

30-025-42753

TVD of target	9,492'	Pilot hole depth	N/A
MD at TD:	14,049'	Deepest expected fresh water:	

[illegible]

1 Drilling Plan

NOV 03 2015

Devon Energy, Bell Lake 19 State 9H

2. Casing Program

Hole Size	Casing Interval		Csg Size	Weight	Grade	Conn	Safety Factors		
	From	To					Burst	Collapse	Tension
17 1/2	0	1,200	13 3/8	54.5	J55	BTC	1.81	2.16	5.78
12 1/4	0	4,000	9 5/8	40	J55	BTC	1.44	1.24	1.93
	4,000	5,000	9 5/8	40	HCK55	BTC	2.04	1.24	7.98
8 3/4	0	14,049'	5 1/2	17	P110RY	DWC/C	1.17	1.18	2.11
BLM Minimum Safety Factor							1.00	1.125	1.6 Dry 1.8 Wet

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

Must have table for contingency casing

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

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	720	13.5	9.28	1.74	10	Lead: Class C Cement + 4% Gel + 1% Calcium Chloride + 0.125 lbs/sack Poly-E-Flake
	340	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
13-3/8" Surface Two Stage	200	13.5	9.28	1.74	10	1 st Stage Lead: Class C Cement + 4% Gel + 1% Calcium Chloride + 0.125 lbs/sack Poly-E-Flake
	340	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 650ft					
	690	14.8	6.32	1.33	6	2 nd Stage Primary: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1050	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter. Two Stage	300	12.9	9.81	1.85	14	1 st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 3500ft					
	760	12.9	9.81	1.85	14	2 nd Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	210	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod Single Stage	730	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	1350	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod Two Stage	530	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	1350	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 6500ft					
	190	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	50	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

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

Casing String	TOC	% Excess
13-3/8" Surface Single Stage Option	0'	100%
13-3/8" Surface Two Stage Option	1 st Stage = 650' / 2 nd Stage = 0'	100%
9-5/8" Intermediate Single Stage Option	0'	75%
9-5/8" Intermediate Casing Two Stage Option	1 st Stage = 3500' / 2 nd Stage = 0'	75%
5-1/2" Production Casing Single Stage Option	4800'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 6500' / 2 nd Stage = 4800'	25%

4. Pressure Control Equipment

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

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a

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higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by wellhead vendor representatives. - If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - Wellhead representative will install the test plug for the initial BOP test. - Wellhead will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi

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	low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns See attached schematic.
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,200'	FW Gel	8.6-8.8	28-34	N/C
1,200'	5,000'	Saturated Brine	10.0-10.2	28-34	N/C
5,000'	14,049'	Cut Brine	8.5-9.3	28-34	N/C

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

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

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5252 psi
Abnormal Temperature	No

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

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

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? Yes.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

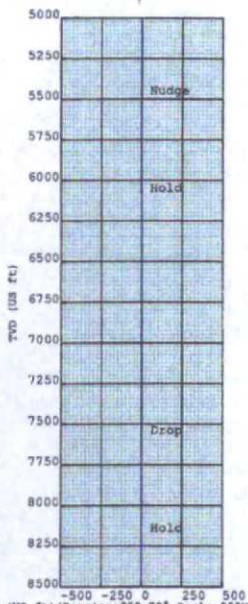
☐ Other, describe



Bell Lake 19 State 9H
Lea Co, NM

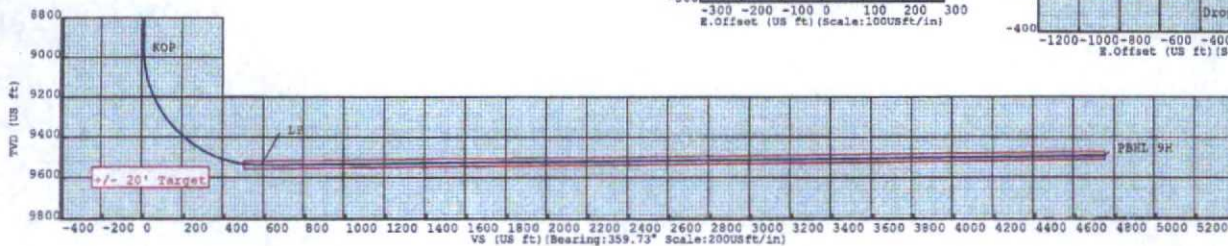


KB:3367
GL:3342



VS (US ft) (Bearing:359.73° Scale:250USft/in)

Bell Lake 19 State 9H	—
Bell Lake 19 State 11H	—
Bell Lake 19 State 7H	—
Bell Lake 19 State 4H	—



Plan Data for Bell Lake 19 State 9H

Plan Point Information:									
DogLeg Severity Unit: °/100.00ft					Position offsets from Slot centre				
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	-0.00	-0.00	435972.62	766669.06	0.00	0.00
5470.00	0.00	0.00	5470.00	-0.00	-0.00	435972.62	766669.06	0.00	0.00
6070.00	5.00	270.00	6068.90	-0.00	-31.39	435972.62	766637.67	0.15	1.00
7570.00	5.00	270.00	7560.69	-0.00	-188.18	435972.62	766480.88	0.89	0.00
8170.00	0.00	0.00	8159.59	-0.00	-219.57	435972.62	766449.49	1.03	1.00
8976.49	0.00	0.00	8966.08	-0.00	-219.57	435972.62	766449.49	1.03	0.00
9882.95	90.65	359.73	9539.00	579.42	-222.30	436552.04	766446.76	580.46	10.00
14048.89	90.65	359.73	9492.00	4745.04	-241.96	440717.66	766427.10	4746.13	0.00

Plan Data for Bell Lake 19 State 9H

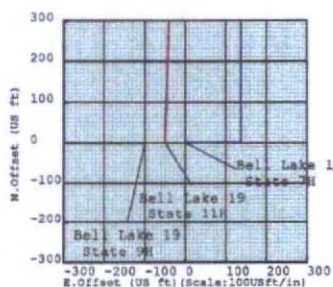
Slot: Bell Lake 19 State 9H
Position:
Offset is from Site centre
+N/-S: -0.81USft Northing: 435972.62USft Latitude: 32.196468°
+E/-W: -99.91USft Easting: 766669.06USft Longitude: -103.604880°
Elevation Above VRD: 3542.00USft

Plan Data for Bell Lake 19 State 9H

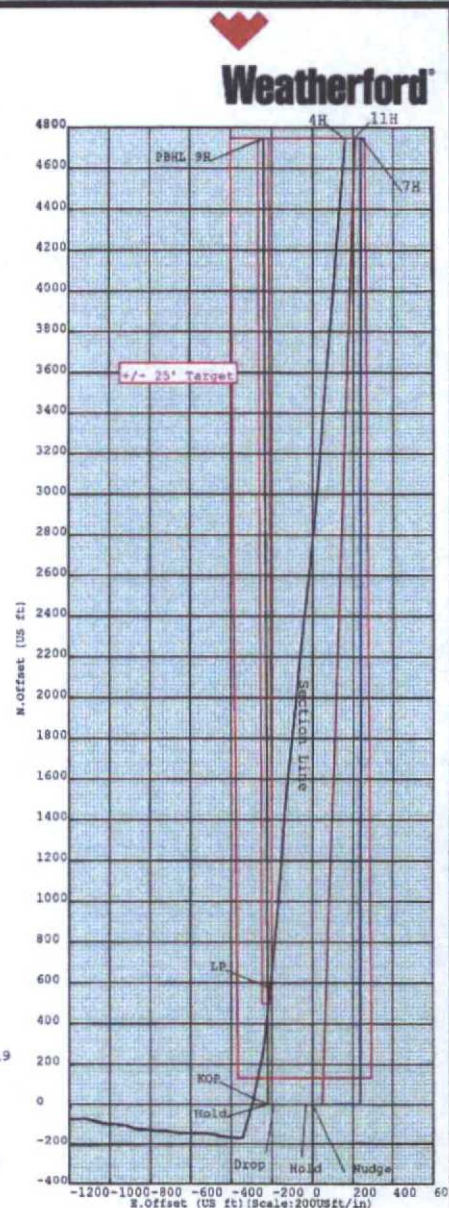
Well: Bell Lake 19 State 9H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V3
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 359.73°
+E/-W: -0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGGM 48188(nT) 7.24° 60.10° 2015-10-30

Plan Data for Bell Lake 19 State 9H

Target Set Information:
Name: Bell Lake 19 State 9H
Position offsets from Slot centre
Name TVD Elevation +N/-S +E/-W Northing Easting
(USft) (USft) (USft) (USft) (USft) (USft)
PBHL 9H 9492.00 -5925.00 4744.23 -341.87 440717.66 766427.10



E. Offset (US ft) (Scale:100USft/in)



**5D Plan Report**

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Bell Lake 19 State 7H, 9H, 11H Pad*
Well Name: *Bell Lake 19 State 9H*
Plan: *P1:V3*

20 October 2015





Bell Lake 19 State 9H

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: Bell Lake 19 State 7H, 9H, 11H Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.39	
	Position:	Northing: 435973.43US ft	Latitude: 32° 11' 47.29"	
		Easting: 766768.97US ft	Longitude: -103° 36' 16.41"	
	Elevation above MSL:3542.00 US ft			
Comment:				
Slot: Bell Lake 19 State 9H	Position (Relative to Site Centre)			
	+N/-S: -0.81US ft	Northing: 435972.62US ft	Latitude: 32°11'47.28"	
	+E/-W: -99.91US ft	Easting: 766669.06US ft	Longitude: -103°36'17.57"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3542.00US ft				
Comment:				
Well: Bell Lake 19 State 9H	Type:Main well	UWI:	Plan:P1:V3	
	File Number:	Comment:		
	Closure Distance:4751.21US ft	Closure Azimuth:357.08°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00US ft	+E/-W: -0.00US ft	Az: 359.73°	
	Magnetic Parameters:			
	Model: BGGM	Field Strength: 48188.0nT	Declination: 7.24°	Dip: 60.10°
				Date: 30/Oct/2015

Drill floor: Plan: P1:V3

Rig Height (Kelly Bushing): Elevation above MSL: 25.00us ft 3567.00us ft **Inclination:** 0.00° **Azimuth:** 0.00°

Target set: Bell Lake 19 State 9H Comment:

Target Name:	Shape:	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
PBHL 9H	Cuboid	9492.00	4745.04	-241.96	440717.66	766427.10	

Wellpath created using minimum curvature.

Tie Point:

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

SD Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	E.Rate (%/100US ft)	T.Rate (%/100US 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	
5470.00	0.00	0.00	5470.00	-0.00	-0.00	0.00	0.00	0.00	0.00	0.00	Nudge
6070.00	6.00	270.00	6068.90	-0.00	-31.39	0.15	1.00	1.00	0.00	270.00	Hold
7570.00	6.00	270.00	7560.69	-0.00	-188.18	0.89	0.00	0.00	0.00	0.00	Drop
8170.00	0.00	0.00	8159.59	-0.00	-219.57	1.03	1.00	-1.00	0.00	180.00	Hold
8976.49	0.00	0.00	8966.08	-0.00	-219.57	1.03	0.00	0.00	0.00	0.00	KOP
9882.95	90.65	359.73	9539.00	579.42	-222.30	580.46	10.00	10.00	0.00	359.73	LP
14048.89	90.65	359.73	9492.00	4745.04	-241.96	4746.13	0.00	0.00	0.00	0.00	PBHL 9H

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Eastng (US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
100.00	0.00	0.00	100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
200.00	0.00	0.00	200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
300.00	0.00	0.00	300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
400.00	0.00	0.00	400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
500.00	0.00	0.00	500.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
600.00	0.00	0.00	600.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
700.00	0.00	0.00	700.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
800.00	0.00	0.00	800.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
900.00	0.00	0.00	900.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1000.00	0.00	0.00	1000.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1100.00	0.00	0.00	1100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1200.00	0.00	0.00	1200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1300.00	0.00	0.00	1300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1400.00	0.00	0.00	1400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1500.00	0.00	0.00	1500.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1600.00	0.00	0.00	1600.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1700.00	0.00	0.00	1700.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1800.00	0.00	0.00	1800.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
1900.00	0.00	0.00	1900.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2000.00	0.00	0.00	2000.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2100.00	0.00	0.00	2100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2200.00	0.00	0.00	2200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2300.00	0.00	0.00	2300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2400.00	0.00	0.00	2400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2500.00	0.00	0.00	2500.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2600.00	0.00	0.00	2600.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2700.00	0.00	0.00	2700.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2800.00	0.00	0.00	2800.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
2900.00	0.00	0.00	2900.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3000.00	0.00	0.00	3000.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3100.00	0.00	0.00	3100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3200.00	0.00	0.00	3200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3300.00	0.00	0.00	3300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3400.00	0.00	0.00	3400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3500.00	0.00	0.00	3500.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3600.00	0.00	0.00	3600.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3700.00	0.00	0.00	3700.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3800.00	0.00	0.00	3800.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
3900.00	0.00	0.00	3900.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4000.00	0.00	0.00	4000.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4100.00	0.00	0.00	4100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4200.00	0.00	0.00	4200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4300.00	0.00	0.00	4300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4400.00	0.00	0.00	4400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4500.00	0.00	0.00	4500.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4600.00	0.00	0.00	4600.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	OLS (%/100US ft)	Bushing (US ft)	Eastng (US ft)	Comment
4700.00	0.00	0.00	4700.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4800.00	0.00	0.00	4800.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
4900.00	0.00	0.00	4900.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5000.00	0.00	0.00	5000.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5100.00	0.00	0.00	5100.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5200.00	0.00	0.00	5200.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5300.00	0.00	0.00	5300.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5400.00	0.00	0.00	5400.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	
5470.00	0.00	0.00	5470.00	-0.00	-0.00	0.00	0.00	435972.62	766669.06	Nudge
5500.00	0.30	270.00	5500.00	-0.00	-0.08	0.00	1.00	435972.62	766668.98	
5600.00	1.30	270.00	5599.99	-0.00	-1.47	0.01	1.00	435972.62	766667.59	
5700.00	2.30	270.00	5699.94	-0.00	-4.62	0.02	1.00	435972.62	766664.44	
5800.00	3.30	270.00	5799.82	-0.00	-9.50	0.04	1.00	435972.62	766659.56	
5900.00	4.30	270.00	5899.60	-0.00	-16.13	0.08	1.00	435972.62	766652.93	
6000.00	5.30	270.00	5999.24	-0.00	-24.50	0.12	1.00	435972.62	766644.56	
6070.00	6.00	270.00	6068.90	-0.00	-31.39	0.15	1.00	435972.62	766637.67	Hold
6100.00	6.00	270.00	6098.74	-0.00	-34.52	0.16	0.00	435972.62	766634.54	
6200.00	6.00	270.00	6198.19	-0.00	-44.98	0.21	0.00	435972.62	766624.08	
6300.00	6.00	270.00	6297.64	-0.00	-55.43	0.26	0.00	435972.62	766613.63	
6400.00	6.00	270.00	6397.10	-0.00	-65.88	0.31	0.00	435972.62	766603.18	
6500.00	6.00	270.00	6496.55	-0.00	-76.33	0.36	0.00	435972.62	766592.73	
6600.00	6.00	270.00	6596.00	-0.00	-86.79	0.41	0.00	435972.62	766582.27	
6700.00	6.00	270.00	6695.45	-0.00	-97.24	0.46	0.00	435972.62	766571.82	
6800.00	6.00	270.00	6794.90	-0.00	-107.69	0.51	0.00	435972.62	766561.37	
6900.00	6.00	270.00	6894.36	-0.00	-118.15	0.56	0.00	435972.62	766550.91	
7000.00	6.00	270.00	6993.81	-0.00	-128.60	0.61	0.00	435972.62	766540.46	
7100.00	6.00	270.00	7093.26	-0.00	-139.05	0.66	0.00	435972.62	766530.01	
7200.00	6.00	270.00	7192.71	-0.00	-149.50	0.70	0.00	435972.62	766519.56	
7300.00	6.00	270.00	7292.17	-0.00	-159.96	0.75	0.00	435972.62	766509.10	
7400.00	6.00	270.00	7391.62	-0.00	-170.41	0.80	0.00	435972.62	766498.65	
7500.00	6.00	270.00	7491.07	-0.00	-180.86	0.85	0.00	435972.62	766488.20	
7570.00	6.00	270.00	7560.69	-0.00	-188.18	0.89	0.00	435972.62	766480.88	Drop
7600.00	5.70	270.00	7590.53	-0.00	-191.24	0.90	1.00	435972.62	766477.82	
7700.00	4.70	270.00	7690.12	-0.00	-200.30	0.94	1.00	435972.62	766468.76	
7800.00	3.70	270.00	7789.85	-0.00	-207.62	0.98	1.00	435972.62	766461.44	
7900.00	2.70	270.00	7889.69	-0.00	-213.21	1.00	1.00	435972.62	766455.85	
8000.00	1.70	270.00	7989.62	-0.00	-217.05	1.02	1.00	435972.62	766452.01	
8100.00	0.70	270.00	8089.59	-0.00	-219.14	1.03	1.00	435972.62	766449.92	
8170.00	0.00	0.00	8159.59	-0.00	-219.57	1.03	1.00	435972.62	766449.49	Hold
8200.00	0.00	0.00	8189.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8300.00	0.00	0.00	8289.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8400.00	0.00	0.00	8389.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8500.00	0.00	0.00	8489.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8600.00	0.00	0.00	8589.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8700.00	0.00	0.00	8689.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8800.00	0.00	0.00	8789.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8900.00	0.00	0.00	8889.59	-0.00	-219.57	1.03	0.00	435972.62	766449.49	
8976.49	0.00	0.00	8966.08	-0.00	-219.57	1.03	0.00	435972.62	766449.49	KOP
9000.00	2.35	359.73	8989.58	0.48	-219.57	1.52	10.00	435973.10	766449.49	
9100.00	12.35	359.73	9088.64	13.26	-219.63	14.30	10.00	435985.88	766449.43	
9200.00	22.35	359.73	9183.96	43.05	-219.77	44.08	10.00	436015.67	766449.29	
9300.00	32.35	359.73	9272.67	88.93	-219.99	89.97	10.00	436061.55	766449.07	
9400.00	42.35	359.73	9352.07	149.52	-220.27	150.56	10.00	436122.14	766448.79	
9500.00	52.35	359.73	9419.73	222.98	-220.62	224.02	10.00	436195.60	766448.44	
9600.00	62.35	359.73	9473.61	307.07	-221.02	308.11	10.00	436279.69	766448.04	
9700.00	72.35	359.73	9512.07	399.24	-221.45	400.28	10.00	436371.86	766447.61	
9800.00	82.35	359.73	9533.94	496.69	-221.91	497.73	10.00	436469.31	766447.15	
9882.95	90.65	359.73	9539.00	579.42	-222.30	580.46	10.00	436552.04	766446.76	LP
9900.00	90.65	359.73	9538.81	596.46	-222.38	597.50	0.00	436569.08	766446.68	

SD Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DL5 (°/1000US ft)	Rothing (US ft)	Easting (US ft)	Comment
10000.00	90.65	359.73	9537.68	696.45	-222.85	697.50	0.00	436669.07	766446.21	
10100.00	90.65	359.73	9536.55	796.45	-223.33	797.49	0.00	436769.07	766445.73	
10200.00	90.65	359.73	9535.42	896.44	-223.80	897.48	0.00	436869.06	766445.26	
10300.00	90.65	359.73	9534.30	996.43	-224.27	997.48	0.00	436969.05	766444.79	
10400.00	90.65	359.73	9533.17	1096.42	-224.74	1097.47	0.00	437069.04	766444.32	
10500.00	90.65	359.73	9532.04	1196.42	-225.21	1197.46	0.00	437169.04	766443.85	
10600.00	90.65	359.73	9530.91	1296.41	-225.69	1297.46	0.00	437269.03	766443.37	
10700.00	90.65	359.73	9529.78	1396.40	-226.16	1397.45	0.00	437369.02	766442.90	
10800.00	90.65	359.73	9528.65	1496.39	-226.63	1497.44	0.00	437469.01	766442.43	
10900.00	90.65	359.73	9527.53	1596.39	-227.10	1597.44	0.00	437569.01	766441.96	
11000.00	90.65	359.73	9526.40	1696.38	-227.57	1697.43	0.00	437669.00	766441.49	
11100.00	90.65	359.73	9525.27	1796.37	-228.04	1797.43	0.00	437768.99	766441.02	
11200.00	90.65	359.73	9524.14	1896.36	-228.52	1897.42	0.00	437868.98	766440.54	
11300.00	90.65	359.73	9523.01	1996.36	-228.99	1997.41	0.00	437968.98	766440.07	
11400.00	90.65	359.73	9521.89	2096.35	-229.46	2097.41	0.00	438068.97	766439.60	
11500.00	90.65	359.73	9520.76	2196.34	-229.93	2197.40	0.00	438168.96	766439.13	
11600.00	90.65	359.73	9519.63	2296.33	-230.40	2297.39	0.00	438268.95	766438.66	
11700.00	90.65	359.73	9518.50	2396.33	-230.88	2397.39	0.00	438368.95	766438.18	
11800.00	90.65	359.73	9517.37	2496.32	-231.35	2497.38	0.00	438468.94	766437.71	
11900.00	90.65	359.73	9516.24	2596.31	-231.82	2597.37	0.00	438568.93	766437.24	
12000.00	90.65	359.73	9515.12	2696.30	-232.29	2697.37	0.00	438668.92	766436.77	
12100.00	90.65	359.73	9513.99	2796.30	-232.76	2797.36	0.00	438768.92	766436.30	
12200.00	90.65	359.73	9512.86	2896.29	-233.24	2897.36	0.00	438868.91	766435.82	
12300.00	90.65	359.73	9511.73	2996.28	-233.71	2997.35	0.00	438968.90	766435.35	
12400.00	90.65	359.73	9510.60	3096.27	-234.18	3097.34	0.00	439068.89	766434.88	
12500.00	90.65	359.73	9509.48	3196.27	-234.65	3197.34	0.00	439168.89	766434.41	
12600.00	90.65	359.73	9508.35	3296.26	-235.12	3297.33	0.00	439268.88	766433.94	
12700.00	90.65	359.73	9507.22	3396.25	-235.59	3397.32	0.00	439368.87	766433.47	
12800.00	90.65	359.73	9506.09	3496.24	-236.07	3497.32	0.00	439468.86	766432.99	
12900.00	90.65	359.73	9504.96	3596.24	-236.54	3597.31	0.00	439568.86	766432.52	
13000.00	90.65	359.73	9503.83	3696.23	-237.01	3697.30	0.00	439668.85	766432.05	
13100.00	90.65	359.73	9502.71	3796.22	-237.48	3797.30	0.00	439768.84	766431.58	
13200.00	90.65	359.73	9501.58	3896.21	-237.95	3897.29	0.00	439868.83	766431.11	
13300.00	90.65	359.73	9500.45	3996.21	-238.43	3997.29	0.00	439968.83	766430.63	
13400.00	90.65	359.73	9499.32	4096.20	-238.90	4097.28	0.00	440068.82	766430.16	
13500.00	90.65	359.73	9498.19	4196.19	-239.37	4197.27	0.00	440168.81	766429.69	
13600.00	90.65	359.73	9497.06	4296.18	-239.84	4297.27	0.00	440268.80	766429.22	
13700.00	90.65	359.73	9495.94	4396.18	-240.31	4397.26	0.00	440368.80	766428.75	
13800.00	90.65	359.73	9494.81	4496.17	-240.79	4497.25	0.00	440468.79	766428.27	
13900.00	90.65	359.73	9493.68	4596.16	-241.26	4597.25	0.00	440568.78	766427.80	
14000.00	90.65	359.73	9492.55	4696.15	-241.73	4697.24	0.00	440668.77	766427.33	
14048.89	90.65	359.73	9492.00	4745.04	-241.96	4746.13	0.00	440717.66	766427.10	PBHL 9H

**5D Anti-Collision Report**

Devon Energy**Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Bell Lake 19 State 7H, 9H, 11H Pad***Well Name:** *Bell Lake 19 State 9H*

20 October 2015





Bell Lake 19 State 9H

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: Bell Lake 19 State 7H, 9H, 11H Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.39	
	Position:	Northing: 435973.43US ft	Latitude: 32° 11' 47.29"	
		Easting: 766768.97US ft	Longitude: -103° 36' 16.41"	
	Elevation above MSL:3542.00 US ft			
Comment:				
Slot: Bell Lake 19 State 9H	Position (Relative to Site Centre)			
	+N/-S: -0.81US ft	Northing: 435972.62US ft	Latitude: 32°11'47.28"	
	+E/-W: -99.91US ft	Easting: 766669.06US ft	Longitude: -103°36'17.57"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3542.00US ft				
Comment:				
Well: Bell Lake 19 State 9H	Type:Main well	UWI:	Plan:Working Plan	
	File Number:	Comment:		
	Closure Distance:4751.21US ft	Closure Azimuth:357.08°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: -0.00US ft	+E/-W: -0.00US ft	Az: 359.73°	
	Magnetic Parameters:			
	Model: BGGM	Field Strength: 48188.0nT	Declination: 7.24°	Dip: 60.10°

Drill floor: Plan: Working Plan

Rig Height (Kelly Bushing): Elevation above MSL:
25.00us ft

3567.00us ft

Inclination: 0.00°

Azimuth: 0.00°

Collision / Uncertainty Analysis

Primary Well	Start MD (USFt)	End MD (USFt)	Collision Risk Interval	No. of Std. Deviations in Error Computation
Bell Lake 19 State 9H (p)	0.00	30000.00	100.00	2

Secondary Well Names:

Bell Lake 19 State 2H (s)
 Bell Lake 19 State 3H (s)
 Bell Lake 19 State 4H (s)
 Bell Lake 19 State 5H (p)
 Bell Lake 19 State 7H (p)
 Bell Lake 19 State 11H (p)

5D Anti-Collision Report

Anti-Collision Report Terminology

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

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

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

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

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

AC Filter Info: the following filter has been applied: Depth Range.

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

Anti-Collision Summary (TVD relative to Kelly Bushing)

SF	Secondary Well Name	Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	ES (US ft)	CC (US ft)	SF	Risk
	Bell Lake 19 State 11H (p)	5518.95	5518.94	5518.94	25.06	50.17	2.00	SF(Lo)
	Bell Lake 19 State 7H (p)	14048.89	9492.00	14135.38	330.97	502.27	2.93	
	Bell Lake 19 State 4H (s)	9084.57	9073.52	9143.10	237.42	277.63	6.91	
	Bell Lake 19 State 5H (p)	14048.89	9492.00	13950.35	1309.05	1485.35	8.43	
	Bell Lake 19 State 3H (s)	14048.89	9492.00	15609.26	1779.15	1889.72	17.09	
	Bell Lake 19 State 2H (s)	14048.89	9492.00	15672.85	2766.02	2914.76	19.60	

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)

MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	89.54	0.00	0.00	0.00	Bell Lake 19 State 11H (p)	49.39	49.96	88.17	
100.00	100.00	89.54	0.11	0.11	4.60	Bell Lake 19 State 11H (p)	49.17	49.96	63.46	
200.00	200.00	89.54	0.34	0.34	4.62	Bell Lake 19 State 11H (p)	48.72	49.96	40.39	
300.00	300.00	89.54	0.56	0.56	4.65	Bell Lake 19 State 11H (p)	48.28	49.96	29.63	
400.00	400.00	89.54	0.79	0.79	4.70	Bell Lake 19 State 11H (p)	47.83	49.96	23.39	
500.00	500.00	89.54	1.01	1.01	4.75	Bell Lake 19 State 11H (p)	47.38	49.96	19.32	
600.00	600.00	89.54	1.24	1.24	4.82	Bell Lake 19 State 11H (p)	46.93	49.96	16.46	
700.00	700.00	89.54	1.46	1.46	4.89	Bell Lake 19 State 11H (p)	46.48	49.96	14.34	
800.00	800.00	89.54	1.69	1.69	4.98	Bell Lake 19 State 11H (p)	46.03	49.96	12.70	
900.00	900.00	89.54	1.91	1.91	5.07	Bell Lake 19 State 11H (p)	45.58	49.96	11.40	
1000.00	1000.00	89.54	2.14	2.14	5.17	Bell Lake 19 State 11H (p)	45.13	49.96	10.34	
1100.00	1100.00	89.54	2.36	2.36	5.28	Bell Lake 19 State 11H (p)	44.68	49.96	9.46	
1200.00	1200.00	89.54	2.59	2.59	5.39	Bell Lake 19 State 11H (p)	44.23	49.96	8.72	
1300.00	1300.00	89.54	2.81	2.81	5.51	Bell Lake 19 State 11H (p)	43.78	49.96	8.08	
1400.00	1400.00	89.54	3.03	3.03	5.64	Bell Lake 19 State 11H (p)	43.33	49.96	7.53	

SD Anti-Collision Report

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	US (US ft)	CC (US ft)	SF	Risk
1500.00	1500.00	89.54	3.26	3.26	5.77	Bell Lake 19 State 11H (p)	42.88	49.96	7.05	
1600.00	1600.00	89.54	3.48	3.48	5.90	Bell Lake 19 State 11H (p)	42.43	49.96	6.63	
1700.00	1700.00	89.54	3.71	3.71	6.04	Bell Lake 19 State 11H (p)	41.98	49.96	6.25	
1800.00	1800.00	89.54	3.93	3.93	6.19	Bell Lake 19 State 11H (p)	41.53	49.96	5.93	
1900.00	1900.00	89.54	4.16	4.16	6.34	Bell Lake 19 State 11H (p)	41.08	49.96	5.63	
2000.00	2000.00	89.54	4.38	4.38	6.49	Bell Lake 19 State 11H (p)	40.63	49.96	5.36	
2100.00	2100.00	89.54	4.61	4.61	6.64	Bell Lake 19 State 11H (p)	40.18	49.96	5.11	
2200.00	2200.00	89.54	4.83	4.83	6.80	Bell Lake 19 State 11H (p)	39.73	49.96	4.88	
2300.00	2300.00	89.54	5.06	5.06	6.96	Bell Lake 19 State 11H (p)	39.28	49.96	4.68	
2400.00	2400.00	89.54	5.28	5.28	7.12	Bell Lake 19 State 11H (p)	38.83	49.96	4.49	
2500.00	2500.00	89.54	5.51	5.51	7.29	Bell Lake 19 State 11H (p)	38.38	49.96	4.32	
2600.00	2600.00	89.54	5.73	5.73	7.46	Bell Lake 19 State 11H (p)	37.94	49.96	4.15	
2700.00	2700.00	89.54	5.96	5.96	7.63	Bell Lake 19 State 11H (p)	37.49	49.96	4.00	
2800.00	2800.00	89.54	6.18	6.18	7.80	Bell Lake 19 State 11H (p)	37.04	49.96	3.87	
2900.00	2900.00	89.54	6.41	6.41	7.98	Bell Lake 19 State 11H (p)	36.59	49.96	3.74	
3000.00	3000.00	89.54	6.63	6.63	8.16	Bell Lake 19 State 11H (p)	36.14	49.96	3.61	
3100.00	3100.00	89.54	6.86	6.86	8.34	Bell Lake 19 State 11H (p)	35.69	49.96	3.50	
3200.00	3200.00	89.54	7.08	7.08	8.52	Bell Lake 19 State 11H (p)	35.24	49.96	3.39	
3300.00	3300.00	89.54	7.31	7.31	8.71	Bell Lake 19 State 11H (p)	34.79	49.96	3.29	
3400.00	3400.00	89.54	7.53	7.53	8.90	Bell Lake 19 State 11H (p)	34.34	49.96	3.20	
3500.00	3500.00	89.54	7.76	7.76	9.09	Bell Lake 19 State 11H (p)	33.89	49.96	3.11	
3600.00	3600.00	89.54	7.98	7.98	9.28	Bell Lake 19 State 11H (p)	33.44	49.96	3.02	
3700.00	3700.00	89.54	8.20	8.20	9.48	Bell Lake 19 State 11H (p)	32.99	49.96	2.94	
3800.00	3800.00	89.54	8.43	8.43	9.68	Bell Lake 19 State 11H (p)	32.54	49.96	2.87	
3900.00	3900.00	89.54	8.65	8.65	9.88	Bell Lake 19 State 11H (p)	32.09	49.96	2.80	
4000.00	4000.00	89.54	8.88	8.88	10.08	Bell Lake 19 State 11H (p)	31.64	49.96	2.73	

SD Anti-Collision Report

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T Face to Set (°)	S Major (US ft)	S Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
4100.00	4100.00	89.54	9.10	9.10	10.29	Bell Lake 19 State 11H (p)	31.19	49.96	2.66	
4200.00	4200.00	89.54	9.33	9.33	10.50	Bell Lake 19 State 11H (p)	30.74	49.96	2.60	
4300.00	4300.00	89.54	9.55	9.55	10.71	Bell Lake 19 State 11H (p)	30.29	49.96	2.54	
4400.00	4400.00	89.54	9.78	9.78	10.93	Bell Lake 19 State 11H (p)	29.84	49.96	2.48	
4500.00	4500.00	89.54	10.00	10.00	11.15	Bell Lake 19 State 11H (p)	29.39	49.96	2.43	
4600.00	4600.00	89.54	10.23	10.23	11.37	Bell Lake 19 State 11H (p)	28.94	49.96	2.38	
4700.00	4700.00	89.54	10.45	10.45	11.60	Bell Lake 19 State 11H (p)	28.49	49.96	2.33	
4800.00	4800.00	89.54	10.68	10.68	11.83	Bell Lake 19 State 11H (p)	28.05	49.96	2.28	
4900.00	4900.00	89.54	10.90	10.90	12.06	Bell Lake 19 State 11H (p)	27.60	49.96	2.23	
5000.00	5000.00	89.54	11.13	11.13	12.30	Bell Lake 19 State 11H (p)	27.15	49.96	2.19	
5100.00	5100.00	89.54	11.35	11.35	12.54	Bell Lake 19 State 11H (p)	26.70	49.96	2.15	
5200.00	5200.00	89.54	11.58	11.58	12.79	Bell Lake 19 State 11H (p)	26.25	49.96	2.11	
5300.00	5300.00	89.54	11.80	11.80	13.03	Bell Lake 19 State 11H (p)	25.80	49.96	2.07	
5400.00	5400.00	89.54	12.03	12.03	13.29	Bell Lake 19 State 11H (p)	25.35	49.96	2.03	
5500.00	5500.00	179.54	12.25	12.25	13.54	Bell Lake 19 State 11H (p)	25.01	50.04	2.00	SF(Lo)
5600.00	5599.99	179.55	12.44	12.44	13.80	Bell Lake 19 State 11H (p)	25.98	51.44	2.02	
5700.00	5699.94	179.58	12.64	12.63	14.06	Bell Lake 19 State 11H (p)	28.69	54.58	2.11	
5800.00	5799.82	179.61	12.84	12.82	14.33	Bell Lake 19 State 11H (p)	33.15	59.46	2.26	
5900.00	5899.60	179.65	13.05	13.01	14.60	Bell Lake 19 State 11H (p)	39.35	66.09	2.47	
6000.00	5999.24	179.69	13.25	13.20	14.88	Bell Lake 19 State 11H (p)	47.29	74.46	2.74	
6100.00	6098.74	179.73	13.46	13.39	15.15	Bell Lake 19 State 11H (p)	56.89	84.48	3.06	
6200.00	6198.19	179.76	13.68	13.59	15.44	Bell Lake 19 State 11H (p)	66.92	94.94	3.39	
6300.00	6297.64	179.78	13.90	13.79	15.73	Bell Lake 19 State 11H (p)	76.95	105.39	3.71	
6400.00	6397.10	179.80	14.12	13.99	16.02	Bell Lake 19 State 11H (p)	86.97	115.84	4.01	
6500.00	6496.55	179.82	14.34	14.20	16.32	Bell Lake 19 State 11H (p)	97.00	126.30	4.31	
6600.00	6596.00	179.83	14.56	14.40	16.62	Bell Lake 19 State 11H (p)	107.02	136.75	4.60	

5D Anti-Collision Report

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
6700.00	6695.45	179.84	14.79	14.61	16.93	Bell Lake 19 State 11H (p)	117.05	147.20	4.88	
6800.00	6794.90	179.85	15.02	14.82	17.24	Bell Lake 19 State 11H (p)	127.07	157.65	5.15	
6900.00	6894.36	179.86	15.26	15.03	17.56	Bell Lake 19 State 11H (p)	137.09	168.11	5.42	
7000.00	6993.81	179.87	15.49	15.24	17.88	Bell Lake 19 State 11H (p)	147.11	178.56	5.68	
7100.00	7093.26	179.88	15.73	15.45	18.21	Bell Lake 19 State 11H (p)	157.13	189.01	5.93	
7200.00	7192.71	179.88	15.96	15.66	18.55	Bell Lake 19 State 11H (p)	167.15	199.46	6.17	
7300.00	7292.17	179.89	16.21	15.87	18.88	Bell Lake 19 State 11H (p)	177.17	209.92	6.41	
7400.00	7391.62	179.90	16.45	16.08	19.23	Bell Lake 19 State 11H (p)	187.19	220.37	6.64	
7500.00	7491.07	179.90	16.69	16.29	19.57	Bell Lake 19 State 11H (p)	197.21	230.82	6.87	
7600.00	7590.53	179.90	16.93	16.51	19.93	Bell Lake 19 State 11H (p)	207.15	241.20	7.08	
7700.00	7690.12	179.91	17.14	16.72	20.29	Bell Lake 19 State 11H (p)	215.79	250.26	7.26	
7800.00	7789.85	179.91	17.35	16.92	20.65	Bell Lake 19 State 11H (p)	222.69	257.58	7.38	
7900.00	7889.69	179.91	17.55	17.13	21.02	Bell Lake 19 State 11H (p)	227.85	263.17	7.45	
8000.00	7989.62	179.91	17.75	17.33	21.40	Bell Lake 19 State 11H (p)	231.27	267.01	7.47	
8100.00	8089.59	179.91	17.95	17.52	21.78	Bell Lake 19 State 11H (p)	232.94	269.10	7.44	
8200.00	8189.59	89.91	18.15	17.72	22.17	Bell Lake 19 State 11H (p)	232.95	269.53	7.37	
8300.00	8289.59	89.91	18.36	17.94	22.56	Bell Lake 19 State 11H (p)	232.50	269.53	7.28	
8400.00	8389.59	89.91	18.58	18.17	22.96	Bell Lake 19 State 11H (p)	232.05	269.53	7.19	
8500.00	8489.59	89.91	18.80	18.39	23.36	Bell Lake 19 State 11H (p)	231.61	269.53	7.11	
8600.00	8589.59	89.91	19.02	18.61	23.77	Bell Lake 19 State 11H (p)	231.16	269.53	7.03	
8700.00	8689.59	89.80	19.24	18.83	24.18	Bell Lake 19 State 11H (p)	230.77	269.55	6.95	
8800.00	8789.59	87.19	19.45	19.05	24.60	Bell Lake 19 State 11H (p)	231.15	270.32	6.90	
8900.00	8889.59	81.79	19.67	19.28	25.02	Bell Lake 19 State 11H (p)	234.73	274.25	6.94	
9000.00	8989.58	234.72	19.88	19.50	25.45	Bell Lake 19 State 4H (s)	238.39	277.96	7.02	
9100.00	9088.64	231.49	19.84	19.71	25.87	Bell Lake 19 State 4H (s)	238.23	278.54	6.91	
9200.00	9183.96	227.12	19.93	19.45	26.26	Bell Lake 19 State 4H (s)	251.26	292.46	7.10	
9300.00	9272.67	222.61	20.16	18.74	26.61	Bell Lake 19 State 4H (s)	279.93	322.05	7.65	

5D Anti-Collision Report

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
9400.00	9352.07	218.96	20.43	17.79	26.91	Bell Lake 19 State 4H (s)	325.40	368.41	8.57	
9500.00	9419.73	217.33	20.77	16.71	27.17	Bell Lake 19 State 4H (s)	386.83	430.44	9.87	
9600.00	9473.61	46.07	21.21	15.64	27.43	Bell Lake 19 State 11H (p)	361.28	398.25	10.77	
9700.00	9512.07	100.85	21.76	14.75	27.70	Bell Lake 19 State 7H (p)	423.78	467.38	10.72	
9800.00	9533.94	101.33	22.43	14.21	28.00	Bell Lake 19 State 7H (p)	423.72	468.68	10.43	
9900.00	9538.81	101.45	23.20	14.16	28.35	Bell Lake 19 State 7H (p)	422.92	469.42	10.09	
10000.00	9537.68	101.60	24.08	14.36	28.75	Bell Lake 19 State 7H (p)	421.98	470.16	9.76	
10100.00	9536.55	101.74	25.07	14.60	29.23	Bell Lake 19 State 7H (p)	420.82	470.89	9.40	
10200.00	9535.42	101.89	26.14	14.87	29.77	Bell Lake 19 State 7H (p)	419.52	471.63	9.05	
10300.00	9534.30	102.03	27.30	15.17	30.37	Bell Lake 19 State 7H (p)	418.09	472.38	8.70	
10400.00	9533.17	102.18	28.52	15.50	31.03	Bell Lake 19 State 7H (p)	416.49	473.12	8.35	
10500.00	9532.04	102.32	29.81	15.85	31.74	Bell Lake 19 State 7H (p)	414.78	473.87	8.02	
10600.00	9530.91	102.46	31.15	16.24	32.51	Bell Lake 19 State 7H (p)	412.97	474.62	7.70	
10700.00	9529.78	102.61	32.54	16.64	33.32	Bell Lake 19 State 7H (p)	411.08	475.38	7.39	
10800.00	9528.65	102.75	33.97	17.07	34.17	Bell Lake 19 State 7H (p)	409.08	476.14	7.10	
10900.00	9527.53	102.89	35.43	17.52	35.07	Bell Lake 19 State 7H (p)	407.00	476.90	6.82	
11000.00	9526.40	103.03	36.93	17.98	36.00	Bell Lake 19 State 7H (p)	404.87	477.66	6.56	
11100.00	9525.27	103.17	38.46	18.47	36.97	Bell Lake 19 State 7H (p)	402.69	478.43	6.32	
11200.00	9524.14	103.31	40.01	18.97	37.97	Bell Lake 19 State 7H (p)	400.47	479.20	6.09	
11300.00	9523.01	103.46	41.59	19.48	38.99	Bell Lake 19 State 7H (p)	398.21	479.97	5.87	
11400.00	9521.89	103.59	43.18	20.01	40.05	Bell Lake 19 State 7H (p)	395.92	480.74	5.67	
11500.00	9520.76	103.73	44.79	20.55	41.13	Bell Lake 19 State 7H (p)	393.61	481.52	5.48	
11600.00	9519.63	103.87	46.42	21.11	42.24	Bell Lake 19 State 7H (p)	391.24	482.30	5.30	
11700.00	9518.50	104.01	48.07	21.67	43.36	Bell Lake 19 State 7H (p)	388.87	483.08	5.13	
11800.00	9517.37	104.15	49.72	22.24	44.51	Bell Lake 19 State 7H (p)	386.49	483.87	4.97	
11900.00	9516.24	104.29	51.39	22.83	45.67	Bell Lake 19 State 7H (p)	384.09	484.66	4.82	
12000.00	9515.12	104.42	53.07	23.42	46.85	Bell Lake 19 State 7H (p)	381.67	485.45	4.68	
12100.00	9513.99	104.56	54.76	24.02	48.05	Bell Lake 19 State 7H (p)	379.25	486.25	4.54	
12200.00	9512.86	104.70	56.45	24.62	49.26	Bell Lake 19 State 7H (p)	376.81	487.04	4.42	
12300.00	9511.73	104.83	58.16	25.24	50.49	Bell Lake 19 State 7H (p)	374.36	487.84	4.30	
12400.00	9510.60	104.97	59.87	25.85	51.73	Bell Lake 19 State 7H (p)	371.90	488.65	4.19	
12500.00	9509.48	105.10	61.59	26.48	52.97	Bell Lake 19 State 7H (p)	369.44	489.45	4.08	
12600.00	9508.35	105.24	63.31	27.11	54.23	Bell Lake 19 State 7H (p)	366.97	490.26	3.98	
12700.00	9507.22	105.37	65.04	27.75	55.51	Bell Lake 19 State 7H (p)	364.49	491.07	3.88	
12800.00	9506.09	105.50	66.78	28.39	56.79	Bell Lake 19 State 7H (p)	362.01	491.89	3.79	

5D Anti-Collision Report

Primary Well: Bell Lake 19 State 9H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
MD (US ft)	TVD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	Nearest Well	ES (US ft)	CC (US ft)	SF	Risk
12900.00	9504.96	105.64	68.52	29.03	58.07	Bell Lake 19 State 7H (p)	359.53	492.70	3.70	
13000.00	9503.83	105.77	70.26	29.68	59.37	Bell Lake 19 State 7H (p)	357.04	493.52	3.62	
13100.00	9502.71	105.90	72.01	30.33	60.68	Bell Lake 19 State 7H (p)	354.56	494.34	3.54	
13200.00	9501.58	106.03	73.77	30.99	61.99	Bell Lake 19 State 7H (p)	352.07	495.17	3.46	
13300.00	9500.45	106.16	75.52	31.65	63.31	Bell Lake 19 State 7H (p)	349.58	495.99	3.39	
13400.00	9499.32	106.29	77.28	32.31	64.63	Bell Lake 19 State 7H (p)	347.09	496.82	3.32	
13500.00	9498.19	106.42	79.04	32.98	65.96	Bell Lake 19 State 7H (p)	344.61	497.66	3.25	
13600.00	9497.06	106.55	80.81	33.65	67.30	Bell Lake 19 State 7H (p)	342.12	498.49	3.19	
13700.00	9495.94	106.68	82.58	34.32	68.64	Bell Lake 19 State 7H (p)	339.63	499.33	3.13	
13800.00	9494.81	106.81	84.35	34.99	69.99	Bell Lake 19 State 7H (p)	337.15	500.17	3.07	
13900.00	9493.68	106.94	86.12	35.67	71.34	Bell Lake 19 State 7H (p)	334.67	501.01	3.01	
14000.00	9492.55	107.07	87.90	36.35	72.70	Bell Lake 19 State 7H (p)	332.18	501.85	2.96	
14048.89	9492.00	107.13	88.77	36.68	73.36	Bell Lake 19 State 7H (p)	330.97	502.27	2.93	

Secondary Well: Bell Lake 19 State 2H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	-0.15	5.85	269.56	0.01	0.01	0.16	1294.05	1294.75	1868.46	
100.00	97.27	103.27	269.56	0.12	0.12	2.72	1293.95	1294.86	1420.19	
200.00	195.10	201.10	269.53	0.26	0.26	4.62	1293.89	1295.16	1016.02	
300.00	294.05	300.06	269.51	0.48	0.48	4.65	1293.86	1295.58	752.48	
400.00	393.53	399.54	269.48	0.69	0.69	4.70	1293.91	1296.07	599.73	
500.00	493.59	499.60	269.45	0.90	0.90	4.75	1293.98	1296.57	499.82	
600.00	593.89	599.90	269.42	1.10	1.10	4.82	1294.03	1297.05	429.24	
700.00	692.49	698.51	269.39	1.30	1.30	4.89	1294.08	1297.53	376.45	
800.00	786.49	792.52	269.36	1.50	1.50	4.97	1294.53	1298.39	335.91	
900.00	883.20	889.23	269.34	1.71	1.71	5.06	1295.26	1299.56	302.19	
1000.00	974.36	980.40	269.32	1.91	1.90	5.15	1296.46	1301.18	275.71	
1100.00	1072.04	1078.11	269.29	2.13	2.12	5.25	1298.09	1303.25	252.37	
1200.00	1173.07	1179.16	269.26	2.34	2.33	5.37	1299.79	1305.39	233.12	
1300.00	1276.42	1282.54	269.23	2.55	2.54	5.49	1301.31	1307.34	216.87	
1400.00	1380.56	1386.69	269.20	2.66	2.65	5.62	1302.62	1308.99	205.63	
1500.00	1483.80	1489.94	269.17	2.71	2.70	5.76	1303.70	1310.34	197.34	
1600.00	1598.57	1604.72	269.12	2.75	2.74	5.91	1304.21	1311.11	189.96	
1700.00	1690.73	1696.90	269.08	2.80	2.78	6.04	1304.33	1311.50	183.00	
1800.00	1770.36	1776.53	269.06	2.85	2.83	6.15	1305.52	1312.96	176.41	
1900.00	1838.49	1844.70	269.06	2.90	2.87	6.25	1308.61	1316.33	170.64	
2000.00	1909.01	1915.35	269.05	2.96	2.93	6.35	1314.28	1322.26	165.63	
2100.00	1997.91	2004.50	269.04	3.05	3.01	6.49	1321.40	1329.69	160.39	
2200.00	2105.74	2112.62	269.01	3.18	3.12	6.65	1328.38	1337.01	154.95	
2300.00	2212.30	2219.43	268.99	3.33	3.25	6.82	1334.87	1343.85	149.68	
2400.00	2322.08	2329.42	268.96	3.49	3.39	7.00	1340.64	1349.99	144.40	
2500.00	2431.13	2438.63	268.92	3.66	3.54	7.18	1345.69	1355.41	139.47	
2600.00	2542.34	2549.97	268.89	3.84	3.71	7.37	1349.97	1360.08	134.48	
2700.00	2628.38	2636.11	268.87	3.98	3.83	7.52	1354.36	1364.82	130.51	
2800.00	2700.27	2708.14	268.84	4.10	3.94	7.64	1360.25	1371.03	127.15	
2900.00	2782.57	2790.71	268.84	4.25	4.07	7.78	1368.00	1379.13	123.89	
3000.00	2888.04	2896.57	268.86	4.45	4.24	7.97	1376.10	1387.64	120.30	
3100.00	3000.02	3008.87	268.88	4.68	4.43	8.17	1383.26	1395.20	116.83	
3200.00	3113.02	3122.13	268.89	4.91	4.64	8.38	1389.51	1401.89	113.21	
3300.00	3212.95	3222.24	268.91	5.11	4.82	8.56	1395.21	1408.00	110.09	

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 2H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	BS (US ft)	CC (US ft)	SF	Risk
3400.00	3293.38	3302.87	268.90	5.27	4.96	8.71	1401.71	1414.86	107.63	
3500.00	3392.01	3401.78	268.88	5.48	5.14	8.90	1408.91	1422.45	105.03	
3600.00	3502.34	3512.40	268.84	5.72	5.34	9.11	1415.47	1429.45	102.23	
3700.00	3585.00	3595.28	268.81	5.89	5.50	9.27	1422.55	1436.90	100.12	
3800.00	3685.70	3696.32	268.77	6.11	5.68	9.47	1430.16	1444.92	97.88	
3900.00	3795.93	3806.85	268.71	6.36	5.90	9.69	1436.97	1452.18	95.51	
4000.00	3884.94	3896.13	268.67	6.55	6.07	9.87	1444.22	1459.81	93.60	
4100.00	3995.41	4006.93	268.62	6.80	6.28	10.10	1451.43	1467.48	91.48	
4200.00	4094.21	4105.97	268.57	7.03	6.48	10.31	1457.77	1474.23	89.55	
4300.00	4179.62	4191.65	268.53	7.22	6.64	10.49	1465.20	1482.04	87.98	
4400.00	4293.71	4306.11	268.46	7.48	6.87	10.73	1472.67	1489.97	86.09	
4500.00	4394.02	4406.66	268.40	7.71	7.07	10.95	1479.00	1496.73	84.40	
4600.00	4490.31	4503.22	268.34	7.93	7.27	11.17	1485.90	1504.05	82.87	
4700.00	4602.93	4616.15	268.26	8.19	7.49	11.42	1492.50	1511.11	81.19	
4800.00	4717.17	4730.61	268.16	8.45	7.73	11.68	1497.79	1516.87	79.50	
4900.00	4787.41	4801.01	268.10	8.61	7.87	11.84	1503.87	1523.30	78.39	
5000.00	4859.50	4873.37	268.05	8.78	8.01	12.01	1511.82	1531.60	77.43	
5100.00	4976.83	4991.14	267.99	9.06	8.26	12.29	1519.99	1540.22	76.16	
5200.00	5067.90	5082.51	267.96	9.28	8.44	12.51	1527.69	1548.32	75.06	
5300.00	5141.88	5156.81	267.94	9.46	8.59	12.69	1536.58	1557.56	74.24	
5400.00	5213.02	5228.40	267.91	9.65	8.74	12.87	1547.32	1568.64	73.58	
5500.00	5287.01	5303.01	357.85	9.85	8.89	13.05	1559.61	1581.25	73.08	
5600.00	5359.13	5375.90	357.80	10.07	9.04	13.23	1572.22	1594.16	72.67	
5700.00	5442.46	5460.28	357.75	10.32	9.22	13.44	1584.41	1606.70	72.09	
5800.00	5545.20	5564.39	357.68	10.64	9.45	13.71	1595.17	1617.89	71.19	
5900.00	5645.19	5665.64	357.61	10.96	9.67	13.98	1603.80	1626.96	70.26	
6000.00	5745.28	5766.98	357.53	11.28	9.90	14.25	1610.65	1634.24	69.28	
6100.00	5851.00	5873.99	357.43	11.61	10.14	14.55	1615.48	1639.53	68.19	
6200.00	5933.59	5957.62	357.36	11.87	10.32	14.78	1620.31	1644.73	67.37	
6300.00	6017.28	6042.49	357.31	12.14	10.50	15.01	1626.09	1650.88	66.60	
6400.00	6123.19	6149.93	357.29	12.49	10.75	15.32	1632.12	1657.35	65.67	
6500.00	6225.87	6254.02	357.27	12.83	10.98	15.62	1637.67	1663.35	64.77	
6600.00	6322.17	6351.62	357.24	13.15	11.20	15.91	1643.19	1669.29	63.95	
6700.00	6416.38	6447.15	357.21	13.47	11.42	16.19	1648.90	1675.42	63.18	
6800.00	6506.91	6539.01	357.17	13.77	11.62	16.47	1655.04	1681.96	62.47	
6900.00	6611.38	6645.02	357.13	14.13	11.87	16.80	1661.19	1688.56	61.68	
7000.00	6728.14	6763.37	357.07	14.53	12.15	17.17	1666.58	1694.46	60.78	
7100.00	6848.28	6884.89	356.99	14.92	12.43	17.56	1670.66	1699.07	59.82	
7200.00	6933.78	6971.33	356.93	15.20	12.62	17.84	1674.49	1703.28	59.17	
7300.00	7036.36	7075.15	356.86	15.53	12.86	18.18	1679.04	1708.28	58.42	
7400.00	7118.05	7157.82	356.80	15.80	13.05	18.45	1683.53	1713.14	57.86	
7500.00	7206.56	7247.61	356.69	16.10	13.25	18.75	1689.23	1719.24	57.27	
7600.00	7317.33	7359.92	356.54	16.48	13.51	19.14	1694.70	1725.21	56.55	
7700.00	7437.33	7481.41	356.39	16.89	13.80	19.56	1700.39	1731.41	55.81	
7800.00	7524.78	7569.88	356.28	17.17	14.00	19.87	1707.67	1739.07	55.39	
7900.00	7639.68	7686.05	356.16	17.54	14.27	20.29	1716.07	1747.95	54.83	
8000.00	7707.61	7754.79	356.10	17.76	14.42	20.54	1727.14	1759.32	54.68	
8100.00	7815.13	7863.71	356.01	18.13	14.67	20.94	1740.49	1773.12	54.33	
8200.00	7926.23	7976.07	265.93	18.49	14.93	21.36	1754.36	1787.47	53.98	
8300.00	8004.08	8054.87	265.88	18.75	15.11	21.65	1769.32	1802.79	53.85	
8400.00	8097.75	8149.78	265.84	19.06	15.32	22.01	1784.95	1818.86	53.64	
8500.00	8213.99	8267.37	265.81	19.45	15.60	22.47	1799.45	1833.87	53.28	
8600.00	8289.94	8344.28	265.76	19.71	15.77	22.77	1814.73	1849.52	53.16	
8700.00	8376.88	8432.46	265.72	20.01	15.97	23.12	1830.91	1866.11	53.01	
8800.00	8496.32	8553.44	265.68	20.41	16.26	23.61	1846.19	1881.91	52.69	
8900.00	8580.16	8638.37	265.66	20.70	16.45	23.96	1861.70	1897.82	52.54	
9000.00	8670.56	8730.06	266.30	21.01	16.66	24.34	1878.03	1914.58	52.39	
9100.00	8785.93	8846.91	267.55	21.40	16.94	24.83	1894.09	1931.15	52.10	

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 2H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
FM MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
9200.00	8887.69	8949.95	268.35	21.75	17.18	25.27	1911.16	1948.67	51.94	
9300.00	9009.42	9072.95	268.41	22.14	17.47	25.80	1928.08	1966.21	51.57	
9400.00	9125.52	9189.96	268.12	22.50	17.74	26.31	1945.36	1984.11	51.20	
9500.00	9237.60	9302.64	267.64	22.80	17.99	26.82	1963.81	2003.24	50.81	
9600.00	9322.76	9388.08	267.76	23.02	18.17	27.20	1984.73	2024.83	50.49	
9700.00	9377.87	9443.34	268.90	23.15	18.29	27.45	2009.23	2050.16	50.09	
9800.00	9405.52	9471.04	271.20	23.21	18.35	27.58	2037.94	2079.66	49.84	
9900.00	9409.47	9475.00	273.99	23.22	18.35	27.60	2070.48	2113.02	49.68	
10000.00	9406.95	9472.47	274.07	23.22	18.35	27.58	2106.73	2150.22	49.44	
10100.00	9404.40	9469.92	274.14	23.21	18.34	27.57	2146.85	2191.35	49.25	
10200.00	9401.84	9467.35	274.21	23.21	18.34	27.56	2190.79	2236.20	49.24	
10300.00	9399.24	9464.75	274.29	23.20	18.33	27.55	2238.20	2284.54	49.30	
10400.00	9396.28	9461.78	274.38	23.19	18.33	27.54	2288.75	2336.17	49.27	
10500.00	9392.59	9458.08	274.48	23.19	18.32	27.52	2342.45	2390.86	49.39	
10600.00	9388.86	9454.35	274.59	23.18	18.31	27.50	2399.09	2448.41	49.65	
10700.00	9385.10	9450.58	274.70	23.17	18.30	27.48	2458.44	2508.62	49.99	
10800.00	9381.29	9446.77	274.81	23.16	18.29	27.47	2520.25	2571.32	50.35	
10900.00	9377.45	9442.91	274.92	23.15	18.29	27.45	2584.41	2636.31	50.80	
11000.00	9373.57	9439.02	275.03	23.14	18.28	27.43	2650.78	2703.43	51.34	
11100.00	11103.93	12897.04	235.08	38.90	22.48	45.51	2691.78	2758.09	41.59	
11200.00	11102.24	13011.59	235.15	40.64	23.00	46.57	2692.54	2761.51	40.04	
11300.00	11099.68	13145.22	235.22	42.39	23.65	47.85	2692.18	2763.85	38.56	
11400.00	11098.06	13234.15	235.26	43.74	24.10	48.72	2691.69	2765.80	37.32	
11500.00	11097.23	13307.39	235.29	44.93	24.47	49.46	2691.98	2768.58	36.14	
11600.00	11096.69	13378.98	235.32	46.12	24.85	50.19	2693.41	2772.36	35.11	
11700.00	11096.05	13474.43	235.37	47.59	25.35	51.18	2695.04	2776.74	33.98	
11800.00	11095.57	13575.58	235.42	49.08	25.89	52.25	2696.63	2781.07	32.94	
11900.00	11095.47	13628.82	235.45	50.23	26.18	52.83	2699.49	2786.32	32.09	
12000.00	11095.43	13691.56	235.49	51.41	26.53	53.51	2703.90	2793.19	31.28	
12100.00	11096.45	13834.12	235.57	53.30	27.32	55.09	2708.32	2800.74	30.30	
12200.00	11097.66	13998.69	235.61	55.62	28.26	56.95	2709.95	2805.67	29.31	
12300.00	11096.05	14137.94	235.66	57.63	29.07	58.55	2709.30	2808.14	28.41	
12400.00	11095.77	14201.65	235.67	58.84	29.44	59.29	2709.60	2810.97	27.73	
12500.00	11095.79	14267.61	235.69	60.11	29.83	60.07	2711.17	2815.07	27.09	
12600.00	11095.75	14337.97	235.73	61.46	30.25	60.90	2713.84	2820.31	26.49	
12700.00	11095.65	14422.74	235.77	62.92	30.76	61.91	2717.11	2826.31	25.88	
12800.00	11096.03	14503.33	235.82	64.23	31.25	62.89	2720.97	2832.91	25.31	
12900.00	11097.51	14591.73	235.84	65.61	31.78	63.96	2725.32	2840.07	24.75	
13000.00	11099.62	14673.99	235.85	67.04	32.28	64.97	2730.19	2847.69	24.24	
13100.00	11101.77	14793.68	235.90	69.16	33.04	66.44	2734.94	2855.56	23.67	
13200.00	11102.36	14910.79	235.96	70.97	33.77	67.90	2738.77	2862.54	23.13	
13300.00	11101.02	15065.91	236.07	73.59	34.76	69.84	2741.03	2868.33	22.53	
13400.00	11094.08	15217.46	236.27	76.18	35.70	71.75	2740.91	2871.79	21.94	
13500.00	11088.87	15306.04	236.41	77.67	36.27	72.87	2740.96	2874.86	21.47	
13600.00	11085.87	15375.52	236.49	78.78	36.72	73.75	2741.89	2878.61	21.05	
13700.00	11085.27	15411.99	236.53	79.50	36.95	74.22	2744.96	2884.12	20.73	
13800.00	11085.69	15448.39	236.54	80.21	37.16	74.69	2750.30	2891.82	20.43	
13900.00	11088.69	15542.16	236.56	81.79	37.76	75.90	2756.65	2901.08	20.09	
14000.00	11090.82	15632.92	236.59	83.53	38.37	77.08	2762.80	2910.15	19.75	
14048.89	11091.46	15672.85	236.62	84.26	38.63	77.60	2766.02	2914.76	19.60	

Secondary Well: Bell Lake 19 State 3H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
FM MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.05	6.05	269.57	0.01	0.01	0.21	1243.92	1244.77	1465.47	
100.00	100.83	106.83	269.56	0.12	0.12	3.62	1243.66	1244.73	1161.73	
200.00	191.54	197.54	269.56	0.28	0.28	4.62	1243.46	1244.91	857.61	
300.00	285.36	291.37	269.56	0.48	0.48	4.65	1244.08	1245.96	664.02	
400.00	382.89	388.91	269.54	0.68	0.68	4.69	1244.77	1247.08	540.43	

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 3H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pa MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CS (US ft)	SI	Risk
500.00	486.33	492.36	269.54	0.90	0.89	4.75	1245.60	1248.34	455.02	
600.00	587.31	593.34	269.53	1.11	1.11	4.81	1246.26	1249.44	392.83	
700.00	685.97	692.01	269.51	1.32	1.31	4.89	1246.86	1250.47	346.32	
800.00	781.39	787.43	269.50	1.52	1.51	4.97	1247.70	1251.73	310.21	
900.00	874.59	880.65	269.51	1.71	1.71	5.05	1249.04	1253.49	281.38	
1000.00	964.50	970.58	269.49	1.90	1.90	5.14	1250.97	1255.84	257.84	
1100.00	1058.06	1064.19	269.49	2.11	2.10	5.24	1253.67	1258.96	237.76	
1200.00	1159.99	1166.18	269.47	2.33	2.31	5.35	1256.60	1262.34	220.08	
1300.00	1267.76	1273.99	269.45	2.56	2.54	5.48	1259.01	1265.20	204.47	
1400.00	1374.38	1380.65	269.40	2.78	2.76	5.61	1261.05	1267.40	199.47	
1500.00	1471.26	1477.55	269.36	2.99	2.96	5.74	1262.75	1269.53	187.15	
1600.00	1568.01	1574.34	269.32	3.20	3.17	5.87	1264.76	1271.97	176.36	
1700.00	1667.77	1674.13	269.28	3.41	3.38	6.01	1266.80	1274.45	166.71	
1800.00	1769.00	1775.40	269.21	3.63	3.59	6.15	1268.98	1277.06	158.09	
1900.00	1876.61	1883.05	269.13	3.85	3.82	6.31	1270.59	1279.11	150.00	
2000.00	1977.30	1983.77	269.06	4.07	4.03	6.46	1271.89	1280.86	142.81	
2100.00	2077.94	2084.43	268.99	4.28	4.24	6.62	1273.23	1282.64	136.31	
2200.00	2181.11	2187.64	268.91	4.50	4.45	6.78	1274.40	1284.25	130.36	
2300.00	2282.17	2288.72	268.84	4.71	4.67	6.94	1275.37	1285.66	124.95	
2400.00	2380.14	2386.71	268.79	4.92	4.87	7.10	1276.39	1287.10	120.09	
2500.00	2490.80	2497.38	268.75	5.15	5.10	7.29	1277.14	1288.31	115.30	
2600.00	2588.32	2594.91	268.70	5.36	5.31	7.45	1277.53	1289.13	111.13	
2700.00	2695.92	2702.51	268.66	5.58	5.53	7.63	1277.64	1289.69	107.06	
2800.00	2795.28	2801.87	268.64	5.79	5.74	7.81	1277.59	1290.07	103.40	
2900.00	2899.85	2906.45	268.63	6.01	5.96	7.99	1277.33	1290.25	99.88	
3000.00	2999.70	3006.29	268.62	6.22	6.17	8.17	1276.82	1290.17	96.64	
3100.00	3097.92	3104.51	268.61	6.42	6.37	8.35	1276.61	1290.39	93.65	
3200.00	3205.75	3212.35	268.63	6.64	6.60	8.55	1276.02	1290.25	90.67	
3300.00	3307.69	3314.29	268.63	6.86	6.81	8.74	1274.97	1289.64	87.93	
3400.00	3409.35	3415.95	268.64	7.07	7.03	8.93	1273.93	1289.03	85.37	
3500.00	3507.66	3514.26	268.65	7.27	7.23	9.12	1272.78	1288.31	82.95	
3600.00	3603.95	3610.56	268.69	7.47	7.43	9.30	1271.90	1287.86	80.68	
3700.00	3711.07	3717.69	268.73	7.69	7.66	9.51	1270.87	1287.29	78.42	
3800.00	3803.68	3810.30	268.76	7.88	7.85	9.70	1269.85	1286.69	76.42	
3900.00	3909.35	3915.98	268.80	8.10	8.07	9.91	1268.97	1286.25	74.43	
4000.00	4014.55	4021.18	268.81	8.32	8.29	10.13	1267.52	1285.24	72.50	
4100.00	4107.97	4114.60	268.83	8.51	8.48	10.32	1266.22	1284.37	70.77	
4200.00	4205.86	4212.50	268.88	8.71	8.69	10.53	1265.39	1283.98	69.10	
4300.00	4320.44	4327.10	268.96	8.95	8.93	10.77	1263.75	1282.79	67.37	
4400.00	4425.89	4432.58	269.01	9.17	9.15	11.00	1261.53	1281.01	65.75	
4500.00	4537.97	4544.69	269.03	9.41	9.39	11.25	1258.66	1278.60	64.12	
4600.00	4643.99	4650.77	269.03	9.63	9.61	11.49	1254.91	1275.30	62.54	
4700.00	4761.12	4768.00	269.00	9.87	9.86	11.75	1250.43	1271.27	61.02	
4800.00	4854.27	4861.25	268.95	10.06	10.05	11.97	1245.46	1266.73	59.54	
4900.00	4960.61	4967.71	268.88	10.29	10.27	12.22	1240.39	1262.10	58.13	
5000.00	5054.16	5061.37	268.83	10.48	10.47	12.44	1235.45	1257.59	56.81	
5100.00	5155.34	5162.66	268.75	10.69	10.68	12.69	1230.71	1253.26	55.58	
5200.00	5277.54	5285.05	268.66	10.95	10.93	12.99	1224.94	1247.98	54.17	
5300.00	5395.10	5402.92	268.57	11.20	11.18	13.28	1217.41	1240.87	52.89	
5400.00	5497.25	5505.41	268.48	11.42	11.39	13.54	1209.07	1232.99	51.53	
5500.00	5595.10	5603.57	358.40	11.63	11.60	13.80	1200.78	1225.09	50.40	
5600.00	5692.69	5701.46	358.32	11.84	11.80	14.06	1191.29	1216.00	49.21	
5700.00	5788.34	5797.40	358.23	12.04	12.00	14.31	1180.33	1205.40	48.07	
5800.00	5887.34	5896.68	358.15	12.25	12.20	14.58	1167.67	1193.20	46.74	
5900.00	5984.79	5994.40	358.06	12.46	12.41	14.85	1153.41	1179.35	45.46	
6000.00	6084.47	6094.36	357.96	12.68	12.62	15.13	1137.39	1163.74	44.16	
6100.00	6181.60	6191.76	357.87	12.89	12.82	15.41	1119.77	1146.52	42.86	
6200.00	6280.50	6290.93	357.78	13.11	13.03	15.70	1101.76	1128.90	41.60	

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 3H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										Risk
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CE (US ft)	SF	
6300.00	6379.29	6389.99	357.69	13.33	13.24	15.99	1083.62	1111.16	40.34	
6400.00	6476.19	6487.16	357.60	13.55	13.44	16.28	1065.55	1093.52	39.10	
6500.00	6574.52	6585.75	357.51	13.77	13.65	16.58	1047.51	1075.90	37.90	
6600.00	6671.97	6683.47	357.41	13.98	13.86	16.88	1029.48	1058.29	36.73	
6700.00	6768.35	6780.10	357.33	14.20	14.06	17.18	1011.59	1040.82	35.61	
6800.00	6866.54	6878.53	357.24	14.42	14.27	17.49	993.84	1023.49	34.53	
6900.00	6965.67	6977.91	357.16	14.64	14.48	17.81	975.98	1006.04	33.47	
7000.00	7063.85	7076.34	357.09	14.87	14.69	18.13	958.10	988.58	32.43	
7100.00	7161.24	7173.98	357.01	15.09	14.90	18.46	940.26	971.15	31.44	
7200.00	7258.04	7271.01	356.94	15.30	15.11	18.78	922.54	953.85	30.47	
7300.00	7353.54	7366.73	356.88	15.52	15.31	19.11	905.03	936.75	29.53	
7400.00	7449.02	7462.41	356.83	15.73	15.51	19.44	887.84	919.98	28.63	
7500.00	7546.48	7560.05	356.78	15.95	15.72	19.79	870.89	903.44	27.76	
7600.00	7644.90	7658.66	356.72	16.17	15.92	20.14	854.05	887.00	26.92	
7700.00	7742.05	7755.99	356.68	16.39	16.13	20.49	838.58	871.93	26.15	
7800.00	7840.47	7854.58	356.65	16.61	16.34	20.86	825.00	858.75	25.45	
7900.00	7939.64	7953.92	356.64	16.83	16.55	21.22	813.16	847.30	24.82	
8000.00	8038.97	8053.42	356.64	17.06	16.76	21.60	803.05	837.58	24.25	
8100.00	8138.50	8153.13	356.65	17.28	16.98	21.98	794.67	829.60	23.75	
8200.00	8237.01	8251.81	266.65	17.50	17.18	22.37	788.00	823.35	23.29	
8300.00	8338.04	8353.02	266.65	17.73	17.40	22.76	781.73	817.52	22.84	
8400.00	8441.73	8456.91	266.62	17.96	17.61	23.18	775.01	811.23	22.40	
8500.00	8534.15	8549.50	266.59	18.17	17.81	23.56	768.63	805.29	21.97	
8600.00	8631.31	8646.80	266.55	18.39	18.02	23.96	762.82	799.92	21.56	
8700.00	8728.52	8744.13	266.52	18.60	18.23	24.36	757.33	794.86	21.18	
8800.00	8825.52	8841.24	266.48	18.82	18.43	24.77	752.16	790.12	20.81	
8900.00	8921.78	8937.59	266.44	19.03	18.64	25.18	747.41	785.81	20.47	
9000.00	9018.00	9033.88	266.57	19.24	18.84	25.60	743.12	781.94	20.14	
9100.00	9110.99	9126.93	265.44	19.44	19.04	26.01	740.29	779.54	19.86	
9200.00	9197.41	9213.37	263.60	19.63	19.22	26.39	740.47	780.12	19.68	
9300.00	9274.29	9290.26	261.58	19.79	19.38	26.73	745.65	785.81	19.57	
9400.00	9345.82	9361.78	259.73	19.94	19.53	27.06	758.04	798.66	19.66	
9500.00	9402.96	9418.93	258.95	20.05	19.65	27.32	779.41	820.66	19.90	
9600.00	9446.31	9462.29	259.77	20.14	19.73	27.52	811.59	853.38	20.42	
9700.00	9476.94	9492.95	262.54	20.20	19.79	27.66	854.40	896.88	21.11	
9800.00	9494.17	9510.20	267.57	20.23	19.82	27.74	906.96	950.01	22.07	
9900.00	9497.78	9513.81	273.55	20.24	19.83	27.75	966.94	1010.62	23.13	
10000.00	9496.51	9512.54	273.64	20.24	19.82	27.75	1032.98	1077.02	24.46	
10100.00	9495.22	9511.25	273.74	20.23	19.82	27.74	1103.69	1148.29	25.75	
10200.00	9493.91	9509.94	273.84	20.23	19.82	27.74	1178.61	1223.59	27.21	
10300.00	9492.59	9508.61	273.93	20.23	19.82	27.73	1257.01	1302.21	28.81	
10400.00	9491.24	9507.26	274.03	20.23	19.81	27.72	1338.06	1383.60	30.38	
10500.00	9489.87	9505.89	274.13	20.22	19.81	27.72	1421.44	1467.29	32.00	
10600.00	9488.48	9504.50	274.23	20.22	19.81	27.71	1506.83	1552.90	33.71	
10700.00	9487.07	9503.09	274.34	20.22	19.81	27.70	1593.92	1640.15	35.48	
10800.00	9485.63	9501.65	274.44	20.21	19.80	27.70	1682.43	1728.77	37.30	
10900.00	9484.17	9500.19	274.55	20.21	19.80	27.69	1772.15	1818.58	39.17	
11000.00	11120.10	12590.63	213.19	37.40	21.21	42.49	1851.57	1904.42	36.04	
11100.00	11120.12	12736.34	213.08	39.44	21.87	43.73	1849.45	1904.26	34.75	
11200.00	11117.45	12845.41	213.04	41.04	22.36	44.71	1845.25	1901.81	33.62	
11300.00	11116.3									

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 3H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr. MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
12100.00	11113.45	13697.20	213.09	53.92	26.71	53.39	1835.92	1909.04	26.11	
12200.00	11112.17	13783.77	213.13	55.27	27.18	54.36	1834.58	1909.64	25.44	
12300.00	11111.46	13909.61	213.15	57.24	27.90	55.78	1833.60	1910.95	24.71	
12400.00	11108.60	14039.55	213.14	59.30	28.65	57.27	1829.69	1909.34	23.97	
12500.00	11106.97	14125.52	213.11	60.68	29.15	58.27	1826.26	1907.80	23.40	
12600.00	11105.61	14225.54	213.07	62.25	29.73	59.45	1823.11	1906.66	22.82	
12700.00	11104.90	14314.02	213.02	63.66	30.26	60.51	1820.34	1905.79	22.30	
12800.00	11104.69	14410.81	212.95	65.19	30.83	61.67	1817.92	1905.33	21.80	
12900.00	11105.43	14494.11	212.86	66.50	31.32	62.68	1816.15	1905.36	21.36	
13000.00	11106.55	14618.65	212.71	68.52	32.10	64.21	1813.92	1905.25	20.86	
13100.00	11106.55	14712.10	212.63	70.05	32.68	65.37	1811.42	1904.68	20.42	
13200.00	11106.74	14813.77	212.53	71.69	33.31	66.63	1808.85	1904.07	20.00	
13300.00	11104.02	15018.40	212.30	74.95	34.63	69.20	1804.43	1902.24	19.45	
13400.00	11100.33	15104.09	212.22	76.36	35.17	70.28	1796.81	1896.50	19.02	
13500.00	11098.00	15181.18	212.13	77.61	35.65	71.26	1790.35	1891.84	18.64	
13600.00	11096.66	15262.46	212.01	78.92	36.16	72.30	1785.00	1888.27	18.29	
13700.00	11096.71	15320.81	211.92	79.89	36.51	73.05	1781.43	1886.28	17.99	
13800.00	11098.48	15397.08	211.77	81.14	36.98	74.04	1779.87	1886.37	17.71	
13900.00	11101.01	15486.76	211.58	82.61	37.54	75.21	1778.56	1886.75	17.44	
14000.00	11104.13	15559.48	211.42	83.82	37.99	76.15	1778.83	1888.56	17.21	
14048.89	11106.56	15609.26	211.30	84.64	38.31	76.81	1779.15	1889.72	17.09	

Secondary Well: Bell Lake 19 State 4H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr. MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	-0.24	5.76	269.56	0.01	0.01	0.16	1194.08	1194.78	1721.49	
100.00	95.79	101.80	269.50	0.14	0.14	2.63	1194.03	1194.96	1281.36	
200.00	191.93	197.99	269.36	0.39	0.39	2.63	1194.06	1195.47	845.79	
300.00	290.62	296.74	269.19	0.66	0.66	2.63	1194.30	1196.21	628.90	
400.00	387.47	393.66	269.02	0.92	0.91	2.63	1194.73	1197.12	501.92	
500.00	487.59	493.87	268.83	1.18	1.18	2.64	1195.29	1198.17	416.59	
600.00	586.66	593.02	268.65	1.45	1.44	2.65	1195.88	1199.24	356.43	
700.00	683.46	689.89	268.49	1.71	1.70	2.66	1196.64	1200.48	312.35	
800.00	778.38	784.86	268.35	1.96	1.95	2.67	1197.74	1202.06	278.24	
900.00	874.16	880.69	268.22	2.20	2.19	2.68	1199.24	1204.04	251.11	
1000.00	971.49	978.09	268.10	2.46	2.44	2.69	1201.04	1206.31	228.97	
1100.00	1070.68	1077.33	267.98	2.71	2.70	2.70	1202.97	1208.71	210.50	
1200.00	1166.82	1173.54	267.87	2.96	2.94	2.71	1205.05	1211.26	195.03	
1300.00	1268.40	1275.19	267.74	3.12	3.11	3.89	1207.40	1214.00	183.80	
1400.00	1372.26	1379.11	267.61	3.26	3.24	5.49	1209.48	1216.44	174.56	
1500.00	1475.07	1482.00	267.48	3.29	3.28	5.75	1211.38	1218.60	168.63	
1600.00	1586.25	1593.24	267.31	3.34	3.32	5.90	1212.68	1220.18	162.79	
1700.00	1699.21	1706.29	267.11	3.40	3.38	6.05	1213.12	1220.90	156.93	
1800.00	1921.96	1929.71	266.53	3.58	3.55	6.37	1209.13	1217.29	149.19	
1900.00	2050.53	2059.36	266.18	3.71	3.68	6.55	1197.12	1205.62	141.83	
2000.00	2165.22	2175.12	266.06	3.86	3.80	6.73	1183.41	1192.25	134.85	
2100.00	2263.50	2274.37	266.04	4.00	3.91	6.89	1169.19	1178.36	128.49	
2200.00	2359.62	2371.42	266.03	4.16	4.03	7.05	1155.04	1164.55	122.48	
2300.00	2453.23	2465.90	266.02	4.32	4.14	7.21	1141.15	1151.00	116.80	
2400.00	2541.49	2554.92	266.01	4.49	4.26	7.36	1127.85	1138.04	111.74	
2500.00	2627.72	2641.77	265.91	4.66	4.38	7.51	1115.70	1126.25	106.76	
2600.00	2724.35	2739.07	265.74	4.85	4.53	7.68	1104.15			

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 4H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Tri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
3400.00	3504.31	3523.90	264.25	6.65	5.86	9.14	1016.70	1030.81	73.06	
3500.00	3603.00	3623.12	264.15	6.89	6.05	9.34	1006.05	1020.57	70.27	
3600.00	3696.39	3716.97	264.09	7.11	6.23	9.53	995.80	1010.73	67.69	
3700.00	3785.14	3806.11	264.02	7.32	6.39	9.71	986.31	1001.65	65.31	
3800.00	3874.05	3895.30	263.97	7.52	6.56	9.89	977.97	993.71	63.14	
3900.00	3975.41	3996.93	263.92	7.75	6.75	10.10	970.27	986.42	61.06	
4000.00	4090.62	4112.57	263.81	8.01	6.97	10.34	961.45	978.04	58.96	
4100.00	4195.63	4218.10	263.67	8.26	7.18	10.56	951.38	968.39	56.91	
4200.00	4288.89	4311.80	263.56	8.49	7.36	10.77	941.37	958.80	54.99	
4300.00	4398.66	4422.15	263.40	8.77	7.58	11.01	931.08	948.95	53.09	
4400.00	4498.80	4522.88	263.23	9.03	7.78	11.23	920.10	938.41	51.26	
4500.00	4592.26	4616.88	263.05	9.27	7.97	11.44	909.47	928.21	49.54	
4600.00	4688.75	4713.90	262.83	9.52	8.17	11.67	899.22	918.39	47.91	
4700.00	4783.33	4808.99	262.57	9.77	8.37	11.89	889.35	908.96	46.36	
4800.00	4874.57	4900.69	262.31	10.00	8.55	12.10	880.08	900.12	44.92	
4900.00	4967.65	4994.14	262.06	10.23	8.74	12.33	871.76	892.19	43.67	
5000.00	5090.17	5117.22	261.81	10.54	9.00	12.62	862.35	883.24	42.28	
5100.00	5194.49	5222.17	261.64	10.82	9.21	12.88	851.22	872.55	40.91	
5200.00	5289.52	5317.77	261.50	11.07	9.41	13.12	840.15	861.92	39.60	
5300.00	5384.40	5413.16	261.38	11.32	9.61	13.36	829.60	851.80	38.37	
5400.00	5485.39	5514.66	261.23	11.59	9.83	13.63	819.30	841.94	37.18	
5500.00	5587.53	5617.41	351.03	11.86	10.04	13.89	808.29	831.36	36.04	
5600.00	5685.54	5716.01	350.80	12.13	10.25	14.16	796.06	819.55	34.90	
5700.00	5781.92	5812.94	350.55	12.39	10.46	14.42	782.20	806.10	33.73	
5800.00	5872.88	5904.38	350.28	12.63	10.65	14.67	767.21			

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 4H (s)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SI	Risk
9200.00	9200.06	9251.40	227.12	21.78	17.91	26.61	251.26	292.46	7.10	
9300.00	9286.48	9338.17	222.61	22.00	18.10	27.00	279.93	322.05	7.65	
9400.00	9365.69	9417.74	218.96	22.21	18.27	27.36	325.40	368.41	8.57	
9500.00	9432.91	9485.23	217.33	22.38	18.41	27.67	386.83	430.44	9.87	
9600.00	9485.62	9538.16	218.66	22.52	18.53	27.91	461.83	506.07	11.44	
9700.00	9521.99	9574.66	224.99	22.61	18.61	28.08	547.69	592.19	13.31	
9800.00	9542.27	9595.00	241.69	22.66	18.65	28.18	640.69	685.36	15.34	
9900.00	9546.12	9598.87	270.41	22.67	18.66	28.20	737.30	782.06	17.47	
10000.00	9544.18	9596.92	271.03	22.67	18.66	28.19	834.84	879.72	19.60	
10100.00	9542.24	9594.98	271.65	22.66	18.65	28.18	932.93	977.84	21.77	
10200.00	9540.30	9593.03	272.27	22.66	18.65	28.17	1031.40	1076.31	23.97	
10300.00	9538.36	9591.09	272.89	22.65	18.64	28.16	1130.12	1175.03	26.16	
10400.00	9536.42	9589.14	273.50	22.65	18.64	28.15	1228.99	1273.95	28.34	
10500.00	9534.48	9587.19	274.12	22.64	18.63	28.14	1328.03	1373.02	30.52	
10600.00	9532.54	9585.25	274.73	22.64	18.63	28.13	1427.21	1472.22	32.71	
10700.00	9530.60	9583.30	275.34	22.63	18.63	28.12	1526.49	1571.51	34.90	
10800.00	11122.80	12643.31	176.72	35.39	21.31	43.08	1557.83	1596.97	40.80	
10900.00	11123.88	12740.52	176.39	36.75	21.72	43.89	1559.79	1599.79	39.99	
11000.00	11125.13	12837.35	176.04	38.15	22.14	44.73	1561.91	1602.89	39.11	
11100.00	11126.37	12935.42	175.66	39.58	22.58	45.61	1564.15	1606.10	38.29	
11200.00	11127.76	13040.56	175.24	41.00	23.07	46.58	1566.53	1609.46	37.49	
11300.00	11127.85	13176.42	174.75	42.84	23.70	47.88	1567.40	1611.61	36.45	
11400.00	11126.98	13268.26	174.43	44.12	24.16	48.78	1567.48	1612.70	35.66	
11500.00	11126.61	13358.12	174.12	45.62	24.62	49.68	1568.19	1614.42	34.92	
11600.00	11125									

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 5H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
500.00	500.00	505.00	269.56	1.02	1.02	4.75	1142.70	1145.29	441.05	
600.00	600.00	605.00	269.56	1.25	1.25	4.82	1142.25	1145.29	375.96	
700.00	700.00	705.00	269.56	1.47	1.47	4.90	1141.80	1145.29	327.61	
800.00	800.00	805.00	269.56	1.70	1.70	4.98	1141.35	1145.29	290.28	
900.00	900.00	905.00	269.56	1.92	1.92	5.07	1140.90	1145.29	260.59	
1000.00	1000.00	1005.00	269.56	2.15	2.15	5.18	1140.45	1145.29	236.41	
1100.00	1100.00	1105.00	269.56	2.37	2.37	5.28	1140.00	1145.29	216.33	
1200.00	1200.00	1205.00	269.56	2.60	2.60	5.40	1139.55	1145.29	199.40	
1300.00	1300.00	1305.00	269.56	2.82	2.82	5.52	1139.10	1145.29	184.93	
1400.00	1400.00	1405.00	269.56	3.05	3.05	5.64	1138.65	1145.29	172.41	
1500.00	1500.00	1505.00	269.56	3.27	3.27	5.78	1138.20	1145.29	161.48	
1600.00	1600.00	1605.00	269.56	3.50	3.50	5.91	1137.75	1145.29	151.86	
1700.00	1700.00	1705.00	269.56	3.72	3.72	6.05	1137.30	1145.29	143.31	
1800.00	1800.00	1805.00	269.56	3.94	3.94	6.20	1136.85	1145.29	135.68	
1900.00	1900.00	1905.00	269.56	4.17	4.17	6.34	1136.40	1145.29	128.82	
2000.00	2000.00	2005.00	269.56	4.39	4.39	6.50	1135.95	1145.29	122.62	
2100.00	2100.00	2105.00	269.56	4.62	4.62	6.65	1135.50	1145.29	116.99	
2200.00	2200.00	2205.00	269.56	4.84	4.84	6.81	1135.05	1145.29	111.85	
2300.00	2300.00	2305.00	269.56	5.07	5.07	6.97	1134.60	1145.29	107.15	
2400.00	2400.00	2405.00	269.56	5.29	5.29	7.13	1134.15	1145.29	102.82	
2500.00	2500.00	2505.00	269.56	5.52	5.52	7.30	1133.71	1145.29	98.83	
2600.00	2600.00	2605.00	269.56	5.74	5.74	7.47	1133.26	1145.29	95.14	
2700.00	2700.00	2705.00	269.56	5.97	5.97	7.64	1132.81	1145.29	91.72	
2800.00	2800.00	2805.00	269.56	6.19	6.19	7.81	1132.36	1145.29	88.53	
2900.00	2900.00	2905.00	269.56	6.42	6.42	7.99	1131.91	1145.29	85.56	
3000.00	3000.00	3005.00	269.56	6.64	6.64	8.17	1131.46	1145.29	82.78	
3100.00	3100.00	3105.00	269.56	6.87	6.87	8.35	1131.01	1145.29	80.17	
3200.00	3200.00	3205.00	269.56	7.09	7.09	8.53	1130.56	1145.29	77.73	
3300.00	3300.00	3305.00	269.56	7.32	7.32	8.72	1130.11	1145.29	75.43	
3400.00	3400.00	3405.00	269.56	7.54	7.54	8.91	1129.66	1145.29	73.26	
3500.00	3500.00	3505.00	269.56	7.77	7.77	9.10	1129.21	1145.29	71.21	
3600.00	3600.00	3605.00	269.56	7.99	7.99	9.29	1128.76	1145.29	69.27	
3700.00	3700.00	3705.00	269.56	8.22	8.22	9.49	1128.31	1145.29	67.44	
3800.00	3800.00	3805.00	269.56	8.44	8.44	9.69	1127.86	1145.29	65.70	
3900.00	3900.00	3905.00	269.56	8.67	8.67	9.89	1127.41	1145.29	64.05	
4000.00	4000.00	4005.00	269.56	8.89	8.89	10.09	1126.96	1145.29	62.48	
4100.00	4100.00	4105.00	269.56	9.12	9.12	10.30	1126.51	1145.29	60.98	
4200.00	4200.00	4205.00	269.56	9.34	9.34	10.51	1126.06	1145.29	59.56	
4300.00	4300.00	4305.00	269.56	9.56	9.56	10.72	1125.61	1145.29	58.20	
4400.00	4400.00	4405.00	269.56	9.79	9.79	10.94	1125.16	1145.29	56.90	
4500.00	4500.00	4505.00	269.56	10.01	10.01	11.16	1124.71	1145.29	55.65	
4600.00	4600.00	4605.00	269.56	10.24	10.24	11.38	1124.26	1145.29	54.46	
4700.00	4700.00	4705.00	269.56	10.46	10.46	11.61	1123.81	1145.29	53.32	
4800.00	4800.00	4805.00	269.56	10.69	10.69	11.84	1123.37	1145.29	52.23	
4900.00	4900.00	4905.00	269.56	10.91	10.91	12.07	1122.92	1145.29	51.18	
5000.00	5000.00	5005.00	269.56	11.14	11.14	12.31	1122.47	1145.29	50.17	
5100.00	5100.00	5105.00	269.56	11.36	11.36	12.55	1122.02	1145.29	49.20	
5200.00	5200.00	5205.00	269.56	11.59	11.59	12.80	1121.57	1145.29	48.27	
5300.00	5300.00	5305.00	269.56	11.81	11.81	13.04	1121.12	1145.29	47.37	
5400.00	5400.00	5405.00	269.56	12.04	12.04	13.30	1120.67	1145.29	46.51	
5500.00	5500.00	5505.00	359.56	12.26	12.26	13.55	1120.18	1145.21	45.74	
5600.00	5593.03	5598.03	359.57	12.47	12.47	13.79	1118.55	1143.99	44.98	
5700.00	5680.33	5685.34	359.62	12.66	12.65	14.02	1116.19	1142.01	44.23	
5800.00	5767.59	5772.64	359.71	12.85	12.84	14.26	1113.21	1139.39	43.51	
5900.00	5854.75	5859.91	359.85	13.04	13.02	14.49	1109.56	1136.15	42.74	
6000.00	5941.80	5947.12	0.03	13.23	13.20	14.73	1105.30	1132.28	41.96	
6100.00	6028.69	6034.26	0.27	13.42	13.38	14.97	1100.54	1127.88	41.25	
6200.00	6115.42	6121.37	0.55	13.61	13.55	15.21	1096.52	1124.20	40.61	

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 5H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (")	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
6300.00	6210.46	6216.92	0.89	13.83	13.76	15.49	1093.31	1121.43	39.87	
6400.00	6309.62	6316.63	1.26	14.05	13.97	15.77	1090.23	1118.77	39.20	
6500.00	6408.78	6416.34	1.63	14.28	14.19	16.07	1087.21	1116.15	38.57	
6600.00	6507.94	6516.04	2.00	14.51	14.41	16.37	1084.24	1113.58	37.96	
6700.00	6607.10	6615.75	2.37	14.75	14.63	16.67	1081.27	1111.05	37.31	
6800.00	6706.26	6715.46	2.74	14.98	14.84	16.98	1078.36	1108.57	36.69	
6900.00	6805.42	6815.16	3.12	15.22	15.06	17.29	1075.50	1106.14	36.10	
7000.00	6904.58	6914.87	3.49	15.46	15.28	17.61	1072.68	1103.76	35.52	
7100.00	7003.74	7014.58	3.87	15.70	15.50	17.93	1069.92	1101.42	34.97	
7200.00	7102.90	7114.28	4.25	15.94	15.73	18.26	1067.20	1099.13	34.42	
7300.00	7202.06	7213.99	4.63	16.19	15.95	18.59	1064.51	1096.89	33.87	
7400.00	7301.22	7313.70	5.01	16.43	16.17	18.93	1061.87	1094.71	33.34	
7500.00	7400.38	7413.40	5.40	16.68	16.39	19.27	1059.29	1092.57	32.83	
7600.00	7499.55	7513.11	5.78	16.93	16.61	19.62	1056.83	1090.55	32.34	
7700.00	7598.74	7612.84	6.16	17.18	16.84	19.97	1055.75	1089.90	31.91	
7800.00	7697.93	7712.59	6.53	17.43	17.06	20.33	1056.45	1091.03	31.55	
7900.00	7797.11	7812.31	6.89	17.68	17.28	20.69	1058.92	1093.94	31.25	
8000.00	7896.23	7911.98	7.24	17.93	17.51	21.06	1063.18	1098.62	31.00	
8100.00	8008.64	8024.94	7.61	18.19	17.75	21.48	1068.73	1104.63	30.77	
8200.00	8126.69	8143.37	277.90	18.42	17.98	21.94	1074.35	1110.70	30.55	
8300.00	8245.22	8262.10	278.10	18.65	18.20	22.40	1078.71	1115.53	30.30	
8400.00	8364.10	8381.08	278.24	18.87	18.42	22.87	1081.39	1118.66	30.02	
8500.00	8483.19	8500.19	278.30	19.09	18.63	23.35	1082.38	1120.08	29.71	
8600.00	8589.59	8606.59	278.30	19.29	18.83	23.78	1082.06	1120.18	29.39	
8700.00	8689.59	8706.59	278.30	19.51	19.06	24.20	1081.61	1120.18	29.05	
8800.00	8789.59	8806.59	278.30	19.73	19.28	24.62	1081.17	1120.18	28.72	
8900.00	8889.59	8906.59	278.30	19.95	19.50	25.04	1080.73	1120.18	28.39	
9000.00	8989.58	9006.58	278.54	20.16	19.72	25.47	1080.21	1120.10	28.08	
9100.00	9088.64	9105.63	277.72	20.38	19.94	25.90	1078.01	1118.28	27.77	
9200.00	9183.96	9200.96	275.91	20.59	20.16	26.33	1073.84	1114.57	27.36	
9300.00	9250.02	9267.19	274.21	20.70	20.28	26.61	1070.19	1111.27	27.05	
9400.00	9316.88	9335.52	272.57	20.79	20.21	26.90	1068.65	1110.23	26.70	
9500.00	9384.93	9408.03	271.00	20.96	19.83	27.18	1069.64	1111.76	26.40	
9600.00	9453.04	9486.07	269.51	21.22	19.14	27.45	1073.03	1116.00	25.97	
9700.00	9519.39	9571.44	268.11	21.57	18.14	27.70	1078.96	1122.91	25.55	
9800.00	9580.75	9666.55	266.80	22.05	16.86	27.94	1087.17	1132.19	25.15	
9900.00	9631.44	9774.45	265.40	22.73	15.49	28.20	1096.83	1143.20	24.65	
10000.00	9662.00	9900.92	263.85	23.69	14.46	28.52	1105.74	1153.76	24.02	
10100.00	9665.00	10014.71	263.69	24.70	14.43	28.87	1112.22	1162.19	23.26	
10200.00	9665.00	10114.38	263.67	25.70	14.62	29.25	1118.40	1170.37	22.52	
10300.00	9665.00	10214.04	263.66	26.78	14.84	29.69	1124.37	1178.55	21.75	
10400.00	9665.00	10313.71	263.65	27.94	15.09	30.20	1130.19	1186.74	20.99	
10500.00	9665.00	10413.37	263.64	29.18	15.38	30.77	1135.88	1194.92	20.24	
10600.00	9665.00	10513.04	263.63	30.48	15.69	31.39	1141.44	1203.10	19.51	
10700.00	9665.00	10612.70	263.62	31.83	16.03	32.07	1146.87	1211.28	18.80	
10800.00	9665.00	10712.36	263.61	33.24	16.40	32.81	1152.22	1219.47	18.13	
10900.00	9665.00	10812.03	263.60	34.68	16.79	33.58	1157.50	1227.65	17.50	
11000.00	9665.00	10911.69	263.59	36.16	17.20	34.41	1162.71	1235.83	16.90	
11100.00	9665.00	11011.36	263.58	37.68	17.63	35.27	1167.87	1244.02	16.34	
11200.00	9665.00	11111.02	263.57	39.22	18.08	36.18	1172.97	1252.20	15.81	
11300.00	9665.00	11210.69	263.56	40.79	18.55	37.12	1178.03	1260.38	15.31	
11400.00	9665.00	11310.35	263.55	42.39	19.04	38.09	1183.05	1268.57	14.83	
11500.00	9665.00	11410.01	263.54	44.00	19.54	39.09	1188.03	1276.75	14.39	
11600.00	9665.00	11509.68	263.53	45.63	20.06	40.12	1192.98	1284.93	13.97	
11700.00	9665.00	11609.34	263.53	47.28	20.58	41.18	1197.90	1293.12	13.58	
11800.00	9665.00	11709.01	263.52	48.95	21.13	42.26	1202.79	1301.30	13.21	
11900.00	9665.00	11808.67	263.51	50.62	21.68	43.37	1207.65	1309.48	12.86	
12000.00	9665.00	11908.34	263.50	52.31	22.24	44.49	1212.50	1317.67	12.53	

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 5H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
PR MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
12100.00	9665.00	12008.00	263.49	54.01	22.81	45.63	1217.32	1325.85	12.22	
12200.00	9665.00	12107.67	263.48	55.72	23.39	46.79	1222.13	1334.04	11.92	
12300.00	9665.00	12207.33	263.47	57.44	23.98	47.97	1226.92	1342.22	11.64	
12400.00	9665.00	12306.99	263.47	59.17	24.58	49.16	1231.70	1350.40	11.38	
12500.00	9665.00	12406.66	263.46	60.90	25.18	50.37	1236.46	1358.59	11.12	
12600.00	9665.00	12506.32	263.45	62.64	25.79	51.59	1241.21	1366.77	10.89	
12700.00	9665.00	12605.99	263.44	64.39	26.41	52.82	1245.94	1374.95	10.66	
12800.00	9665.00	12705.65	263.43	66.14	27.03	54.07	1250.67	1383.14	10.44	
12900.00	9665.00	12805.32	263.43	67.90	27.66	55.32	1255.39	1391.32	10.24	
13000.00	9665.00	12904.98	263.42	69.66	28.29	56.59	1260.09	1399.51	10.04	
13100.00	9665.00	13004.64	263.41	71.43	28.93	57.86	1264.79	1407.69	9.85	
13200.00	9665.00	13104.31	263.40	73.20	29.57	59.14	1269.48	1415.87	9.67	
13300.00	9665.00	13203.97	263.40	74.98	30.21	60.44	1274.17	1424.06	9.50	
13400.00	9665.00	13303.64	263.39	76.76	30.86	61.73	1278.84	1432.24	9.34	
13500.00	9665.00	13403.30	263.38	78.54	31.52	63.04	1283.51	1440.43	9.18	
13600.00	9665.00	13502.97	263.37	80.33	32.17	64.35	1288.18	1448.61	9.03	
13700.00	9665.00	13602.63	263.37	82.12	32.83	65.67	1292.83	1456.79	8.89	
13800.00	9665.00	13702.30	263.36	83.91	33.49	66.99	1297.49	1464.98	8.75	
13900.00	9665.00	13801.96	263.35	85.71	34.16	68.32	1302.14	1473.16	8.61	
14000.00	9665.00	13901.62	263.35	87.51	34.83	69.66	1306.78	1481.35	8.49	
14048.89	9665.00	13950.35	263.34	88.39	35.15	70.32	1309.05	1485.35	8.43	

Secondary Well: Bell Lake 19 State 7H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
PR MD (US ft)	TVD (US ft)	Sec MD (US ft)	T Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	0.00	89.54	0.00	0.00	0.00	99.35	99.91	176.32	
100.00	100.00	100.00	89.54	0.11	0.11	4.60	99.13	99.91	126.91	
200.00	200.00	200.00	89.54	0.34	0.34	4.62	98.68	99.91	80.78	
300.00	300.00	300.00	89.54	0.56	0.56	4.65	98.23	99.91	59.25	
400.00	400.00	400.00	89.54	0.79	0.79	4.70	97.78	99.91	46.78	
500.00	500.00	500.00	89.54	1.01	1.01	4.75	97.33	99.91	38.64	
600.00	600.00	600.00	89.54	1.24	1.24	4.82	96.88	99.91	32.92	
700.00	700.00	700.00	89.54	1.46	1.46	4.89	96.43	99.91	28.67	
800.00	800.00	800.00	89.54	1.69	1.69	4.98	95.98	99.91	25.40	
900.00	900.00	900.00	89.54	1.91	1.91	5.07	95.53	99.91	22.79	
1000.00	1000.00	1000.00	89.54	2.14	2.14	5.17	95.08	99.91	20.67	
1100.00	1100.00	1100.00	89.54	2.36	2.36	5.28	94.63	99.91	18.91	
1200.00	1200.00	1200.00	89.54	2.59	2.59	5.39	94.18	99.91	17.43	
1300.00	1300.00	1300.00	89.54	2.81	2.81	5.51	93.73	99.91	16.16	
1400.00	1400.00	1400.00	89.54	3.03	3.03	5.64	93.28	99.91	15.07	
1500.00	1500.00	1500.00	89.54	3.26	3.26	5.77	92.83	99.91	14.11	
1600.00	1600.00	1600.00	89.54	3.48	3.48	5.90	92.38	99.91	13.27	
1700.00	1700.00	1700.00	89.54	3.71	3.71	6.04	91.93	99.91	12.52	
1800.00	1800.00	1800.00	89.54	3.93	3.93	6.19	91.48	99.91	11.85	
1900.00	1900.00	1900.00	89.54	4.16	4.16	6.34	91.03	99.91	11.25	
2000.00	2000.00	2000.00	89.54	4.38	4.38	6.49	90.58	99.91	10.71	
2100.00	2100.00	2100.00	89.54	4.61	4.61	6.64	90.13	99.91	10.22	
2200.00	2200.00	2200.00	89.54	4.83	4.83	6.80	89.69	99.91	9.77	
2300.00	2300.00	2300.00	89.54	5.06	5.06	6.96	89.24	99.91	9.36	
2400.00	2400.00	2400.00	89.54	5.28	5.28	7.12	88.79	99.91	8.98	
2500.00	2500.00	2500.00	89.54	5.51	5.51	7.29	88.34	99.91	8.63	
2600.00	2600.00	2600.00	89.54	5.73	5.73	7.46	87.89	99.91	8.31	
2700.00	2700.00	2700.00	89.54	5.96	5.96	7.63	87.44	99.91	8.01	
2800.00	2800.00	2800.00	89.54	6.18	6.18	7.80	86.99	99.91	7.73	
2900.00	2900.00	2900.00	89.54	6.41	6.41	7.98	86.54	99.91	7.47	
3000.00	3000.00	3000.00	89.54	6.63	6.63	8.16	86.09	99.91	7.23	
3100.00	3100.00	3100.00	89.54	6.86	6.86	8.34	85.64	99.91	7.00	
3200.00	3200.00	3200.00	89.54	7.08	7.08	8.52	85.19	99.91	6.79	
3300.00	3300.00	3300.00	89.54	7.31	7.31	8.71	84.74	99.91	6.58	

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 7H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	Risk
3400.00	3400.00	3400.00	89.54	7.53	7.53	8.90	84.29	99.91	6.40
3500.00	3500.00	3500.00	89.54	7.76	7.76	9.09	83.84	99.91	6.22
3600.00	3600.00	3600.00	89.54	7.98	7.98	9.28	83.39	99.91	6.05
3700.00	3700.00	3700.00	89.54	8.20	8.20	9.48	82.94	99.91	5.89
3800.00	3800.00	3800.00	89.54	8.43	8.43	9.68	82.49	99.91	5.74
3900.00	3900.00	3900.00	89.54	8.65	8.65	9.88	82.04	99.91	5.59
4000.00	4000.00	4000.00	89.54	8.88	8.88	10.08	81.59	99.91	5.45
4100.00	4100.00	4100.00	89.54	9.10	9.10	10.29	81.14	99.91	5.32
4200.00	4200.00	4200.00	89.54	9.33	9.33	10.50	80.69	99.91	5.20
4300.00	4300.00	4300.00	89.54	9.55	9.55	10.71	80.24	99.91	5.08
4400.00	4400.00	4400.00	89.54	9.78	9.78	10.93	79.80	99.91	4.97
4500.00	4500.00	4500.00	89.54	10.00	10.00	11.15	79.35	99.91	4.86
4600.00	4600.00	4600.00	89.54	10.23	10.23	11.37	78.90	99.91	4.75
4700.00	4700.00	4700.00	89.54	10.45	10.45	11.60	78.45	99.91	4.65
4800.00	4800.00	4800.00	89.54	10.68	10.68	11.83	78.00	99.91	4.56
4900.00	4900.00	4900.00	89.54	10.90	10.90	12.06	77.55	99.91	4.47
5000.00	5000.00	5000.00	89.54	11.13	11.13	12.30	77.10	99.91	4.38
5100.00	5098.27	5098.28	89.54	11.33	11.33	12.54	77.56	100.77	4.34
5200.00	5196.46	5196.50	89.55	11.53	11.52	12.78	79.73	103.34	4.38
5300.00	5294.47	5294.60	89.57	11.72	11.71	13.02	83.62	107.63	4.48
5400.00	5392.22	5392.53	89.59	11.92	11.89	13.26	89.21	113.62	4.66
5500.00	5489.63	5490.22	179.62	12.12	12.08	13.51	96.64	121.39	4.90
5600.00	5588.53	5589.50	179.64	12.33	12.27	13.77	106.33	131.49	5.23
5700.00	5687.45	5688.80	179.67	12.54	12.47	14.03	117.77	143.33	5.61
5800.00	5786.14	5787.87	179.70	12.75	12.67	14.29	130.93	156.90	6.04
5900.00	5884.59	5886.69	179.73	12.96	12.87	14.56	145.83	172.20	6.53
6000.00	5982.75	5985.23	179.75	13.18	13.08	14.83	162.44	189.22	7.07
6100.00	6080.62	6083.48	179.77	13.39	13.28	15.11	180.70	207.88	7.65
6200.00	6178.41	6181.64	179.79	13.61	13.48	15.39	199.38	226.96	8.23
6300.00	6276.20	6279.80	179.81	13.83	13.68	15.67	218.06	246.04	8.79
6400.00	6373.99	6377.96	179.82	14.05	13.89	15.96	236.74	265.12	9.34
6500.00	6471.78	6476.13	179.83	14.28	14.09	16.25	255.41	284.20	9.87
6600.00	6569.57	6574.29	179.84	14.50	14.30	16.55	274.08	303.29	10.39
6700.00	6672.91	6677.95	179.85	14.72	14.51	16.87	291.92	321.58	10.84
6800.00	6777.37	6782.61	179.86	14.93	14.73	17.20	307.98	338.08	11.23
6900.00	6882.53	6887.87	179.87	15.14	14.94	17.53	322.23	352.77	11.55
7000.00	6988.30	6993.68	179.87	15.35	15.15	17.87	334.66	365.63	11.81
7100.00	7093.26	7098.64	179.88	15.56	15.35	18.22	345.30	376.70	12.00
7200.00	7192.71	7198.09	179.88	15.78	15.58	18.55	355.33	387.15	12.17
7300.00	7292.17	7297.54	179.88	16.00	15.80	18.89	365.35	397.60	12.33
7400.00	7391.62	7397.00	179.89	16.21	16.02	19.23	375.37	408.05	12.48
7500.00	7491.07	7496.45	179.89	16.43	16.24	19.58	385.39	418.51	12.64
7600.00	7590.53	7595.91	179.89	16.65	16.46	19.93	395.33	428.88	12.78
7700.00	7690.12	7695.50	179.89	16.88	16.69	20.28	403.97	437.95	12.89
7800.00	7789.85	7795.23	179.90	17.10	16.91	20.65	410.88	445.27	12.95
7900.00	7889.69	7895.07	179.90	17.32	17.13	21.02	416.04	450.85	12.95
8000.00	7989.62	7994.99	179.90	17.54	17.35	21.39	419.46	454.69	12.91
8100.00	8089.59	8094.97	179.90	17.76	17.58	21.77	421.14	456.78	12.81
8200.00	8189.59	8194.97	89.90	17.98	17.80	22.16	421.14	457.21	12.68
8300.00	8289.59	8294.97	89.90	18.20	18.02	22.55	420.70	457.21	12.52
8400.00	8389.59	8394.97	89.90	18.43	18.25	22.95	420.25	457.21	12.37
8500.00	8489.59	8494.97	89.90	18.65	18.47	23.35	419.81	457.21	12.22
8600.00	8589.59	8594.97	89.90	18.87	18.69	23.76	419.36	457.21	12.08
8700.00	8689.59	8694.97	89.90	19.09	18.92	24.17	418.92	457.21	11.94
8800.00	8789.59	8794.97	89.90	19.31	19.14	24.59	418.47	457.21	11.80
8900.00	8889.59	8894.97	89.90	19.54	19.36	25.02	418.03	457.21	11.67
9000.00	8989.58	8994.96	90.23	19.76	19.59	25.45	417.58	457.21	11.54
9100.00	9089.25	9094.64	91.71	19.96	19.81	25.88	417.34	457.42	11.41

SD Anti-Collision Report

Secondary Well: Bell Lake 19 State 7H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
9200.00	9190.31	9196.87	93.68	20.03	19.90	26.32	417.87	458.26	11.35	
9300.00	9290.05	9302.20	95.55	20.26	19.45	26.72	418.79	459.66	11.25	
9400.00	9384.64	9410.72	97.27	20.51	18.64	27.09	420.13	461.50	11.15	
9500.00	9469.76	9522.36	98.77	20.83	17.55	27.41	421.72	463.56	11.08	
9600.00	9540.88	9636.85	99.98	21.26	16.32	27.71	422.98	465.61	10.92	
9700.00	9593.68	9753.69	100.85	21.84	15.19	28.01	423.78	467.38	10.72	
9800.00	9624.59	9872.19	101.33	22.57	14.45	28.35	423.72	468.68	10.43	
9900.00	9632.04	9986.90	101.45	23.42	14.36	28.72	422.92	469.42	10.09	
10000.00	9632.24	10086.89	101.60	24.29	14.56	29.12	421.98	470.16	9.76	
10100.00	9632.43	10186.88	101.74	25.25	14.79	29.59	420.82	470.89	9.40	
10200.00	9632.62	10286.87	101.89	26.31	15.05	30.12	419.52	471.63	9.05	
10300.00	9632.81	10386.86	102.03	27.44	15.35	30.71	418.09	472.38	8.70	
10400.00	9633.00	10486.85	102.18	28.65	15.67	31.35	416.49	473.12	8.35	
10500.00	9633.19	10586.84	102.32	29.92	16.02	32.05	414.78	473.87	8.02	
10600.00	9633.38	10686.83	102.46	31.25	16.40	32.81	412.97	474.62	7.70	
10700.00	9633.58	10786.82	102.61	32.62	16.80	33.61	411.08	475.38	7.39	
10800.00	9633.77	10886.81	102.75	34.04	17.22	34.45	409.08	476.14	7.10	
10900.00	9633.96	10986.80	102.89	35.49	17.66	35.33	407.00	476.90	6.82	
11000.00	9634.15	11086.79	103.03	36.98	18.12	36.26	404.87	477.66	6.56	
11100.00	9634.34	11186.78	103.17	38.50	18.60	37.21	402.69	478.43	6.32	
11200.00	9634.53	11286.77	103.31	40.04	19.10	38.20	400.47	479.20	6.09	
11300.00	9634.73	11386.76	103.46	41.60	19.60	39.22	398.21	479.97	5.87	
11400.00	9634.92	11486.75	103.59	43.19	20.13	40.27	395.92	480.74	5.67	
11500.00	9635.11	11586.74	103.73	44.79	20.66	41.34	393.61	481.52	5.48	
11600.00	9635.30	11686.73	103.87	46.41	21.21	42.44	391.24	482.30	5.30	
11700.00	9635.49	11786.72	104.01	48.05	21.77	43.55	388.87	483.08	5.13	
11800.00	9635.68	11886.71	104.15	49.70	22.34	44.69	386.49	483.87	4.97	
11900.00	9635.88	11986.70	104.29	51.36	22.92	45.85	384.09	484.66	4.82	
12000.00	9636.07	12086.69	104.42	53.03	23.51	47.02	381.67	485.45	4.68	
12100.00	9636.26	12186.68	104.56	54.71	24.10	48.21	379.25	486.25	4.54	
12200.00	9636.45	12286.67	104.70	56.40	24.70	49.42	376.81	487.04	4.42	
12300.00	9636.64	12386.66	104.83	58.10	25.31	50.64	374.36	487.84	4.30	
12400.00	9636.83	12486.65	104.97	59.81	25.93	51.87	371.90	488.65	4.19	
12500.00	9637.02	12586.64	105.10	61.52	26.55	53.11	369.44	489.45	4.08	
12600.00	9637.22	12686.63	105.24	63.24	27.18	54.37	366.97	490.26	3.98	
12700.00	9637.41	12786.62	105.37	64.97	27.81	55.63	364.49	491.07	3.88	
12800.00	9637.60	12886.61	105.50	66.70	28.45	56.91	362.01	491.89	3.79	
12900.00	9637.79	12986.60	105.64	68.44	29.09	58.19	359.53	492.70	3.70	
13000.00	9637.98	13086.59	105.77	70.18	29.74	59.48	357.04	493.52	3.62	
13100.00	9638.17	13186.58	105.90	71.92	30.39	60.78	354.56	494.34	3.54	
13200.00	9638.37	13286.57	106.03	73.67	31.04	62.09	352.07	495.17	3.46	
13300.00	9638.56	13386.56	106.16	75.42	31.70	63.40	349.58	495.99	3.39	
13400.00	9638.75	13486.55	106.29	77.18	32.36	64.72	347.09	496.82	3.32	
13500.00	9638.94	13586.54	106.42	78.94	33.02	66.05	344.61	497.66	3.25	
13600.00	9639.13	13686.53	106.55	80.70	33.69	67.38	342.12	498.49	3.19	
13700.00	9639.32	13786.52	106.68	82.46	34.36	68.72	339.63	499.33	3.13	
13800.00	9639.52	13886.51	106.81	84.23	35.03	70.07	337.15	500.17	3.07	
13900.00	9639.71	13986.50	106.94	86.00	35.70	71.41	334.67	501.01	3.01	
14000.00	9639.90	14086.49	107.07	87.77	36.38	72.77	332.18	501.85	2.96	
14048.89	9639.99	14135.38	107.13	88.64	36.71	73.43	330.97	502.27	2.93	

Secondary Well: Bell Lake 19 State 11H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
0.00	0.00	0.00	89.54	0.00	0.00	0.00	49.39	49.96	88.17	
100.00	100.00	100.00	89.54	0.11	0.11	4.60	49.17	49.96	63.46	
200.00	200.00	200.00	89.54	0.34	0.34	4.62	48.72	49.96	40.39	
300.00	300.00	300.00	89.54	0.56	0.56	4.65	48.28	49.96	29.63	
400.00	400.00	400.00	89.54	0.79	0.79	4.70	47.83	49.96	23.39	

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 11H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)									
Pr MD (US ft)	TVD (US ft)	Sec MD (US ft)	Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	Risk
500.00	500.00	500.00	89.54	1.01	1.01	4.75	47.38	49.96	19.32
600.00	600.00	600.00	89.54	1.24	1.24	4.82	46.93	49.96	16.46
700.00	700.00	700.00	89.54	1.46	1.46	4.89	46.48	49.96	14.34
800.00	800.00	800.00	89.54	1.69	1.69	4.98	46.03	49.96	12.70
900.00	900.00	900.00	89.54	1.91	1.91	5.07	45.58	49.96	11.40
1000.00	1000.00	1000.00	89.54	2.14	2.14	5.17	45.13	49.96	10.34
1100.00	1100.00	1100.00	89.54	2.36	2.36	5.28	44.68	49.96	9.46
1200.00	1200.00	1200.00	89.54	2.59	2.59	5.39	44.23	49.96	8.72
1300.00	1300.00	1300.00	89.54	2.81	2.81	5.51	43.78	49.96	8.08
1400.00	1400.00	1400.00	89.54	3.03	3.03	5.64	43.33	49.96	7.53
1500.00	1500.00	1500.00	89.54	3.26	3.26	5.77	42.88	49.96	7.06
1600.00	1600.00	1600.00	89.54	3.48	3.48	5.90	42.43	49.96	6.63
1700.00	1700.00	1700.00	89.54	3.71	3.71	6.04	41.98	49.96	6.26
1800.00	1800.00	1800.00	89.54	3.93	3.93	6.19	41.53	49.96	5.93
1900.00	1900.00	1900.00	89.54	4.16	4.16	6.34	41.08	49.96	5.63
2000.00	2000.00	2000.00	89.54	4.38	4.38	6.49	40.63	49.96	5.36
2100.00	2100.00	2100.00	89.54	4.61	4.61	6.64	40.18	49.96	5.11
2200.00	2200.00	2200.00	89.54	4.83	4.83	6.80	39.73	49.96	4.88
2300.00	2300.00	2300.00	89.54	5.06	5.06	6.96	39.28	49.96	4.68
2400.00	2400.00	2400.00	89.54	5.28	5.28	7.12	38.83	49.96	4.49
2500.00	2500.00	2500.00	89.54	5.51	5.51	7.29	38.38	49.96	4.32
2600.00	2600.00	2600.00	89.54	5.73	5.73	7.46	37.94	49.96	4.15
2700.00	2700.00	2700.00	89.54	5.96	5.96	7.63	37.49	49.96	4.00
2800.00	2800.00	2800.00	89.54	6.18	6.18	7.80	37.04	49.96	3.87
2900.00	2900.00	2900.00	89.54	6.41	6.41	7.98	36.59	49.96	3.74
3000.00	3000.00	3000.00	89.54	6.63	6.63	8.16	36.14	49.96	3.61
3100.00	3100.00	3100.00	89.54	6.86	6.86	8.34	35.69	49.96	3.50
3200.00	3200.00	3200.00	89.54	7.08	7.08	8.52	35.24	49.96	3.39
3300.00	3300.00	3300.00	89.54	7.31	7.31	8.71	34.79	49.96	3.29
3400.00	3400.00	3400.00	89.54	7.53	7.53	8.90	34.34	49.96	3.20
3500.00	3500.00	3500.00	89.54	7.76	7.76	9.09	33.89	49.96	3.11
3600.00	3600.00	3600.00	89.54	7.98	7.98	9.28	33.44	49.96	3.02
3700.00	3700.00	3700.00	89.54	8.20	8.20	9.48	32.99	49.96	2.94
3800.00	3800.00	3800.00	89.54	8.43	8.43	9.68	32.54	49.96	2.87
3900.00	3900.00	3900.00	89.54	8.65	8.65	9.88	32.09	49.96	2.80
4000.00	4000.00	4000.00	89.54	8.88	8.88	10.08	31.64	49.96	2.73
4100.00	4100.00	4100.00	89.54	9.10	9.10	10.29	31.19	49.96	2.66
4200.00	4200.00	4200.00	89.54	9.33	9.33	10.50	30.74	49.96	2.60
4300.00	4300.00	4300.00	89.54	9.55	9.55	10.71	30.29	49.96	2.54
4400.00	4400.00	4400.00	89.54	9.78	9.78	10.93	29.84	49.96	2.48
4500.00	4500.00	4500.00	89.54	10.00	10.00	11.15	29.39	49.96	2.43
4600.00	4600.00	4600.00	89.54	10.23	10.23	11.37	28.94	49.96	2.38
4700.00	4700.00	4700.00	89.54	10.45	10.45	11.60	28.49	49.96	2.33
4800.00	4800.00	4800.00	89.54	10.68	10.68	11.83	28.05	49.96	2.28
4900.00	4900.00	4900.00	89.54	10.90	10.90	12.06	27.60	49.96	2.23
5000.00	5000.00	5000.00	89.54	11.13	11.13	12.30	27.15	49.96	2.19
5100.00	5100.00	5100.00	89.54	11.35	11.35	12.54	26.70	49.96	2.15
5200.00	5200.00	5200.00	89.54	11.58	11.58	12.79	26.25	49.96	2.11
5300.00	5300.00	5300.00	89.54	11.80	11.80	13.03	25.80	49.96	2.07
5400.00	5400.00	5400.00	89.54	12.03	12.03	13.29	25.35	49.96	2.03
5500.00	5500.00	5500.00	179.54	12.25	12.25	13.54	25.01	50.04	2.00
5600.00	5599.99	5599.99	179.55	12.48	12.48	13.80	25.98	51.44	2.02
5700.00	5699.94	5699.94	179.58	12.70	12.70	14.07	28.69	54.58	2.11
5800.00	5799.82	5799.82	179.61	12.92	12.92	14.33	33.15	59.46	2.26
5900.00	5899.60	5899.60	179.65	13.15	13.15	14.61	39.35	66.09	2.47
6000.00	5999.24	5999.24	179.69	13.37	13.37	14.88	47.29	74.46	2.74
6100.00	6098.74	6098.74	179.73	13.60	13.60	15.16	56.89	84.48	3.06
6200.00	6198.19	6198.19	179.76	13.82	13.82	15.45	66.92	94.94	3.39

SF(Lo)

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 11H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										Risk
Pri RID (US ft)	TVD (US ft)	Sec MP (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	
6300.00	6297.64	6297.64	179.78	14.04	14.04	15.73	76.95	105.39	3.71	
6400.00	6397.10	6397.10	179.80	14.27	14.27	16.03	86.97	115.84	4.01	
6500.00	6496.55	6496.55	179.82	14.49	14.49	16.33	97.00	126.30	4.31	
6600.00	6596.00	6596.00	179.83	14.71	14.71	16.63	107.02	136.75	4.60	
6700.00	6695.45	6695.45	179.84	14.94	14.94	16.94	117.05	147.20	4.88	
6800.00	6794.90	6794.90	179.85	15.16	15.16	17.25	127.07	157.65	5.15	
6900.00	6894.36	6894.36	179.86	15.39	15.39	17.56	137.09	168.11	5.42	
7000.00	6993.81	6993.81	179.87	15.61	15.61	17.89	147.11	178.56	5.68	
7100.00	7093.26	7093.26	179.88	15.83	15.83	18.21	157.13	189.01	5.93	
7200.00	7192.71	7192.71	179.88	16.06	16.06	18.54	167.15	199.46	6.17	
7300.00	7292.17	7292.17	179.89	16.28	16.28	18.88	177.17	209.92	6.41	
7400.00	7391.62	7391.62	179.90	16.50	16.50	19.22	187.19	220.37	6.64	
7500.00	7491.07	7491.07	179.90	16.73	16.73	19.57	197.21	230.82	6.87	
7600.00	7590.53	7590.53	179.90	16.95	16.95	19.92	207.15	241.20	7.08	
7700.00	7690.12	7690.12	179.91	17.17	17.17	20.28	215.79	250.26	7.26	
7800.00	7789.85	7789.85	179.91	17.40	17.40	20.64	222.69	257.58	7.38	
7900.00	7889.69	7889.69	179.91	17.62	17.62	21.01	227.85	263.17	7.45	
8000.00	7989.62	7989.62	179.91	17.85	17.85	21.39	231.27	267.01	7.47	
8100.00	8089.59	8089.59	179.91	18.07	18.07	21.77	232.94	269.10	7.44	
8200.00	8189.59	8189.59	89.91	18.30	18.30	22.15	232.95	269.53	7.37	
8300.00	8289.59	8289.59	89.91	18.52	18.52	22.55	232.50	269.53	7.28	
8400.00	8389.59	8389.59	89.91	18.75	18.75	22.94	232.05	269.53	7.19	
8500.00	8489.59	8489.59	89.91	18.97	18.97	23.35	231.61	269.53	7.11	
8600.00	8589.59	8589.59	89.91	19.20	19.20	23.75	231.16	269.53	7.03	
8700.00	8689.16	8689.16	89.80	19.42	19.41	24.16	230.77	269.55	6.95	
8800.00	8784.80	8785.71	87.19	19.63	19.36	24.55	231.15	270.32	6.90	
8900.00	8870.99	8875.77	81.79	19.82	19.02	24.89	234.73	274.25	6.94	
9000.00	8943.81	8956.32	74.92	20.00	18.49	25.15	245.65	285.23	7.21	
9100.00	9006.68	9031.32	67.27	20.18	17.83	25.38	263.12	302.67	7.65	
9200.00	9061.71	9103.56	60.78	20.38	17.08	25.57	284.24	323.22	8.29	
9300.00	9109.11	9173.71	55.51	20.62	16.30	25.75	306.08	344.57	8.95	
9400.00	9149.00	9242.27	51.38	20.89	15.51	25.91	327.21	364.98	9.66	
9500.00	9181.45	9309.64	48.28	21.20	14.79	26.08	345.92	383.17	10.29	
9600.00	9206.48	9376.14	46.07	21.57	14.17	26.25	361.28	398.25	10.77	
9700.00	9224.08	9442.05	44.67	21.98	13.71	26.44	372.77	409.60	11.12	
9800.00	9234.24	9507.61	43.99	22.42	13.45	26.64	379.75	416.86	11.23	
9900.00	9236.94	9575.24	44.01	22.93	13.43	26.87	382.11	420.01	11.08	
10000.00	9236.11	9675.17	44.41	23.79	13.64	27.28	383.25	422.45	10.78	
10100.00	9235.27	9775.10	44.80	24.74	13.88	27.76	384.22	424.91	10.44	
10200.00	9234.43	9875.02	45.19	25.79	14.15	28.30	385.07	427.39	10.10	
10300.00	9233.59	9974.95	45.57	26.92	14.45	28.91	385.82	429.90	9.75	
10400.00	9232.75	10074.88	45.95	28.12	14.79	29.58	386.47	432.42	9.41	
10500.00	9231.92	10174.81	46.33	29.38	15.15	30.30	387.03	434.96	9.08	
10600.00	9231.08	10274.73	46.70	30.70	15.54	31.08	387.52	437.51	8.75	
10700.00	9230.24	10374.66	47.06	32.07	15.95	31.90	387.91	440.09	8.43	
10800.00	9229.40	10474.59	47.42	33.48	16.38	32.77	388.19	442.68	8.12	
10900.00	9228.56	10574.52	47.78	34.93	16.84	33.68	388.39	445.30	7.83	
11000.00	9227.73	10674.44	48.14	36.41	17.31	34.63	388.52	447.92	7.54	
11100.00	9226.89	10774.37	48.49	37.92	17.81	35.61	388.57	450.57	7.27	
11200.00	9226.05	10874.30	48.83	39.46	18.31	36.63	388.59	453.23	7.01	
11300.00	9225.21	10974.22	49.17	41.01	18.84	37.68	388.56	455.91	6.77	
11400.00	9224.37	11074.15	49.51	42.59	19.37	38.75	388.50	458.60	6.54	
11500.00	9223.54	11174.08	49.84	44.19	19.92	39.85	388.41	461.31	6.33	
11600.00	9222.70	11274.01	50.17	45.81	20.48	40.97	388.36	464.04	6.13	
11700.00	9221.86	11373.93	50.50	47.44	21.05	42.11	388.19	466.78	5.94	
11800.00	9221.02	11473.86	50.82	49.08	21.64	43.27	388.02	469.54	5.76	
11900.00	9220.18	11573.79	51.14	50.73	22.23	44.45	387.84	472.31	5.59	
12000.00	9219.35	11673.72	51.45	52.40	22.82	45.65	387.64	475.09	5.43	

5D Anti-Collision Report

Secondary Well: Bell Lake 19 State 11H (p)(TVD relative to Kelly Bushing)(All Azimuth Relative to GRID NORTH)										
Pr. MD (US ft)	TVD (US ft)	Sec MD (US ft)	T. Face to Sec (°)	S. Major (US ft)	S. Minor (US ft)	TVD Spread (US ft)	ES (US ft)	CC (US ft)	SF	Risk
12100.00	9218.51	11773.64	51.76	54.07	23.43	46.86	387.43	477.89	5.28	
12200.00	9217.67	11873.57	52.07	55.76	24.04	48.09	387.20	480.70	5.14	
12300.00	9216.83	11973.50	52.37	57.45	24.66	49.32	386.97	483.53	5.01	
12400.00	9215.99	12073.43	52.67	59.15	25.29	50.58	386.72	486.37	4.88	
12500.00	9215.16	12173.35	52.97	60.85	25.92	51.84	386.46	489.22	4.76	
12600.00	9214.32	12273.28	53.26	62.57	26.56	53.11	386.20	492.09	4.65	
12700.00	9213.48	12373.21	53.55	64.28	27.20	54.39	385.92	494.96	4.54	
12800.00	9212.64	12473.14	53.84	66.01	27.84	55.68	385.64	497.86	4.44	
12900.00	9211.80	12573.06	54.12	67.74	28.49	56.98	385.35	500.76	4.34	
13000.00	9210.96	12672.99	54.40	69.47	29.15	58.29	385.06	503.67	4.25	
13100.00	9210.13	12772.92	54.68	71.21	29.80	59.61	384.76	506.60	4.16	
13200.00	9209.29	12872.85	54.95	72.95	30.47	60.93	384.46	509.54	4.07	
13300.00	9208.45	12972.77	55.22	74.69	31.13	62.26	384.16	512.49	3.99	
13400.00	9207.61	13072.70	55.49	76.44	31.80	63.59	383.85	515.45	3.92	
13500.00	9206.77	13172.63	55.75	78.19	32.47	64.93	383.54	518.42	3.84	
13600.00	9205.94	13272.56	56.02	79.94	33.14	66.28	383.23	521.41	3.77	
13700.00	9205.10	13372.48	56.27	81.70	33.82	67.63	382.91	524.40	3.71	
13800.00	9204.26	13472.41	56.53	83.46	34.49	68.98	382.60	527.41	3.64	
13900.00	9203.42	13572.34	56.78	85.22	35.17	70.34	382.28	530.42	3.58	
14000.00	9202.58	13672.27	57.03	86.99	35.86	71.71	381.95	533.45	3.52	
14048.89	9202.17	13721.12	57.15	87.85	36.19	72.37	381.78	534.93	3.49	

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: August 18, 2015
Job Number: _____
Customer: Devon Energy
Well Name: Bell Lake 19 State 9H
API Number: _____
Rig Name: _____
Location: Lea Co, NM Nad83 NME
Block: _____
Engineer: _____

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: 435972.62 US Survey Foot	Latitude: 32.196468 Degree
East: 766669.06 US Survey Foot	Longitude: -103.60488 Degree
Convergence: 0.39°	
Declination: 7.24°	
Total Correction: 6.85°	
Datum Transformation: none	

Geodetic Location WGS84
MSL Elevation = 0 m
Latitude = 32° 11' 47.28" N
Longitude = 103° 36' 17.57" W

Magnetic Declination = 7.24 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6558
Local Field Strength = 48188 nT	Magnetic Vector X = 23826 nT
Magnetic Dip = 60.10 deg	Magnetic Vector Y = 3029 nT
Magnetic Model = bggm2015.dat	Magnetic Vector Z = 41776 nT
Run Date = October 30, 2015	Magnetic Vector H = 24018 nT

Signed: _____ Date: _____

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