

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43275	² Pool Code 97892	³ Pool Name WC-025 G-06 S263407P; UPR BONE SPRING
⁴ Property Code 315691	⁵ Property Name FIGHTING OKRA 18-19 FED	
⁶ OGRID No. 6137	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁸ Well Number 21H
		⁹ Elevation 3359.6

" Surface Location

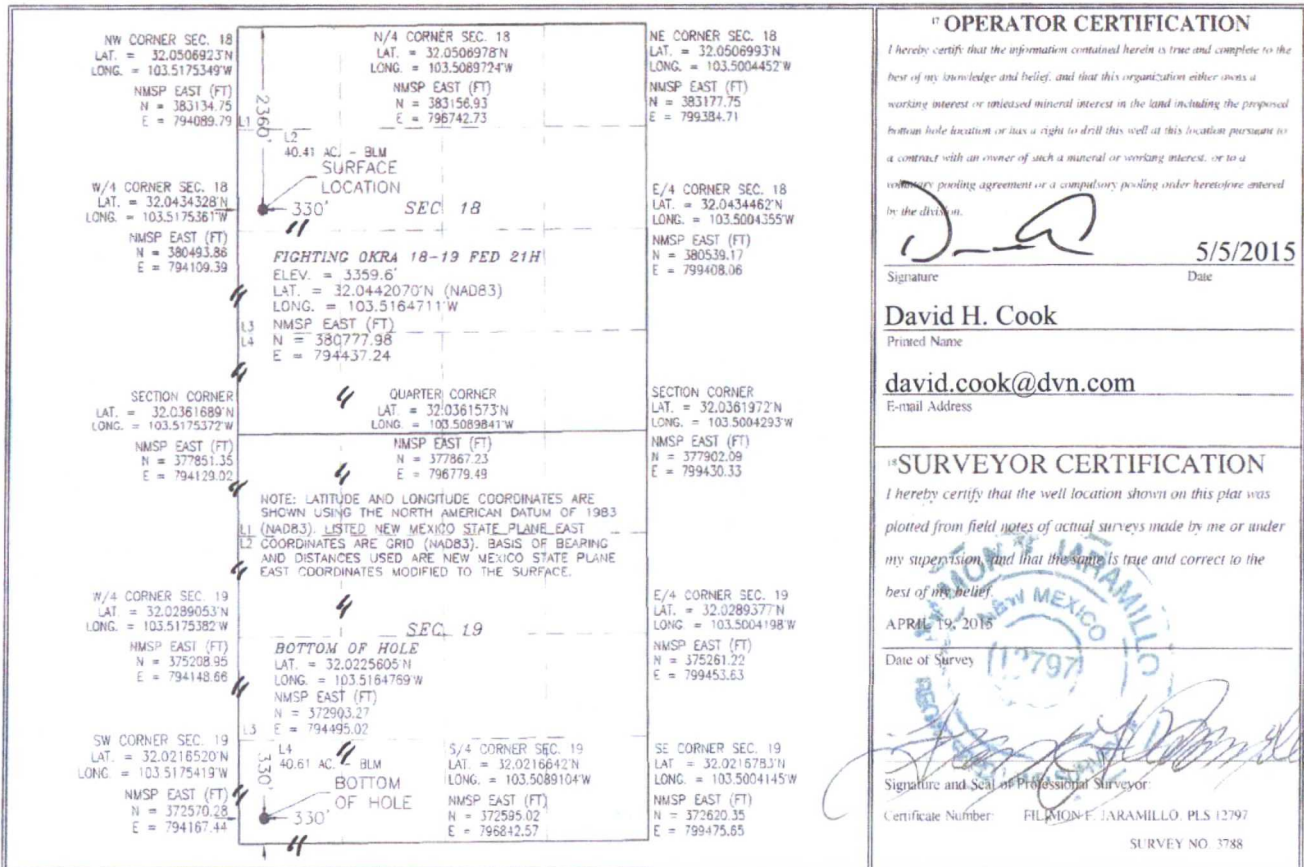
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E/2	18	26 S	34 E		2360	NORTH	330	WEST	LEA

" Bottom Hole Location If Different From Surface

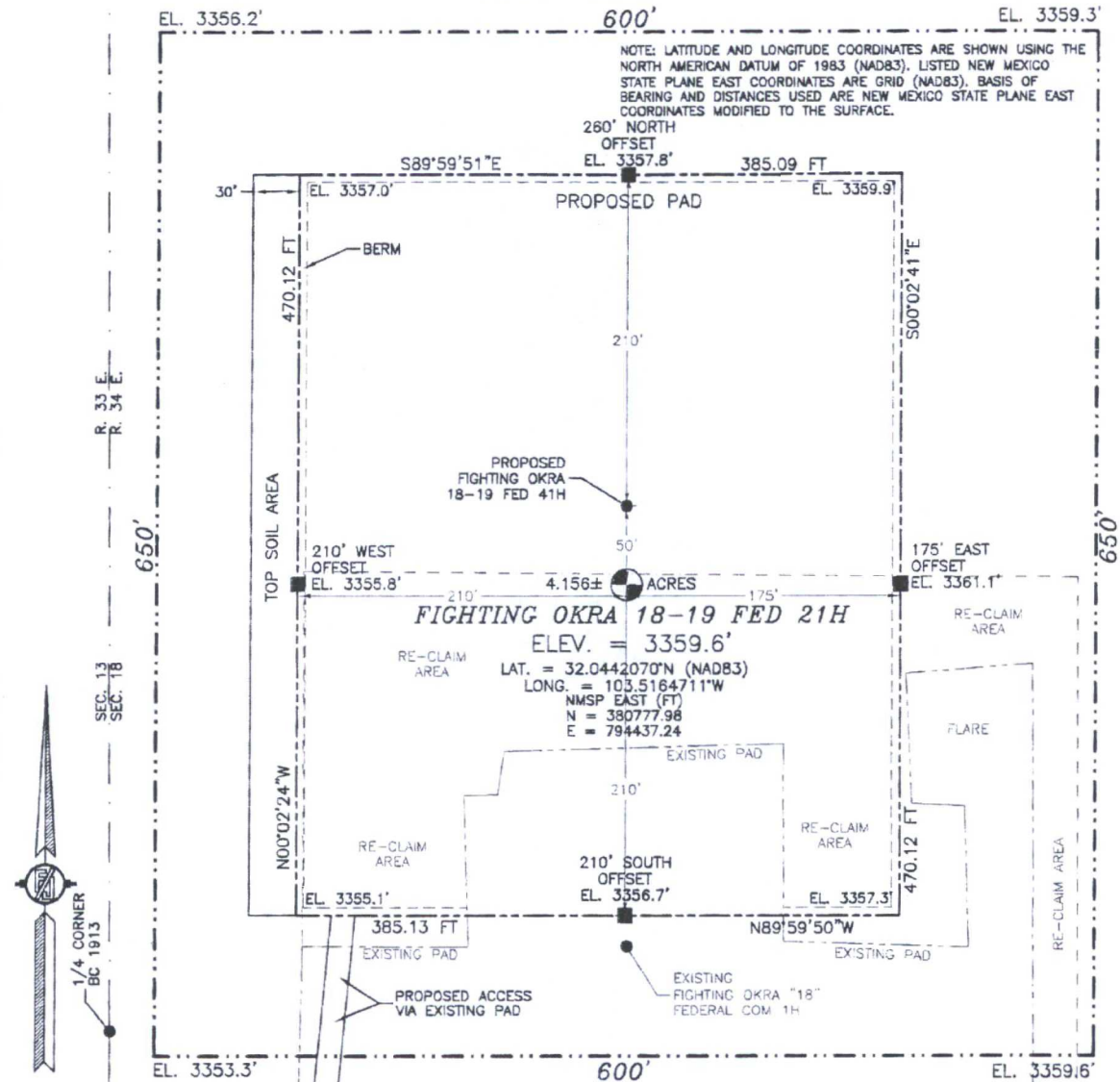
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M/4	19	26 S	34 E		330	SOUTH	330	WEST	LEA

¹² Dedicated Acres 243.17	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.
PP: 2190 FSL & 330 FWL



SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM HWY 12B (JAL HWY) AND CR 2 (BATTLE AXE ROAD) GO SOUTH ON BATTLE AXE ROAD 12.31 MILES, TURN LEFT ON A CALICHE LEASE ROAD GO SOUTH 0.65 MILE TO PIPELINE ROAD TURN LEFT GO EAST 1.81 MILES TURN RIGHT AT CALICHE LEASE ROAD GO SOUTH 1.55 MILES TO CALICHE LEASE ROAD ON RIGHT GO WEST 0.81 MILE TO A BEND IN THE ROAD TO THE NORTH GO NORTH ABOUT 880 FEET THROUGH EXISTING FIGHTING OKRA 18 FED COM 1H PAD TO PROPOSED SOUTHWEST CORNER OF PAD

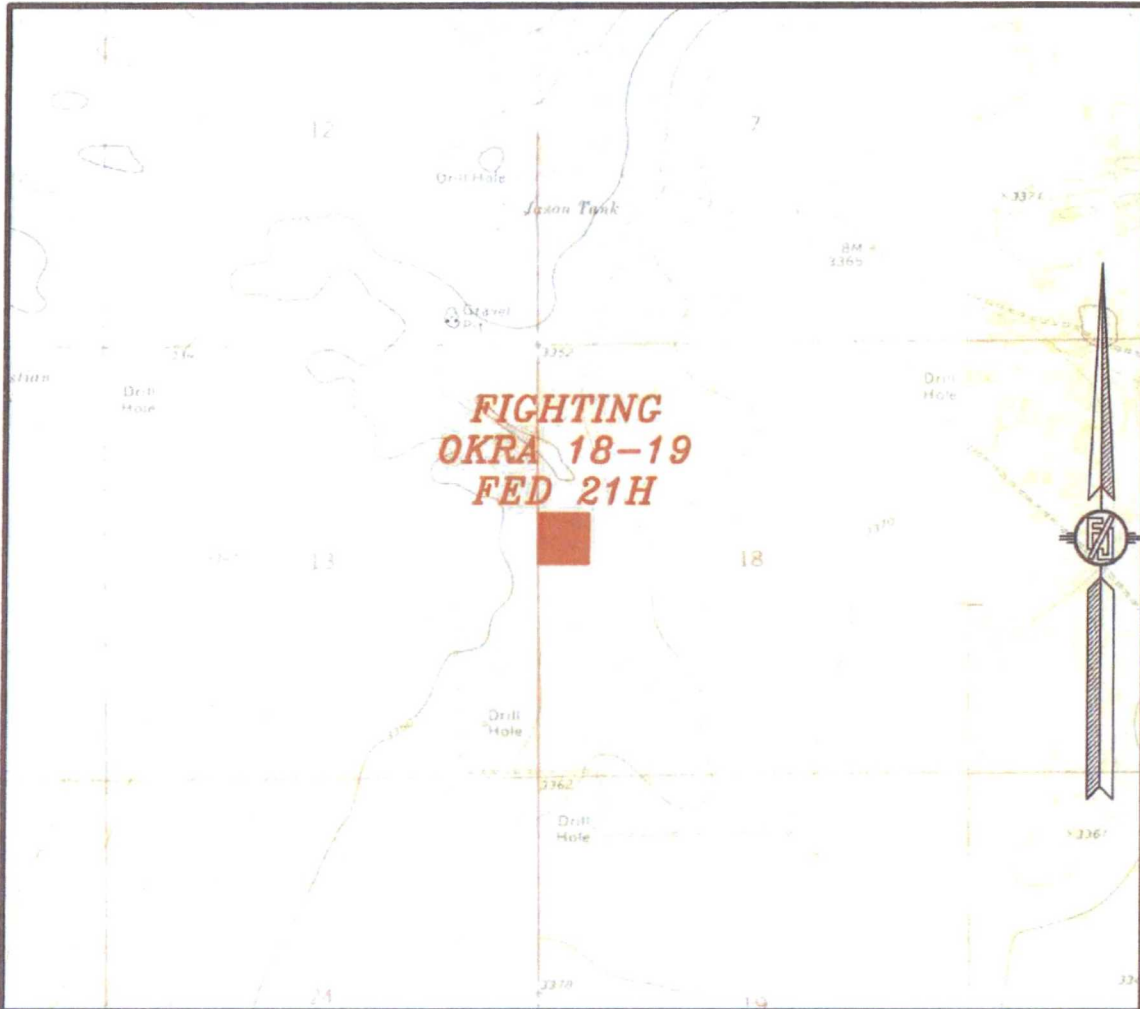
DEVON ENERGY PRODUCTION COMPANY, L.P.
FIGHTING OKRA 18-19 FED 21H
LOCATED 2360 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 19, 2015

SURVEY NO. 3788

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

SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS EAST

NOT TO SCALE

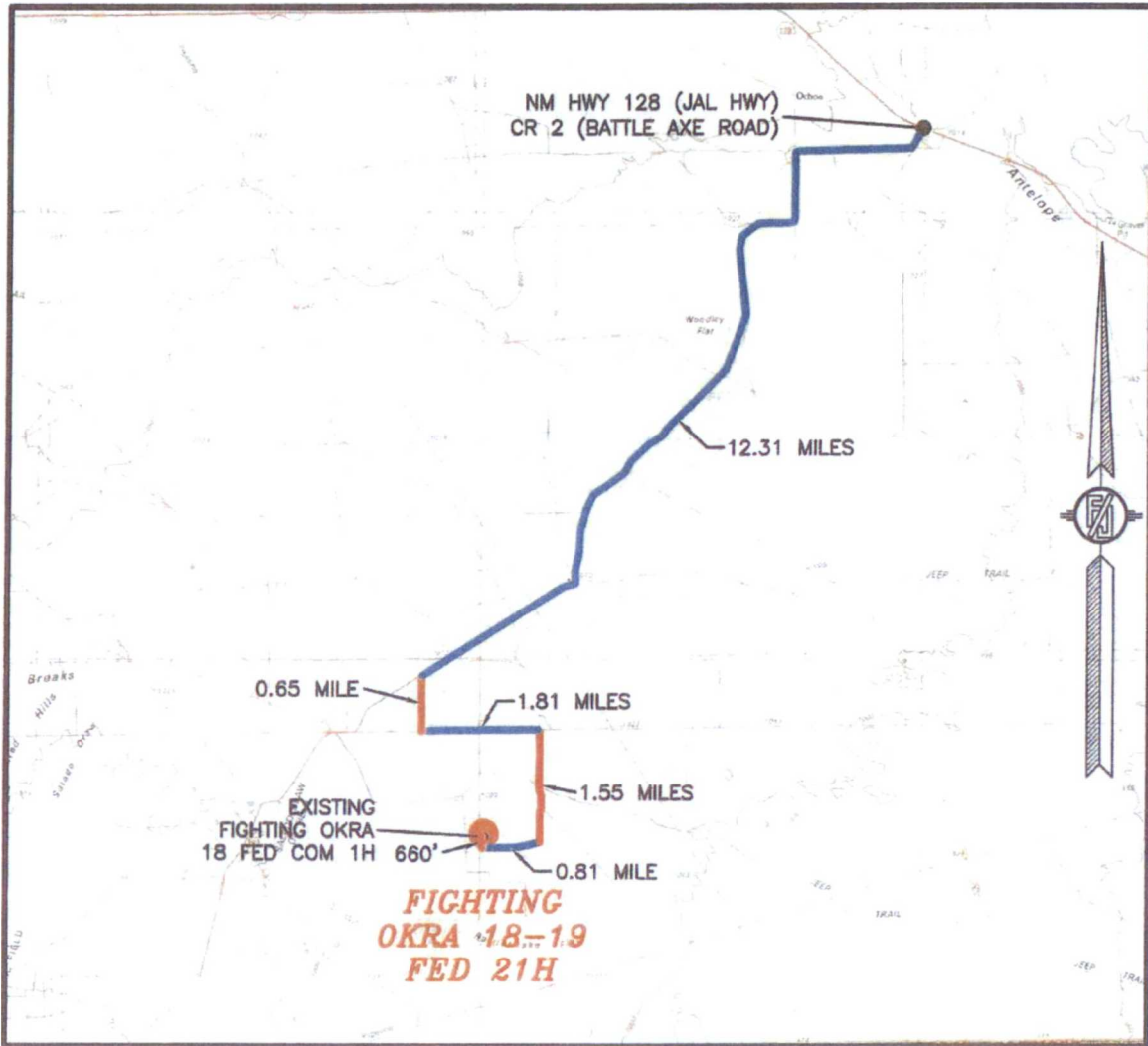
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LEA COUNTY, STATE OF NEW MEXICO

APRIL 19, 2015

SURVEY NO. 3788

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

SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM HWY 128 (JAL HWY) AND CR 2 (BATTLE AXE ROAD) GO SOUTH ON BATTLE AXE ROAD 12.31 MILES, TURN LEFT ON A CALICHE LEASE ROAD GO SOUTH 0.65 MILE TO PIPELINE ROAD TURN LEFT GO EAST 1.81 MILES TURN RIGHT AT CALICHE LEASE ROAD GO SOUTH 1.55 MILES TO CALICHE LEASE ROAD ON RIGHT GO WEST 0.81 MILE TO A BEND IN THE ROAD TO THE NORTH GO NORTH ABOUT 660 FEET THROUGH EXISTING FIGHTING OKRA 18 FED COM 1H PAD TO PROPOSED SOUTHWEST CORNER OF PAD

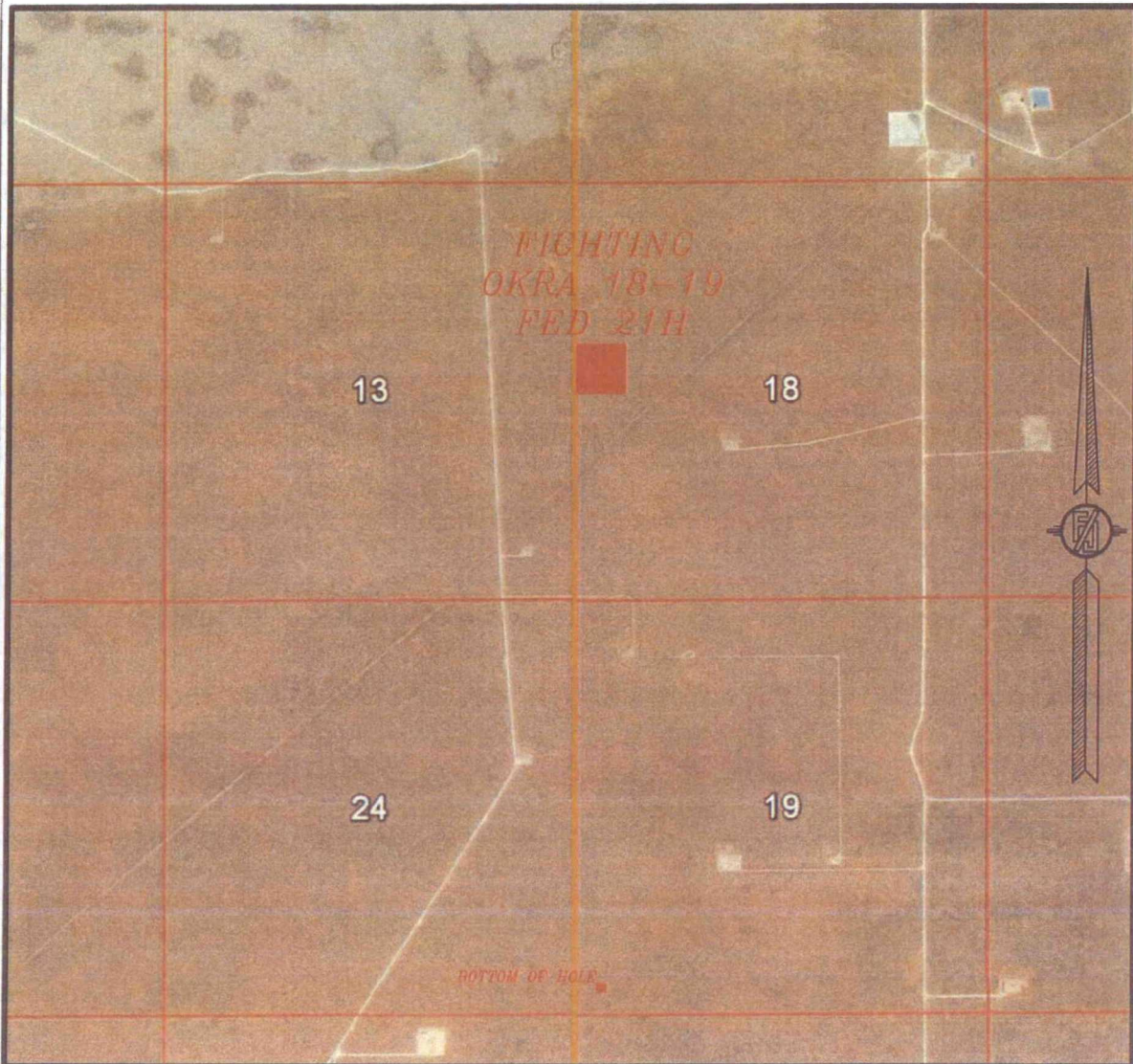
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 LEA COUNTY, STATE OF NEW MEXICO

APRIL 19, 2015

SURVEY NO. 3788

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

SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2013

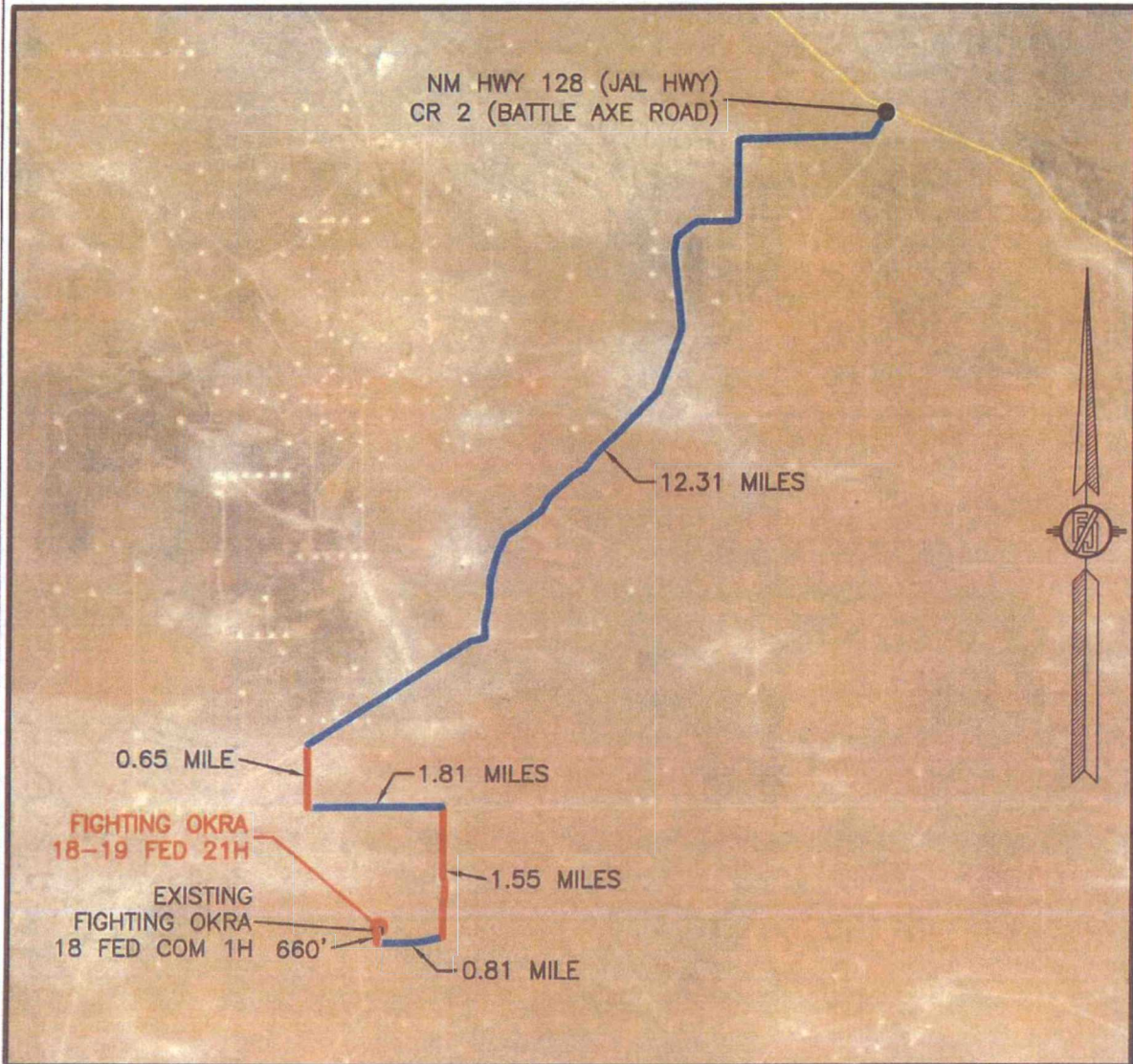
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LEA COUNTY, STATE OF NEW MEXICO

APRIL 19, 2015

SURVEY NO. 3788

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

SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
FIGHTING OKRA 18-19 FED 21H
LOCATED 2360 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 26 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 19, 2015

SURVEY NO. 3788

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

One Mile Radius Map

Estimated distances to nearest wellbores:

*From SHL: Fighting Okra 18 Fed Com 1H_ST	125 ft E
Fighting Okra 18 Fed Com 1H_ST	20 ft E
Bradley-Federal 19 1	320 ft E
Phillips Federal 1	990 ft W
Bradley-Federal 13 1	990 ft W
Endurance 36 State Com 1H	1020 ft SW

14
26S 34E

23

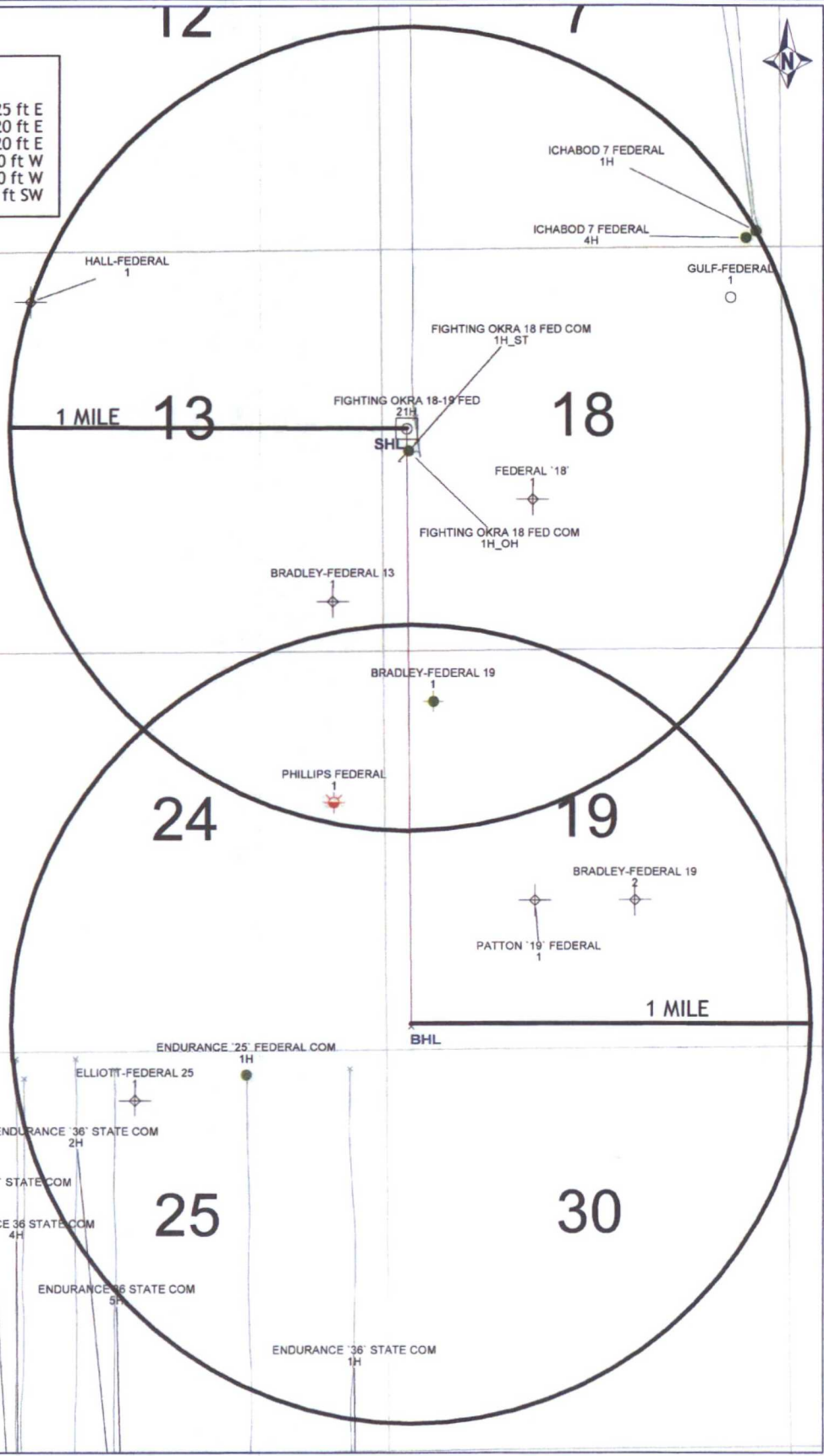
24

25

18

19

30



Fighting Okra 18-19 Fed 21H
1 Mile Radius Map



- OIL PRODUCING WELL
- DRY HOLE WITH SHOW OF O&G
- ABANDONED OIL WELL
- DRY AND ABANDONED WELL
- JUNKED AND ABANDONED
- PROPOSED

May 5, 2015

5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Fighting Okra 18-19 Fed 21H,41H Pad*
Well Name: *Fighting Okra 18-19 Fed 21H*
Plan: *P1:V1*

12 May 2015



Fighting Okra 18-19 Fed 21H

Field Name	Map Units : US ft	Company Name : Devon Energy
Lea Co, NM Nad 83 NMEZ	Vertical Reference Datum (VRD) : Mean Sea Level	
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)	
	Comment :	

Site Name	Units : US ft	North Reference : Grid	Convergence Angle : 0.43
Fighting Okra 18-19 Fed 21H,41H Pad	Position	Northing : 380827.97 US ft	Latitude : 32° 2' 39.64"
		Easting : 794436.89 US ft	Longitude : -103° 30' 59.30"
	Elevation above Mean Sea Level: 3358.00 US ft		
Comment :			

Slot Name	Position (Offsets relative to Site Centre)		
Fighting Okra 18-19 Fed 21H	+N / -S : -49.99 US ft	Northing : 380777.98 US ft	Latitude : 32°2'39.15"
	+E / -W : 0.35 US ft	Easting : 794437.24 US ft	Longitude : -103°30'59.30"
	Slot TVD Reference : Ground Elevation		
Elevation above Mean Sea Level : 3360.00 US ft			
Comment :			

Well Name	Type : Main well	UWI :	Plan : P1:V1
Fighting Okra 18-19 Fed 21H	Rig Height Well TVD Reference : 30.00 US ft	Comment :	
	Relative to Mean Sea Level: 3390.00 US ft		
	Closure Distance : 7874.92 US ft	Closure Azimuth : 179.398°	
Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 179.40°
Magnetic Parameters			
Model : BGGM	Field Strength : 48041.6nT	Dec : 7.20°	Dip : 59.91° Date : 15/Oct/2015

Target Set	
Name : Fighting Okra 18-19 Fed 21H	Number of Targets : 2

Comment :			
Target Name:	Position (Relative to Slot centre)		
LP	+N / -S : -521.05US ft	Northing : 380256.93 US ft	Latitude : 32°2'33.99"
	+E / -W : 27.28 US ft	Easting : 794464.52US ft	Longitude : -103°30'59.02"
Shape:	TVD (Well TVD Reference) : 9809.00 US ft		
Cuboid	Orientation Azimuth : 179.57°	Inclination : 0.00°	
	Dimensions Length : 4000.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

5D Plan Report

Target Name:	Position (Relative to Slot centre)		
PBHL 21H	+N / -S : -7874.48US ft	Northing : 372903.50 US ft	Latitude : 32°1'21.22"
	+E / -W : 82.78 US ft	Easting : 794520.02US ft	Longitude : -103°30'59.03"
Shape:	TVD (Well TVD Reference) : 9809.00 US ft		
Cuboid	Orientation Azimuth : 179.57°	Inclination : 0.00°	
	Dimensions Length : 14706.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	Nudge
5900.00	5.00	167.50	5899.37	-21.29	4.72	21.33	1.00	1.00	0.00	167.50	Hold
6700.00	5.00	167.50	6696.32	-89.36	19.81	89.56	0.00	0.00	0.00	0.00	Drop
7200.00	0.00	0.00	7195.69	-110.64	24.53	110.89	1.00	-1.00	0.00	180.00	Hold
9292.44	0.00	0.00	9288.13	-110.64	24.53	110.89	0.00	0.00	0.00	0.00	KOP
10110.62	90.00	179.57	9809.00	-631.50	28.44	631.76	11.00	11.00	0.00	179.57	LP
17353.81	90.00	179.57	9809.00	-7874.48	82.78	7874.92	0.00	0.00	0.00	0.00	PBHL 21H

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
5400.00	0.00	0.00	5400.00	0.00	0.00	-0.00	0.00	380777.98	794437.24	Nudge	
5500.00	1.00	167.50	5499.99	-0.85	0.19	0.85	1.00	380777.13	794437.43		
5600.00	2.00	167.50	5599.96	-3.41	0.76	3.42	1.00	380774.57	794438.00		
5700.00	3.00	167.50	5699.86	-7.67	1.70	7.68	1.00	380770.31	794438.94		
5800.00	4.00	167.50	5799.68	-13.63	3.02	13.66	1.00	380764.35	794440.26		
5900.00	5.00	167.50	5899.37	-21.29	4.72	21.33	1.00	380756.69	794441.96	Hold	
6000.00	5.00	167.50	5998.99	-29.79	6.61	29.86	0.00	380748.19	794443.85		
6100.00	5.00	167.50	6098.60	-38.30	8.49	38.39	0.00	380739.68	794445.73		
6200.00	5.00	167.50	6198.22	-46.81	10.38	46.92	0.00	380731.17	794447.62		
6300.00	5.00	167.50	6297.84	-55.32	12.26	55.45	0.00	380722.66	794449.50		
6400.00	5.00	167.50	6397.46	-63.83	14.15	63.98	0.00	380714.15	794451.39		
6500.00	5.00	167.50	6497.08	-72.34	16.04	72.50	0.00	380705.64	794453.28		
6600.00	5.00	167.50	6596.70	-80.85	17.92	81.03	0.00	380697.13	794455.16		
6700.00	5.00	167.50	6696.32	-89.36	19.81	89.56	0.00	380688.62	794457.05	Drop	
6800.00	4.00	167.50	6796.01	-97.02	21.51	97.24	1.00	380680.96	794458.75		
6900.00	3.00	167.50	6895.82	-102.98	22.83	103.21	1.00	380675.00	794460.07		
7000.00	2.00	167.50	6995.73	-107.24	23.77	107.48	1.00	380670.74	794461.01		
7100.00	1.00	167.50	7095.69	-109.79	24.34	110.04	1.00	380668.19	794461.58		
7200.00	0.00	0.00	7195.69	-110.64	24.53	110.89	1.00	380667.34	794461.77	Hold	
7300.00	0.00	0.00	7295.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7400.00	0.00	0.00	7395.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7500.00	0.00	0.00	7495.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7600.00	0.00	0.00	7595.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7700.00	0.00	0.00	7695.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7800.00	0.00	0.00	7795.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
7900.00	0.00	0.00	7895.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8000.00	0.00	0.00	7995.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8100.00	0.00	0.00	8095.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8200.00	0.00	0.00	8195.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8300.00	0.00	0.00	8295.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8400.00	0.00	0.00	8395.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8500.00	0.00	0.00	8495.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
8600.00	0.00	0.00	8595.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8700.00	0.00	0.00	8695.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8800.00	0.00	0.00	8795.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
8900.00	0.00	0.00	8895.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
9000.00	0.00	0.00	8995.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
9100.00	0.00	0.00	9095.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
9200.00	0.00	0.00	9195.69	-110.64	24.53	110.89	0.00	380667.34	794461.77		
9292.44	0.00	0.00	9288.13	-110.64	24.53	110.89	0.00	380667.34	794461.77	KOP	
9300.00	0.83	179.57	9295.69	-110.70	24.53	110.95	11.00	380667.28	794461.77		
9400.00	11.83	179.57	9394.92	-121.71	24.61	121.96	11.00	380656.27	794461.85		
9500.00	22.83	179.57	9490.24	-151.45	24.84	151.70	11.00	380626.53	794462.08		
9600.00	33.83	179.57	9578.12	-198.83	25.19	199.09	11.00	380579.15	794462.43		
9700.00	44.83	179.57	9655.35	-262.12	25.67	262.37	11.00	380515.86	794462.91		
9800.00	55.83	179.57	9719.09	-338.97	26.24	339.23	11.00	380439.01	794463.48		
9900.00	66.83	179.57	9766.99	-426.57	26.90	426.83	11.00	380351.41	794464.14		
10000.00	77.83	179.57	9797.30	-521.71	27.61	521.97	11.00	380256.27	794464.85		
10100.00	88.83	179.57	9808.89	-620.88	28.36	621.14	11.00	380157.10	794465.60		
10110.62	90.00	179.57	9809.00	-631.50	28.44	631.76	11.00	380146.48	794465.68	LP	
10200.00	90.00	179.57	9809.00	-720.87	29.11	721.14	0.00	380057.11	794466.35		
10300.00	90.00	179.57	9809.00	-820.87	29.86	821.14	0.00	379957.11	794467.10		
10400.00	90.00	179.57	9809.00	-920.87	30.61	921.14	0.00	379857.11	794467.85		
10500.00	90.00	179.57	9809.00	-1020.86	31.36	1021.14	0.00	379757.12	794468.60		
10600.00	90.00	179.57	9809.00	-1120.86	32.11	1121.14	0.00	379657.12	794469.35		
10700.00	90.00	179.57	9809.00	-1220.86	32.86	1221.14	0.00	379557.12	794470.10		
10800.00	90.00	179.57	9809.00	-1320.86	33.61	1321.14	0.00	379457.12	794470.85		
10900.00	90.00	179.57	9809.00	-1420.85	34.36	1421.14	0.00	379357.13	794471.60		
11000.00	90.00	179.57	9809.00	-1520.85	35.11	1521.13	0.00	379257.13	794472.35		
11100.00	90.00	179.57	9809.00	-1620.85	35.86	1621.13	0.00	379157.13	794473.10		
11200.00	90.00	179.57	9809.00	-1720.84	36.61	1721.13	0.00	379057.14	794473.85		
11300.00	90.00	179.57	9809.00	-1820.84	37.36	1821.13	0.00	378957.14	794474.60		
11400.00	90.00	179.57	9809.00	-1920.84	38.11	1921.13	0.00	378857.14	794475.35		
11500.00	90.00	179.57	9809.00	-2020.84	38.86	2021.13	0.00	378757.14	794476.10		
11600.00	90.00	179.57	9809.00	-2120.83	39.61	2121.13	0.00	378657.15	794476.85		
11700.00	90.00	179.57	9809.00	-2220.83	40.36	2221.13	0.00	378557.15	794477.60		
11800.00	90.00	179.57	9809.00	-2320.83	41.11	2321.13	0.00	378457.15	794478.35		
11900.00	90.00	179.57	9809.00	-2420.83	41.86	2421.13	0.00	378357.15	794479.10		
12000.00	90.00	179.57	9809.00	-2520.82	42.61	2521.13	0.00	378257.16	794479.85		
12100.00	90.00	179.57	9809.00	-2620.82	43.36	2621.13	0.00	378157.16	794480.60		
12200.00	90.00	179.57	9809.00	-2720.82	44.11	2721.13	0.00	378057.16	794481.35		
12300.00	90.00	179.57	9809.00	-2820.81	44.86	2821.13	0.00	377957.17	794482.10		
12400.00	90.00	179.57	9809.00	-2920.81	45.61	2921.13	0.00	377857.17	794482.85		
12500.00	90.00	179.57	9809.00	-3020.81	46.36	3021.13	0.00	377757.17	794483.60		
12600.00	90.00	179.57	9809.00	-3120.81	47.11	3121.13	0.00	377657.17	794484.35		
12700.00	90.00	179.57	9809.00	-3220.80	47.86	3221.13	0.00	377557.18	794485.10		
12800.00	90.00	179.57	9809.00	-3320.80	48.61	3321.13	0.00	377457.18	794485.85		
12900.00	90.00	179.57	9809.00	-3420.80	49.36	3421.13	0.00	377357.18	794486.60		
13000.00	90.00	179.57	9809.00	-3520.79	50.11	3521.13	0.00	377257.19	794487.35		
13100.00	90.00	179.57	9809.00	-3620.79	50.87	3621.13	0.00	377157.19	794488.11		
13200.00	90.00	179.57	9809.00	-3720.79	51.62	3721.12	0.00	377057.19	794488.86		
13300.00	90.00	179.57	9809.00	-3820.79	52.37	3821.12	0.00	376957.19	794489.61		
13400.00	90.00	179.57	9809.00	-3920.78	53.12	3921.12	0.00	376857.20	794490.36		
13500.00	90.00	179.57	9809.00	-4020.78	53.87	4021.12	0.00	376757.20	794491.11		
13600.00	90.00	179.57	9809.00	-4120.78	54.62	4121.12	0.00	376657.20	794491.86		
13700.00	90.00	179.57	9809.00	-4220.77	55.37	4221.12	0.00	376557.21	794492.61		
13800.00	90.00	179.57	9809.00	-4320.77	56.12	4321.12	0.00	376457.21	794493.36		
13900.00	90.00	179.57	9809.00	-4420.77	56.87	4421.12	0.00	376357.21	794494.11		
14000.00	90.00	179.57	9809.00	-4520.77	57.62	4521.12	0.00	376257.21	794494.86		
14100.00	90.00	179.57	9809.00	-4620.76	58.37	4621.12	0.00	376157.22	794495.61		
14200.00	90.00	179.57	9809.00	-4720.76	59.12	4721.12	0.00	376057.22	794496.36		

SD Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
14300.00	90.00	179.57	9809.00	-4820.76	59.87	4821.12	0.00	375957.22	794497.11		
14400.00	90.00	179.57	9809.00	-4920.75	60.62	4921.12	0.00	375857.23	794497.86		
14500.00	90.00	179.57	9809.00	-5020.75	61.37	5021.12	0.00	375757.23	794498.61		
14600.00	90.00	179.57	9809.00	-5120.75	62.12	5121.12	0.00	375657.23	794499.36		
14700.00	90.00	179.57	9809.00	-5220.75	62.87	5221.12	0.00	375557.23	794500.11		
14800.00	90.00	179.57	9809.00	-5320.74	63.62	5321.12	0.00	375457.24	794500.86		
14900.00	90.00	179.57	9809.00	-5420.74	64.37	5421.12	0.00	375357.24	794501.61		
15000.00	90.00	179.57	9809.00	-5520.74	65.12	5521.12	0.00	375257.24	794502.36		
15100.00	90.00	179.57	9809.00	-5620.73	65.87	5621.12	0.00	375157.25	794503.11		
15200.00	90.00	179.57	9809.00	-5720.73	66.62	5721.12	0.00	375057.25	794503.86		
15300.00	90.00	179.57	9809.00	-5820.73	67.37	5821.12	0.00	374957.25	794504.61		
15400.00	90.00	179.57	9809.00	-5920.73	68.12	5921.12	0.00	374857.25	794505.36		
15500.00	90.00	179.57	9809.00	-6020.72	68.87	6021.11	0.00	374757.26	794506.11		
15600.00	90.00	179.57	9809.00	-6120.72	69.62	6121.11	0.00	374657.26	794506.86		
15700.00	90.00	179.57	9809.00	-6220.72	70.37	6221.11	0.00	374557.26	794507.61		
15800.00	90.00	179.57	9809.00	-6320.72	71.12	6321.11	0.00	374457.26	794508.36		
15900.00	90.00	179.57	9809.00	-6420.71	71.87	6421.11	0.00	374357.27	794509.11		
16000.00	90.00	179.57	9809.00	-6520.71	72.62	6521.11	0.00	374257.27	794509.86		
16100.00	90.00	179.57	9809.00	-6620.71	73.37	6621.11	0.00	374157.27	794510.61		
16200.00	90.00	179.57	9809.00	-6720.70	74.12	6721.11	0.00	374057.28	794511.36		
16300.00	90.00	179.57	9809.00	-6820.70	74.87	6821.11	0.00	373957.28	794512.11		
16400.00	90.00	179.57	9809.00	-6920.70	75.62	6921.11	0.00	373857.28	794512.86		
16500.00	90.00	179.57	9809.00	-7020.70	76.37	7021.11	0.00	373757.28	794513.61		
16600.00	90.00	179.57	9809.00	-7120.69	77.12	7121.11	0.00	373657.29	794514.36		
16700.00	90.00	179.57	9809.00	-7220.69	77.87	7221.11	0.00	373557.29	794515.11		
16800.00	90.00	179.57	9809.00	-7320.69	78.62	7321.11	0.00	373457.29	794515.86		
16900.00	90.00	179.57	9809.00	-7420.68	79.38	7421.11	0.00	373357.30	794516.62		
17000.00	90.00	179.57	9809.00	-7520.68	80.13	7521.11	0.00	373257.30	794517.37		
17100.00	90.00	179.57	9809.00	-7620.68	80.88	7621.11	0.00	373157.30	794518.12		
17200.00	90.00	179.57	9809.00	-7720.68	81.63	7721.11	0.00	373057.30	794518.87		
17300.00	90.00	179.57	9809.00	-7820.67	82.38	7821.11	0.00	372957.31	794519.62		
17353.81	90.00	179.57	9809.00	-7874.48	82.78	7874.92	0.00	372903.50	794520.02	PBHL 21H	

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

12 May 2015





Weatherford®

Fighting Okra 18-19 Fed 21H

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 Name Fighting Okra 18-19 Fed 21H,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 Mean Sea Level :3358.00 US ft					
Comment :					
Slot Name Fighting Okra 18-19 Fed 21H	Position (Offsets relative to Site Centre)				
	+N / -S : -49.99 US ft	Northing :380777.98 US ft	Latitude : 32°2'39.15"		
	+E / -W : 0.35 US ft	Easting :794437.24 US ft	Longitude : -103°30'59.30"		
Slot TVD Reference : Ground Elevation					
Elevation above Mean Sea Level : 3360.00 US ft					
Comment :					
Well Name Fighting Okra 18-19 Fed 21H	Type : Main well	UWI :	Plan : Working Plan		
	Rig Height : 30.00 US ft	Well TVD Reference : 30.00 US ft	Comment :		
	Relative to Mean Sea Level : 3390.00 US ft				
	Closure Distance : 7874.92 US ft	Closure Azimuth : 179.398°			
	Vertical Section (Position of Origin Relative to Slot)				
		+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az :179.40°	
Magnetic Parameters					
Model : BGGM	Field Strength : 48041.6nT	Dec : 7.20°	Dip : 59.91°	Date : 15/Oct/2015	

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Fighting Okra 18-19 Fed 21H (p)	0.00	17353.81	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 41H Lateral (p)
 Fighting Okra 18-19 Fed 41H Pilot (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

SD Anti-Collision Report

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

Anti Collision Proximity Summary (TVD relative to Well TVD Reference)

SF	Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
	Fighting Okra 18-19 Fed 41H Pilot (p)	5400.00	5398.00	5400.00	49.99	25.31	2.03	
	Fighting Okra Federal Com 1H ST01 (s)	9628.91	9627.67	9601.68	111.93	69.00	2.61	
	Fighting Okra Federal Com 1H ST00 (s)	9717.58	9672.51	9667.61	118.56	75.25	2.74	
	Fighting Okra 18-19 Fed 41H Lateral (p)	17353.81	18075.58	9809.00	567.00	448.93	4.80	

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T.Face to Sec (*)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
0.00	0.00	359.60	0.00	0.00	Fighting Okra 18-19 Fed 41H Pilot (p)	50.03	49.39	78.23	
100.00	100.00	359.60	0.11	0.11	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	49.13	58.19	
200.00	200.00	359.60	0.34	0.34	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	48.68	38.26	
300.00	300.00	359.60	0.56	0.56	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	48.24	28.47	
400.00	400.00	359.60	0.79	0.79	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	47.79	22.67	
500.00	500.00	359.60	1.01	1.01	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	47.34	18.83	
600.00	600.00	359.60	1.24	1.24	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	46.89	16.11	
700.00	700.00	359.60	1.46	1.46	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	46.44	14.07	
800.00	800.00	359.60	1.69	1.69	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	45.99	12.49	
900.00	900.00	359.60	1.91	1.91	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	45.54	11.23	
1000.00	1000.00	359.60	2.14	2.14	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	45.09	10.20	
1100.00	1100.00	359.60	2.36	2.36	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	44.64	9.34	
1200.00	1200.00	359.60	2.59	2.59	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	44.19	8.62	
1300.00	1300.00	359.60	2.81	2.81	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	43.74	8.00	
1400.00	1400.00	359.60	3.03	3.03	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	43.29	7.46	
1500.00	1500.00	359.60	3.26	3.26	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	42.84	6.99	
1600.00	1600.00	359.60	3.48	3.48	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	42.39	6.58	
1700.00	1700.00	359.60	3.71	3.71	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	41.94	6.21	
1800.00	1800.00	359.60	3.93	3.93	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	41.49	5.88	

SD Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
1900.00	1900.00	359.60	4.16	4.16	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	41.04	5.59	
2000.00	2000.00	359.60	4.38	4.38	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	40.59	5.32	
2100.00	2100.00	359.60	4.61	4.61	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	40.14	5.08	
2200.00	2200.00	359.60	4.83	4.83	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	39.69	4.86	
2300.00	2300.00	359.60	5.06	5.06	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	39.25	4.65	
2400.00	2400.00	359.60	5.28	5.28	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	38.80	4.47	
2500.00	2500.00	359.60	5.51	5.51	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	38.35	4.29	
2600.00	2600.00	359.60	5.73	5.73	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	37.90	4.13	
2700.00	2700.00	359.60	5.96	5.96	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	37.45	3.99	
2800.00	2800.00	359.60	6.18	6.18	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	37.00	3.85	
2900.00	2900.00	359.60	6.41	6.41	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	36.55	3.72	
3000.00	3000.00	359.60	6.63	6.63	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	36.10	3.60	
3100.00	3100.00	359.60	6.86	6.86	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	35.65	3.49	
3200.00	3200.00	359.60	7.08	7.08	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	35.20	3.38	
3300.00	3300.00	359.60	7.31	7.31	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	34.75	3.28	
3400.00	3400.00	359.60	7.53	7.53	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	34.30	3.19	
3500.00	3500.00	359.60	7.76	7.76	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	33.85	3.10	
3600.00	3600.00	359.60	7.98	7.98	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	33.40	3.01	
3700.00	3700.00	359.60	8.20	8.20	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	32.95	2.93	
3800.00	3800.00	359.60	8.43	8.43	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	32.50	2.86	
3900.00	3900.00	359.60	8.65	8.65	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	32.05	2.79	
4000.00	4000.00	359.60	8.88	8.88	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	31.60	2.72	
4100.00	4100.00	359.60	9.10	9.10	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	31.15	2.65	
4200.00	4200.00	359.60	9.33	9.33	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	30.70	2.59	
4300.00	4300.00	359.60	9.55	9.55	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	30.25	2.53	
4400.00	4400.00	359.60	9.78	9.78	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	29.80	2.48	

SD Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
4500.00	4500.00	359.60	10.00	10.00	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	29.35	2.42	
4600.00	4600.00	359.60	10.23	10.23	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	28.91	2.37	
4700.00	4700.00	359.60	10.45	10.45	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	28.46	2.32	
4800.00	4800.00	359.60	10.68	10.68	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	28.01	2.27	
4900.00	4900.00	359.60	10.90	10.90	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	27.56	2.23	
5000.00	5000.00	359.60	11.13	11.13	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	27.11	2.18	
5100.00	5100.00	359.60	11.35	11.35	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	26.66	2.14	
5200.00	5200.00	359.60	11.58	11.58	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	26.21	2.10	
5300.00	5300.00	359.60	11.80	11.80	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	25.76	2.06	
5400.00	5400.00	359.60	12.03	12.03	Fighting Okra 18-19 Fed 41H Pilot (p)	49.99	25.31	2.03	
5500.00	5499.99	191.89	12.22	12.22	Fighting Okra 18-19 Fed 41H Pilot (p)	50.84	25.77	2.03	
5600.00	5599.96	191.32	12.39	12.38	Fighting Okra 18-19 Fed 41H Pilot (p)	53.41	27.96	2.10	
5700.00	5699.86	190.48	12.56	12.54	Fighting Okra 18-19 Fed 41H Pilot (p)	57.69	31.82	2.23	
5800.00	5799.68	189.49	12.73	12.70	Fighting Okra 18-19 Fed 41H Pilot (p)	63.71	37.45	2.43	
5900.00	5899.37	188.46	12.90	12.85	Fighting Okra 18-19 Fed 41H Pilot (p)	71.46	44.80	2.68	
6000.00	5998.99	187.55	13.08	13.03	Fighting Okra 18-19 Fed 41H Pilot (p)	80.09	53.07	2.96	
6100.00	6098.60	186.81	13.26	13.20	Fighting Okra 18-19 Fed 41H Pilot (p)	88.74	61.30	3.23	
6200.00	6198.22	186.20	13.44	13.38	Fighting Okra 18-19 Fed 41H Pilot (p)	97.40	69.54	3.50	
6300.00	6297.84	185.69	13.63	13.56	Fighting Okra 18-19 Fed 41H Pilot (p)	106.06	77.83	3.76	
6400.00	6397.46	185.26	13.82	13.74	Fighting Okra 18-19 Fed 41H Pilot (p)	114.74	86.06	4.00	
6500.00	6497.08	184.89	14.01	13.93	Fighting Okra 18-19 Fed 41H Pilot (p)	123.42	94.36	4.25	
6600.00	6596.70	184.57	14.21	14.11	Fighting Okra 18-19 Fed 41H Pilot (p)	132.11	102.64	4.48	
6700.00	6696.32	184.28	14.41	14.30	Fighting Okra 18-19 Fed 41H Pilot (p)	140.80	110.90	4.71	
6800.00	6796.01	184.05	14.62	14.52	Fighting Okra 18-19 Fed 41H Pilot (p)	148.62	118.28	4.90	
6900.00	6895.82	183.89	14.85	14.76	Fighting Okra 18-19 Fed 41H Pilot (p)	154.71	123.93	5.03	
7000.00	6995.73	183.78	15.08	14.99	Fighting Okra 18-19 Fed 41H Pilot (p)	159.07	127.83	5.09	

SD Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
7100.00	7095.69	183.72	15.31	15.22	Fighting Okra 18-19 Fed 41H Pilot (p)	161.68	130.00	5.10	
7200.00	7195.69	351.20	15.53	15.44	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	130.43	5.06	
7300.00	7295.69	351.20	15.75	15.66	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	129.98	4.99	
7400.00	7395.69	351.20	15.97	15.89	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	129.53	4.92	
7500.00	7495.69	351.20	16.20	16.11	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	129.08	4.86	
7600.00	7595.69	351.20	16.42	16.33	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	128.63	4.79	
7700.00	7695.69	351.20	16.64	16.55	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	128.18	4.73	
7800.00	7795.69	351.20	16.86	16.78	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	127.74	4.67	
7900.00	7895.69	351.20	17.08	17.00	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	127.29	4.61	
8000.00	7995.69	351.20	17.30	17.22	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	126.84	4.55	
8100.00	8095.69	351.20	17.52	17.45	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	126.39	4.50	
8200.00	8195.69	351.20	17.75	17.67	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	125.94	4.44	
8300.00	8295.69	351.20	17.97	17.89	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	125.49	4.39	
8400.00	8395.69	351.20	18.19	18.12	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	125.05	4.33	
8500.00	8495.69	351.20	18.41	18.34	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	124.60	4.28	
8600.00	8595.69	351.20	18.63	18.56	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	124.15	4.23	
8700.00	8695.69	351.20	18.86	18.79	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	123.70	4.18	
8800.00	8795.69	351.20	19.08	19.01	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	123.25	4.14	
8900.00	8895.69	351.20	19.30	19.23	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	122.80	4.09	
9000.00	8995.69	351.20	19.52	19.46	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	122.36	4.04	
9100.00	9095.69	351.20	19.75	19.68	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	121.91	4.00	
9200.00	9195.69	351.20	19.97	19.90	Fighting Okra 18-19 Fed 41H Pilot (p)	162.55	121.46	3.96	
9300.00	9295.69	171.63	20.19	20.12	Fighting Okra 18-19 Fed 41H Pilot (p)	162.60	121.07	3.91	
9400.00	9394.92	171.99	20.37	20.08	Fighting Okra 18-19 Fed 41H Pilot (p)	173.50	131.57	4.14	
9500.00	9490.24	295.07	20.59	19.62	Fighting Okra Federal Com 1H ST01 (s)	157.60	117.31	3.91	
9600.00	9578.12	267.94	20.87	18.84	Fighting Okra Federal Com 1H ST01 (s)	114.11	71.79	2.70	

5D Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
9700.00	9655.35	268.60	21.19	17.87	Fighting Okra Federal Com 1H ST00 (s)	118.66	75.56	2.75	
9800.00	9719.09	259.96	21.60	16.76	Fighting Okra Federal Com 1H ST00 (s)	147.26	104.20	3.42	
9900.00	9766.99	270.39	22.17	15.79	Fighting Okra Federal Com 1H ST00 (s)	222.08	179.91	5.27	
10000.00	9797.30	295.36	22.86	15.08	Fighting Okra Federal Com 1H ST00 (s)	310.98	269.17	7.44	
10100.00	9808.89	318.94	23.65	14.81	Fighting Okra Federal Com 1H ST00 (s)	401.50	359.62	9.59	
10200.00	9809.00	323.81	24.54	14.98	Fighting Okra Federal Com 1H ST00 (s)	491.55	449.50	11.69	
10300.00	9809.00	326.25	25.53	15.18	Fighting Okra Federal Com 1H ST00 (s)	583.63	541.36	13.81	
10400.00	9809.00	328.08	26.61	15.41	Fighting Okra Federal Com 1H ST00 (s)	677.18	634.73	15.95	
10500.00	9809.00	179.97	27.77	15.68	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	533.35	16.85	
10600.00	9809.00	179.97	28.99	15.97	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	532.75	16.56	
10700.00	9809.00	179.97	30.28	16.29	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	532.11	16.25	
10800.00	9809.00	179.97	31.61	16.63	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	531.42	15.94	
10900.00	9809.00	179.97	33.00	17.00	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	530.69	15.61	
11000.00	9809.00	179.97	34.43	17.39	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	529.91	15.29	
11100.00	9809.00	179.97	35.89	17.81	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	529.06	14.94	
11200.00	9809.00	179.97	37.38	18.24	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	528.17	14.60	
11300.00	9809.00	179.97	38.91	18.69	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	527.24	14.26	
11400.00	9809.00	179.97	40.45	19.16	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	526.30	13.93	
11500.00	9809.00	179.98	42.03	19.64	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	525.37	13.62	
11600.00	9809.00	179.98	43.62	20.13	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	524.36	13.30	
11700.00	9809.00	179.98	45.22	20.60	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	523.45	13.02	
11800.00	9809.00	179.98	46.85	21.20	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	522.27	12.68	
11900.00	9809.00	179.98	48.49	21.73	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	521.21	12.38	
12000.00	9809.00	179.98	50.14	22.25	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	520.20	12.11	
12100.00	9809.00	179.98	51.80	22.85	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	518.98	11.81	
12200.00	9809.00	179.98	53.48	23.43	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	517.87	11.54	

5D Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
12300.00	9809.00	179.98	55.16	24.01	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	516.67	11.26	
12400.00	9809.00	179.98	56.86	24.60	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	515.50	11.01	
12500.00	9809.00	179.98	58.56	25.20	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	514.33	10.76	
12600.00	9809.00	179.98	60.27	25.80	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	513.16	10.53	
12700.00	9809.00	179.98	61.98	26.41	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	511.97	10.30	
12800.00	9809.00	179.98	63.70	27.02	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	510.77	10.08	
12900.00	9809.00	179.98	65.43	27.64	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	509.55	9.87	
13000.00	9809.00	179.98	67.16	28.27	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	508.29	9.66	
13100.00	9809.00	179.98	68.90	28.90	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	507.02	9.45	
13200.00	9809.00	179.98	70.64	29.54	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	505.75	9.26	
13300.00	9809.00	179.98	72.39	30.18	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	504.47	9.07	
13400.00	9809.00	179.98	74.14	30.83	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	503.18	8.88	
13500.00	9809.00	179.98	75.89	31.47	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	501.88	8.71	
13600.00	9809.00	179.98	77.65	32.13	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	500.58	8.54	
13700.00	9809.00	179.98	79.41	32.78	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	499.27	8.37	
13800.00	9809.00	179.99	81.17	33.44	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	497.96	8.21	
13900.00	9809.00	179.99	82.94	34.10	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	496.64	8.06	
14000.00	9809.00	179.99	84.71	34.77	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	495.31	7.91	
14100.00	9809.00	179.99	86.48	35.44	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	493.98	7.76	
14200.00	9809.00	179.99	88.25	36.11	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	492.65	7.63	
14300.00	9809.00	179.99	90.03	36.78	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	491.31	7.49	
14400.00	9809.00	179.99	91.81	37.45	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	489.96	7.36	
14500.00	9809.00	179.99	93.59	38.13	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	488.61	7.23	
14600.00	9809.00	179.99	95.37	38.81	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	487.26	7.11	
14700.00	9809.00	179.99	97.15	39.49	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	485.90	6.99	
14800.00	9809.00	179.99	98.93	40.17	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	484.54	6.88	

5D Anti-Collision Report

Primary Well : Fighting Okra 18-19 Fed 21H (p) (TVD Relative to Well TVD Reference ; All Azimuth Relative to GRID NORTH)									
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
14900.00	9809.00	179.99	100.72	40.86	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	483.18	6.76	
15000.00	9809.00	179.99	102.51	41.55	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	481.81	6.66	
15100.00	9809.00	179.99	104.30	42.23	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	480.44	6.55	
15200.00	9809.00	179.99	106.09	42.92	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	479.06	6.45	
15300.00	9809.00	179.99	107.88	43.61	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	477.69	6.35	
15400.00	9809.00	179.99	109.67	44.31	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	476.31	6.25	
15500.00	9809.00	179.99	111.47	45.00	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	474.92	6.16	
15600.00	9809.00	179.99	113.26	45.69	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	473.54	6.07	
15700.00	9809.00	179.99	115.06	46.39	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	472.15	5.98	
15800.00	9809.00	179.99	116.85	47.09	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	470.76	5.89	
15900.00	9809.00	179.99	118.65	47.79	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	469.37	5.81	
16000.00	9809.00	179.99	120.45	48.48	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	467.98	5.73	
16100.00	9809.00	179.99	122.25	49.18	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	466.58	5.65	
16200.00	9809.00	180.00	124.05	49.89	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	465.18	5.57	
16300.00	9809.00	180.00	125.85	50.59	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	463.78	5.49	
16400.00	9809.00	180.00	127.65	51.29	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	462.38	5.42	
16500.00	9809.00	180.00	129.46	52.00	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	460.98	5.35	
16600.00	9809.00	180.00	131.26	52.70	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	459.57	5.28	
16700.00	9809.00	180.00	133.06	53.41	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	458.16	5.21	
16800.00	9809.00	180.00	134.87	54.11	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	456.75	5.14	
16900.00	9809.00	180.00	136.67	54.82	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	455.34	5.08	
17000.00	9809.00	180.00	138.48	55.53	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	453.93	5.01	
17100.00	9809.00	180.00	140.29	56.23	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	452.52	4.95	
17200.00	9809.00	180.00	142.09	56.94	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	451.11	4.89	
17300.00	9809.00	180.00	143.90	57.65	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	449.69	4.83	
17353.81	9809.00	180.00	144.87	58.03	Fighting Okra 18-19 Fed 41H Lateral (p)	567.00	448.93	4.80	

SD Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST01 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	9326.90	9323.46	153.87	21.35	21.29	9333.26	9319.02	655.63	
100.00	9326.90	9323.46	153.87	21.35	21.29	9233.33	9216.79	558.52	
200.00	9326.90	9323.46	153.87	21.35	21.29	9133.40	9116.85	552.16	
300.00	9326.90	9323.46	153.87	21.35	21.29	9033.47	9016.91	545.60	
400.00	9326.90	9323.46	153.87	21.35	21.29	8933.54	8916.96	538.86	
500.00	9326.90	9323.46	153.87	21.35	21.29	8833.62	8817.01	531.97	
600.00	9326.90	9323.46	153.87	21.35	21.29	8733.69	8717.06	524.94	
700.00	9326.90	9323.46	153.87	21.35	21.29	8633.77	8617.10	517.78	
800.00	9326.90	9323.46	153.87	21.35	21.29	8533.85	8517.14	510.52	
900.00	9326.90	9323.46	153.87	21.35	21.29	8433.93	8417.17	503.16	
1000.00	9326.90	9323.46	153.87	21.35	21.29	8334.02	8317.21	495.74	
1100.00	9326.90	9323.46	153.87	21.35	21.29	8234.11	8217.24	488.25	
1200.00	9326.90	9323.46	153.87	21.35	21.29	8134.19	8117.27	480.72	
1300.00	9326.90	9323.46	153.87	21.35	21.29	8034.28	8017.30	473.15	
1400.00	9326.90	9323.46	153.87	21.35	21.29	7934.38	7917.34	465.56	
1500.00	9326.90	9323.46	153.87	21.35	21.29	7834.47	7817.37	457.96	
1600.00	9326.90	9323.46	153.87	21.35	21.29	7734.57	7717.40	450.36	
1700.00	9326.90	9323.46	153.87	21.35	21.29	7634.67	7617.43	442.75	
1800.00	9326.90	9323.46	153.87	21.35	21.29	7534.78	7517.46	435.16	
1900.00	9326.90	9323.46	153.87	21.35	21.29	7434.88	7417.49	427.58	
2000.00	9326.90	9323.46	153.87	21.35	21.29	7334.99	7317.53	420.02	
2100.00	9326.90	9323.46	153.87	21.35	21.29	7235.10	7217.56	412.49	
2200.00	9326.90	9323.46	153.87	21.35	21.29	7135.22	7117.60	404.98	
2300.00	9326.90	9323.46	153.87	21.35	21.29	7035.33	7017.64	397.51	
2400.00	9326.90	9323.46	153.87	21.35	21.29	6935.46	6917.68	390.08	
2500.00	9326.90	9323.46	153.87	21.35	21.29	6835.58	6817.72	382.68	
2600.00	9326.90	9323.46	153.87	21.35	21.29	6735.71	6717.76	375.32	
2700.00	9326.90	9323.46	153.87	21.35	21.29	6635.84	6617.81	368.00	
2800.00	9326.90	9323.46	153.87	21.35	21.29	6535.98	6517.86	360.73	
2900.00	9326.90	9323.46	153.87	21.35	21.29	6436.12	6417.91	353.50	
3000.00	9326.90	9323.46	153.87	21.35	21.29	6336.27	6317.97	346.31	
3100.00	9326.90	9323.46	153.87	21.35	21.29	6236.42	6218.03	339.14	
3200.00	9326.90	9323.46	153.87	21.35	21.29	6136.57	6118.09	332.01	
3300.00	9326.90	9323.46	153.87	21.35	21.29	6036.73	6018.15	324.94	
3400.00	9326.90	9323.46	153.87	21.35	21.29	5936.90	5918.22	317.92	
3500.00	9326.90	9323.46	153.87	21.35	21.29	5837.07	5818.30	310.94	
3600.00	9326.90	9323.46	153.87	21.35	21.29	5737.25	5718.37	304.01	
3700.00	9326.90	9323.46	153.87	21.35	21.29	5637.43	5618.46	297.14	
3800.00	9326.90	9323.46	153.87	21.35	21.29	5537.62	5518.55	290.31	
3900.00	9326.90	9323.46	153.87	21.35	21.29	5437.82	5418.64	283.54	
4000.00	9326.90	9323.46	153.87	21.35	21.29	5338.02	5318.74	276.82	
4100.00	9326.90	9323.46	153.87	21.35	21.29	5238.23	5218.84	270.14	
4200.00	9326.90	9323.46	153.87	21.35	21.29	5138.45	5118.96	263.52	
4300.00	9326.90	9323.46	153.87	21.35	21.29	5038.68	5019.07	256.91	
4400.00	9326.90	9323.46	153.87	21.35	21.29	4938.92	4919.19	250.34	
4500.00	9326.90	9323.46	153.87	21.35	21.29	4839.17	4819.32	243.83	
4600.00	9326.90	9323.46	153.87	21.35	21.29	4739.43	4719.46	237.38	
4700.00	9326.90	9323.46	153.87	21.35	21.29	4639.70	4619.61	230.97	
4800.00	9326.90	9323.46	153.87	21.35	21.29	4539.98	4519.77	224.62	
4900.00	9326.90	9323.46	153.87	21.35	21.29	4440.28	4419.94	218.32	
5000.00	9326.90	9323.46	153.87	21.35	21.29	4340.58	4320.12	212.08	
5100.00	9326.90	9323.46	153.87	21.35	21.29	4240.91	4220.31	205.90	
5200.00	9326.90	9323.46	153.87	21.35	21.29	4141.25	4120.52	199.77	
5300.00	9326.90	9323.46	153.87	21.35	21.29	4041.60	4020.73	193.70	
5400.00	9326.90	9323.46	153.87	21.35	21.29	3941.97	3920.97	187.69	
5500.00	9326.90	9323.46	343.09	21.35	21.29	3842.29	3821.15	181.73	
5600.00	9326.90	9323.46	338.01	21.35	21.29	3742.51	3721.23	175.85	
5700.00	9326.90	9323.46	329.28	21.35	21.29	3642.64	3621.22	170.05	

SD Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST01 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
5800.00	9326.90	9323.46	312.32	21.35	21.29	3542.71	3521.15	164.32	
5900.00	9326.90	9323.46	279.08	21.35	21.29	3442.74	3421.04	158.66	
6000.00	9326.90	9323.46	279.08	21.35	21.29	3342.77	3320.93	153.07	
6100.00	9326.90	9323.46	279.08	21.35	21.29	3242.80	3220.82	147.53	
6200.00	9326.90	9323.46	279.08	21.35	21.29	3142.84	3120.71	142.05	
6300.00	9326.90	9323.46	279.08	21.35	21.29	3042.87	3020.60	136.62	
6400.00	9326.90	9323.46	279.08	21.35	21.29	2942.91	2920.49	131.26	
6500.00	9326.90	9323.46	279.08	21.35	21.29	2842.95	2820.38	125.95	
6600.00	9326.90	9323.46	279.08	21.35	21.29	2742.99	2720.27	120.69	
6700.00	9326.90	9323.46	279.08	21.35	21.29	2643.04	2620.16	115.50	
6800.00	9326.90	9323.46	305.64	21.35	21.29	2543.10	2520.06	110.36	
6900.00	9326.90	9323.46	321.40	21.35	21.29	2443.21	2420.00	105.26	
7000.00	9326.90	9323.46	330.48	21.35	21.29	2343.40	2320.01	100.21	
7100.00	9326.90	9323.46	336.11	21.35	21.29	2243.72	2220.15	95.22	
7200.00	9326.90	9323.46	147.36	21.35	21.29	2144.22	2120.46	90.27	
7300.00	9326.90	9323.46	147.36	21.35	21.29	2044.85	2020.90	85.39	
7400.00	9326.90	9323.46	147.36	21.35	21.29	1945.55	1921.41	80.57	
7500.00	9326.90	9323.46	147.36	21.35	21.29	1846.33	1821.98	75.82	
7600.00	9326.90	9323.46	147.36	21.35	21.29	1747.19	1722.64	71.14	
7700.00	9326.90	9323.46	147.36	21.35	21.29	1648.16	1623.39	66.53	
7800.00	9326.90	9323.46	147.36	21.35	21.29	1549.26	1524.27	62.00	
7900.00	9326.90	9323.46	147.36	21.35	21.29	1450.50	1425.29	57.53	
8000.00	9326.90	9323.46	147.36	21.35	21.29	1351.93	1326.49	53.15	
8100.00	9326.90	9323.46	147.36	21.35	21.29	1253.58	1227.88	48.77	
8200.00	9326.90	9323.46	147.36	21.35	21.29	1155.52	1129.49	44.39	
8300.00	9326.90	9323.46	147.36	21.35	21.29	1057.82	1031.43	40.08	
8400.00	9326.90	9323.46	147.36	21.35	21.29	960.60	933.82	35.87	
8500.00	9326.90	9323.46	147.36	21.35	21.29	864.00	836.81	31.77	
8600.00	9326.90	9323.46	147.36	21.35	21.29	768.28	740.62	27.77	
8700.00	9326.90	9323.46	147.36	21.35	21.29	673.81	645.40	23.72	
8800.00	9326.90	9323.46	147.36	21.35	21.29	581.18	551.93	19.87	
8900.00	9326.90	9323.46	147.36	21.35	21.29	491.46	460.93	16.10	
9000.00	9326.90	9323.46	147.36	21.35	21.29	406.56	374.26	12.59	
9100.00	9326.90	9323.46	147.36	21.35	21.29	330.22	295.23	9.44	
9200.00	9326.90	9323.46	147.36	21.35	21.29	269.82	231.15	6.98	
9300.00	9326.90	9323.46	327.73	21.35	21.29	237.78	196.17	5.71	
9400.00	9459.23	9459.87	318.99	21.33	20.28	211.87	171.08	5.19	
9500.00	9551.78	9562.75	295.07	21.36	19.25	157.60	117.31	3.91	
9600.00	9598.22	9618.00	267.94	21.39	18.72	114.11	71.79	2.70	
9700.00	9617.45	9641.96	258.63	21.41	18.42	134.73	92.60	3.20	
9800.00	9619.90	9645.08	269.60	21.42	18.39	208.58	168.25	5.17	
9900.00	9611.36	9634.29	295.72	21.41	18.52	297.74	258.11	7.51	
10000.00	9595.45	9614.61	319.49	21.39	18.76	388.47	348.83	9.80	
10100.00	9573.15	9587.78	333.20	21.37	19.03	475.67	435.68	11.89	
10200.00	9547.39	9557.67	335.77	21.36	19.30	560.47	520.03	13.86	
10300.00	9524.31	9531.28	337.14	21.35	19.58	647.39	606.60	15.87	
10400.00	9504.73	9509.34	338.21	21.35	19.82	736.11	695.04	17.92	
10500.00	9488.51	9491.49	339.05	21.34	20.02	826.39	785.05	19.99	
10600.00	9473.74	9475.46	339.78	21.33	20.16	917.96	876.39	22.08	
10700.00	9460.18	9460.90	340.42	21.33	20.27	1010.56	968.77	24.18	
10800.00	9446.69	9446.53	341.03	21.33	20.35	1104.00	1062.04	26.31	
10900.00	9432.52	9431.53	341.64	21.33	20.42	1198.08	1155.95	28.44	
11000.00	9420.38	9418.76	342.14	21.33	20.51	1292.69	1250.41	30.57	
11100.00	9412.00	9409.98	342.48	21.33	20.61	1387.84	1345.41	32.71	
11200.00	9404.40	9402.06	342.78	21.33	20.68	1483.46	1440.90	34.86	
11300.00	9397.47	9394.87	343.05	21.33	20.75	1579.49	1536.81	37.01	
11400.00	9391.47	9388.66	343.28	21.32	20.81	1675.88	1633.10	39.17	
11500.00	9388.62	9385.72	343.38	21.33	20.86	1772.61	1729.73	41.34	

5D Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST01 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
11600.00	9386.02	9383.06	343.48	21.33	20.91	1869.64	1826.68	43.52	
11700.00	9383.65	9380.62	343.57	21.33	20.95	1966.95	1923.88	45.67	
11800.00	9381.48	9378.39	343.65	21.33	20.98	2064.48	2021.34	47.85	
11900.00	9379.47	9376.35	343.72	21.33	21.01	2162.23	2118.96	49.98	
12000.00	9377.62	9374.46	343.79	21.33	21.03	2260.15	2216.79	52.13	
12100.00	9375.91	9372.72	343.85	21.33	21.06	2358.23	2314.80	54.30	
12200.00	9374.32	9371.11	343.90	21.33	21.07	2456.45	2412.96	56.48	
12300.00	9372.84	9369.61	343.95	21.34	21.08	2554.80	2511.25	58.66	
12400.00	9371.47	9368.21	344.00	21.34	21.09	2653.27	2609.65	60.84	
12500.00	9370.18	9366.90	344.05	21.34	21.11	2751.83	2708.16	63.01	
12600.00	9368.97	9365.68	344.09	21.34	21.12	2850.49	2806.77	65.19	
12700.00	9367.83	9364.53	344.13	21.34	21.12	2949.24	2905.46	67.37	
12800.00	9366.77	9363.45	344.16	21.34	21.13	3048.06	3004.23	69.55	
12900.00	9365.76	9362.43	344.20	21.34	21.14	3146.95	3103.08	71.73	
13000.00	9364.81	9361.48	344.23	21.34	21.14	3245.90	3201.99	73.91	
13100.00	9363.92	9360.57	344.26	21.34	21.14	3344.91	3300.95	76.09	
13200.00	9363.07	9359.72	344.29	21.34	21.14	3443.98	3399.98	78.26	
13300.00	9362.26	9358.90	344.31	21.35	21.15	3543.10	3499.05	80.44	
13400.00	9361.50	9358.13	344.34	21.35	21.15	3642.26	3598.17	82.61	
13500.00	9360.77	9357.40	344.36	21.35	21.15	3741.46	3697.33	84.78	
13600.00	9360.08	9356.71	344.38	21.35	21.15	3840.70	3796.53	86.95	
13700.00	9359.42	9356.04	344.41	21.35	21.16	3939.98	3895.77	89.12	
13800.00	9358.80	9355.41	344.43	21.35	21.16	4039.29	3995.04	91.28	
13900.00	9358.20	9354.81	344.45	21.35	21.16	4138.64	4094.34	93.44	
14000.00	9357.62	9354.23	344.46	21.35	21.16	4238.01	4193.68	95.59	
14100.00	9357.08	9353.68	344.48	21.35	21.15	4337.41	4293.03	97.73	
14200.00	9356.55	9353.15	344.50	21.35	21.15	4436.84	4392.39	99.82	
14300.00	9356.05	9352.65	344.52	21.35	21.16	4536.29	4491.77	101.91	
14400.00	9355.56	9352.16	344.53	21.35	21.16	4635.76	4591.18	104.00	
14500.00	9355.10	9351.70	344.55	21.35	21.17	4735.25	4690.61	106.08	
14600.00	9354.65	9351.25	344.56	21.36	21.17	4834.77	4790.06	108.15	
14700.00	9354.23	9350.82	344.57	21.36	21.18	4934.30	4889.53	110.22	
14800.00	9353.81	9350.40	344.59	21.36	21.18	5033.85	4989.02	112.29	
14900.00	9353.42	9350.00	344.60	21.36	21.18	5133.42	5088.52	114.35	
15000.00	9353.03	9349.62	344.61	21.36	21.19	5233.00	5188.04	116.40	
15100.00	9352.66	9349.25	344.62	21.36	21.19	5332.60	5287.58	118.45	
15200.00	9352.31	9348.89	344.63	21.36	21.20	5432.21	5387.13	120.49	
15300.00	9351.96	9348.55	344.65	21.36	21.20	5531.84	5486.69	122.53	
15400.00	9351.63	9348.21	344.66	21.36	21.20	5631.48	5586.26	124.56	
15500.00	9351.31	9347.89	344.67	21.36	21.20	5731.13	5685.85	126.58	
15600.00	9351.00	9347.58	344.68	21.36	21.21	5830.79	5785.45	128.60	
15700.00	9350.70	9347.28	344.69	21.36	21.21	5930.46	5885.06	130.61	
15800.00	9350.41	9346.99	344.69	21.36	21.21	6030.15	5984.68	132.62	
15900.00	9350.13	9346.70	344.70	21.36	21.21	6129.84	6084.30	134.61	
16000.00	9349.85	9346.43	344.71	21.36	21.21	6229.54	6183.94	136.61	
16100.00	9349.59	9346.16	344.72	21.36	21.22	6329.26	6283.59	138.59	
16200.00	9349.33	9345.90	344.73	21.36	21.22	6428.98	6383.24	140.57	
16300.00	9349.08	9345.65	344.74	21.36	21.22	6528.70	6482.90	142.54	
16400.00	9348.84	9345.41	344.74	21.36	21.22	6628.44	6582.57	144.51	
16500.00	9348.60	9345.17	344.75	21.36	21.22	6728.19	6682.25	146.46	
16600.00	9348.37	9344.95	344.76	21.37	21.22	6827.94	6781.93	148.41	
16700.00	9348.15	9344.72	344.76	21.37	21.23	6927.70	6881.62	150.36	
16800.00	9347.93	9344.51	344.77	21.37	21.23	7027.46	6981.32	152.29	
16900.00	9347.72	9344.29	344.78	21.37	21.23	7127.23	7081.02	154.22	
17000.00	9347.52	9344.09	344.78	21.37	21.23	7227.01	7180.73	156.14	
17100.00	9347.32	9343.89	344.79	21.37	21.23	7326.80	7280.44	158.05	
17200.00	9347.12	9343.69	344.80	21.37	21.23	7426.58	7380.16	159.96	
17300.00	9346.93	9343.50	344.80	21.37	21.23	7526.38	7479.88	161.86	

SD Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST01 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
17353.81	9346.83	9343.40	344.81	21.37	21.23	7580.08	7533.54	162.88	

Secondary Well : Fighting Okra Federal Com 1H ST00 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	7.00	0.00	179.91	0.00	0.00	229.33	228.69	358.57	
100.00	100.07	93.07	179.86	0.14	0.14	229.21	228.32	258.35	
200.00	199.53	192.53	179.67	0.37	0.37	229.26	227.92	171.32	
300.00	299.68	292.69	179.35	0.62	0.62	229.47	227.65	126.18	
400.00	400.24	393.26	178.95	0.89	0.89	229.49	227.19	99.52	
500.00	499.66	492.70	178.55	1.15	1.15	229.49	226.70	82.18	
600.00	599.49	592.54	178.18	1.41	1.41	229.68	226.40	70.06	
700.00	699.51	692.57	177.84	1.68	1.68	229.91	226.14	60.99	
800.00	799.99	793.06	177.50	1.94	1.94	230.00	225.74	53.98	
900.00	899.74	892.82	177.13	2.21	2.21	230.06	225.31	48.45	
1000.00	999.29	992.38	176.76	2.47	2.47	230.23	224.99	43.98	
1100.00	1098.54	1091.64	176.51	2.72	2.72	230.77	225.06	40.40	
1200.00	1198.66	1191.76	176.29	2.98	2.97	231.33	225.14	37.37	
1300.00	1298.51	1291.62	175.99	3.23	3.23	232.00	225.33	34.79	
1400.00	1398.33	1391.45	175.70	3.47	3.47	232.59	225.47	32.66	
1500.00	1497.58	1490.70	175.66	3.65	3.65	233.51	225.98	31.01	
1600.00	1597.25	1590.38	175.65	3.83	3.82	234.61	226.68	29.57	
1700.00	1697.07	1690.21	175.56	4.03	4.03	235.83	227.48	28.23	
1800.00	1796.48	1789.63	175.51	4.24	4.24	237.16	228.37	26.98	
1900.00	1897.15	1890.31	175.44	4.45	4.45	238.60	229.37	25.85	
2000.00	1997.90	1991.07	175.39	4.68	4.68	239.60	229.93	24.76	
2100.00	2097.58	2090.75	175.30	4.92	4.91	240.51	230.38	23.75	
2200.00	2197.04	2190.22	175.19	5.16	5.16	241.63	231.02	22.79	
2300.00	2299.01	2292.19	175.02	5.42	5.42	242.49	231.41	21.87	
2400.00	2399.19	2392.37	174.87	5.68	5.68	242.87	231.29	20.98	
2500.00	2500.58	2493.77	174.69	5.92	5.92	242.88	230.85	20.18	
2600.00	2600.34	2593.54	174.28	6.15	6.14	242.70	230.21	19.44	
2700.00	2700.27	2693.50	173.75	6.38	6.38	242.56	229.60	18.72	
2800.00	2799.43	2792.70	173.11	6.62	6.62	242.54	229.11	18.06	
2900.00	2896.54	2889.88	172.28	6.87	6.86	243.31	229.40	17.50	
3000.00	2992.99	2986.43	171.32	7.12	7.11	245.51	231.12	17.07	
3100.00	3091.37	3084.97	170.32	7.39	7.37	248.81	233.94	16.73	
3200.00	3193.11	3186.87	169.26	7.66	7.64	252.06	236.70	16.41	
3300.00	3296.47	3290.36	168.13	7.93	7.91	254.08	238.23	16.03	
3400.00	3398.98	3393.01	166.96	8.18	8.17	254.94	238.61	15.61	
3500.00	3498.18	3492.33	165.89	8.43	8.41	255.29	238.49	15.20	
3600.00	3597.61	3591.88	164.78	8.68	8.66	256.24	238.98	14.84	
3700.00	3697.62	3692.00	163.78	8.93	8.91	257.15	239.40	14.49	
3800.00	3799.30	3793.78	162.77	9.18	9.16	257.82	239.59	14.14	
3900.00	3903.23	3897.81	161.77	9.42	9.39	257.38	238.68	13.77	
4000.00	4002.83	3997.51	160.85	9.63	9.60	256.16	237.04	13.40	
4100.00	4105.67	4100.43	160.01	9.82	9.80	254.43	234.91	13.03	
4200.00	4204.53	4199.36	159.34	10.00	9.97	252.37	232.44	12.66	
4300.00	4301.88	4296.73	158.86	10.18	10.15	251.17	230.82	12.34	
4400.00	4401.32	4396.20	158.45	10.39	10.36	250.51	229.72	12.05	
4500.00	4499.59	4494.51	157.83	10.62	10.59	250.23	228.99	11.78	
4600.00	4595.94	4590.92	157.03	10.87	10.83	251.11	229.42	11.57	
4700.00	4692.24	4687.33	156.09	11.12	11.08	253.47	231.33	11.45	
4800.00	4790.02	4785.25	155.26	11.38	11.34	257.11	234.50	11.37	
4900.00	4890.49	4885.83	154.71	11.64	11.60	260.87	237.76	11.29	
5000.00	4991.46	4986.88	154.26	11.90	11.85	264.36	240.75	11.20	
5100.00	5091.94	5087.43	153.78	12.16	12.11	267.37	243.27	11.09	
5200.00	5192.77	5188.33	153.32	12.42	12.37	270.34	245.75	10.99	
5300.00	5294.65	5290.25	152.93	12.69	12.64	272.64	247.56	10.87	

SD Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST00 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri. MD (US ft)	TVD (US ft)	Sec. MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
5400.00	5395.41	5391.05	152.46	12.96	12.91	274.41	248.84	10.73	
5500.00	5493.45	5489.13	344.51	13.21	13.16	275.49	249.48	10.59	
5600.00	5594.86	5590.57	344.09	13.47	13.42	275.25	248.82	10.42	
5700.00	5696.16	5691.90	343.48	13.74	13.69	272.63	245.79	10.16	
5800.00	5793.13	5788.90	342.86	13.99	13.93	268.62	241.32	9.84	
5900.00	5893.92	5889.71	342.22	14.23	14.17	263.43	235.73	9.51	
6000.00	5994.15	5989.97	341.49	14.48	14.42	257.09	228.93	9.13	
6100.00	6092.63	6088.47	340.67	14.73	14.67	250.99	222.43	8.79	
6200.00	6192.32	6188.19	339.78	14.98	14.93	245.17	216.21	8.47	
6300.00	6292.36	6288.26	339.02	15.22	15.16	239.44	210.05	8.15	
6400.00	6393.86	6389.78	338.22	15.46	15.40	233.16	203.37	7.83	
6500.00	6493.45	6489.39	337.31	15.71	15.65	226.57	196.31	7.49	
6600.00	6592.43	6588.38	336.37	15.95	15.89	220.41	189.74	7.19	
6700.00	6692.77	6688.73	335.46	16.19	16.13	214.28	183.16	6.89	
6800.00	6793.37	6789.35	334.51	16.45	16.38	208.61	177.01	6.60	
6900.00	6892.46	6888.45	333.69	16.69	16.63	204.41	172.34	6.37	
7000.00	6992.85	6988.86	333.33	16.89	16.83	202.29	169.82	6.23	
7100.00	7093.75	7089.78	333.40	17.06	16.99	201.03	168.19	6.12	
7200.00	7194.34	7190.37	141.04	17.21	17.14	201.09	167.88	6.05	
7300.00	7292.78	7288.82	141.21	17.39	17.33	202.02	168.40	6.01	
7400.00	7393.90	7389.95	141.25	17.61	17.55	203.34	169.29	5.97	
7500.00	7494.05	7490.10	141.27	17.85	17.79	204.12	169.61	5.92	
7600.00	7592.74	7588.80	141.15	18.11	18.05	205.22	170.24	5.87	
7700.00	7692.40	7688.47	141.11	18.35	18.29	206.74	171.29	5.83	
7800.00	7791.05	7787.14	141.34	18.57	18.51	208.66	172.78	5.81	
7900.00	7891.20	7887.32	141.61	18.78	18.72	210.85	174.52	5.80	
8000.00	7991.46	7987.61	141.93	18.99	18.92	212.82	176.05	5.79	
8100.00	8090.28	8086.46	142.09	19.21	19.14	215.21	177.98	5.78	
8200.00	8191.03	8187.23	142.28	19.43	19.37	217.40	179.71	5.77	
8300.00	8290.36	8286.60	142.58	19.64	19.58	219.79	181.67	5.77	
8400.00	8390.87	8387.14	142.93	19.86	19.79	222.04	183.48	5.76	
8500.00	8491.49	8487.79	143.13	20.07	20.01	224.14	185.14	5.75	
8600.00	8592.37	8588.70	143.52	20.26	20.19	225.76	186.35	5.73	
8700.00	8693.39	8689.74	144.01	20.41	20.34	227.06	187.28	5.71	
8800.00	8793.09	8789.47	144.53	20.54	20.48	227.99	187.86	5.68	
8900.00	8892.78	8889.19	145.06	20.69	20.62	229.27	188.79	5.66	
9000.00	8991.55	8988.00	145.62	20.84	20.78	230.71	189.88	5.65	
9100.00	9092.39	9088.88	146.18	21.00	20.94	232.45	191.25	5.64	
9200.00	9192.32	9188.84	146.68	21.16	21.10	233.81	192.22	5.62	
9300.00	9292.21	9288.76	327.61	21.32	21.26	235.23	193.25	5.60	
9400.00	9393.75	9390.33	326.09	21.44	21.37	227.15	184.90	5.38	
9500.00	9512.10	9508.91	317.40	21.45	21.23	199.84	157.67	4.74	
9600.00	9610.66	9610.05	293.76	21.46	20.79	151.97	109.96	3.62	
9700.00	9663.28	9666.04	268.60	21.46	20.40	118.66	75.56	2.75	
9800.00	9687.33	9692.35	259.96	21.46	20.22	147.26	104.20	3.42	
9900.00	9691.92	9697.43	270.39	21.47	20.18	222.08	179.91	5.27	
10000.00	9683.43	9688.05	295.36	21.46	20.26	310.98	269.17	7.44	
10100.00	9665.91	9668.89	318.94	21.46	20.39	401.50	359.62	9.59	
10200.00	9646.04	9647.48	323.81	21.46	20.51	491.55	449.50	11.69	
10300.00	9629.31	9629.68	326.25	21.46	20.64	583.63	541.36	13.81	
10400.00	9615.03	9614.63	328.08	21.46	20.75	677.18	634.73	15.95	
10500.00	9601.71	9600.70	329.63	21.46	20.85	771.79	729.16	18.10	
10600.00	9589.54	9588.04	330.92	21.46	20.92	867.17	824.41	20.28	
10700.00	9578.84	9576.97	331.97	21.46	20.98	963.17	920.32	22.47	
10800.00	9569.71	9567.57	332.81	21.46	21.03	1059.67	1016.75	24.68	
10900.00	9561.59	9559.23	333.54	21.46	21.08	1156.59	1113.61	26.91	
11000.00	9554.32	9551.79	334.16	21.46	21.11	1253.86	1210.79	29.11	
11100.00	9547.77	9545.10	334.70	21.45	21.14	1351.42	1308.27	31.32	

SD Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST00 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
11200.00	9541.81	9539.03	335.18	21.45	21.16	1449.22	1406.00	33.53	
11300.00	9536.40	9533.52	335.60	21.45	21.18	1547.24	1503.96	35.75	
11400.00	9531.45	9528.49	335.98	21.45	21.19	1645.43	1602.10	37.97	
11500.00	9526.91	9523.89	336.31	21.45	21.20	1743.79	1700.41	40.20	
11600.00	9522.73	9519.66	336.62	21.45	21.21	1842.28	1798.86	42.43	
11700.00	9518.92	9515.80	336.89	21.45	21.22	1940.90	1897.46	44.68	
11800.00	9515.90	9512.75	337.10	21.45	21.22	2039.62	1996.11	46.88	
11900.00	9513.11	9509.93	337.29	21.45	21.23	2138.45	2094.89	49.10	
12000.00	9510.51	9507.31	337.47	21.46	21.23	2237.36	2193.77	51.33	
12100.00	9508.09	9504.87	337.63	21.46	21.23	2336.35	2292.72	53.55	
12200.00	9505.84	9502.60	337.78	21.46	21.24	2435.40	2391.74	55.77	
12300.00	9503.73	9500.47	337.92	21.46	21.24	2534.53	2490.82	57.99	
12400.00	9501.75	9498.48	338.05	21.46	21.24	2633.71	2589.96	60.20	
12500.00	9499.89	9496.61	338.16	21.46	21.24	2732.94	2689.14	62.40	
12600.00	9498.15	9494.85	338.27	21.46	21.24	2832.21	2788.37	64.60	
12700.00	9496.50	9493.19	338.38	21.46	21.25	2931.53	2887.65	66.80	
12800.00	9494.94	9491.63	338.47	21.46	21.26	3030.89	2986.96	69.00	
12900.00	9493.47	9490.15	338.57	21.46	21.27	3130.29	3086.32	71.19	
13000.00	9492.08	9488.75	338.65	21.46	21.27	3229.72	3185.70	73.37	
13100.00	9490.76	9487.42	338.73	21.46	21.28	3329.18	3285.11	75.56	
13200.00	9489.50	9486.16	338.81	21.46	21.28	3428.66	3384.55	77.73	
13300.00	9488.31	9484.96	338.88	21.46	21.29	3528.17	3484.02	79.91	
13400.00	9487.17	9483.82	338.95	21.46	21.29	3627.71	3583.51	82.08	
13500.00	9486.08	9482.72	339.01	21.46	21.30	3727.27	3683.02	84.24	
13600.00	9485.03	9481.67	339.07	21.46	21.30	3826.85	3782.55	86.40	
13700.00	9484.04	9480.67	339.13	21.46	21.30	3926.44	3882.11	88.56	
13800.00	9483.08	9479.72	339.18	21.46	21.31	4026.06	3981.67	90.71	
13900.00	9482.17	9478.80	339.24	21.47	21.31	4125.69	4081.26	92.85	
14000.00	9481.30	9477.92	339.29	21.47	21.31	4225.34	4180.86	94.99	
14100.00	9480.46	9477.08	339.33	21.47	21.31	4325.00	4280.47	97.12	
14200.00	9479.65	9476.28	339.38	21.47	21.32	4424.68	4380.10	99.25	
14300.00	9478.88	9475.50	339.42	21.47	21.32	4524.37	4479.74	101.37	
14400.00	9478.14	9474.75	339.47	21.47	21.32	4624.07	4579.39	103.49	
14500.00	9477.42	9474.04	339.51	21.47	21.32	4723.78	4679.05	105.60	
14600.00	9476.73	9473.34	339.54	21.47	21.32	4823.51	4778.72	107.70	
14700.00	9476.07	9472.68	339.58	21.47	21.33	4923.24	4878.40	109.80	
14800.00	9475.43	9472.04	339.62	21.47	21.33	5022.99	4978.09	111.89	
14900.00	9474.81	9471.42	339.65	21.47	21.33	5122.74	5077.79	113.97	
15000.00	9474.21	9470.82	339.68	21.47	21.33	5222.50	5177.50	116.05	
15100.00	9473.63	9470.24	339.71	21.47	21.33	5322.27	5277.21	118.12	
15200.00	9473.08	9469.68	339.75	21.47	21.33	5422.05	5376.94	120.18	
15300.00	9472.54	9469.14	339.77	21.47	21.33	5521.83	5476.66	122.24	
15400.00	9472.02	9468.62	339.80	21.47	21.33	5621.63	5576.40	124.29	
15500.00	9471.51	9468.12	339.83	21.47	21.34	5721.43	5676.14	126.34	
15600.00	9471.02	9467.63	339.86	21.47	21.34	5821.23	5775.88	128.37	
15700.00	9470.55	9467.15	339.88	21.47	21.34	5921.04	5875.64	130.40	
15800.00	9470.09	9466.69	339.91	21.47	21.34	6020.86	5975.39	132.42	
15900.00	9469.64	9466.24	339.93	21.47	21.34	6120.68	6075.15	134.44	
16000.00	9469.21	9465.81	339.95	21.47	21.34	6220.51	6174.92	136.44	
16100.00	9468.79	9465.39	339.97	21.47	21.34	6320.35	6274.69	138.44	
16200.00	9468.38	9464.98	340.00	21.47	21.34	6420.18	6374.47	140.43	
16300.00	9467.99	9464.58	340.02	21.47	21.34	6520.03	6474.24	142.41	
16400.00	9467.60	9464.20	340.04	21.47	21.34	6619.87	6574.03	144.39	
16500.00	9467.22	9463.82	340.06	21.47	21.34	6719.72	6673.81	146.35	
16600.00	9466.86	9463.46	340.08	21.47	21.34	6819.58	6773.60	148.31	
16700.00	9466.50	9463.10	340.10	21.47	21.35	6919.44	6873.39	150.27	
16800.00	9466.16	9462.75	340.11	21.47	21.35	7019.30	6973.19	152.21	
16900.00	9465.82	9462.42	340.13	21.47	21.35	7119.17	7072.99	154.15	

5D Anti-Collision Report

Secondary Well : Fighting Okra Federal Com 1H ST00 (s) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
17000.00	9465.49	9462.09	340.15	21.47	21.35	7219.04	7172.79	156.08	
17100.00	9465.17	9461.77	340.16	21.47	21.35	7318.91	7272.59	158.00	
17200.00	9464.86	9461.46	340.18	21.47	21.35	7418.79	7372.40	159.91	
17300.00	9464.56	9461.15	340.20	21.47	21.35	7518.67	7472.21	161.81	
17353.81	9464.40	9460.99	340.20	21.47	21.35	7572.42	7525.91	162.84	

Secondary Well : Fighting Okra 18-19 Fed 41H Lateral (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	9853.65	9851.65	359.60	22.03	22.03	9853.78	9838.34	638.32	
100.00	9853.65	9851.65	359.60	22.03	22.03	9753.78	9736.04	549.98	
200.00	9853.65	9851.65	359.60	22.03	22.03	9653.78	9636.03	544.04	
300.00	9853.65	9851.65	359.60	22.03	22.03	9553.78	9536.02	537.93	
400.00	9853.65	9851.65	359.60	22.03	22.03	9453.78	9436.00	531.65	
500.00	9853.65	9851.65	359.60	22.03	22.03	9353.78	9335.97	525.23	
600.00	9853.65	9851.65	359.60	22.03	22.03	9253.79	9235.94	518.67	
700.00	9853.65	9851.65	359.60	22.03	22.03	9153.79	9135.91	512.00	
800.00	9853.65	9851.65	359.60	22.03	22.03	9053.79	9035.87	505.23	
900.00	9853.65	9851.65	359.60	22.03	22.03	8953.79	8935.82	498.37	
1000.00	9853.65	9851.65	359.60	22.03	22.03	8853.79	8835.78	491.44	
1100.00	9853.65	9851.65	359.60	22.03	22.03	8753.79	8735.72	484.46	
1200.00	9853.65	9851.65	359.60	22.03	22.03	8653.79	8635.67	477.43	
1300.00	9853.65	9851.65	359.60	22.03	22.03	8553.80	8535.61	470.36	
1400.00	9853.65	9851.65	359.60	22.03	22.03	8453.80	8435.55	463.27	
1500.00	9853.65	9851.65	359.60	22.03	22.03	8353.80	8335.49	456.17	
1600.00	9853.65	9851.65	359.60	22.03	22.03	8253.80	8235.42	449.05	
1700.00	9853.65	9851.65	359.60	22.03	22.03	8153.80	8135.35	441.94	
1800.00	9853.65	9851.65	359.60	22.03	22.03	8053.81	8035.28	434.83	
1900.00	9853.65	9851.65	359.60	22.03	22.03	7953.81	7935.21	427.73	
2000.00	9853.65	9851.65	359.60	22.03	22.03	7853.81	7835.14	420.65	
2100.00	9853.65	9851.65	359.60	22.03	22.03	7753.81	7735.06	413.58	
2200.00	9853.65	9851.65	359.60	22.03	22.03	7653.81	7634.99	406.54	
2300.00	9853.65	9851.65	359.60	22.03	22.03	7553.82	7534.91	399.53	
2400.00	9853.65	9851.65	359.60	22.03	22.03	7453.82	7434.83	392.54	
2500.00	9853.65	9851.65	359.60	22.03	22.03	7353.82	7334.75	385.58	
2600.00	9853.65	9851.65	359.60	22.03	22.03	7253.82	7234.67	378.66	
2700.00	9853.65	9851.65	359.60	22.03	22.03	7153.82	7134.58	371.77	
2800.00	9853.65	9851.65	359.60	22.03	22.03	7053.83	7034.50	364.92	
2900.00	9853.65	9851.65	359.60	22.03	22.03	6953.83	6934.41	358.10	
3000.00	9853.65	9851.65	359.60	22.03	22.03	6853.83	6834.32	351.33	
3100.00	9853.65	9851.65	359.60	22.03	22.03	6753.84	6734.24	344.59	
3200.00	9853.65	9851.65	359.60	22.03	22.03	6653.84	6634.15	337.89	
3300.00	9853.65	9851.65	359.60	22.03	22.03	6553.84	6534.05	331.23	
3400.00	9853.65	9851.65	359.60	22.03	22.03	6453.84	6433.96	324.61	
3500.00	9853.65	9851.65	359.60	22.03	22.03	6353.85	6333.87	318.04	
3600.00	9853.65	9851.65	359.60	22.03	22.03	6253.85	6233.77	311.51	
3700.00	9853.65	9851.65	359.60	22.03	22.03	6153.85	6133.68	305.01	
3800.00	9853.65	9851.65	359.60	22.03	22.03	6053.86	6033.58	298.57	
3900.00	9853.65	9851.65	359.60	22.03	22.03	5953.86	5933.48	292.16	
4000.00	9853.65	9851.65	359.60	22.03	22.03	5853.86	5833.38	285.80	
4100.00	9853.65	9851.65	359.60	22.03	22.03	5753.87	5733.28	279.48	
4200.00	9853.65	9851.65	359.60	22.03	22.03	5653.87	5633.18	273.20	
4300.00	9853.65	9851.65	359.60	22.03	22.03	5553.87	5533.07	266.97	
4400.00	9853.65	9851.65	359.60	22.03	22.03	5453.88	5432.97	260.79	
4500.00	9853.65	9851.65	359.60	22.03	22.03	5353.88	5332.86	254.64	
4600.00	9853.65	9851.65	359.60	22.03	22.03	5253.89	5232.75	248.55	
4700.00	9853.65	9851.65	359.60	22.03	22.03	5153.89	5132.64	242.50	
4800.00	9853.65	9851.65	359.60	22.03	22.03	5053.90	5032.53	236.49	
4900.00	9853.65	9851.65	359.60	22.03	22.03	4953.90	4932.41	230.53	

5D Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Lateral (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
5000.00	9853.65	9851.65	359.60	22.03	22.03	4853.91	4832.30	224.62	
5100.00	9853.65	9851.65	359.60	22.03	22.03	4753.91	4732.18	218.75	
5200.00	9853.65	9851.65	359.60	22.03	22.03	4653.92	4632.06	212.93	
5300.00	9853.65	9851.65	359.60	22.03	22.03	4553.92	4531.94	207.16	
5400.00	9853.65	9851.65	359.60	22.03	22.03	4453.93	4431.82	201.43	
5500.00	9853.65	9851.65	184.76	22.03	22.03	4353.95	4331.71	195.76	
5600.00	9853.65	9851.65	182.99	22.03	22.03	4254.03	4231.65	190.14	
5700.00	9853.65	9851.65	182.19	22.03	22.03	4154.19	4131.68	184.57	
5800.00	9853.65	9851.65	181.74	22.03	22.03	4054.48	4031.83	179.06	
5900.00	9853.65	9851.65	181.45	22.03	22.03	3954.93	3932.15	173.62	
6000.00	9853.65	9851.65	181.45	22.03	22.03	3855.50	3832.58	168.23	
6100.00	9853.65	9851.65	181.45	22.03	22.03	3756.09	3733.03	162.89	
6200.00	9853.65	9851.65	181.45	22.03	22.03	3656.72	3633.52	157.60	
6300.00	9853.65	9851.65	181.45	22.03	22.03	3557.39	3534.04	152.36	
6400.00	9853.65	9851.65	181.45	22.03	22.03	3458.09	3434.60	147.18	
6500.00	9853.65	9851.65	181.45	22.03	22.03	3358.84	3335.19	142.06	
6600.00	9853.65	9851.65	181.45	22.03	22.03	3259.63	3235.83	136.99	
6700.00	9853.65	9851.65	181.45	22.03	22.03	3160.47	3136.52	131.98	
6800.00	9853.65	9851.65	181.66	22.03	22.03	3061.25	3037.14	126.97	
6900.00	9853.65	9851.65	181.94	22.03	22.03	2961.87	2937.59	121.99	
7000.00	9853.65	9851.65	182.32	22.03	22.03	2862.35	2837.89	117.07	
7100.00	9853.65	9851.65	182.86	22.03	22.03	2762.69	2738.07	112.20	
7200.00	9853.65	9851.65	351.20	22.03	22.03	2662.93	2638.12	107.36	
7300.00	9853.65	9851.65	351.20	22.03	22.03	2563.12	2538.13	102.57	
7400.00	9853.65	9851.65	351.20	22.03	22.03	2463.33	2438.16	97.85	
7500.00	9853.65	9851.65	351.20	22.03	22.03	2363.56	2338.19	93.18	
7600.00	9853.65	9851.65	351.20	22.03	22.03	2263.81	2238.25	88.57	
7700.00	9853.65	9851.65	351.20	22.03	22.03	2164.08	2138.32	84.02	
7800.00	9853.65	9851.65	351.20	22.03	22.03	2064.37	2038.41	79.52	
7900.00	9853.65	9851.65	351.20	22.03	22.03	1964.70	1938.53	75.08	
8000.00	9853.65	9851.65	351.20	22.03	22.03	1865.06	1838.68	70.71	
8100.00	9853.65	9851.65	351.20	22.03	22.03	1765.46	1738.87	66.39	
8200.00	9853.65	9851.65	351.20	22.03	22.03	1665.91	1639.10	62.13	
8300.00	9853.65	9851.65	351.20	22.03	22.03	1566.42	1539.38	57.94	
8400.00	9853.65	9851.65	351.20	22.03	22.03	1467.00	1439.73	53.80	
8500.00	9853.65	9851.65	351.20	22.03	22.03	1367.66	1340.15	49.73	
8600.00	9853.65	9851.65	351.20	22.03	22.03	1268.42	1240.68	45.72	
8700.00	9853.65	9851.65	351.20	22.03	22.03	1169.32	1141.32	41.77	
8800.00	9853.65	9851.65	351.20	22.03	22.03	1070.38	1042.13	37.90	
8900.00	9853.65	9851.65	351.20	22.03	22.03	971.66	943.15	34.08	
9000.00	9853.65	9851.65	351.20	22.03	22.03	873.23	844.37	30.26	
9100.00	9853.65	9851.65	351.20	22.03	22.03	775.20	745.91	26.47	
9200.00	9853.65	9851.65	351.20	22.03	22.03	677.74	647.99	22.78	
9300.00	9853.65	9851.65	172.02	22.03	22.03	581.17	550.91	19.20	
9400.00	9853.65	9851.65	174.84	22.03	22.03	490.44	459.16	15.68	
9500.00	9853.65	9851.65	175.86	22.03	22.03	416.27	383.08	12.54	
9600.00	9853.65	9851.65	176.24	22.03	22.03	372.13	335.81	10.25	
9700.00	9853.65	9851.65	176.25	22.03	22.03	370.69	330.81	9.30	
9800.00	9853.65	9851.65	175.90	22.03	22.03	412.44	370.20	9.77	
9900.00	9853.65	9851.65	174.94	22.03	22.03	485.15	441.91	11.22	
10000.00	9853.65	9851.65	172.32	22.03	22.03	575.15	531.60	13.21	
10100.00	10376.00	10821.77	179.97	25.71	16.46	567.11	535.26	17.81	
10200.00	10376.00	10921.77	179.97	26.59	16.66	567.00	534.80	17.61	
10300.00	10376.00	11021.77	179.97	27.56	16.88	567.00	534.37	17.38	
10400.00	10376.00	11121.77	179.97	28.62	17.14	567.00	533.89	17.12	
10500.00	10376.00	11221.77	179.97	29.75	17.41	567.00	533.35	16.85	
10600.00	10376.00	11321.77	179.97	30.94	17.72	567.00	532.75	16.56	
10700.00	10376.00	11421.77	179.97	32.20	18.04	567.00	532.11	16.25	

SD Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Lateral (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
10800.00	10376.00	11521.77	179.97	33.51	18.39	567.00	531.42	15.94	
10900.00	10376.00	11621.77	179.97	34.86	18.75	567.00	530.69	15.61	
11000.00	10376.00	11721.77	179.97	36.26	19.13	567.00	529.91	15.29	
11100.00	10376.00	11821.77	179.97	37.69	19.57	567.00	529.06	14.94	
11200.00	10376.00	11921.77	179.97	39.16	20.03	567.00	528.17	14.60	
11300.00	10376.00	12021.77	179.97	40.66	20.51	567.00	527.24	14.26	
11400.00	10376.00	12121.77	179.97	42.18	20.98	567.00	526.30	13.93	
11500.00	10376.00	12221.77	179.98	43.72	21.43	567.00	525.37	13.62	
11600.00	10376.00	12321.77	179.98	45.29	21.94	567.00	524.36	13.30	
11700.00	10376.00	12421.77	179.98	46.87	22.39	567.00	523.45	13.02	
11800.00	10376.00	12521.77	179.98	48.48	22.97	567.00	522.27	12.68	
11900.00	10376.00	12621.77	179.98	50.09	23.50	567.00	521.21	12.38	
12000.00	10376.00	12721.77	179.98	51.72	23.99	567.00	520.20	12.11	
12100.00	10376.00	12821.77	179.98	53.37	24.62	567.00	518.98	11.81	
12200.00	10376.00	12921.77	179.98	55.02	25.14	567.00	517.87	11.54	
12300.00	10376.00	13021.77	179.98	56.69	25.76	567.00	516.67	11.26	
12400.00	10376.00	13121.77	179.98	58.37	26.34	567.00	515.50	11.01	
12500.00	10376.00	13221.77	179.98	60.05	26.91	567.00	514.33	10.76	
12600.00	10376.00	13321.77	179.98	61.74	27.49	567.00	513.16	10.53	
12700.00	10376.00	13421.77	179.98	63.44	28.06	567.00	511.97	10.30	
12800.00	10376.00	13521.77	179.98	65.15	28.64	567.00	510.77	10.08	
12900.00	10376.00	13621.77	179.98	66.86	29.24	567.00	509.55	9.87	
13000.00	10376.00	13721.77	179.98	68.58	29.88	567.00	508.29	9.66	
13100.00	10376.00	13821.77	179.98	70.31	30.51	567.00	507.02	9.45	
13200.00	10376.00	13921.77	179.98	72.04	31.15	567.00	505.75	9.26	
13300.00	10376.00	14021.77	179.98	73.77	31.79	567.00	504.47	9.07	
13400.00	10376.00	14121.77	179.98	75.51	32.44	567.00	503.18	8.88	
13500.00	10376.00	14221.77	179.98	77.26	33.08	567.00	501.88	8.71	
13600.00	10376.00	14321.77	179.98	79.00	33.73	567.00	500.58	8.54	
13700.00	10376.00	14421.77	179.98	80.75	34.39	567.00	499.27	8.37	
13800.00	10376.00	14521.77	179.99	82.51	35.04	567.00	497.96	8.21	
13900.00	10376.00	14621.77	179.99	84.26	35.70	567.00	496.64	8.06	
14000.00	10376.00	14721.77	179.99	86.02	36.36	567.00	495.31	7.91	
14100.00	10376.00	14821.77	179.99	87.79	37.02	567.00	493.98	7.76	
14200.00	10376.00	14921.77	179.99	89.55	37.69	567.00	492.65	7.63	
14300.00	10376.00	15021.77	179.99	91.32	38.36	567.00	491.31	7.49	
14400.00	10376.00	15121.77	179.99	93.09	39.02	567.00	489.96	7.36	
14500.00	10376.00	15221.77	179.99	94.86	39.70	567.00	488.61	7.23	
14600.00	10376.00	15321.77	179.99	96.63	40.37	567.00	487.26	7.11	
14700.00	10376.00	15421.77	179.99	98.41	41.05	567.00	485.90	6.99	
14800.00	10376.00	15521.77	179.99	100.19	41.73	567.00	484.54	6.88	
14900.00	10376.00	15621.77	179.99	101.97	42.40	567.00	483.18	6.76	
15000.00	10376.00	15721.77	179.99	103.75	43.09	567.00	481.81	6.66	
15100.00	10376.00	15821.77	179.99	105.53	43.77	567.00	480.44	6.55	
15200.00	10376.00	15921.77	179.99	107.32	44.45	567.00	479.06	6.45	
15300.00	10376.00	16021.77	179.99	109.10	45.14	567.00	477.69	6.35	
15400.00	10376.00	16121.77	179.99	110.89	45.83	567.00	476.31	6.25	
15500.00	10376.00	16221.77	179.99	112.68	46.52	567.00	474.92	6.16	
15600.00	10376.00	16321.77	179.99	114.47	47.21	567.00	473.54	6.07	
15700.00	10376.00	16421.77	179.99	116.26	47.90	567.00	472.15	5.98	
15800.00	10376.00	16521.77	179.99	118.05	48.59	567.00	470.76	5.89	
15900.00	10376.00	16621.77	179.99	119.84	49.28	567.00	469.37	5.81	
16000.00	10376.00	16721.77	179.99	121.64	49.98	567.00	467.98	5.73	
16100.00	10376.00	16821.77	179.99	123.43	50.68	567.00	466.58	5.65	
16200.00	10376.00	16921.77	180.00	125.23	51.37	567.00	465.18	5.57	
16300.00	10376.00	17021.77	180.00	127.03	52.07	567.00	463.78	5.49	
16400.00	10376.00	17121.77	180.00	128.82	52.77	567.00	462.38	5.42	
16500.00	10376.00	17221.77	180.00	130.62	53.47	567.00	460.98	5.35	

SD Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Lateral (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
16600.00	10376.00	17321.77	180.00	132.42	54.17	567.00	459.57	5.28	
16700.00	10376.00	17421.77	180.00	134.22	54.87	567.00	458.16	5.21	
16800.00	10376.00	17521.77	180.00	136.02	55.57	567.00	456.75	5.14	
16900.00	10376.00	17621.77	180.00	137.82	56.28	567.00	455.34	5.08	
17000.00	10376.00	17721.77	180.00	139.63	56.98	567.00	453.93	5.01	
17100.00	10376.00	17821.77	180.00	141.43	57.69	567.00	452.52	4.95	
17200.00	10376.00	17921.77	180.00	143.23	58.39	567.00	451.11	4.89	
17300.00	10376.00	18021.77	180.00	145.04	59.10	567.00	449.69	4.83	
17353.81	10376.00	18075.58	180.00	146.01	59.48	567.00	448.93	4.80	

Secondary Well : Fighting Okra 18-19 Fed 41H Pilot (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
0.00	2.00	0.00	359.60	0.00	0.00	50.03	49.39	78.23	
100.00	100.00	98.00	359.60	0.11	0.11	49.99	49.13	58.19	
200.00	200.00	198.00	359.60	0.33	0.33	49.99	48.68	38.26	
300.00	300.00	298.00	359.60	0.56	0.56	49.99	48.24	28.47	
400.00	400.00	398.00	359.60	0.78	0.78	49.99	47.79	22.67	
500.00	500.00	498.00	359.60	1.01	1.01	49.99	47.34	18.83	
600.00	600.00	598.00	359.60	1.23	1.23	49.99	46.89	16.11	
700.00	700.00	698.00	359.60	1.46	1.46	49.99	46.44	14.07	
800.00	800.00	798.00	359.60	1.68	1.68	49.99	45.99	12.49	
900.00	900.00	898.00	359.60	1.91	1.91	49.99	45.54	11.23	
1000.00	1000.00	998.00	359.60	2.13	2.13	49.99	45.09	10.20	
1100.00	1100.00	1098.00	359.60	2.36	2.36	49.99	44.64	9.34	
1200.00	1200.00	1198.00	359.60	2.58	2.58	49.99	44.19	8.62	
1300.00	1300.00	1298.00	359.60	2.81	2.81	49.99	43.74	8.00	
1400.00	1400.00	1398.00	359.60	3.03	3.03	49.99	43.29	7.46	
1500.00	1500.00	1498.00	359.60	3.26	3.26	49.99	42.84	6.99	
1600.00	1600.00	1598.00	359.60	3.48	3.48	49.99	42.39	6.58	
1700.00	1700.00	1698.00	359.60	3.70	3.70	49.99	41.94	6.21	
1800.00	1800.00	1798.00	359.60	3.93	3.93	49.99	41.49	5.88	
1900.00	1900.00	1898.00	359.60	4.15	4.15	49.99	41.04	5.59	
2000.00	2000.00	1998.00	359.60	4.38	4.38	49.99	40.59	5.32	
2100.00	2100.00	2098.00	359.60	4.60	4.60	49.99	40.14	5.08	
2200.00	2200.00	2198.00	359.60	4.83	4.83	49.99	39.69	4.86	
2300.00	2300.00	2298.00	359.60	5.05	5.05	49.99	39.25	4.65	
2400.00	2400.00	2398.00	359.60	5.28	5.28	49.99	38.80	4.47	
2500.00	2500.00	2498.00	359.60	5.50	5.50	49.99	38.35	4.29	
2600.00	2600.00	2598.00	359.60	5.73	5.73	49.99	37.90	4.13	
2700.00	2700.00	2698.00	359.60	5.95	5.95	49.99	37.45	3.99	
2800.00	2800.00	2798.00	359.60	6.18	6.18	49.99	37.00	3.85	
2900.00	2900.00	2898.00	359.60	6.40	6.40	49.99	36.55	3.72	
3000.00	3000.00	2998.00	359.60	6.63	6.63	49.99	36.10	3.60	
3100.00	3100.00	3098.00	359.60	6.85	6.85	49.99	35.65	3.49	
3200.00	3200.00	3198.00	359.60	7.08	7.08	49.99	35.20	3.38	
3300.00	3300.00	3298.00	359.60	7.30	7.30	49.99	34.75	3.28	
3400.00	3400.00	3398.00	359.60	7.53	7.53	49.99	34.30	3.19	
3500.00	3500.00	3498.00	359.60	7.75	7.75	49.99	33.85	3.10	
3600.00	3600.00	3598.00	359.60	7.98	7.98	49.99	33.40	3.01	
3700.00	3700.00	3698.00	359.60	8.20	8.20	49.99	32.95	2.93	
3800.00	3800.00	3798.00	359.60	8.43	8.43	49.99	32.50	2.86	
3900.00	3900.00	3898.00	359.60	8.65	8.65	49.99	32.05	2.79	
4000.00	4000.00	3998.00	359.60	8.87	8.87	49.99	31.60	2.72	
4100.00	4100.00	4098.00	359.60	9.10	9.10	49.99	31.15	2.65	
4200.00	4200.00	4198.00	359.60	9.32	9.32	49.99	30.70	2.59	
4300.00	4300.00	4298.00	359.60	9.55	9.55	49.99	30.25	2.53	
4400.00	4400.00	4398.00	359.60	9.77	9.77	49.99	29.80	2.48	
4500.00	4500.00	4498.00	359.60	10.00	10.00	49.99	29.35	2.42	

5D Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Pilot (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
4600.00	4600.00	4598.00	359.60	10.22	10.22	49.99	28.91	2.37	
4700.00	4700.00	4698.00	359.60	10.45	10.45	49.99	28.46	2.32	
4800.00	4800.00	4798.00	359.60	10.67	10.67	49.99	28.01	2.27	
4900.00	4900.00	4898.00	359.60	10.90	10.90	49.99	27.56	2.23	
5000.00	5000.00	4998.00	359.60	11.12	11.12	49.99	27.11	2.18	
5100.00	5100.00	5098.00	359.60	11.35	11.35	49.99	26.66	2.14	
5200.00	5200.00	5198.00	359.60	11.57	11.57	49.99	26.21	2.10	
5300.00	5300.00	5298.00	359.60	11.80	11.80	49.99	25.76	2.06	
5400.00	5400.00	5398.00	359.60	12.02	12.02	49.99	25.31	2.03	
5500.00	5499.99	5497.99	191.89	12.25	12.25	50.84	25.77	2.03	
5600.00	5599.96	5597.96	191.32	12.47	12.47	53.41	27.96	2.10	
5700.00	5699.86	5697.86	190.48	12.70	12.70	57.69	31.82	2.23	
5800.00	5799.68	5797.68	189.49	12.92	12.92	63.71	37.45	2.43	
5900.00	5899.37	5897.37	188.46	13.14	13.14	71.46	44.80	2.68	
6000.00	5998.99	5996.99	187.55	13.37	13.37	80.09	53.07	2.96	
6100.00	6098.60	6096.60	186.81	13.59	13.59	88.74	61.30	3.23	
6200.00	6198.22	6196.22	186.20	13.82	13.82	97.40	69.54	3.50	
6300.00	6297.84	6295.84	185.69	14.04	14.04	106.06	77.83	3.76	
6400.00	6397.46	6395.46	185.26	14.26	14.26	114.74	86.06	4.00	
6500.00	6497.08	6495.08	184.89	14.49	14.49	123.42	94.36	4.25	
6600.00	6596.70	6594.70	184.57	14.71	14.71	132.11	102.64	4.48	
6700.00	6696.32	6694.32	184.28	14.94	14.94	140.80	110.90	4.71	
6800.00	6796.01	6794.01	184.05	15.16	15.16	148.62	118.28	4.90	
6900.00	6895.82	6893.82	183.89	15.38	15.38	154.71	123.93	5.03	
7000.00	6995.73	6993.73	183.78	15.61	15.61	159.07	127.83	5.09	
7100.00	7095.69	7093.69	183.72	15.83	15.83	161.68	130.00	5.10	
7200.00	7195.69	7193.69	351.20	16.06	16.06	162.55	130.43	5.06	
7300.00	7295.69	7293.69	351.20	16.28	16.28	162.55	129.98	4.99	
7400.00	7395.69	7393.69	351.20	16.51	16.51	162.55	129.53	4.92	
7500.00	7495.69	7493.69	351.20	16.73	16.73	162.55	129.08	4.86	
7600.00	7595.69	7593.69	351.20	16.96	16.96	162.55	128.63	4.79	
7700.00	7695.69	7693.69	351.20	17.18	17.18	162.55	128.18	4.73	
7800.00	7795.69	7793.69	351.20	17.41	17.41	162.55	127.74	4.67	
7900.00	7895.69	7893.69	351.20	17.63	17.63	162.55	127.29	4.61	
8000.00	7995.69	7993.69	351.20	17.86	17.86	162.55	126.84	4.55	
8100.00	8095.69	8093.69	351.20	18.08	18.08	162.55	126.39	4.50	
8200.00	8195.69	8193.69	351.20	18.31	18.31	162.55	125.94	4.44	
8300.00	8295.69	8293.69	351.20	18.53	18.53	162.55	125.49	4.39	
8400.00	8395.69	8393.69	351.20	18.76	18.76	162.55	125.05	4.33	
8500.00	8495.69	8493.69	351.20	18.98	18.98	162.55	124.60	4.28	
8600.00	8595.69	8593.69	351.20	19.21	19.21	162.55	124.15	4.23	
8700.00	8695.69	8693.69	351.20	19.43	19.43	162.55	123.70	4.18	
8800.00	8795.69	8793.69	351.20	19.65	19.65	162.55	123.25	4.14	
8900.00	8895.69	8893.69	351.20	19.88	19.88	162.55	122.80	4.09	
9000.00	8995.69	8993.69	351.20	20.10	20.10	162.55	122.36	4.04	
9100.00	9095.69	9093.69	351.20	20.33	20.33	162.55	121.91	4.00	
9200.00	9195.69	9193.69	351.20	20.55	20.55	162.55	121.46	3.96	
9300.00	9295.69	9293.69	171.63	20.78	20.78	162.60	121.07	3.91	
9400.00	9394.92	9392.92	171.99	21.00	21.00	173.50	131.57	4.14	
9500.00	9490.24	9488.24	172.74	21.22	21.22	203.01	160.71	4.80	
9600.00	9578.12	9576.12	173.47	21.41	21.41	250.13	207.52	5.87	
9700.00	9655.35	9653.35	173.90	21.59	21.59	313.19	270.21	7.29	
9800.00	9719.09	9717.09	173.82	21.73	21.73	389.87	346.58	9.01	
9900.00	9766.99	9764.99	172.81	21.84	21.84	477.34	433.82	10.97	
10000.00	9797.30	9795.30	168.89	21.91	21.91	572.38	528.71	13.11	
10100.00	9808.89	9806.89	120.03	21.93	21.93	671.48	627.75	15.35	
10200.00	9809.00	9807.00	90.00	21.93	21.93	771.43	727.68	17.63	
10300.00	9809.00	9807.00	90.00	21.93	21.93	871.38	827.62	19.91	

SD Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Pilot (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
10400.00	9809.00	9807.00	90.00	21.93	21.93	971.35	927.57	22.19	
10500.00	9809.00	9807.00	90.00	21.93	21.93	1071.32	1027.53	24.47	
10600.00	9809.00	9807.00	90.00	21.93	21.93	1171.30	1127.50	26.74	
10700.00	9809.00	9807.00	90.00	21.93	21.93	1271.28	1227.46	29.01	
10800.00	9809.00	9807.00	90.00	21.93	21.93	1371.27	1327.43	31.28	
10900.00	9809.00	9807.00	90.00	21.93	21.93	1471.25	1427.40	33.55	
11000.00	9809.00	9807.00	90.00	21.93	21.93	1571.24	1527.37	35.82	
11100.00	9809.00	9807.00	90.00	21.93	21.93	1671.23	1627.34	38.08	
11200.00	9809.00	9807.00	90.00	21.93	21.93	1771.22	1727.32	40.34	
11300.00	9809.00	9807.00	90.00	21.93	21.93	1871.21	1827.29	42.60	
11400.00	9809.00	9807.00	90.00	21.93	21.93	1971.20	1927.26	44.86	
11500.00	9809.00	9807.00	90.00	21.93	21.93	2071.20	2027.24	47.12	
11600.00	9809.00	9807.00	90.00	21.93	21.93	2171.19	2127.22	49.38	
11700.00	9809.00	9807.00	90.00	21.93	21.93	2271.19	2227.23	51.67	
11800.00	9809.00	9807.00	90.00	21.93	21.93	2371.18	2327.14	53.84	
11900.00	9809.00	9807.00	90.00	21.93	21.93	2471.18	2427.12	56.10	
12000.00	9809.00	9807.00	90.00	21.93	21.93	2571.17	2527.12	58.37	
12100.00	9809.00	9807.00	90.00	21.93	21.93	2671.17	2627.05	60.55	
12200.00	9809.00	9807.00	90.00	21.93	21.93	2771.16	2727.01	62.76	
12300.00	9809.00	9807.00	90.00	21.93	21.93	2871.16	2826.97	64.98	
12400.00	9809.00	9807.00	90.00	21.93	21.93	2971.16	2926.94	67.19	
12500.00	9809.00	9807.00	90.00	21.93	21.93	3071.15	3026.90	69.40	
12600.00	9809.00	9807.00	90.00	21.93	21.93	3171.15	3126.86	71.60	
12700.00	9809.00	9807.00	90.00	21.93	21.93	3271.15	3226.83	73.80	
12800.00	9809.00	9807.00	90.00	21.93	21.93	3371.15	3326.79	76.00	
12900.00	9809.00	9807.00	90.00	21.93	21.93	3471.14	3426.75	78.19	
13000.00	9809.00	9807.00	90.00	21.93	21.93	3571.14	3526.71	80.38	
13100.00	9809.00	9807.00	90.00	21.93	21.93	3671.14	3626.67	82.56	
13200.00	9809.00	9807.00	90.00	21.93	21.93	3771.14	3726.63	84.73	
13300.00	9809.00	9807.00	90.00	21.93	21.93	3871.13	3826.59	86.90	
13400.00	9809.00	9807.00	90.00	21.93	21.93	3971.13	3926.54	89.06	
13500.00	9809.00	9807.00	90.00	21.93	21.93	4071.13	4026.50	91.22	
13600.00	9809.00	9807.00	90.00	21.93	21.93	4171.13	4126.46	93.37	
13700.00	9809.00	9807.00	90.00	21.93	21.93	4271.13	4226.41	95.52	
13800.00	9809.00	9807.00	90.00	21.93	21.93	4371.13	4326.37	97.66	
13900.00	9809.00	9807.00	90.00	21.93	21.93	4471.12	4426.32	99.79	
14000.00	9809.00	9807.00	90.00	21.93	21.93	4571.12	4526.27	101.92	
14100.00	9809.00	9807.00	90.00	21.93	21.93	4671.12	4626.22	104.04	
14200.00	9809.00	9807.00	90.00	21.93	21.93	4771.12	4726.17	106.15	
14300.00	9809.00	9807.00	90.00	21.93	21.93	4871.12	4826.12	108.26	
14400.00	9809.00	9807.00	90.00	21.93	21.93	4971.12	4926.07	110.36	
14500.00	9809.00	9807.00	90.00	21.93	21.93	5071.12	5026.02	112.45	
14600.00	9809.00	9807.00	90.00	21.93	21.93	5171.12	5125.97	114.54	
14700.00	9809.00	9807.00	90.00	21.93	21.93	5271.12	5225.91	116.62	
14800.00	9809.00	9807.00	90.00	21.93	21.93	5371.11	5325.86	118.69	
14900.00	9809.00	9807.00	90.00	21.93	21.93	5471.11	5425.81	120.75	
15000.00	9809.00	9807.00	90.00	21.93	21.93	5571.11	5525.75	122.81	
15100.00	9809.00	9807.00	90.00	21.93	21.93	5671.11	5625.69	124.86	
15200.00	9809.00	9807.00	90.00	21.93	21.93	5771.11	5725.64	126.91	
15300.00	9809.00	9807.00	90.00	21.93	21.93	5871.11	5825.58	128.94	
15400.00	9809.00	9807.00	90.00	21.93	21.93	5971.11	5925.52	130.97	
15500.00	9809.00	9807.00	90.00	21.93	21.93	6071.11	6025.46	132.99	
15600.00	9809.00	9807.00	90.00	21.93	21.93	6171.11	6125.40	135.01	
15700.00	9809.00	9807.00	90.00	21.93	21.93	6271.11	6225.34	137.01	
15800.00	9809.00	9807.00	90.00	21.93	21.93	6371.11	6325.27	139.01	
15900.00	9809.00	9807.00	90.00	21.93	21.93	6471.11	6425.21	141.00	
16000.00	9809.00	9807.00	90.00	21.93	21.93	6571.10	6525.15	142.98	
16100.00	9809.00	9807.00	90.00	21.93	21.93	6671.10	6625.08	144.96	

SD Anti-Collision Report

Secondary Well : Fighting Okra 18-19 Fed 41H Pilot (p) (TVD Relative to Well TVD Reference (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
16200.00	9809.00	9807.00	90.00	21.93	21.93	6771.10	6725.02	146.92	
16300.00	9809.00	9807.00	90.00	21.93	21.93	6871.10	6824.95	148.88	
16400.00	9809.00	9807.00	90.00	21.93	21.93	6971.10	6924.89	150.83	
16500.00	9809.00	9807.00	90.00	21.93	21.93	7071.10	7024.82	152.78	
16600.00	9809.00	9807.00	90.00	21.93	21.93	7171.10	7124.75	154.71	
16700.00	9809.00	9807.00	90.00	21.93	21.93	7271.10	7224.68	156.64	
16800.00	9809.00	9807.00	90.00	21.93	21.93	7371.10	7324.61	158.56	
16900.00	9809.00	9807.00	90.00	21.93	21.93	7471.10	7424.54	160.47	
17000.00	9809.00	9807.00	90.00	21.93	21.93	7571.10	7524.47	162.37	
17100.00	9809.00	9807.00	90.00	21.93	21.93	7671.10	7624.40	164.26	
17200.00	9809.00	9807.00	90.00	21.93	21.93	7771.10	7724.33	166.15	
17300.00	9809.00	9807.00	90.00	21.93	21.93	7871.10	7824.25	168.03	
17353.81	9809.00	9807.00	90.00	21.93	21.93	7924.91	7878.02	169.03	



Weatherford

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: May 06, 2015
 Job Number: _____
 Customer: Devon Energy
 Well Name: Fighting Okra 18-19 Fed 21H
 API Number: _____
 Rig Name: _____
 Location: Lea Co, NM Nad83 NME
 Block: _____
 Engineer: RWJ

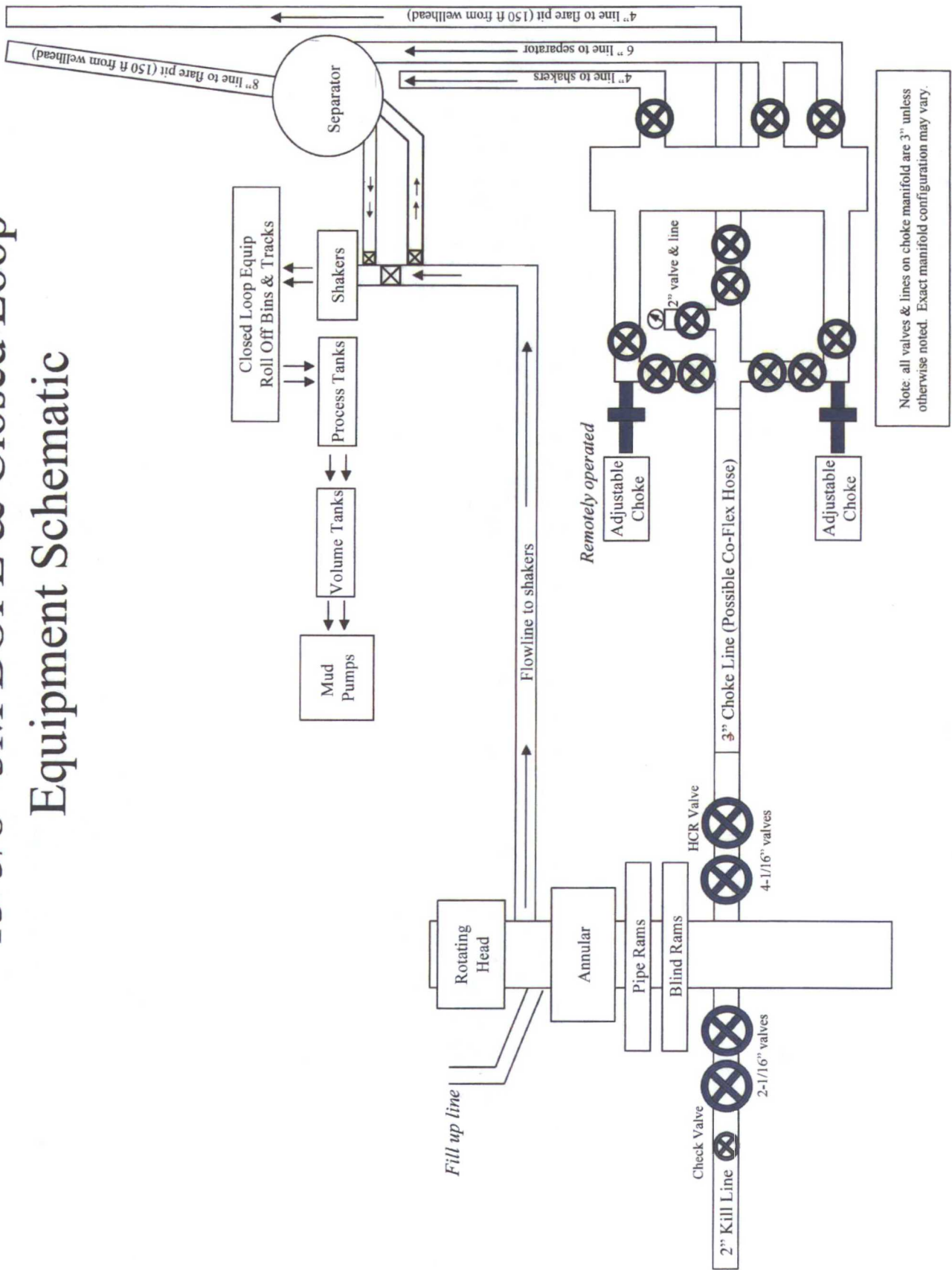
NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 380777.98 US Survey Foot	Latitude: 32.044207 Degree
East: 794437.24 US Survey Foot	Longitude: -103.516471 Degree
Convergence: 0.43°	
Declination: 7.20°	
Total Correction: 6.77°	
Datum Transformation: none	

Geodetic Location WGS84
 MSL Elevation = 0 m
 Latitude = 32° 02' 39.15" N
 Longitude = 103° 30' 59.30" W

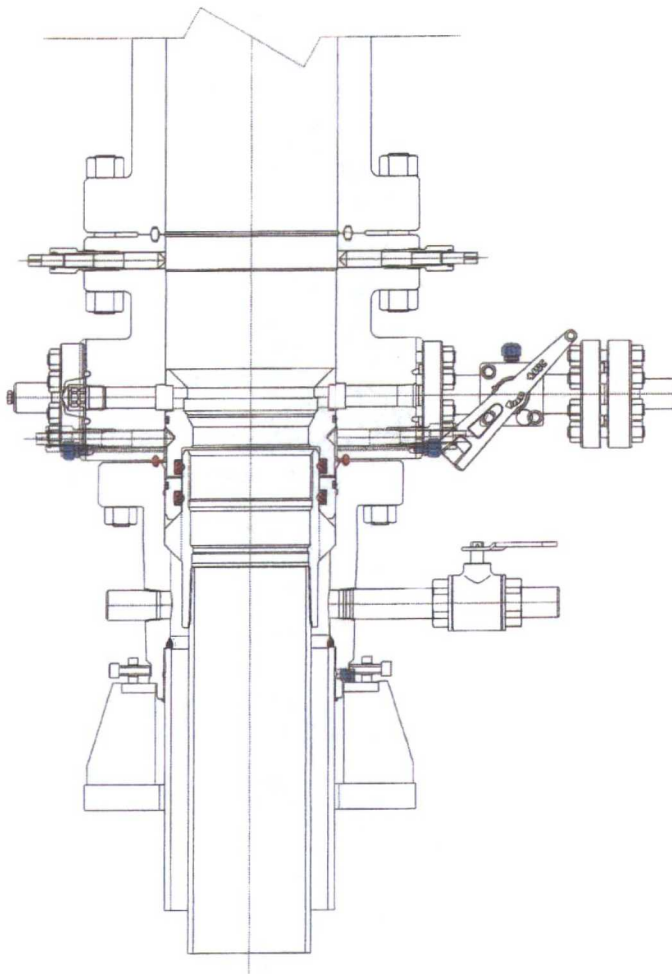
Magnetic Declination = 7.20 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6761
Local Field Strength = 48042 nT	Magnetic Vector X = 23896 nT
Magnetic Dip = 59.91 deg	Magnetic Vector Y = 3019 nT
Magnetic Model = bggm2014.dat	Magnetic Vector Z = 41568 nT
Run Date = October 15, 2015	Magnetic Vector H = 24086 nT

Signed: _____ Date: _____

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.

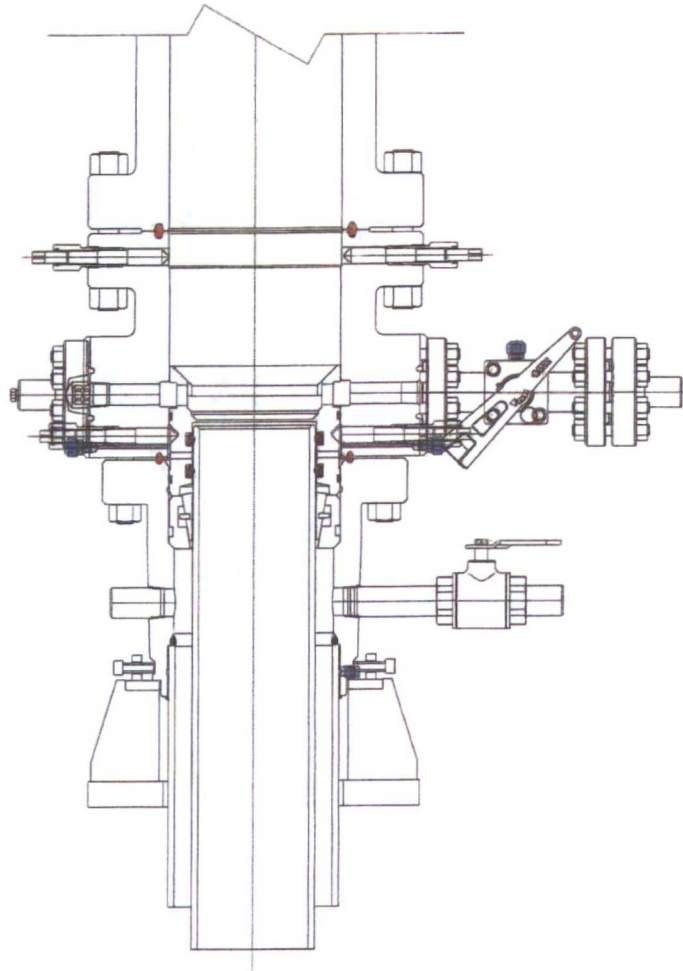


PRIMARY MODE

DEVON ENERGY
ARTESIA
S.E.N.M
 13 3/8 X 9 5/8

QUOTE LAYOUT
 F18648
 REF: DM100161737
 DM100151315

<p>PRIVATE AND CONFIDENTIAL</p> <p>THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED, OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING AND MUST BE RETURNED UPON DEMAND.</p> <p>MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES DESIGN AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES.</p>	<p>REVISIONS</p> <p>A 05-08-13</p> <p>B 1-22-14</p> <p>C 5-13-14</p>	<p>DESCRIPTION</p> <p>SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1,SOW, DEVON ENERGY, ODESSA</p>	<p>DRAWN BY</p> <p>K. VU 05-08-13</p> <p>DRAFTING REVIEW</p> <p>Z. MARQUEZ 05-08-13</p> <p>DESIGN REVIEW</p> <p>K. TAHA 05-08-13</p> <p>APPROVED BY</p> <p>R. HAMILTON 05-08-13</p>	<p>FMC Technologies</p> <p>DRAWING NUMBER</p> <p>DM100161771-2A</p>



CONTINGENCY MODE

DEVON ENERGY
ARTESIA
S.E.N.M
13 3/8 X 9 5/8

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

<p>PRIVATE AND CONFIDENTIAL</p> <p>THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED, OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING, AND MUST BE RETURNED UPON DEMAND.</p> <p>MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES DESIGN AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES</p>	<p>REVISIONS</p> <table border="1"> <tr><td>A</td><td>05-08-13</td></tr> <tr><td>B</td><td>1-22-14</td></tr> <tr><td>C</td><td>5-13-14</td></tr> </table>	A	05-08-13	B	1-22-14	C	5-13-14	<p>DESCRIPTION</p> <p>SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1, SOW, DEVON ENERGY, ODESSA</p>	<p>DRAWN BY</p> <p>K. VU 05-08-13</p> <p>DRAFTING REVIEW</p> <p>Z. MARQUEZ 05-08-13</p> <p>DESIGN REVIEW</p> <p>K. TAHA 05-08-13</p> <p>APPROVED BY</p> <p>R. HAMILTON 05-08-13</p>	<p>FMC Technologies</p> <p>DRAWING NUMBER</p> <p>DM100161771-2B</p>
	A	05-08-13								
	B	1-22-14								
	C	5-13-14								



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Heimerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



H&P 416



Fluid Technology
Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.		P.O. N°: 002808	
CONTITECH ORDER N°: 426127	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL N°: 53622	NOMINAL / ACTUAL LENGTH: 10,67 m		
W.P. 68,96 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 60	min.
Pressure test with water at ambient temperature <p style="text-align: center;">See attachment. (1 page)</p> <p>↑ 10 mm = 10 Min. → 10 mm = 25 MPa</p>			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with 4 1/16" Flange end	5503 2029	AISI 4130	N1590P
		AISI 4130	27566
INFOCHIP INSTALLED		API Spec 16 C Temperature rate: "B"	
All metal parts are flawless		Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.			
COUNTRY OF ORIGIN HUNGARY/EU			
Date: 25. August. 2008	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i>	

H&P 416

HARTMANN &

J. G. M.
ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(2)

2	1	0	24	23	22	21
100	100	100	100	100	100	100
90	90	90	90	90	90	90
80	80	80	80	80	80	80
70	70	70	70	70	70	70
60	60	60	60	60	60	60
50	50	50	50	50	50	50
40	40	40	40	40	40	40
30	30	30	30	30	30	30
20	20	20	20	20	20	20
10	10	10	10	10	10	10
0	0	0	0	0	0	0



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
February 2015

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

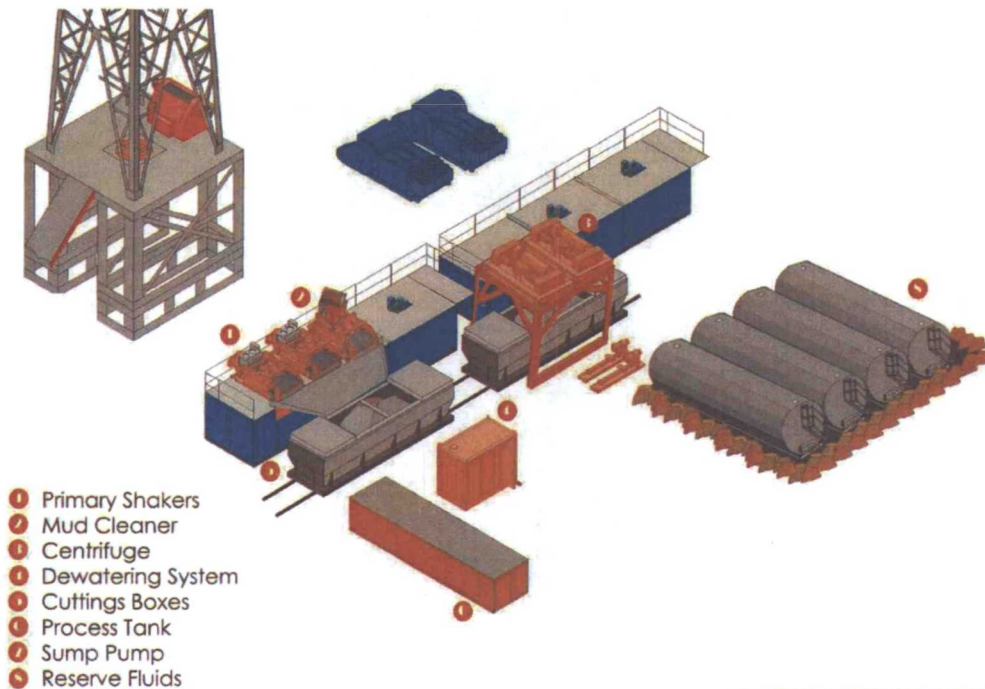
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

H&P Flex Rig Location Layout

2 Well Pad

