00)	
9900.00	9971.14	10209.00	340.98	23.05	15.13	30.27	419.92	463.62	10.61	MWD (Wft MWD Svy ST00)	
10000.00	9971.14	10209.00	338.01	23.05	15.13	30.27	354.62	398.92	9.01	MWD (Wft MWD Svy ST00)	
10100.00	9971.14	10209.00	334.84	23.05	15.13	30.27	292.48	336.72	7.61	MWD (Wft MWD Svy ST00)	
10200.00	9971.14	10209.00	331.84	23.05	15.13	30.27	238.26	281.19	6.55	MWD (Wft MWD Svy ST00)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
10300.00	9971.14	10209.00	329.56	23.05	15.13	30.27	199.33	239.24	5.99	MWD (Wft MWD Svy ST00)	
10400.00	9971.14	10209.00	328.56	23.05	15.13	30.27	183.43	220.34	5.97	MWD (Wft MWD Svy ST00)	
10500.00	9969.79	10198.51	329.08	22.98	15.14	30.24	193.83	230.49	6.29	MWD (Wft MWD Svy ST00)	
10600.00	9954.29	10126.30	329.95	22.55	15.39	30.06	218.17	255.16	6.90	MWD (Wft MWD Svy ST00)	
10700.00	9932.30	10057.49	331.53	22.21	15.75	29.89	251.30	288.70	7.72	MWD (Wft MWD Svy ST00)	
10800.00	9907.08	9997.77	333.36	21.97	16.32	29.76	293.35	331.36	8.72	MWD (Wft MWD Svy ST00)	
10900.00	9882.98	9951.73	335.00	21.83	16.99	29.67	344.49	383.54	9.82	MWD (Wft MWD Svy ST00)	
11000.00	9858.71	9912.14	337.77	21.73	17.64	29.58	404.48	444.40	11.13	MWD (Wft MWD Svy ST00)	
11100.00	9834.48	9876.59	339.06	21.66	18.21	29.49	470.67	511.57	12.51	MWD (Wft MWD Svy ST00)	
11200.00	9812.61	9846.95	339.97	21.61	18.68	29.41	542.63	584.31	14.02	MWD (Wft MWD Svy ST00)	
11300.00	9791.34	9819.74	340.81	21.58	19.06	29.32	619.22	661.44	15.67	MWD (Wft MWD Svy ST00)	
11400.00	9770.32	9793.84	341.57	21.55	19.33	29.24	699.12	741.85	17.36	MWD (Wft MWD Svy ST00)	
11500.00	9750.94	9770.67	342.20	21.53	19.57	29.16	781.61	824.88	19.06	MWD (Wft MWD Svy ST00)	
11600.00	9731.06	9747.45	342.79	21.51	19.75	29.08	866.39	909.99	20.87	MWD (Wft MWD Svy ST00)	
11700.00	9713.65	9727.45	343.27	21.50	19.91	29.01	952.79	996.76	22.67	MWD (Wft MWD Svy ST00)	
11800.00	9698.95	9710.84	343.65	21.49	20.06	28.95	1040.77	1085.02	24.52	MWD (Wft MWD Svy ST00)	
11900.00	9685.09	9695.40	343.99	21.48	20.19	28.89	1130.05	1174.55	26.40	MWD (Wft MWD Svy ST00)	
12000.00	9672.15	9681.16	344.30	21.48	20.31	28.83	1220.43	1265.15	28.29	MWD (Wft MWD Svy ST00)	
12100.00	9660.51	9668.47	344.57	21.47	20.41	28.78	1311.85	1356.67	30.27	MWD (Wft MWD Svy ST00)	
12200.00	9650.15	9657.26	344.81	21.47	20.50	28.74	1403.95	1448.99	32.17	MWD (Wft MWD Svy ST00)	
12300.00	9640.63	9647.05	345.02	21.47	20.57	28.70	1496.87	1542.01	34.16	MWD (Wft MWD Svy ST00)	
12400.00	9631.91	9637.75	345.20	21.47	20.64	28.66	1590.36	1635.65	36.11	MWD (Wft MWD Svy ST00)	
12500.00	9623.91	9629.26	345.37	21.46	20.69	28.63	1684.38	1729.83	38.06	MWD (Wft MWD Svy ST00)	
12600.00	9616.50	9621.43	345.52	21.46	20.74	28.60	1778.96	1824.48	40.08	MWD (Wft MWD Svy ST00)	
12700.00	9609.62	9614.20	345.66	21.46	20.79	28.57	1873.95	1919.55	42.10	MWD (Wft MWD Svy ST00)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
12800.00	9602.85	9607.11	345.79	21.46	20.83	28.54	1969.25	2015.00	44.05	MWD (Wft MWD Svy ST00)	
12900.00	9595.94	9599.90	345.92	21.46	20.87	28.51	2064.91	2110.76	46.03	MWD (Wft MWD Svy ST00)	
13000.00	9589.46	9593.16	346.04	21.46	20.90	28.48	2160.89	2206.82	48.05	MWD (Wft MWD Svy ST00)	
13100.00	9583.40	9586.86	346.15	21.46	20.93	28.45	2257.16	2303.14	50.09	MWD (Wft MWD Svy ST00)	
13200.00	9577.69	9580.95	346.25	21.46	20.96	28.43	2353.65	2399.69	52.13	MWD (Wft MWD Svy ST00)	
13300.00	9572.60	9575.69	346.34	21.46	20.99	28.40	2450.31	2496.45	54.10	MWD (Wft MWD Svy ST00)	
13400.00	9567.95	9570.90	346.43	21.46	21.02	28.38	2547.18	2593.42	56.09	MWD (Wft MWD Svy ST00)	
13500.00	9563.57	9566.39	346.51	21.46	21.04	28.36	2644.24	2690.56	58.09	MWD (Wft MWD Svy ST00)	
13600.00	9559.44	9562.15	346.58	21.46	21.06	28.34	2741.49	2787.87	60.10	MWD (Wft MWD Svy ST00)	
13700.00	9555.53	9558.14	346.66	21.46	21.08	28.33	2838.89	2885.34	62.13	MWD (Wft MWD Svy ST00)	
13800.00	9551.84	9554.36	346.72	21.46	21.10	28.31	2936.44	2982.94	64.16	MWD (Wft MWD Svy ST00)	
13900.00	9548.33	9550.78	346.79	21.46	21.12	28.30	3034.13	3080.67	66.19	MWD (Wft MWD Svy ST00)	
14000.00	9545.01	9547.39	346.85	21.46	21.14	28.28	3131.94	3178.52	68.23	MWD (Wft MWD Svy ST00)	
14100.00	9541.82	9544.13	346.91	21.46	21.15	28.27	3229.86	3276.48	70.28	MWD (Wft MWD Svy ST00)	
14200.00	9538.78	9541.03	346.96	21.46	21.16	28.25	3327.89	3374.54	72.33	MWD (Wft MWD Svy ST00)	
14300.00	9535.88	9538.08	347.02	21.46	21.18	28.24	3426.01	3472.70	74.37	MWD (Wft MWD Svy ST00)	
14400.00	9533.12	9535.27	347.07	21.46	21.19	28.23	3524.22	3570.94	76.42	MWD (Wft MWD Svy ST00)	
14500.00	9530.48	9532.59	347.12	21.46	21.20	28.21	3622.48	3669.27	78.43	MWD (Wft MWD Svy ST00)	
14600.00	9527.96	9530.03	347.16	21.46	21.21	28.20	3720.82	3767.67	80.43	MWD (Wft MWD Svy ST00)	
14700.00	9525.55	9527.58	347.21	21.46	21.22	28.19	3819.23	3866.14	82.43	MWD (Wft MWD Svy ST00)	
14800.00	9523.24	9525.24	347.25	21.46	21.23	28.18	3917.71	3964.67	84.42	MWD (Wft MWD Svy ST00)	
14900.00	9521.03	9523.00	347.29	21.46	21.23	28.17	4016.25	4063.27	86.42	MWD (Wft MWD Svy ST00)	
15000.00	9518.91	9520.85	347.33	21.46	21.24	28.16	4114.86	4161.93	88.41	MWD (Wft MWD Svy ST00)	
15100.00	9516.87	9518.79	347.36	21.46	21.25	28.15	4213.51	4260.65	90.40	MWD (Wft MWD Svy ST00)	
15200.00	9514.92	9516.81	347.40	21.46	21.26	28.15	4312.22	4359.41	92.39	MWD (Wft MWD Svy ST00)	

5D Anti-Collision Report

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
15300.00	9513.22	9515.09	347.43	21.46	21.26	28.14	4410.98	4458.22	94.38	MWD (Wft MWD Svy ST00)	
15400.00	9511.71	9513.57	347.46	21.46	21.27	28.13	4509.79	4557.08	96.36	MWD (Wft MWD Svy ST00)	
15500.00	9510.27	9512.11	347.48	21.46	21.27	28.12	4608.64	4655.99	98.35	MWD (Wft MWD Svy ST00)	
15600.00	9508.87	9510.70	347.51	21.46	21.28	28.12	4707.54	4754.93	100.33	MWD (Wft MWD Svy ST00)	
15700.00	9507.53	9509.34	347.53	21.46	21.28	28.11	4806.47	4853.92	102.31	MWD (Wft MWD Svy ST00)	
15800.00	9506.23	9508.03	347.56	21.46	21.29	28.11	4905.44	4952.94	104.28	MWD (Wft MWD Svy ST00)	
15900.00	9504.98	9506.77	347.58	21.46	21.29	28.10	5004.44	5051.99	106.25	MWD (Wft MWD Svy ST00)	
16000.00	9503.78	9505.56	347.60	21.46	21.29	28.09	5103.48	5151.08	108.21	MWD (Wft MWD Svy ST00)	
16100.00	9502.61	9504.38	347.62	21.46	21.30	28.09	5202.55	5250.21	110.18	MWD (Wft MWD Svy ST00)	
16200.00	9501.48	9503.25	347.64	21.46	21.30	28.08	5301.65	5349.36	112.13	MWD (Wft MWD Svy ST00)	
16300.00	9500.40	9502.15	347.66	21.46	21.30	28.08	5400.78	5448.54	114.09	MWD (Wft MWD Svy ST00)	
16400.00	9499.34	9501.09	347.68	21.46	21.31	28.07	5499.93	5547.74	116.03	MWD (Wft MWD Svy ST00)	
16500.00	9498.32	9500.06	347.69	21.46	21.31	28.07	5599.11	5646.98	117.98	MWD (Wft MWD Svy ST00)	
16600.00	9497.33	9499.06	347.71	21.46	21.31	28.06	5698.31	5746.23	119.90	MWD (Wft MWD Svy ST00)	
16700.00	9496.38	9498.10	347.73	21.46	21.31	28.06	5797.53	5845.51	121.82	MWD (Wft MWD Svy ST00)	
16800.00	9495.45	9497.17	347.74	21.46	21.32	28.06	5896.77	5944.82	123.74	MWD (Wft MWD Svy ST00)	
16900.00	9494.55	9496.26	347.76	21.46	21.32	28.05	5996.04	6044.14	125.65	MWD (Wft MWD Svy ST00)	
17000.00	9493.67	9495.38	347.78	21.46	21.32	28.05	6095.32	6143.48	127.56	MWD (Wft MWD Svy ST00)	
17100.00	9492.83	9494.53	347.79	21.46	21.32	28.04	6194.63	6242.85	129.46	MWD (Wft MWD Svy ST00)	
17200.00	9492.00	9493.70	347.80	21.46	21.33	28.04	6293.95	6342.23	131.36	MWD (Wft MWD Svy ST00)	
17300.00	9491.20	9492.89	347.82	21.46	21.33	28.04	6393.29	6441.63	133.25	MWD (Wft MWD Svy ST00)	
17400.00	9490.43	9492.11	347.83	21.46	21.33	28.03	6492.64	6541.05	135.13	MWD (Wft MWD Svy ST00)	
17500.00	9489.67	9491.35	347.84	21.46	21.33	28.03	6592.01	6640.48	137.01	MWD (Wft MWD Svy ST00)	
17600.00	9488.93	9490.61	347.86	21.46	21.33	28.03	6691.40	6739.93	138.88	MWD (Wft MWD Svy ST00)	
17700.00	9488.22	9489.89	347.87	21.46	21.34	28.02	6790.80	6839.39	140.75	MWD (Wft MWD Svy ST00)	

Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
17800.00	9487.52	9489.19	347.88	21.46	21.34	28.02	6890.21	6938.87	142.61	MWD (Wft MWD Svy ST00)	
17900.00	9486.84	9488.51	347.89	21.46	21.34	28.02	6989.64	7038.36	144.46	MWD (Wft MWD Svy ST00)	
18000.00	9486.18	9487.85	347.90	21.46	21.34	28.01	7089.08	7137.87	146.31	MWD (Wft MWD Svy ST00)	
18100.00	9485.54	9487.20	347.91	21.46	21.34	28.01	7188.54	7237.39	148.16	MWD (Wft MWD Svy ST00)	
18200.00	9484.91	9486.57	347.92	21.46	21.34	28.01	7288.00	7336.92	149.99	MWD (Wft MWD Svy ST00)	
18300.00	9484.30	9485.95	347.93	21.46	21.34	28.01	7387.48	7436.46	151.82	MWD (Wft MWD Svy ST00)	
18400.00	9483.70	9485.36	347.94	21.46	21.35	28.00	7486.97	7536.01	153.65	MWD (Wft MWD Svy ST00)	
18462.51	9483.34	9484.99	347.95	21.46	21.35	28.00	7549.16	7598.25	154.78	MWD (Wft MWD Svy ST00)	

Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
0.00	11965.19	11973.07	5.56	26.40	26.08	41.46	12124.72	12146.26	563.91	MWD	
100.00	11965.19	11973.07	5.56	26.40	26.08	41.46	12023.95	12047.76	506.12	MWD	
200.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11925.47	11949.29	501.77	MWD	
300.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11827.01	11850.84	497.29	MWD	
400.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11728.57	11752.42	492.70	MWD	
500.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11630.15	11654.03	488.01	MWD	
600.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11531.74	11555.66	483.18	MWD	
700.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11433.36	11457.32	478.19	MWD	
800.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11335.01	11359.01	473.12	MWD	
900.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11236.67	11260.74	468.00	MWD	
1000.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11138.37	11162.49	462.83	MWD	
1100.00	11965.19	11973.07	5.56	26.40	26.08	41.46	11040.09	11064.27	457.62	MWD	
1200.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10941.85	10966.09	452.38	MWD	
1300.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10843.63	10867.94	447.11	MWD	
1400.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10745.44	10769.82	441.82	MWD	
1500.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10647.29	10671.74	436.51	MWD	
1600.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10549.17	10573.69	431.20	MWD	
1700.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10451.08	10475.68	425.89	MWD	
1800.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10353.03	10377.71	420.57	MWD	
1900.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10255.02	10279.78	415.22	MWD	
2000.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10157.04	10181.88	409.81	MWD	
2100.00	11965.19	11973.07	5.56	26.40	26.08	41.46	10059.10	10084.03	404.42	MWD	
2200.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9961.20	9986.22	399.04	MWD	
2300.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9863.34	9888.46	393.63	MWD	
2400.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9765.52	9790.74	388.13	MWD	
2500.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9667.74	9693.07	382.66	MWD	
2600.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9570.01	9595.44	377.21	MWD	
2700.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9472.32	9497.87	371.78	MWD	
2800.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9374.69	9400.34	366.38	MWD	
2900.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9277.10	9302.87	361.00	MWD	
3000.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9179.57	9205.45	355.65	MWD	
3100.00	11965.19	11973.07	5.56	26.40	26.08	41.46	9082.09	9108.09	350.33	MWD	
3200.00	11965.19	11973.07	5.56	26.40	26.08	41.46	8984.67	9010.79	345.03	MWD	
3300.00	11965.19	11973.07	5.56	26.40	26.08	41.46	8887.31	8913.54	339.76	MWD	
3400.00	11965.19	11973.07	9.74	26.40	26.08	41.46	8789.81	8816.16	334.49	MWD	
3500.00	11965.19	11973.07	10.55	26.40	26.08	41.46	8691.98	8718.46	329.25	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
3600.00	11965.19	11973.07	11.49	26.40	26.08	41.46	8593.85	8620.45	324.06	MWD	
3700.00	11965.19	11973.07	12.61	26.40	26.08	41.46	8495.43	8522.15	318.92	MWD	
3800.00	11965.19	11973.07	13.95	26.40	26.08	41.46	8396.75	8423.59	313.84	MWD	
3900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	8297.85	8324.81	308.79	MWD	
4000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	8198.93	8226.01	303.76	MWD	
4100.00	11965.19	11973.07	14.89	26.40	26.08	41.46	8100.04	8127.24	298.78	MWD	
4200.00	11965.19	11973.07	14.89	26.40	26.08	41.46	8001.18	8028.50	293.84	MWD	
4300.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7902.35	7929.79	288.93	MWD	
4400.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7803.55	7831.12	284.02	MWD	
4500.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7704.77	7732.48	279.14	MWD	
4600.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7606.04	7633.87	274.28	MWD	
4700.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7507.33	7535.30	269.45	MWD	
4800.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7408.67	7436.77	264.65	MWD	
4900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7310.04	7338.28	259.88	MWD	
5000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7211.45	7239.83	255.14	MWD	
5100.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7112.90	7141.42	250.42	MWD	
5200.00	11965.19	11973.07	14.89	26.40	26.08	41.46	7014.40	7043.06	245.74	MWD	
5300.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6915.93	6944.74	241.06	MWD	
5400.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6817.51	6846.47	236.41	MWD	
5500.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6719.14	6748.26	231.79	MWD	
5600.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6620.82	6650.09	227.20	MWD	
5700.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6522.56	6551.99	222.64	MWD	
5800.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6424.35	6453.94	218.11	MWD	
5900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6326.19	6355.95	213.60	MWD	
6000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6228.10	6258.02	209.13	MWD	
6100.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6130.07	6160.17	204.70	MWD	
6200.00	11965.19	11973.07	14.89	26.40	26.08	41.46	6032.11	6062.38	200.29	MWD	
6300.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5934.22	5964.66	195.92	MWD	
6400.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5836.40	5867.03	191.58	MWD	
6500.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5738.66	5769.47	187.27	MWD	
6600.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5641.00	5672.00	183.00	MWD	
6700.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5543.43	5574.61	178.77	MWD	
6800.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5445.95	5477.33	174.57	MWD	
6900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5348.57	5380.14	170.40	MWD	
7000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5251.28	5283.05	166.28	MWD	
7100.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5154.11	5186.08	162.19	MWD	
7200.00	11965.19	11973.07	14.89	26.40	26.08	41.46	5057.04	5089.23	158.14	MWD	
7300.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4960.10	4992.50	154.13	MWD	
7400.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4863.28	4895.89	150.10	MWD	
7500.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4766.58	4799.43	146.07	MWD	
7600.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4670.02	4703.12	142.08	MWD	
7700.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4573.61	4606.96	138.13	MWD	
7800.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4477.37	4510.98	134.23	MWD	
7900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4381.30	4415.17	130.37	MWD	
8000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4285.41	4319.54	126.56	MWD	
8100.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4189.73	4224.13	122.80	MWD	
8200.00	11965.19	11973.07	14.89	26.40	26.08	41.46	4094.25	4128.93	119.08	MWD	
8300.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3999.00	4033.96	115.41	MWD	
8400.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3904.00	3939.24	111.79	MWD	
8500.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3809.26	3844.78	108.23	MWD	
8600.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3714.80	3750.62	104.71	MWD	
8700.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3620.65	3656.76	101.25	MWD	
8800.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3526.82	3563.24	97.83	MWD	
8900.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3433.33	3470.08	94.41	MWD	
9000.00	11965.19	11973.07	14.89	26.40	26.08	41.46	3340.22	3377.32	91.05	MWD	
9100.00	11965.19	11973.07	14.64	26.40	26.08	41.46	3247.59	3285.03	87.75	MWD	
9200.00	11965.19	11973.07	14.08	26.40	26.08	41.46	3156.00	3193.78	84.55	MWD	
9300.00	11965.19	11973.07	13.59	26.40	26.08	41.46	3065.63	3103.80	81.31	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
9400.00	11965.19	11973.07	13.15	26.40	26.08	41.46	2976.65	3015.24	78.13	MWD	
9500.00	11965.19	11973.07	12.75	26.40	26.08	41.46	2889.24	2928.26	75.04	MWD	
9600.00	11965.19	11973.07	12.40	26.40	26.08	41.46	2803.56	2843.02	72.04	MWD	
9700.00	11965.19	11973.07	189.10	26.40	26.08	41.46	2722.87	2762.78	69.22	MWD	
9800.00	11965.19	11973.07	187.76	26.40	26.08	41.46	2655.12	2695.50	66.76	MWD	
9900.00	11965.19	11973.07	186.99	26.40	26.08	41.46	2603.62	2644.44	64.77	MWD	
10000.00	12510.00	13953.66	181.86	39.63	25.01	50.04	2523.93	2564.63	63.02	MWD	
10100.00	12510.00	14021.90	181.52	40.55	25.25	50.51	2450.60	2491.70	60.63	MWD	
10200.00	12510.00	14101.75	181.30	41.64	25.53	51.08	2390.23	2431.73	58.59	MWD	
10300.00	12510.00	14190.80	181.15	42.88	25.86	51.74	2344.59	2386.54	56.90	MWD	
10400.00	12510.00	14286.33	181.03	44.25	26.23	52.48	2314.97	2357.49	55.45	MWD	
10500.00	12510.00	14385.44	180.95	45.69	26.63	53.27	2302.49	2345.48	54.56	MWD	
10600.00	12510.00	14485.37	180.87	47.17	27.04	54.09	2299.58	2343.26	53.65	MWD	
10700.00	12510.00	14585.31	180.80	48.67	27.47	54.95	2296.80	2341.08	52.88	MWD	
10800.00	12510.00	14685.24	180.73	50.19	27.91	55.83	2293.93	2338.90	52.02	MWD	
10900.00	12510.00	14785.17	180.66	51.74	28.36	56.73	2291.06	2336.72	51.18	MWD	
11000.00	12509.80	14890.39	180.61	53.38	28.85	57.70	2288.49	2334.95	50.26	MWD	
11100.00	12509.57	14990.39	180.61	54.96	29.33	58.65	2287.50	2334.71	49.45	MWD	
11200.00	12509.35	15090.39	180.61	56.56	29.81	59.62	2286.34	2334.49	48.49	MWD	
11300.00	12509.12	15190.39	180.61	58.17	30.31	60.61	2285.25	2334.26	47.62	MWD	
11400.00	12508.90	15290.39	180.61	59.79	30.81	61.62	2284.19	2334.04	46.82	MWD	
11500.00	12508.67	15390.39	180.61	61.42	31.33	62.65	2283.10	2333.81	46.02	MWD	
11600.00	12508.45	15490.39	180.61	63.06	31.85	63.69	2281.87	2333.59	45.12	MWD	
11700.00	12508.22	15590.39	180.61	64.72	32.38	64.75	2280.63	2333.36	44.25	MWD	
11800.00	12508.00	15690.39	180.61	66.38	32.92	65.83	2279.43	2333.14	43.45	MWD	
11900.00	12507.77	15790.39	180.61	68.05	33.46	66.92	2278.10	2332.91	42.56	MWD	
12000.00	12507.55	15890.39	180.61	69.73	34.02	68.03	2276.84	2332.69	41.77	MWD	
12100.00	12507.32	15990.39	180.61	71.41	34.58	69.15	2275.57	2332.46	41.00	MWD	
12200.00	12507.10	16090.39	180.61	73.11	35.14	70.28	2274.21	2332.24	40.20	MWD	
12300.00	12506.87	16190.39	180.61	74.81	35.71	71.42	2272.94	2332.01	39.48	MWD	
12400.00	12506.65	16290.39	180.61	76.51	36.29	72.58	2271.58	2331.78	38.73	MWD	
12500.00	12506.42	16390.39	180.61	78.22	36.87	73.74	2270.20	2331.56	38.00	MWD	
12600.00	12506.20	16490.39	180.61	79.94	37.46	74.92	2268.87	2331.33	37.32	MWD	
12700.00	12505.97	16590.39	180.61	81.66	38.06	76.11	2267.54	2331.11	36.67	MWD	
12800.00	12505.74	16690.39	180.61	83.38	38.66	77.30	2266.09	2330.88	35.97	MWD	
12900.00	12505.52	16790.39	180.61	85.11	39.26	78.51	2264.67	2330.66	35.32	MWD	
13000.00	12505.29	16890.39	180.61	86.85	39.87	79.72	2263.26	2330.43	34.69	MWD	
13100.00	12505.07	16990.39	180.61	88.58	40.48	80.95	2261.86	2330.21	34.09	MWD	
13200.00	12504.84	17090.39	180.61	90.32	41.09	82.18	2260.46	2329.98	33.52	MWD	
13300.00	12504.62	17190.39	180.61	92.07	41.71	83.42	2259.05	2329.76	32.95	MWD	
13400.00	12504.39	17290.39	180.61	93.82	42.34	84.66	2257.54	2329.53	32.36	MWD	
13500.00	12504.17	17390.39	180.61	95.57	42.96	85.92	2256.02	2329.31	31.78	MWD	
13600.00	12503.94	17490.39	180.61	97.32	43.59	87.18	2254.51	2329.08	31.23	MWD	
13700.00	12503.72	17590.39	180.61	99.08	44.23	88.44	2253.00	2328.86	30.70	MWD	
13800.00	12503.49	17690.39	180.61	100.83	44.86	89.71	2251.48	2328.63	30.18	MWD	
13900.00	12503.27	17790.39	180.61	102.59	45.50	90.99	2249.97	2328.41	29.68	MWD	
14000.00	12503.04	17890.38	180.61	104.36	46.14	92.27	2248.45	2328.18	29.20	MWD	
14100.00	12502.82	17990.38	180.61	106.12	46.79	93.56	2246.93	2327.96	28.73	MWD	
14200.00	12502.59	18090.38	180.61	107.89	47.43	94.86	2245.41	2327.73	28.28	MWD	
14300.00	12502.37	18190.38	180.61	109.66	48.08	96.16	2243.88	2327.51	27.83	MWD	
14400.00	12502.14	18290.38	180.61	111.43	48.74	97.46	2242.35	2327.28	27.40	MWD	
14500.00	12501.92	18390.38	180.61	113.20	49.39	98.77	2240.81	2327.05	26.98	MWD	
14600.00	12501.69	18490.38	180.61	114.98	50.05	100.08	2239.27	2326.83	26.58	MWD	
14700.00	12501.46	18590.38	180.61	116.75	50.70	101.40	2237.73	2326.60	26.18	MWD	
14800.00	12501.24	18690.38	180.61	118.53	51.37	102.72	2236.19	2326.38	25.79	MWD	
14900.00	12501.01	18790.38	180.61	120.31	52.03	104.05	2234.64	2326.15	25.42	MWD	
15000.00	12500.79	18890.38	180.61	122.09	52.69	105.37	2233.08	2325.93	25.05	MWD	
15100.00	12500.56	18990.38	180.61	123.87	53.36	106.71	2231.53	2325.70	24.70	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
15200.00	12500.34	19090.38	180.61	125.66	54.03	108.04	2229.97	2325.48	24.35	MWD	
15300.00	12500.11	19190.38	180.61	127.44	54.70	109.38	2228.40	2325.25	24.01	MWD	
15400.00	12499.89	19290.38	180.61	129.23	55.37	110.72	2226.82	2325.03	23.67	MWD	
15500.00	12499.66	19390.38	180.61	131.02	56.04	112.07	2225.23	2324.80	23.35	MWD	
15600.00	12499.44	19490.38	180.61	132.80	56.71	113.42	2223.63	2324.58	23.03	MWD	
15700.00	12499.21	19590.38	180.62	134.59	57.39	114.77	2222.03	2324.35	22.72	MWD	
15800.00	12498.99	19690.38	180.62	136.38	58.07	116.12	2220.43	2324.13	22.41	MWD	
15900.00	12498.76	19790.38	180.62	138.17	58.75	117.48	2218.83	2323.90	22.12	MWD	
16000.00	12498.54	19890.38	180.62	139.97	59.43	118.84	2217.23	2323.68	21.83	MWD	
16100.00	12498.31	19990.38	180.62	141.76	60.11	120.20	2215.62	2323.45	21.55	MWD	
16200.00	12498.09	20090.38	180.62	143.55	60.79	121.57	2214.02	2323.23	21.27	MWD	
16300.00	12497.86	20190.38	180.62	145.35	61.47	122.93	2212.41	2323.00	21.00	MWD	
16400.00	12497.64	20290.38	180.62	147.14	62.16	124.30	2210.79	2322.78	20.74	MWD	
16500.00	12497.41	20390.38	180.62	148.94	62.84	125.67	2209.18	2322.55	20.49	MWD	
16600.00	12497.19	20490.38	180.62	150.74	63.53	127.05	2207.57	2322.33	20.24	MWD	
16700.00	12496.96	20590.38	180.62	152.53	64.22	128.42	2205.95	2322.10	19.99	MWD	
16800.00	12496.73	20690.38	180.62	154.33	64.91	129.80	2204.33	2321.87	19.75	MWD	
16900.00	12496.51	20790.38	180.62	156.13	65.60	131.18	2202.71	2321.65	19.52	MWD	
17000.00	12496.28	20890.38	180.62	157.93	66.29	132.56	2201.09	2321.42	19.29	MWD	
17100.00	12496.06	20990.38	180.62	159.73	66.98	133.95	2199.47	2321.20	19.07	MWD	
17200.00	12495.83	21090.38	180.62	161.53	67.67	135.33	2197.84	2320.97	18.85	MWD	
17300.00	12495.61	21190.38	180.62	163.33	68.36	136.72	2196.21	2320.75	18.64	MWD	
17400.00	12495.38	21290.38	180.62	165.14	69.06	138.11	2194.59	2320.52	18.43	MWD	
17500.00	12495.16	21390.38	180.62	166.94	69.75	139.50	2192.96	2320.30	18.22	MWD	
17600.00	12494.93	21490.38	180.62	168.74	70.45	140.89	2191.33	2320.07	18.02	MWD	
17700.00	12494.71	21590.38	180.62	170.55	71.15	142.28	2189.70	2319.85	17.82	MWD	
17800.00	12494.48	21690.38	180.62	172.35	71.84	143.67	2188.06	2319.62	17.63	MWD	
17900.00	12494.26	21790.37	180.62	174.16	72.54	145.07	2186.43	2319.40	17.44	MWD	
18000.00	12494.03	21890.37	180.62	175.96	73.24	146.47	2184.80	2319.17	17.26	MWD	
18100.00	12493.81	21990.37	180.62	177.77	73.94	147.87	2183.16	2318.95	17.08	MWD	
18200.00	12493.58	22090.37	180.62	179.57	74.64	149.27	2181.52	2318.72	16.90	MWD	
18300.00	12493.36	22190.37	180.62	181.38	75.34	150.67	2179.88	2318.50	16.73	MWD	
18400.00	12493.13	22290.37	180.62	183.19	76.04	152.07	2178.24	2318.27	16.56	MWD	
18462.51	12493.00	22347.61	180.62	184.22	76.44	152.87	2177.28	2318.14	16.46	MWD	

Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
0.00	-0.00	3.00	179.54	0.01	0.01	0.14	29.22	29.95	41.24	MWD	CC (Lo)
100.00	100.00	103.00	179.54	0.12	0.12	4.60	29.00	29.95	31.52	MWD	CC (Lo)
200.00	200.00	203.00	179.54	0.34	0.34	4.62	28.55	29.95	21.40	MWD	CC (Lo)
300.00	300.00	303.00	179.54	0.57	0.57	4.65	28.10	29.95	16.20	MWD	CC (Lo)
400.00	400.00	403.00	179.54	0.79	0.79	4.70	27.65	29.95	13.03	MWD	CC (Lo)
500.00	500.00	503.00	179.54	1.02	1.02	4.75	27.20	29.95	10.90	MWD	CC (Lo)
600.00	600.00	603.00	179.54	1.24	1.24	4.82	26.75	29.95	9.37	MWD	CC (Lo)
700.00	700.00	703.00	179.54	1.47	1.47	4.89	26.30	29.95	8.21	MWD	CC (Lo)
800.00	800.00	803.00	179.54	1.69	1.69	4.97	25.85	29.95	7.31	MWD	CC (Lo)
900.00	900.00	903.00	179.54	1.92	1.92	5.07	25.40	29.95	6.59	MWD	CC (Lo)
1000.00	1000.00	1003.00	179.54	2.14	2.14	5.17	24.95	29.95	5.99	MWD	CC (Lo)
1100.00	1100.00	1103.00	179.54	2.37	2.37	5.27	24.51	29.95	5.50	MWD	CC (Lo)
1200.00	1200.00	1203.00	179.54	2.59	2.59	5.39	24.06	29.95	5.08	MWD	CC (Lo)
1300.00	1300.00	1303.00	179.54	2.82	2.82	5.50	23.61	29.95	4.72	MWD	CC (Lo)
1400.00	1400.00	1403.00	179.54	3.04	3.04	5.63	23.16	29.95	4.41	MWD	CC (Lo)
1500.00	1500.00	1503.00	179.54	3.27	3.27	5.76	22.71	29.95	4.13	MWD	CC (Lo)
1600.00	1600.00	1603.00	179.54	3.49	3.49	5.90	22.26	29.95	3.89	MWD	CC (Lo)
1700.00	1700.00	1703.00	179.54	3.72	3.72	6.03	21.81	29.95	3.68	MWD	CC (Lo)
1800.00	1800.00	1803.00	179.54	3.94	3.94	6.18	21.36	29.95	3.49	MWD	CC (Lo)
1900.00	1900.00	1903.00	179.54	4.17	4.17	6.33	20.91	29.95	3.31	MWD	CC (Lo)

3D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
2000.00	2000.00	2003.00	179.54	4.39	4.39	6.48	20.46	29.95	3.16	MWD	CC (Lo)
2100.00	2100.00	2103.00	179.54	4.61	4.61	6.63	20.01	29.95	3.01	MWD	CC (Lo)
2200.00	2200.00	2203.00	179.54	4.84	4.84	6.79	19.56	29.95	2.88	MWD	CC (Lo)
2300.00	2300.00	2303.00	179.54	5.06	5.06	6.95	19.11	29.95	2.76	MWD	CC (Lo)
2400.00	2400.00	2403.00	179.54	5.29	5.29	7.11	18.66	29.95	2.65	MWD	CC (Lo)
2500.00	2500.00	2503.00	179.54	5.51	5.51	7.28	18.21	29.95	2.55	MWD	CC (Lo)
2600.00	2600.00	2603.00	179.54	5.74	5.74	7.45	17.76	29.95	2.46	MWD	SF(Lo); CC (Lo)
2700.00	2700.00	2703.00	179.54	5.96	5.96	7.62	17.31	29.95	2.37	MWD	SF(Lo); CC (Lo)
2800.00	2800.00	2803.00	179.54	6.19	6.19	7.80	16.86	29.95	2.29	MWD	SF(Lo); CC (Lo)
2900.00	2900.00	2903.00	179.54	6.41	6.41	7.97	16.41	29.95	2.21	MWD	SF(Lo); CC (Lo)
3000.00	3000.00	3003.00	179.54	6.64	6.64	8.15	15.96	29.95	2.14	MWD	SF(Lo); CC (Lo)
3100.00	3100.00	3103.00	179.54	6.86	6.86	8.34	15.51	29.95	2.07	MWD	SF(Lo); CC (Lo)
3200.00	3200.00	3203.00	179.54	7.09	7.09	8.52	15.06	29.95	2.01	MWD	SF(Lo); CC (Lo)
3300.00	3300.00	3303.00	179.54	7.31	7.31	8.71	14.61	29.95	1.95	MWD	SF(Lo); CC (Lo)
3400.00	3399.99	3402.99	182.94	7.54	7.54	8.90	15.05	30.82	1.95	MWD	SF(Lo)
3500.00	3499.98	3502.98	182.71	7.76	7.76	9.09	17.23	33.44	2.06	MWD	SF(Lo)
3600.00	3600.53	3603.53	182.38	7.99	7.99	9.29	20.23	36.87	2.22	MWD	SF(Lo)
3700.00	3701.11	3704.15	181.97	8.21	8.21	9.49	23.19	40.28	2.36	MWD	SF(Lo)
3800.00	3801.69	3804.83	181.50	8.44	8.43	9.69	26.18	43.69	2.49	MWD	SF(Lo)
3900.00	3901.46	3904.75	181.03	8.66	8.66	9.90	29.85	47.83	2.66	MWD	
4000.00	4001.22	4004.65	180.63	8.89	8.88	10.10	33.82	52.29	2.83	MWD	
4100.00	4100.98	4104.55	180.30	9.11	9.11	10.31	37.86	56.74	3.01	MWD	
4200.00	4200.74	4204.45	180.01	9.34	9.33	10.53	41.87	61.20	3.17	MWD	
4300.00	4300.50	4304.35	179.76	9.56	9.56	10.74	45.88	65.66	3.32	MWD	
4400.00	4400.25	4404.25	179.55	9.79	9.78	10.96	49.89	70.12	3.47	MWD	
4500.00	4500.01	4504.15	179.35	10.02	10.01	11.19	53.88	74.59	3.60	MWD	
4600.00	4599.77	4604.05	179.18	10.25	10.23	11.41	57.92	79.05	3.74	MWD	
4700.00	4699.53	4703.95	179.03	10.48	10.46	11.64	61.90	83.51	3.86	MWD	
4800.00	4799.29	4803.85	178.90	10.71	10.68	11.88	65.90	87.98	3.98	MWD	
4900.00	4899.05	4903.75	178.78	10.94	10.91	12.12	69.90	92.44	4.10	MWD	
5000.00	4998.81	5003.65	178.66	11.17	11.13	12.36	73.91	96.91	4.21	MWD	
5100.00	5098.56	5103.55	178.56	11.40	11.36	12.60	77.92	101.37	4.32	MWD	
5200.00	5198.32	5203.45	178.47	11.63	11.59	12.85	81.93	105.84	4.43	MWD	
5300.00	5298.08	5303.35	178.38	11.87	11.81	13.10	85.94	110.30	4.53	MWD	
5400.00	5397.84	5403.25	178.30	12.10	12.04	13.36	89.95	114.77	4.62	MWD	
5500.00	5497.60	5503.15	178.23	12.33	12.26	13.62	93.96	119.24	4.72	MWD	
5600.00	5597.36	5603.05	178.16	12.56	12.49	13.89	97.98	123.70	4.81	MWD	
5700.00	5697.12	5702.95	178.10	12.80	12.72	14.16	101.99	128.17	4.90	MWD	
5800.00	5796.88	5802.85	178.04	13.03	12.94	14.43	106.00	132.64	4.98	MWD	
5900.00	5896.63	5902.75	177.99	13.27	13.17	14.71	110.01	137.10	5.06	MWD	
6000.00	5996.39	6002.65	177.94	13.50	13.40	14.99	114.02	141.57	5.14	MWD	
6100.00	6096.15	6102.55	177.89	13.74	13.62	15.28	118.03	146.04	5.22	MWD	
6200.00	6195.91	6202.45	177.84	13.97	13.85	15.57	122.05	150.50	5.29	MWD	
6300.00	6295.67	6302.35	177.80	14.21	14.08	15.86	126.06	154.97	5.36	MWD	
6400.00	6395.43	6402.25	177.76	14.44	14.30	16.17	130.07	159.44	5.43	MWD	
6500.00	6495.19	6502.15	177.72	14.68	14.53	16.47	134.08	163.91	5.50	MWD	
6600.00	6594.94	6602.05	177.68	14.91	14.76	16.78	138.09	168.37	5.56	MWD	
6700.00	6694.70	6701.95	177.65	15.15	14.98	17.10	142.10	172.84	5.62	MWD	
6800.00	6794.46	6801.85	177.62	15.38	15.21	17.42	146.11	177.31	5.68	MWD	
6900.00	6894.22	6901.75	177.59	15.62	15.44	17.74	150.12	181.78	5.74	MWD	
7000.00	6993.98	7001.65	177.56	15.86	15.66	18.07	154.14	186.24	5.80	MWD	
7100.00	7093.74	7101.55	177.53	16.09	15.89	18.40	158.15	190.71	5.86	MWD	
7200.00	7193.50	7201.45	177.50	16.33	16.12	18.74	162.16	195.18	5.91	MWD	

Generated by 3D Anti-Collision v1.0.0

Report Date: 14 September 2017 14:05:07 UTC

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
7300.00	7293.26	7301.35	177.48	16.57	16.34	19.09	166.17	199.65	5.96	MWD	
7400.00	7393.01	7401.25	177.45	16.80	16.57	19.44	170.18	204.12	6.01	MWD	
7500.00	7492.77	7501.15	177.43	17.04	16.80	19.79	174.19	208.58	6.06	MWD	
7600.00	7592.53	7601.05	177.41	17.28	17.02	20.15	178.20	213.05	6.11	MWD	
7700.00	7692.29	7700.95	177.38	17.51	17.25	20.52	182.21	217.52	6.16	MWD	
7800.00	7792.05	7800.85	177.36	17.75	17.48	20.89	186.22	221.99	6.21	MWD	
7900.00	7891.81	7900.75	177.34	17.99	17.70	21.27	190.23	226.46	6.25	MWD	
8000.00	7991.57	8000.65	177.33	18.23	17.93	21.65	194.24	230.92	6.29	MWD	
8100.00	8091.32	8100.55	177.31	18.46	18.16	22.04	198.25	235.39	6.34	MWD	
8200.00	8191.08	8200.45	177.29	18.70	18.39	22.43	202.26	239.86	6.38	MWD	
8300.00	8290.84	8300.35	177.27	18.94	18.61	22.83	206.27	244.33	6.42	MWD	
8400.00	8390.60	8400.25	177.26	19.18	18.84	23.23	210.28	248.80	6.46	MWD	
8500.00	8490.36	8500.15	177.24	19.42	19.07	23.64	214.29	253.26	6.50	MWD	
8600.00	8590.12	8600.05	177.22	19.65	19.29	24.05	218.30	257.73	6.54	MWD	
8700.00	8689.88	8699.95	177.21	19.89	19.52	24.48	222.31	262.20	6.57	MWD	
8800.00	8789.64	8799.85	177.20	20.13	19.75	24.90	226.32	266.67	6.61	MWD	
8900.00	8889.39	8899.75	177.18	20.37	19.98	25.33	230.33	271.14	6.64	MWD	
9000.00	8989.15	8999.65	177.17	20.61	20.20	25.77	234.34	275.61	6.68	MWD	
9100.00	9088.92	9099.56	177.15	20.85	20.43	26.21	238.21	279.92	6.71	MWD	
9200.00	9185.96	9196.73	177.13	21.06	20.64	26.65	241.00	283.10	6.73	MWD	
9300.00	9281.16	9291.98	177.13	21.23	20.80	27.08	243.62	286.04	6.74	MWD	
9400.00	9376.35	9387.18	177.14	21.40	20.96	27.52	246.17	288.90	6.76	MWD	
9500.00	9460.15	9471.00	177.17	21.53	21.07	27.91	249.52	292.43	6.82	MWD	
9600.00	9525.26	9536.49	177.32	21.61	20.99	28.21	261.01	303.85	7.09	MWD	
9700.00	9587.77	9600.51	356.22	21.67	20.77	28.49	277.11	319.55	7.53	MWD	
9800.00	9647.95	9664.10	356.46	21.69	20.41	28.75	287.53	329.26	7.89	MWD	
9900.00	9705.32	9727.48	356.64	21.71	19.93	28.99	291.78	332.60	8.15	MWD	
10000.00	9759.37	9790.86	356.77	21.71	19.35	29.21	289.89	329.55	8.31	MWD	
10100.00	9809.58	9854.41	356.86	21.72	18.69	29.40	281.83	320.12	8.36	MWD	
10200.00	9855.43	9918.34	356.91	21.73	17.99	29.59	267.51	304.42	8.25	MWD	
10300.00	9896.39	9982.88	356.93	21.76	17.28	29.76	247.10	282.58	7.96	MWD	
10400.00	9931.92	10048.27	356.92	21.83	16.60	29.93	220.64	254.82	7.46	MWD	
10500.00	9961.44	10114.85	356.86	21.93	16.01	30.10	188.31	221.40	6.69	MWD	
10600.00	9984.77	10184.78	357.07	22.09	15.55	30.29	157.56	189.91	5.87	MWD	
10700.00	10000.65	10259.49	357.54	22.33	15.31	30.50	138.50	170.59	5.32	MWD	
10800.00	10006.94	10336.76	358.26	22.63	15.36	30.73	131.99	164.45	5.07	MWD	
10900.00	10007.00	10434.37	359.26	23.14	15.54	31.08	133.56	166.45	5.06	MWD	
11000.00	10007.00	10534.33	359.99	23.78	15.75	31.50	134.59	167.99	5.03	MWD	
11100.00	10007.00	10634.33	359.99	24.54	15.99	31.98	133.99	168.00	4.94	MWD	
11200.00	10007.00	10734.33	359.99	25.40	16.26	32.51	133.35	168.00	4.85	MWD	
11300.00	10007.00	10834.33	359.99	26.37	16.55	33.11	132.67	168.00	4.76	MWD	
11400.00	10007.00	10934.33	359.99	27.42	16.88	33.75	131.98	168.00	4.66	MWD	
11500.00	10007.00	11034.33	359.99	28.55	17.23	34.45	131.24	168.00	4.57	MWD	
11600.00	10007.00	11134.33	359.99	29.75	17.60	35.19	130.41	168.00	4.47	MWD	
11700.00	10007.00	11234.33	359.99	31.02	17.99	35.98	129.60	168.00	4.37	MWD	
11800.00	10007.00	11334.33	359.99	32.33	18.41	36.81	128.77	168.00	4.28	MWD	
11900.00	10007.00	11434.33	359.99	33.70	18.84	37.68	127.75	168.00	4.17	MWD	
12000.00	10007.00	11534.33	359.99	35.10	19.29	38.59	126.81	168.00	4.08	MWD	
12100.00	10007.00	11634.33	359.99	36.54	19.76	39.53	125.92	168.00	3.99	MWD	
12200.00	10007.00	11734.33	359.99	38.02	20.25	40.50	124.81	168.00	3.89	MWD	
12300.00	10007.00	11834.33	359.99	39.53	20.75	41.50	123.85	168.00	3.80	MWD	
12400.00	10007.00	11934.33	359.99	41.06	21.26	42.52	122.75	168.00	3.71	MWD	
12500.00	10007.00	12034.33	359.99	42.61	21.79	43.58	121.71	168.00	3.63	MWD	
12600.00	10007.00	12134.33	359.99	44.19	22.33	44.65	120.56	168.00	3.54	MWD	
12700.00	10007.00	12234.33	359.99	45.79	22.87	45.75	119.53	168.00	3.47	MWD	
12800.00	10007.00	12334.33	359.99	47.40	23.43	46.87	118.30	168.00	3.38	MWD	
12900.00	10007.00	12434.33	359.99	49.02	24.00	48.00	117.18	168.00	3.31	MWD	
13000.00	10007.00	12534.33	359.99	50.66	24.58	49.16	115.94	168.00	3.23	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
13100.00	10007.00	12634.33	359.99	52.32	25.16	50.33	114.78	168.00	3.16	MWD	
13200.00	10007.00	12734.33	359.99	53.98	25.76	51.51	113.66	168.00	3.09	MWD	
13300.00	10007.00	12834.33	359.99	55.66	26.36	52.71	112.52	168.00	3.03	MWD	
13400.00	10007.00	12934.33	359.99	57.34	26.96	53.92	111.21	168.00	2.96	MWD	
13500.00	10007.00	13034.33	359.99	59.03	27.57	55.15	109.92	168.00	2.89	MWD	
13600.00	10007.00	13134.33	359.99	60.73	28.19	56.39	108.64	168.00	2.83	MWD	
13700.00	10007.00	13234.33	359.99	62.44	28.82	57.63	107.37	168.00	2.77	MWD	
13800.00	10007.00	13334.33	359.99	64.15	29.45	58.89	106.09	168.00	2.71	MWD	
13900.00	10007.00	13434.33	359.99	65.87	30.08	60.16	104.82	168.00	2.66	MWD	
14000.00	10007.00	13534.33	360.00	67.60	30.72	61.43	103.55	168.00	2.61	MWD	
14100.00	10007.00	13634.33	360.00	69.33	31.36	62.72	102.28	168.00	2.56	MWD	
14200.00	10007.00	13734.33	360.00	71.06	32.00	64.01	101.00	168.00	2.51	MWD	
14300.00	10007.00	13834.33	360.00	72.81	32.65	65.31	99.71	168.00	2.46	MWD	SF(Lo)
14400.00	10007.00	13934.33	360.00	74.55	33.31	66.62	98.43	168.00	2.41	MWD	SF(Lo)
14500.00	10007.00	14034.33	360.00	76.30	33.96	67.93	97.14	168.00	2.37	MWD	SF(Lo)
14600.00	10007.00	14134.33	360.00	78.05	34.62	69.25	95.84	168.00	2.33	MWD	SF(Lo)
14700.00	10007.00	14234.33	360.00	79.80	35.29	70.57	94.54	168.00	2.29	MWD	SF(Lo)
14800.00	10007.00	14334.33	360.00	81.56	35.95	71.90	93.21	168.00	2.25	MWD	SF(Lo)
14900.00	10007.00	14434.33	360.00	83.32	36.62	73.24	91.87	168.00	2.21	MWD	SF(Lo)
15000.00	10007.00	14534.33	360.00	85.09	37.29	74.58	90.53	168.00	2.17	MWD	SF(Lo)
15100.00	10007.00	14634.33	360.00	86.86	37.96	75.92	89.19	168.00	2.13	MWD	SF(Lo)
15200.00	10007.00	14734.33	360.00	88.62	38.64	77.27	87.85	168.00	2.10	MWD	SF(Lo)
15300.00	10007.00	14834.33	360.00	90.40	39.31	78.63	86.50	168.00	2.06	MWD	SF(Lo)
15400.00	10007.00	14934.33	360.00	92.17	39.99	79.99	85.13	168.00	2.03	MWD	SF(Lo)
15500.00	10007.00	15034.33	360.00	93.95	40.67	81.35	83.75	168.00	1.99	MWD	SF(Lo)
15600.00	10007.00	15134.33	360.00	95.72	41.36	82.71	82.37	168.00	1.96	MWD	SF(Lo)
15700.00	10007.00	15234.33	360.00	97.50	42.04	84.08	80.99	168.00	1.93	MWD	SF(Lo)
15800.00	10007.00	15334.33	360.00	99.28	42.73	85.45	79.60	168.00	1.90	MWD	SF(Lo)
15900.00	10007.00	15434.33	360.00	101.07	43.41	86.83	78.22	168.00	1.87	MWD	SF(Lo)
16000.00	10007.00	15534.33	360.00	102.85	44.10	88.21	76.83	168.00	1.84	MWD	SF(Lo)
16100.00	10007.00	15634.33	360.00	104.64	44.79	89.59	75.44	168.00	1.81	MWD	SF(Lo)
16200.00	10007.00	15734.33	360.00	106.42	45.49	90.97	74.04	168.00	1.79	MWD	SF(Lo)
16300.00	10007.00	15834.33	360.00	108.21	46.18	92.36	72.65	168.00	1.76	MWD	SF(Lo)
16400.00	10007.00	15934.33	360.00	110.00	46.87	93.75	71.25	168.00	1.74	MWD	SF(Lo)
16500.00	10007.00	16034.33	360.00	111.79	47.57	95.14	69.85	168.00	1.71	MWD	SF(Lo)
16600.00	10007.00	16134.33	360.00	113.59	48.27	96.53	68.45	168.00	1.69	MWD	SF(Lo)
16700.00	10007.00	16234.33	360.00	115.38	48.96	97.93	67.05	168.00	1.66	MWD	SF(Lo)
16800.00	10007.00	16334.33	360.00	117.17	49.66	99.32	65.64	168.00	1.64	MWD	SF(Lo)
16900.00	10007.00	16434.33	360.00	118.97	50.36	100.72	64.24	168.00	1.62	MWD	SF(Lo)
17000.00	10007.00	16534.33	360.00	120.77	51.06	102.12	62.83	168.00	1.60	MWD	SF(Lo)
17100.00	10007.00	16634.33	360.00	122.56	51.76	103.53	61.42	168.00	1.58	MWD	SF(Lo)
17200.00	10007.00	16734.33	360.00	124.36	52.47	104.93	60.01	168.00	1.56	MWD	SF(Lo)
17300.00	10007.00	16834.33	360.00	126.16	53.17	106.34	58.60	168.00	1.54	MWD	SF(Lo)
17400.00	10007.00	16934.33	360.00	127.96	53.87	107.75	57.19	168.00	1.52	MWD	SF(Lo)
17500.00	10007.00	17034.33	360.00	129.76	54.58	109.16	55.77	168.00	1.50	MWD	SF(Med)
17600.00	10007.00	17134.33	360.00	131.56	55.28	110.57	54.36	168.00	1.48	MWD	SF(Med)
17700.00	10007.00	17234.33	360.00	133.37	55.99	111.98	52.94	168.00	1.46	MWD	SF(Med)
17800.00	10007.00	17334.33	360.00	135.17	56.70	113.39	51.52	168.00	1.44	MWD	SF(Med)
17900.00	10007.00	17434.33	360.00	136.97	57.40	114.81	50.11	168.00	1.43	MWD	SF(Med)
18000.00	10007.00	17534.33	360.00	138.78	58.11	116.23	48.69	168.00	1.41	MWD	SF(Med)
18100.00	10007.00	17634.33	360.00	140.58	58.82	117.64	47.26	168.00	1.39	MWD	SF(Med)
18200.00	10007.00	17734.33	360.00	142.39	59.53	119.06	45.84	168.00	1.38	MWD	SF(Med)
18300.00	10007.00	17834.33	360.00	144.19	60.24	120.48	44.42	168.00	1.36	MWD	SF(Med)
18400.00	10007.00	17934.33	360.00	146.00	60.95	121.90	43.00	168.00	1.34	MWD	SF(Med)
18462.51	10007.00	17996.84	0.00	147.13	61.40	122.79	42.11	168.00	1.33	MWD	SF(Med)

SD Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool Risk
0.00	-0.00	5.00	179.58	0.01	0.01	0.23	79.29	79.94	121.96	MWD
100.00	100.00	105.00	179.58	0.12	0.12	4.60	79.06	79.94	90.65	MWD
200.00	200.00	205.00	179.58	0.35	0.35	4.62	78.61	79.94	60.04	MWD
300.00	300.00	305.00	179.58	0.57	0.57	4.65	78.16	79.94	44.89	MWD
400.00	400.00	405.00	179.58	0.80	0.80	4.70	77.71	79.94	35.84	MWD
500.00	500.00	505.00	179.58	1.02	1.02	4.75	77.26	79.94	29.83	MWD
600.00	600.00	605.00	179.58	1.25	1.25	4.82	76.81	79.94	25.54	MWD
700.00	700.00	705.00	179.58	1.47	1.47	4.89	76.36	79.94	22.34	MWD
800.00	800.00	805.00	179.58	1.70	1.70	4.98	75.91	79.94	19.84	MWD
900.00	900.00	905.00	179.58	1.92	1.92	5.07	75.46	79.94	17.85	MWD
1000.00	1000.00	1005.00	179.58	2.15	2.15	5.17	75.01	79.94	16.22	MWD
1100.00	1100.00	1105.00	179.58	2.37	2.37	5.27	74.56	79.94	14.87	MWD
1200.00	1200.00	1205.00	179.58	2.60	2.60	5.39	74.12	79.94	13.72	MWD
1300.00	1300.00	1305.00	179.58	2.82	2.82	5.51	73.67	79.94	12.74	MWD
1400.00	1400.00	1405.00	179.58	3.05	3.05	5.63	73.22	79.94	11.89	MWD
1500.00	1500.00	1505.00	179.58	3.27	3.27	5.76	72.77	79.94	11.14	MWD
1600.00	1600.00	1605.00	179.58	3.50	3.50	5.90	72.32	79.94	10.48	MWD
1700.00	1700.00	1705.00	179.58	3.72	3.72	6.04	71.87	79.94	9.90	MWD
1800.00	1800.00	1805.00	179.58	3.94	3.94	6.18	71.42	79.94	9.38	MWD
1900.00	1900.00	1905.00	179.58	4.17	4.17	6.33	70.97	79.94	8.91	MWD
2000.00	2000.00	2005.00	179.58	4.39	4.39	6.48	70.52	79.94	8.48	MWD
2100.00	2100.00	2105.00	179.58	4.62	4.62	6.63	70.07	79.94	8.10	MWD
2200.00	2200.00	2205.00	179.58	4.84	4.84	6.79	69.62	79.94	7.74	MWD
2300.00	2300.00	2305.00	179.58	5.07	5.07	6.95	69.17	79.94	7.42	MWD
2400.00	2400.00	2405.00	179.58	5.29	5.29	7.12	68.72	79.94	7.12	MWD
2500.00	2500.00	2505.00	179.58	5.52	5.52	7.28	68.27	79.94	6.85	MWD
2600.00	2600.00	2605.00	179.58	5.74	5.74	7.45	67.82	79.94	6.60	MWD
2700.00	2700.00	2705.00	179.58	5.97	5.97	7.62	67.37	79.94	6.36	MWD
2800.00	2800.00	2805.00	179.58	6.19	6.19	7.80	66.92	79.94	6.14	MWD
2900.00	2900.00	2905.00	179.58	6.42	6.42	7.98	66.47	79.94	5.94	MWD
3000.00	3000.00	3005.00	179.58	6.64	6.64	8.16	66.02	79.94	5.74	MWD
3100.00	3100.00	3105.00	179.58	6.87	6.87	8.34	65.57	79.94	5.56	MWD
3200.00	3200.00	3205.00	179.58	7.09	7.09	8.52	65.12	79.94	5.39	MWD
3300.00	3300.00	3305.00	179.58	7.32	7.32	8.71	64.67	79.94	5.24	MWD
3400.00	3399.99	3404.99	183.02	7.54	7.54	8.90	65.11	80.81	5.15	MWD
3500.00	3499.96	3504.96	182.93	7.77	7.77	9.10	67.27	83.43	5.16	MWD
3600.00	3599.86	3604.86	182.79	7.99	7.99	9.29	71.19	87.78	5.29	MWD
3700.00	3699.68	3704.68	182.61	8.22	8.22	9.49	76.83	93.88	5.51	MWD
3800.00	3799.37	3804.37	182.41	8.44	8.44	9.69	84.22	101.72	5.81	MWD
3900.00	3898.92	3903.92	182.21	8.66	8.66	9.90	93.21	111.16	6.19	MWD
4000.00	3998.44	4003.44	182.03	8.89	8.89	10.10	102.51	120.91	6.57	MWD
4100.00	4097.96	4102.96	181.88	9.11	9.11	10.31	111.82	130.67	6.93	MWD
4200.00	4197.49	4202.49	181.75	9.33	9.33	10.53	121.12	140.42	7.27	MWD
4300.00	4297.01	4302.01	181.63	9.56	9.56	10.74	130.43	150.18	7.61	MWD
4400.00	4396.53	4401.53	181.53	9.78	9.78	10.96	139.75	159.93	7.92	MWD
4500.00	4496.05	4501.05	181.45	10.01	10.01	11.18	149.06	169.69	8.23	MWD
4600.00	4595.58	4600.58	181.37	10.23	10.23	11.41	158.38	179.45	8.52	MWD
4700.00	4695.10	4700.10	181.30	10.45	10.45	11.64	167.68	189.20	8.79	MWD
4800.00	4794.62	4799.62	181.23	10.68	10.68	11.87	176.98	198.96	9.05	MWD
4900.00	4894.14	4899.14	181.18	10.90	10.90	12.11	186.28	208.72	9.30	MWD
5000.00	4993.67	4998.67	181.12	11.12	11.12	12.35	195.59	218.48	9.55	MWD
5100.00	5093.19	5098.19	181.08	11.35	11.35	12.59	204.89	228.23	9.78	MWD
5200.00	5192.71	5197.71	181.03	11.57	11.57	12.84	214.20	237.99	10.00	MWD
5300.00	5292.23	5297.23	180.99	11.80	11.80	13.09	223.50	247.75	10.22	MWD
5400.00	5391.76	5396.76	180.95	12.02	12.02	13.35	232.81	257.51	10.42	MWD
5500.00	5491.28	5496.28	180.92	12.24	12.24	13.61	242.11	267.27	10.62	MWD
5600.00	5590.80	5595.80	180.89	12.47	12.47	13.87	251.42	277.02	10.82	MWD
5700.00	5690.32	5695.32	180.86	12.69	12.69	14.14	260.72	286.78	11.00	MWD

Secondary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
5800.00	5789.85	5794.85	180.83	12.91	12.91	14.41	270.03	296.54	11.18	MWD	
5900.00	5889.37	5894.37	180.80	13.14	13.14	14.69	279.33	306.30	11.36	MWD	
6000.00	5988.89	5993.89	180.78	13.36	13.36	14.97	288.64	316.06	11.52	MWD	
6100.00	6088.42	6093.42	180.75	13.58	13.58	15.25	297.94	325.82	11.69	MWD	
6200.00	6187.94	6192.94	180.73	13.81	13.81	15.54	307.24	335.58	11.84	MWD	
6300.00	6287.46	6292.46	180.71	14.03	14.03	15.84	316.55	345.34	12.00	MWD	
6400.00	6386.98	6391.98	180.69	14.26	14.26	16.13	325.85	355.10	12.14	MWD	
6500.00	6486.51	6491.51	180.67	14.48	14.48	16.44	335.16	364.85	12.29	MWD	
6600.00	6586.03	6591.03	180.66	14.70	14.70	16.75	344.46	374.61	12.42	MWD	
6700.00	6685.55	6690.55	180.64	14.93	14.93	17.06	353.77	384.37	12.56	MWD	
6800.00	6785.07	6790.07	180.62	15.15	15.15	17.38	363.07	394.13	12.69	MWD	
6900.00	6884.60	6889.60	180.61	15.37	15.37	17.70	372.38	403.89	12.82	MWD	
7000.00	6984.12	6989.12	180.59	15.60	15.60	18.03	381.68	413.65	12.94	MWD	
7100.00	7083.64	7088.64	180.58	15.82	15.82	18.36	390.98	423.41	13.06	MWD	
7200.00	7183.16	7188.16	180.57	16.05	16.05	18.70	400.29	433.17	13.17	MWD	
7300.00	7282.69	7287.69	180.55	16.27	16.27	19.04	409.59	442.93	13.29	MWD	
7400.00	7382.21	7387.21	180.54	16.49	16.49	19.39	418.90	452.69	13.40	MWD	
7500.00	7481.73	7486.73	180.53	16.72	16.72	19.74	428.20	462.45	13.50	MWD	
7600.00	7581.25	7586.25	180.52	16.94	16.94	20.10	437.51	472.21	13.61	MWD	
7700.00	7680.78	7685.78	180.51	17.16	17.16	20.46	446.81	481.96	13.71	MWD	
7800.00	7780.30	7785.30	180.50	17.39	17.39	20.83	456.11	491.72	13.81	MWD	
7900.00	7879.82	7884.82	180.49	17.61	17.61	21.21	465.42	501.48	13.90	MWD	
8000.00	7979.34	7984.34	180.48	17.84	17.84	21.59	474.72	511.24	14.00	MWD	
8100.00	8078.87	8083.87	180.47	18.06	18.06	21.97	484.02	521.00	14.09	MWD	
8200.00	8178.39	8183.39	180.46	18.28	18.28	22.36	493.33	530.76	14.18	MWD	
8300.00	8277.91	8282.91	180.45	18.51	18.51	22.76	502.63	540.52	14.27	MWD	
8400.00	8377.43	8382.43	180.45	18.73	18.73	23.16	511.93	550.28	14.35	MWD	
8500.00	8476.96	8481.96	180.44	18.95	18.95	23.57	521.24	560.04	14.43	MWD	
8600.00	8576.48	8581.48	180.43	19.18	19.18	23.98	530.54	569.80	14.51	MWD	
8700.00	8676.00	8681.00	180.42	19.40	19.40	24.40	539.84	579.56	14.59	MWD	
8800.00	8775.53	8780.53	180.42	19.63	19.63	24.82	549.15	589.32	14.67	MWD	
8900.00	8875.05	8880.05	180.41	19.85	19.85	25.25	558.45	599.08	14.75	MWD	
9000.00	8974.57	8979.57	180.40	20.07	20.07	25.69	567.75	608.84	14.82	MWD	
9100.00	9033.52	9038.55	180.40	20.19	20.17	25.94	579.76	621.00	15.06	MWD	
9200.00	9080.06	9085.36	180.42	20.28	20.15	26.15	598.47	639.71	15.51	MWD	
9300.00	9124.60	9130.70	180.45	20.36	20.06	26.33	623.38	664.56	16.14	MWD	
9400.00	9166.64	9174.27	180.49	20.43	19.89	26.51	654.31	695.18	17.01	MWD	
9500.00	9205.87	9215.87	180.54	20.49	19.68	26.67	690.69	731.16	18.07	MWD	
9600.00	9242.09	9255.36	180.59	20.56	19.42	26.81	731.92	772.05	19.24	MWD	
9700.00	9276.10	9293.66	359.31	20.62	19.13	26.95	773.21	812.78	20.54	MWD	
9800.00	9309.32	9332.50	359.40	20.70	18.80	27.07	804.81	843.76	21.66	MWD	
9900.00	9341.41	9371.74	359.47	20.78	18.43	27.20	826.21	864.48	22.59	MWD	
10000.00	9372.06	9411.21	359.53	20.87	18.03	27.31	837.28	874.76	23.34	MWD	
10100.00	9400.98	9450.75	359.58	20.98	17.60	27.42	837.85	874.50	23.86	MWD	
10200.00	9427.91	9490.21	359.63	21.08	17.17	27.53	827.94	863.71	24.14	MWD	
10300.00	9452.65	9529.42	359.67	21.22	16.73	27.63	807.54	842.49	24.11	MWD	
10400.00	9475.03	9568.23	359.72	21.36	16.31	27.72	776.92	811.01	23.79	MWD	
10500.00	9494.91	9606.42	359.77	21.51	15.90	27.82	736.12	769.56	23.01	MWD	
10600.00	9512.88	9645.33	359.85	21.70	15.52	27.92	692.56	725.25	22.18	MWD	
10700.00	9529.40	9686.77	359.94	21.90	15.15	28.02	655.07	687.31	21.32	MWD	
10800.00	9543.82	9730.54	0.05	22.15	14.82	28.14	624.54	656.35	20.63	MWD	
10900.00	9555.47	9776.28	0.17	22.43	14.55	28.27	601.24	632.92	19.98	MWD	
11000.00	9563.76	9823.49	0.02	22.74	14.37	28.40	585.13	616.87	19.44	MWD	
11100.00	9568.24	9871.64	360.00	23.09	14.31	28.56	575.47	607.56	18.93	MWD	
11200.00	9569.00	9940.50	360.00	23.63	14.40	28.80	573.27	606.00	18.51	MWD	
11300.00	9569.00	10040.50	360.00	24.50	14.60	29.20	572.70	606.00	18.20	MWD	
11400.00	9569.00	10140.50	360.00	25.47	14.83	29.66	572.10	606.00	17.87	MWD	
11500.00	9569.00	10240.50	360.00	26.53	15.10	30.20	571.43	606.00	17.53	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
11600.00	9569.00	10340.50	360.00	27.68	15.39	30.79	570.66	606.00	17.15	MWD	
11700.00	9569.00	10440.50	360.00	28.89	15.72	31.44	569.89	606.00	16.78	MWD	
11800.00	9569.00	10540.50	360.00	30.17	16.07	32.14	569.14	606.00	16.44	MWD	
11900.00	9569.00	10640.50	360.00	31.50	16.45	32.89	568.21	606.00	16.04	MWD	
12000.00	9569.00	10740.50	360.00	32.88	16.85	33.69	567.33	606.00	15.67	MWD	
12100.00	9569.00	10840.50	360.00	34.30	17.27	34.54	566.43	606.00	15.31	MWD	
12200.00	9569.00	10940.50	360.00	35.75	17.71	35.42	565.42	606.00	14.93	MWD	
12300.00	9569.00	11040.50	360.00	37.24	18.17	36.35	564.47	606.00	14.59	MWD	
12400.00	9569.00	11140.50	360.00	38.76	18.65	37.30	563.44	606.00	14.24	MWD	
12500.00	9569.00	11240.50	360.00	40.31	19.15	38.29	562.37	606.00	13.89	MWD	
12600.00	9569.00	11340.50	360.00	41.88	19.66	39.31	561.35	606.00	13.57	MWD	
12700.00	9569.00	11440.50	360.00	43.46	20.18	40.36	560.29	606.00	13.26	MWD	
12800.00	9569.00	11540.50	360.00	45.07	20.72	41.43	559.08	606.00	12.92	MWD	
12900.00	9569.00	11640.50	360.00	46.69	21.27	42.53	557.92	606.00	12.60	MWD	
13000.00	9569.00	11740.50	360.00	48.33	21.82	43.65	556.77	606.00	12.31	MWD	
13100.00	9569.00	11840.50	360.00	49.98	22.39	44.79	555.62	606.00	12.03	MWD	
13200.00	9569.00	11940.50	360.00	51.64	22.97	45.94	554.51	606.00	11.77	MWD	
13300.00	9569.00	12040.50	360.00	53.31	23.56	47.12	553.39	606.00	11.52	MWD	
13400.00	9569.00	12140.50	360.00	55.00	24.15	48.31	552.11	606.00	11.24	MWD	
13500.00	9569.00	12240.50	360.00	56.69	24.76	49.51	550.83	606.00	10.98	MWD	
13600.00	9569.00	12340.50	360.00	58.39	25.37	50.73	549.57	606.00	10.74	MWD	
13700.00	9569.00	12440.50	360.00	60.09	25.98	51.96	548.30	606.00	10.50	MWD	
13800.00	9569.00	12540.50	360.00	61.81	26.60	53.21	547.03	606.00	10.28	MWD	
13900.00	9569.00	12640.50	360.00	63.53	27.23	54.46	545.75	606.00	10.06	MWD	
14000.00	9569.00	12740.50	360.00	65.26	27.86	55.73	544.47	606.00	9.85	MWD	
14100.00	9569.00	12840.50	360.00	66.99	28.50	57.00	543.18	606.00	9.65	MWD	
14200.00	9569.00	12940.50	360.00	68.72	29.14	58.29	541.89	606.00	9.45	MWD	
14300.00	9569.00	13040.50	360.00	70.46	29.79	59.58	540.60	606.00	9.27	MWD	
14400.00	9569.00	13140.50	360.00	72.21	30.44	60.88	539.30	606.00	9.08	MWD	
14500.00	9569.00	13240.50	360.00	73.96	31.09	62.19	537.99	606.00	8.91	MWD	
14600.00	9569.00	13340.50	360.00	75.71	31.75	63.50	536.68	606.00	8.74	MWD	
14700.00	9569.00	13440.50	360.00	77.47	32.41	64.82	535.36	606.00	8.58	MWD	
14800.00	9569.00	13540.50	360.00	79.23	33.07	66.15	534.04	606.00	8.42	MWD	
14900.00	9569.00	13640.50	360.00	80.99	33.74	67.48	532.71	606.00	8.27	MWD	
15000.00	9569.00	13740.50	360.00	82.76	34.41	68.82	531.38	606.00	8.12	MWD	
15100.00	9569.00	13840.50	360.00	84.53	35.08	70.16	530.05	606.00	7.98	MWD	
15200.00	9569.00	13940.50	360.00	86.30	35.76	71.51	528.71	606.00	7.84	MWD	
15300.00	9569.00	14040.50	360.00	88.07	36.43	72.87	527.37	606.00	7.71	MWD	
15400.00	9569.00	14140.50	360.00	89.84	37.11	74.22	526.01	606.00	7.58	MWD	
15500.00	9569.00	14240.50	360.00	91.62	37.79	75.58	524.64	606.00	7.45	MWD	
15600.00	9569.00	14340.50	360.00	93.40	38.47	76.95	523.26	606.00	7.32	MWD	
15700.00	9569.00	14440.50	360.00	95.18	39.16	78.32	521.88	606.00	7.20	MWD	
15800.00	9569.00	14540.50	360.00	96.96	39.85	79.69	520.50	606.00	7.09	MWD	
15900.00	9569.00	14640.50	360.00	98.75	40.53	81.07	519.12	606.00	6.97	MWD	
16000.00	9569.00	14740.50	360.00	100.53	41.22	82.45	517.73	606.00	6.87	MWD	
16100.00	9569.00	14840.50	360.00	102.32	41.91	83.83	516.34	606.00	6.76	MWD	
16200.00	9569.00	14940.50	360.00	104.11	42.61	85.21	514.95	606.00	6.66	MWD	
16300.00	9569.00	15040.50	360.00	105.90	43.30	86.60	513.55	606.00	6.56	MWD	
16400.00	9569.00	15140.50	360.00	107.69	43.99	87.99	512.16	606.00	6.46	MWD	
16500.00	9569.00	15240.50	360.00	109.48	44.69	89.38	510.76	606.00	6.36	MWD	
16600.00	9569.00	15340.50	360.00	111.28	45.39	90.78	509.36	606.00	6.27	MWD	
16700.00	9569.00	15440.50	360.00	113.07	46.09	92.17	507.96	606.00	6.18	MWD	
16800.00	9569.00	15540.50	360.00	114.87	46.79	93.57	506.56	606.00	6.09	MWD	
16900.00	9569.00	15640.50	360.00	116.66	47.49	94.97	505.15	606.00	6.01	MWD	
17000.00	9569.00	15740.50	360.00	118.46	48.19	96.38	503.74	606.00	5.93	MWD	
17100.00	9569.00	15840.50	360.00	120.26	48.89	97.78	502.34	606.00	5.85	MWD	
17200.00	9569.00	15940.50	360.00	122.06	49.59	99.19	500.93	606.00	5.77	MWD	
17300.00	9569.00	16040.50	360.00	123.86	50.30	100.60	499.52	606.00	5.69	MWD	

5D Anti-Collision Report

Secondary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Drill Floor)(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)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Survey Tool	Risk
17400.00	9569.00	16140.50	360.00	125.66	51.00	102.01	498.10	606.00	5.62	MWD	
17500.00	9569.00	16240.50	360.00	127.46	51.71	103.42	496.69	606.00	5.54	MWD	
17600.00	9569.00	16340.50	360.00	129.27	52.42	104.83	495.27	606.00	5.47	MWD	
17700.00	9569.00	16440.50	360.00	131.07	53.12	106.25	493.86	606.00	5.40	MWD	
17800.00	9569.00	16540.50	360.00	132.87	53.83	107.66	492.44	606.00	5.34	MWD	
17900.00	9569.00	16640.50	0.00	134.68	54.54	109.08	491.02	606.00	5.27	MWD	
18000.00	9569.00	16740.50	0.00	136.48	55.25	110.50	489.60	606.00	5.21	MWD	
18100.00	9569.00	16840.50	0.00	138.29	55.96	111.92	488.18	606.00	5.14	MWD	
18200.00	9569.00	16940.50	0.00	140.09	56.67	113.34	486.76	606.00	5.08	MWD	
18300.00	9569.00	17040.50	0.00	141.90	57.38	114.76	485.33	606.00	5.02	MWD	
18400.00	9569.00	17140.50	0.00	143.71	58.09	116.19	483.91	606.00	4.96	MWD	
18462.51	9569.00	17203.00	0.00	144.84	58.54	117.08	483.02	606.00	4.93	MWD	

**5D Plan Report****Devon Energy**

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Fighting Okra 18-19 Fed 21H,31H,41H Pad*
Well Name: *Fighting Okra 18-19 Fed 41H*
Plan: *P1:V4*

26 September 2017





Fighting Okra 18-19 Fed 41H

Field Name: Lea Co, NM Nad 83 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: Fighting Okra 18-19 Fed 21H,31H,41H Pad	Units: US ft		North Reference: Grid		Convergence Angle: 0.43	
	Position:	Northing: 380827.97 US ft		Latitude: 32° 2' 39.64"		
		Easting: 794436.89 US ft		Longitude: -103° 30' 59.30"		
		Elevation above MSL:3358.00 US ft				
Comment:						

Slot: Fighting Okra 18-19 Fed 41H	Position (Relative to Site Centre)				
	+N/-S: 29.95 US ft	Northing: 380857.92 US ft		Latitude: 32°2'39.94"	
	+E/-W: -0.24 US ft	Easting: 794436.65 US ft		Longitude: -103°30'59.30"	
	Slot TVD Reference: Ground Elevation				
Elevation above MSL: 3357.50 US ft					
Comment:					

Well: Fighting Okra 18-19 Fed 41H	Type:Main well		UWI:		Plan:P1:V4	
	File Number:		Comment:			
	Closure Distance:7954.86US ft		Closure Azimuth:179.58°			
	Vertical Section: Position of Origin (Relative to Slot centre)					
	+N/-S: -0.00 US ft		+E/-W: 0.00 US ft		Az: 179.58°	
	Magnetic Parameters:					
	Model: bggm2017		Field Strength:		Declination: 6.96°	
	47863.5nT		Dip: 59.88°		Date: 01/Nov/2017	

Drill floor: Plan: P1:V4			
Rig Height (Drill Floor): 27.50us ft	Elevation above MSL: 3385.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Target set: FO 18-19 41H Tgts Comment:							
Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northings (USft)	Easting (USft)	Comment
VP	Point	9592.19	561.04	-34.11	381418.96	794402.54	
500' VS	Point	10175.00	-499.99	3.67	380357.93	794440.32	
PBHL 41H	Point	10175.00	-7954.65	58.37	372903.27	794495.02	

Wellpath created using minimum curvature.

5D Plan Report

Tie Point:
MD: 0.00USFt **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** - 0.00USFt **North Offset:** - 0.00USFt **East Offset:** 0.00USFt

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
0.00	0.00	0.00	-0.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
3300.00	0.00	0.00	3300.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	Nudge @ 1° DLS
3860.08	5.60	356.52	3859.19	-27.31	27.30	-1.66	380885.22	794434.99	1.00	Hold
9058.71	5.60	356.52	9033.00	-533.96	533.74	-32.45	381391.66	794404.20	0.00	Drop @ 1° DLS
9618.79	0.00	0.00	9592.19	-561.27	561.04	-34.11	381418.96	794402.54	1.00	KOP- Build @ 10° DLS
10506.53	88.77	177.91	10165.02	-0.82	0.72	-13.63	380858.64	794423.02	10.00	Landing Pt
10938.51	88.77	177.91	10174.26	430.88	-430.87	2.15	380427.05	794438.80	0.00	Build/Turn @ 3° DLS
11007.64	90.00	179.58	10175.00	500.00	-499.99	3.67	380357.93	794440.32	3.00	500' VS - Hold
18462.51	90.00	179.58	10175.00	7954.86	-7954.65	58.37	372903.27	794495.02	0.00	PBHL 41H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
0.00	0.00	0.00	-0.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
100.00	0.00	0.00	100.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
200.00	0.00	0.00	200.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
300.00	0.00	0.00	300.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
400.00	0.00	0.00	400.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
500.00	0.00	0.00	500.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
600.00	0.00	0.00	600.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
700.00	0.00	0.00	700.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
800.00	0.00	0.00	800.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
900.00	0.00	0.00	900.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1000.00	0.00	0.00	1000.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1100.00	0.00	0.00	1100.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1200.00	0.00	0.00	1200.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1300.00	0.00	0.00	1300.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1400.00	0.00	0.00	1400.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1500.00	0.00	0.00	1500.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1600.00	0.00	0.00	1600.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1700.00	0.00	0.00	1700.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1800.00	0.00	0.00	1800.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
1900.00	0.00	0.00	1900.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2000.00	0.00	0.00	2000.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2100.00	0.00	0.00	2100.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2200.00	0.00	0.00	2200.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2300.00	0.00	0.00	2300.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2400.00	0.00	0.00	2400.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2500.00	0.00	0.00	2500.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2600.00	0.00	0.00	2600.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2700.00	0.00	0.00	2700.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2800.00	0.00	0.00	2800.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
2900.00	0.00	0.00	2900.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
3000.00	0.00	0.00	3000.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
3100.00	0.00	0.00	3100.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
3200.00	0.00	0.00	3200.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	
3300.00	0.00	0.00	3300.00	-0.00	-0.00	0.00	380857.92	794436.65	0.00	Nudge @ 1° DLS
3400.00	1.00	356.52	3399.99	-0.87	0.87	-0.05	380858.79	794436.60	1.00	
3500.00	2.00	356.52	3499.96	-3.49	3.48	-0.21	380861.40	794436.44	1.00	
3600.00	3.00	356.52	3599.86	-7.84	7.84	-0.48	380865.76	794436.17	1.00	
3700.00	4.00	356.52	3699.68	-13.94	13.93	-0.85	380871.85	794435.80	1.00	
3800.00	5.00	356.52	3799.37	-21.77	21.76	-1.32	380879.68	794435.33	1.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	
14800.00	90.00	179.58	10175.00	4292.36	-4292.24	31.49	376565.68	794468.14	0.00	
14900.00	90.00	179.58	10175.00	4392.36	-4392.24	32.23	376465.68	794468.88	0.00	
15000.00	90.00	179.58	10175.00	4492.36	-4492.23	32.96	376365.69	794469.61	0.00	
15100.00	90.00	179.58	10175.00	4592.36	-4592.23	33.70	376265.69	794470.35	0.00	
15200.00	90.00	179.58	10175.00	4692.36	-4692.23	34.43	376165.69	794471.08	0.00	
15300.00	90.00	179.58	10175.00	4792.36	-4792.23	35.16	376065.69	794471.81	0.00	
15400.00	90.00	179.58	10175.00	4892.36	-4892.22	35.90	375965.70	794472.55	0.00	
15500.00	90.00	179.58	10175.00	4992.36	-4992.22	36.63	375865.70	794473.28	0.00	
15600.00	90.00	179.58	10175.00	5092.36	-5092.22	37.36	375765.70	794474.01	0.00	
15700.00	90.00	179.58	10175.00	5192.36	-5192.22	38.10	375665.70	794474.75	0.00	
15800.00	90.00	179.58	10175.00	5292.36	-5292.21	38.83	375565.71	794475.48	0.00	
15900.00	90.00	179.58	10175.00	5392.36	-5392.21	39.57	375465.71	794476.22	0.00	
16000.00	90.00	179.58	10175.00	5492.36	-5492.21	40.30	375365.71	794476.95	0.00	
16100.00	90.00	179.58	10175.00	5592.36	-5592.20	41.03	375265.72	794477.68	0.00	
16200.00	90.00	179.58	10175.00	5692.36	-5692.20	41.77	375165.72	794478.42	0.00	
16300.00	90.00	179.58	10175.00	5792.36	-5792.20	42.50	375065.72	794479.15	0.00	
16400.00	90.00	179.58	10175.00	5892.36	-5892.20	43.24	374965.72	794479.89	0.00	
16500.00	90.00	179.58	10175.00	5992.36	-5992.19	43.97	374865.73	794480.62	0.00	
16600.00	90.00	179.58	10175.00	6092.36	-6092.19	44.70	374765.73	794481.35	0.00	
16700.00	90.00	179.58	10175.00	6192.36	-6192.19	45.44	374665.73	794482.09	0.00	
16800.00	90.00	179.58	10175.00	6292.36	-6292.19	46.17	374565.73	794482.82	0.00	
16900.00	90.00	179.58	10175.00	6392.36	-6392.18	46.90	374465.74	794483.55	0.00	
17000.00	90.00	179.58	10175.00	6492.36	-6492.18	47.64	374365.74	794484.29	0.00	
17100.00	90.00	179.58	10175.00	6592.36	-6592.18	48.37	374265.74	794485.02	0.00	
17200.00	90.00	179.58	10175.00	6692.36	-6692.18	49.11	374165.74	794485.76	0.00	
17300.00	90.00	179.58	10175.00	6792.36	-6792.17	49.84	374065.75	794486.49	0.00	
17400.00	90.00	179.58	10175.00	6892.36	-6892.17	50.57	373965.75	794487.22	0.00	
17500.00	90.00	179.58	10175.00	6992.36	-6992.17	51.31	373865.75	794487.96	0.00	
17600.00	90.00	179.58	10175.00	7092.36	-7092.16	52.04	373765.76	794488.69	0.00	
17700.00	90.00	179.58	10175.00	7192.36	-7192.16	52.77	373665.76	794489.42	0.00	
17800.00	90.00	179.58	10175.00	7292.36	-7292.16	53.51	373565.76	794490.16	0.00	
17900.00	90.00	179.58	10175.00	7392.36	-7392.16	54.24	373465.76	794490.89	0.00	
18000.00	90.00	179.58	10175.00	7492.36	-7492.15	54.98	373365.77	794491.63	0.00	
18100.00	90.00	179.58	10175.00	7592.36	-7592.15	55.71	373265.77	794492.36	0.00	
18200.00	90.00	179.58	10175.00	7692.36	-7692.15	56.44	373165.77	794493.09	0.00	
18300.00	90.00	179.58	10175.00	7792.36	-7792.15	57.18	373065.77	794493.83	0.00	
18400.00	90.00	179.58	10175.00	7892.36	-7892.14	57.91	372965.78	794494.56	0.00	
18462.51	90.00	179.58	10175.00	7954.86	-7954.65	58.37	372903.27	794495.02	0.00	PBHL 41H

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)
1BSSS	N/A	0.85	356.52	10460.00	0.63	-0.04	380858.55	794436.61
Rustler	783.00	0.00	0.00	783.00	-0.00	0.00	380857.92	794436.65
Base of Salt	5010.38	5.60	356.52	5004.00	139.36	-8.47	380997.28	794428.18
Delaware	5267.61	5.60	356.52	5260.00	164.42	-10.00	381022.34	794426.65
Lwr Brushy	9331.48	2.87	356.52	9305.00	553.85	-33.67	381411.77	794402.98
1BSLM	9553.60	0.65	356.52	9527.00	560.67	-34.09	381418.59	794402.56
Leonard A	9584.60	0.34	356.52	9558.00	560.94	-34.10	381418.86	794402.55
Leonard B	10051.60	43.28	177.91	9985.00	405.30	-28.42	381263.22	794408.23
Leonard C	10400.58	78.18	177.91	10153.00	105.76	-17.47	380963.68	794419.18

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Devon Energy Production
LEASE NO.:	NMNM114992
WELL NAME & NO.:	41H-Fighting Okra 18-19 Fed
SURFACE HOLE FOOTAGE:	2280'/N & 330'/W
BOTTOM HOLE FOOTAGE:	330'/S & 330'/W
LOCATION:	Section 18, R. 34E, T.26S, NMPM
COUNTY:	Lea County , New Mexico

All previous COAs still apply, except for the following:

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

1. The minimum required fill of cement behind the 5 1/2 inch production casing is:

Cement Option #1 (Single Stage):

- ☒ Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 22% - Additional cement will be required.**

Cement Option #2:

Operator has proposed DV tool at a depth of 5445', but will adjust cement proportionally if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation or approved top of cement on the next stage. **Excess calculates to 23% - Additional cement will be required.**

- b. Second stage above DV tool:

- ☒ Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 16% - Additional cement will be required.**

MHH 01252018