

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 09 2015

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

RECEIVED

5. Lease Serial No.
NMNM90534

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
BETELGEUSE 19 FEDERAL 8H9. API Well No.
30-015-41900-00-X110. Field and Pool, or Exploratory
HACKBERRY11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY PRODUCTION CO

Contact: LINDA GOOD

Email: linda.good@dvn.com

3a. Address

333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405.552.6558

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

Sec 20 T19S R31E NWSW 2300FSL 265FWL
32.644952 N Lat, 103.899132 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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

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

Per discussion with Ed Fernandez with the BLM and Art Alarcon of Devon Energy.

Devon Energy Production Company, L.P. respectfully requests the bottom-hole location moved south 204'. This move will put the lateral toward the center of the same production box that was approved and there is no change in target formation or TVD depth. The lateral was moved to decrease the turn rate on the directional well plan to reduce risk. Please find attached the updated directional well plan.

Accepted for Record

MAR 03 2015

3/10/2015

APPROVED

MAR 3 2015

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

Electronic Submission #293546 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMSS for processing by ED FERNANDEZ on 03/03/2015 (15EF0023SE)

Name (Printed/Typed) LINDA GOOD

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 03/03/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ

Title PETROLEUM ENGINEER

Date 03/03/2015

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

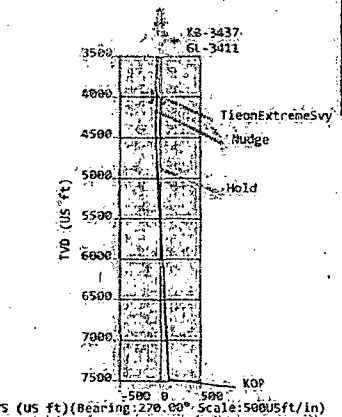
Office Carlsbad

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

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

devon

Betelgeuse 19 Federal 8H
Eddy Co, NM



Plan Data for Betelgeuse 19 Federal 8H

Plan Point Information:

Dogleg Severity Unit: °/100.00ft

WD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	OLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(OLS)
3978.00	1.71	139.90	3977.86	-38.29	49.01	598606.71	675033.51	-49.01	4.49
4171.00	1.71	139.90	4169.98	-35.30	52.72	598602.30	675037.22	-52.72	0.00
4874.22	7.58	205.00	4870.85	-85.42	39.86	598552.18	675024.36	-39.86	1.00
7507.08	7.58	205.00	7480.70	-420.18	-106.92	598237.42	674877.58	106.92	0.00
8334.94	90.28	213.46	7978.82	-381.87	-413.48	597755.73	674571.02	413.48	10.00
10219.68	90.28	270.00	7968.78	-1738.78	-2006.83	596898.82	672977.67	2006.83	3.00
11865.68	90.28	270.00	7960.74	-1738.78	-3652.81	596898.82	671331.69	3652.81	0.00
11918.30	91.33	270.00	7960.00	-1738.78	-3705.42	596898.82	671279.08	3705.42	2.00
13423.46	91.33	270.00	7925.00	-1738.78	-5210.17	596898.82	669774.33	5210.17	0.00



Weatherford

Plan Data for Betelgeuse 19 Federal 8H

Slot: Betelgeuse 19 Federal 8H
Position:
Offset is from Site centre
+N/-S: -49.98USft Northing: 598637.68USft Latitude: 32°38'41.8"
+E/-W: 0.37USft Easting: 674984.50USft Longitude: -103°53'56.9"
Elevation Above VPD: 3409.80USft

Plan Data for Betelgeuse 19 Federal 8H

Well: Betelgeuse 19 Federal 8H
Type: Production
File Number:
Plan Folder: P3
Plan: P3-V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Northing: 270.00°
+E/-W: 0.00USft Easting: 270.00°
Magnetic Parameters:
Model: Field Strength: Inclination: Dip: Date:
0.000 40437(n) 7.50° 60.6° 2015-02-20

Plan Data for Betelgeuse 19 Federal 8H

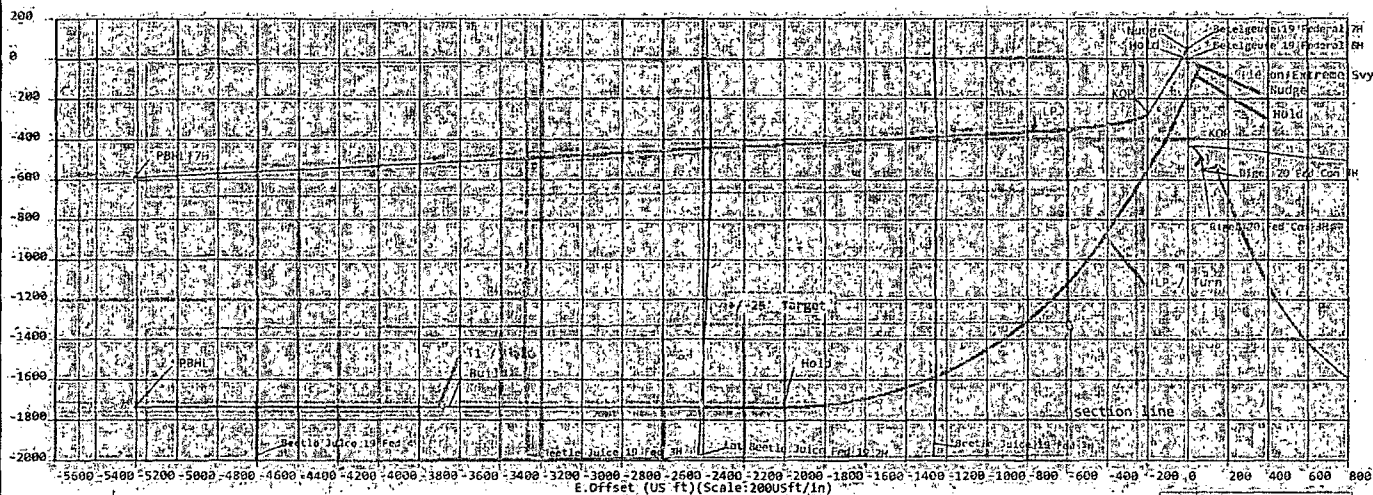
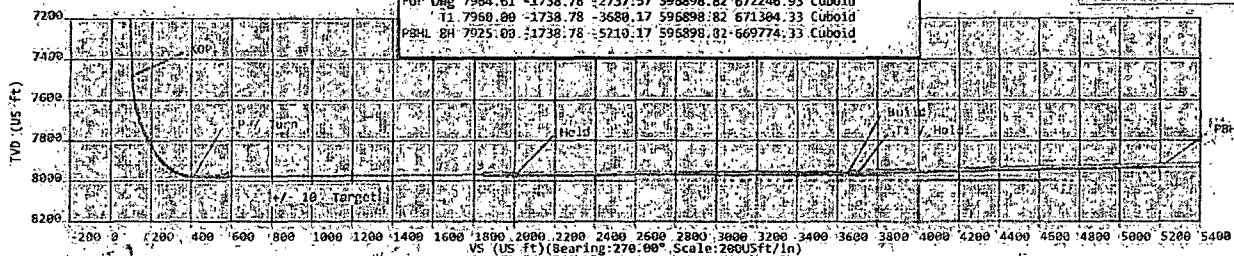
Target Set Information:

Name: Betelgeuse 19 Federal 8H
Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
	(USft)	(USft)	(USft)	(USft)	(USft)		
LP Tgt	7975.00	-1338.49	-584.90	597299.11	674399.60	Cuboid	
For Dng	7964.61	-1738.78	-2737.57	596898.82	672246.93	Cuboid	
T1	7960.00	-1738.78	-3680.17	596898.82	671304.33	Cuboid	
PBHL 8H	7925.00	-1738.78	-5210.17	596898.82	669774.33	Cuboid	

Betelgeuse 19 Federal 8H

Rigel 20 Fed Con 3H
Rigel 20 Fed Con 4H
Beetle Juice 19 Fed 1H
Lat Beetle Juice, Fed 19 2H
Beetle Juice 19 Fed 3H
Beetle Juice 19 Fed 4H
Betelgeuse 19 Federal 7H
Betelgeuse 19 Federal 8H



Sign Off: Russell Joyner

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5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*

Site Name: *Betelgeuse 19 Federal 7,8H Pad*

Well Name: *Betelgeuse 19 Federal 8H*

Plan: *P3-V1*

27 February 2015



Betelgeuse 19 Federal 8H

Field Name Betelgeuse 19 Federal 8H	Map Units : US ft	Company Name : Devon Energy
	Vertical Reference Datum (VRD) : Mean Sea Level	
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)	
	Comment :	
Site Name Betelgeuse 19 Federal 8H	Units : US ft	North Reference : Grid
	Position	Convergence Angle : 0.23
	Northing : 598687.58 US ft	Latitude : 32°38'42.32"
	Easting : 674984.13 US ft	Longitude : -103°53'56.88"
	Elevation above Mean Sea Level: 3411.00 US ft	
	Comment :	
Slot Name Betelgeuse 19 Federal 8H	Position (Offsets relative to Site Centre)	
	+N / -S : 49.98 US ft	Northing : 598637.60 US ft
	+E / -W : 0.37 US ft	Easting : 674984.50 US ft
	Slot TVD Reference : Ground Elevation	Latitude : 32°38'41.83"
	Elevation above Mean Sea Level : 3409.00 US ft	Longitude : -103°53'56.88"
	Comment :	
Well Name Betelgeuse 19 Federal 8H	Type : Main well	UWI :
	Rig Height : Kelly Bushing : 26.00 US ft	Plan : P3:V1
	Relative to Mean Sea Level : 3435.00 US ft	Comment :
	Closure Distance : 5492.65 US ft	Closure Azimuth : 251.545°
	Vertical Section (Position of Origin Relative to Slot)	
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft
	Az : 270.00°	
	Magnetic Parameters	
	Model : BGGM	Field Strength : 48437.9nT
	Dec : 7.50°	Dip : 60.42°
	Date : 20/Feb/2015	

Target Set
Name : Betelgeuse 19
Number of Targets : 4
Federal 8H

Comment :	
Target Name UP Tgt	Position (Relative to Slot centre)
Shape Cuboid	+N / -S : 1338.49 US ft
	Northing : 597299.11 US ft
	Latitude : 32°38'28.61"
	+E / -W : 584.90 US ft
	Easting : 674399.60 US ft
	Longitude : -103°54'3.78"
	TVD (Kelly Bushing) : 7975.00 US ft
Orientation	Azimuth : 0.00°
Dimensions	Inclination : 0.00°
Length : 20.00 US ft	Breadth : 20.00 US ft
	Height : 20.00 US ft

Target Name	Position (Relative to Slot centre)		
Forwards	+N / -S : 1738.78US ft	Northing : 596898.82 US ft	Latitude : 32°38'24.73"
Shape	+E / -W : 2737.57 US ft	Easting : 672246.93US ft	Longitude : -103°54'28.98"
Guard	TVD (Kelly Bushing) : 7964.61 US ft		
Orientation	Azimuth : 270.00°	Inclination : 0.28°	
Dimensions	Length : 1780.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft
Target Name	Position (Relative to Slot centre)		
Forwards	+N / -S : 1738.78US ft	Northing : 596898.82 US ft	Latitude : 32°38'24.77"
Shape	+E / -W : 3680.17 US ft	Easting : 671304.33US ft	Longitude : -103°54'40.00"
Guard	TVD (Kelly Bushing) : 7960.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft
Target Name	Position (Relative to Slot centre)		
Forwards	+N / -S : 1738.78US ft	Northing : 596898.82 US ft	Latitude : 32°38'24.83"
Shape	+E / -W : 5210.17 US ft	Easting : 669774.33US ft	Longitude : -103°54'57.89"
Guard	TVD (Kelly Bushing) : 7925.00 US ft		
Orientation	Azimuth : 270.00°	Inclination : 1.31°	
Dimensions	Length : 3060.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Kelly Bushing)								
MD (US ft)	Inc (°)	AP (°)	TVD (US ft)	HOIset (US ft)	POIset (US ft)	Northing (US ft)	Easting (US ft)	Name
2405.53	0.18	166.35	2405.00	-14.01	21.58	598623.59	675006.08	13 3/8 in
4071.00	1.71	139.90	4070.02	-33.01	50.80	598604.59	675035.30	Csg 9 5/8 in

Well path created using minimum curvature

Current Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	AP (°)	TVD (US ft)	HOIset (US ft)	POIset (US ft)	VS (US ft)	GIS (1/1000US ft)	GRate (1/1000US ft)	TRate (1/1000US ft)	Offset (ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.00	0.30	196.40	57.00	-0.14	-0.04	0.04	0.53	0.53	0.00	196.40
148.00	0.90	191.40	147.99	-1.07	-0.25	0.25	0.66	0.66	-5.49	352.51
270.00	1.10	187.40	269.98	-3.17	-0.59	0.59	0.17	0.16	-3.28	338.75
376.00	1.00	176.40	375.96	-5.10	-0.66	0.66	0.21	-0.09	-10.38	238.19
468.00	1.19	146.49	467.94	-6.70	-0.09	0.09	0.65	0.21	-32.51	273.04
577.00	1.41	193.99	576.92	-8.95	0.21	-0.21	0.98	0.20	43.58	102.86
615.00	1.49	195.40	614.90	-9.88	-0.03	0.03	0.23	0.21	3.71	24.74
704.00	1.32	192.89	703.88	-11.99	-0.57	0.57	0.20	-0.19	-2.82	198.65
795.00	1.32	194.30	794.85	-14.03	-1.06	1.06	0.04	0.00	1.55	90.70
886.00	1.10	196.80	885.83	-15.88	-1.57	1.57	0.25	-0.24	2.75	167.75
977.00	1.01	194.69	976.82	-17.49	-2.03	2.03	0.11	-0.10	-2.32	202.30
1068.00	0.79	189.29	1067.81	-18.89	-2.33	2.33	0.26	-0.24	-5.93	198.40
1159.00	0.62	177.82	1158.80	-20.00	-2.41	2.41	0.24	-0.19	-12.60	214.06
1250.00	0.40	113.62	1249.80	-20.62	-2.10	2.10	0.63	-0.24	-70.55	218.93

Sally Points (Relative to Slot centre, NVD reference, Kelly Bushing)											Comment
ND (US ft)	Inc (°)	Alt (°)	NVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Rate (°/100 US ft)	Rate (°/100 US ft)	Rate (°/100 US ft)	
1344.00	0.70	86.19	1343.79	-20.71	-1.23	-1.23	0.42	0.32	29.18	304.46	
1437.00	1.19	77.89	1436.78	-20.47	0.28	-0.28	0.55	0.53	-8.92	340.22	
1525.00	1.41	72.61	1524.76	-19.96	2.21	-2.21	0.28	0.25	-6.00	328.78	
1623.00	1.71	70.59	1622.72	-19.11	4.74	-4.74	0.31	0.31	-2.06	348.60	
1717.00	1.89	70.42	1716.67	-18.13	7.52	-7.52	0.19	0.19	-0.18	358.22	
1811.00	2.20	69.32	1810.61	-16.97	10.67	-10.67	0.33	0.33	-1.17	352.23	
1906.00	1.71	73.58	1905.56	-15.92	13.74	-13.74	0.54	-0.52	4.48	165.60	
1996.00	1.32	68.48	1995.53	-15.16	15.99	-15.99	0.46	-0.43	-5.67	196.53	
2090.00	1.10	76.39	2089.51	-14.55	17.87	-17.87	0.29	-0.23	8.41	146.70	
2188.00	1.01	77.10	2187.49	-14.14	19.63	-19.63	0.09	-0.09	0.72	172.09	
2282.00	0.70	82.90	2281.48	-13.88	21.01	-21.01	0.34	-0.33	6.17	167.29	
2329.00	0.62	80.70	2328.48	-13.81	21.54	-21.54	0.18	-0.17	-4.68	196.48	
2371.00	0.40	226.81	2370.47	-13.87	21.66	-21.66	2.33	-0.52	347.88	166.81	
2405.53	0.18	166.35	2405.00	-14.01	21.58	-21.58	1.01	-0.63	175.13	207.17	13 3/8 in
2465.00	0.62	91.12	2464.47	-14.11	21.93	-21.93	1.01	0.74	-126.49	267.64	
2556.00	0.70	82.28	2555.47	-14.04	22.97	-22.97	0.14	0.09	-9.71	303.68	
2650.00	0.79	85.80	2649.46	-13.92	24.19	-24.19	0.11	0.10	3.74	28.72	
2744.00	0.88	94.72	2743.45	-13.93	25.55	-25.55	0.17	0.10	9.49	59.82	
2838.00	1.01	78.99	2837.44	-13.83	27.08	-27.08	0.31	0.14	-16.73	288.61	
2933.00	1.19	85.58	2932.42	-13.59	28.89	-28.89	0.23	0.19	6.94	38.43	
3031.00	1.41	116.60	3030.40	-14.05	30.98	-30.98	0.74	0.22	31.65	88.55	
3124.00	1.41	118.01	3123.37	-15.10	33.02	-33.02	0.04	0.00	-1.52	90.70	
3219.00	1.49	121.39	3218.34	-16.30	35.10	-35.10	0.12	0.08	3.56	48.61	
3313.00	1.41	124.12	3312.31	-17.58	37.10	-37.10	0.11	-0.09	2.90	140.55	
3407.00	1.58	128.38	3406.27	-19.04	39.08	-39.08	0.22	0.18	4.53	35.32	
3500.00	1.58	134.80	3499.24	-20.73	40.99	-40.99	0.19	0.00	6.90	93.21	
3595.00	1.58	139.98	3594.20	-22.66	42.76	-42.76	0.15	0.00	5.45	92.59	
3689.00	1.49	140.91	3688.17	-24.60	44.37	-44.37	0.10	-0.10	0.99	164.99	
3783.00	1.58	145.61	3782.14	-26.62	45.87	-45.87	0.16	0.10	5.00	56.81	
3878.00	1.58	143.89	3877.10	-28.76	47.38	-47.38	0.05	0.00	-1.81	269.14	
3973.00	1.49	141.52	3972.07	-30.78	48.92	-48.92	0.12	-0.09	-2.49	214.02	
3978.00	1.71	139.90	3977.06	-30.89	49.01	-49.01	4.49	4.40	-32.40	347.57	Tie on Extreme Svy
4071.00	1.71	139.90	4070.02	-33.01	50.80	-50.80	0.00	0.00	0.00	0.00	9 5/8 in Csg
4171.00	1.71	139.90	4169.98	-35.30	52.72	-52.72	0.00	0.00	0.00	0.00	Nudge
4874.22	7.58	205.00	4870.85	-85.42	39.86	-39.86	1.00	0.83	9.26	77.77	Hold
7507.08	7.58	205.00	7480.70	-400.18	-106.92	106.92	0.00	0.00	0.00	0.00	KOP
8334.94	90.28	213.46	7978.82	-881.87	-413.48	413.48	10.00	9.99	1.02	8.53	LP / Turn
10219.68	90.28	270.00	7968.78	-1738.78	-2006.83	2006.83	3.00	0.00	3.00	89.85	Hold
11865.68	90.28	270.00	7960.74	-1738.78	-3652.81	3652.81	0.00	0.00	0.00	0.00	Build
11918.30	91.33	270.00	7960.00	-1738.78	-3705.42	3705.42	2.00	2.00	0.00	0.00	T1 / Hold
13423.46	91.33	270.00	7925.00	-1738.78	-5210.17	5210.17	0.00	0.00	0.00	0.00	PBHL

Interpolated Points (Relative to Slot centre, NVD reference, Kelly Bushing)											Comment
ND (US ft)	Inc (°)	Alt (°)	NVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)		
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	598637.60	674984.50		
57.00	0.30	196.40	57.00	-0.14	-0.04	0.04	0.53	598637.46	674984.46		First Rig Svy
148.00	0.90	191.40	147.99	-1.07	-0.25	0.25	0.66	598636.53	674984.25		
270.00	1.10	187.40	269.98	-3.17	-0.59	0.59	0.17	598634.43	674983.91		
376.00	1.00	176.40	375.96	-5.10	-0.66	0.66	0.21	598632.50	674983.84		Tie on Teledrift
468.00	1.19	146.49	467.94	-6.70	-0.09	0.09	0.65	598630.90	674984.41		First Extreme Svy
577.00	1.41	193.99	576.92	-8.95	0.21	-0.21	0.98	598628.65	674984.71		
615.00	1.49	195.40	614.90	-9.88	-0.03	0.03	0.23	598627.72	674984.47		
704.00	1.32	192.89	703.88	-11.99	-0.57	0.57	0.20	598625.61	674983.93		
795.00	1.32	194.30	794.85	-14.03	-1.06	1.06	0.04	598623.57	674983.44		
886.00	1.10	196.80	885.83	-15.88	-1.57	1.57	0.25	598621.72	674982.93		

SD Plan Report

Interpolated Points (Relative to Sta. centre) by Drilling to Kelly Bashing										
MD (US-ft)	Incl (°)	AS (°)	TVD (US-ft)	North (US-ft)	East (US-ft)	US (US-ft)	OLS (7/100 US-ft)	North (US-ft)	East (US-ft)	Comment
977.00	1.01	154.59	976.82	-17.49	-2.03	2.03	0.11	598620.11	674982.47	
1068.00	0.79	189.29	1067.81	-18.89	-2.33	2.33	0.26	598618.71	674982.17	
1159.00	0.62	177.82	1158.80	-20.00	-2.41	2.41	0.24	598617.60	674982.09	
1250.00	0.40	113.62	1249.80	-20.62	-2.10	2.10	0.63	598616.98	674982.40	
1344.00	0.70	86.19	1343.79	-20.71	-1.23	1.23	0.42	598616.89	674983.27	
1437.00	1.19	77.89	1436.78	-20.47	0.28	-0.28	0.55	598617.13	674984.78	
1525.00	1.41	72.61	1524.76	-19.96	2.21	-2.21	0.28	598617.64	674986.71	
1623.00	1.71	70.59	1622.72	-19.11	4.74	-4.74	0.31	598618.49	674989.24	
1717.00	1.89	70.42	1716.67	-18.13	7.52	-7.52	0.19	598619.47	674992.02	
1811.00	2.20	69.32	1810.61	-16.97	10.67	-10.67	0.33	598620.63	674995.17	
1906.00	1.71	73.58	1905.56	-15.92	13.74	-13.74	0.54	598621.68	674998.24	
1996.00	1.32	68.48	1995.53	-15.16	15.99	-15.99	0.46	598622.44	675000.49	
2090.00	1.10	76.39	2089.51	-14.55	17.87	-17.87	0.29	598623.05	675002.37	
2188.00	1.01	77.10	2187.49	-14.14	19.63	-19.63	0.09	598623.46	675004.13	
2282.00	0.70	82.90	2281.48	-13.88	21.01	-21.01	0.34	598623.72	675005.51	
2329.00	0.62	80.70	2328.48	-13.81	21.54	-21.54	0.18	598623.79	675006.04	
2371.00	0.40	226.81	2370.47	-13.87	21.66	-21.66	2.33	598623.73	675006.16	
2405.53	0.18	166.35	2405.00	-14.01	21.58	-21.58	1.01	598623.59	675006.08	13 3/8 in
2465.00	0.62	91.12	2464.47	-14.11	21.93	-21.93	1.01	598623.49	675006.43	
2556.00	0.70	82.28	2555.47	-14.04	22.97	-22.97	0.14	598623.56	675007.47	
2650.00	0.79	85.80	2649.46	-13.92	24.19	-24.19	0.11	598623.68	675008.69	
2744.00	0.88	94.72	2743.45	-13.93	25.55	-25.55	0.17	598623.67	675010.05	
2838.00	1.01	78.99	2837.44	-13.83	27.08	-27.08	0.31	598623.77	675011.58	
2933.00	1.19	85.58	2932.42	-13.59	28.89	-28.89	0.23	598624.01	675013.39	
3031.00	1.41	116.60	3030.40	-14.05	30.98	-30.98	0.74	598623.55	675015.48	
3124.00	1.41	118.01	3123.37	-15.10	33.02	-33.02	0.04	598622.50	675017.52	
3219.00	1.49	121.39	3218.34	-16.30	35.10	-35.10	0.12	598621.30	675019.60	
3313.00	1.41	124.12	3312.31	-17.58	37.10	-37.10	0.11	598620.02	675021.60	
3407.00	1.58	128.38	3406.27	-19.04	39.08	-39.08	0.22	598618.56	675023.58	
3500.00	1.58	134.80	3499.24	-20.73	40.99	-40.99	0.19	598616.87	675025.49	
3595.00	1.58	139.98	3594.20	-22.66	42.76	-42.76	0.15	598614.94	675027.26	
3689.00	1.49	140.91	3688.17	-24.60	44.37	-44.37	0.10	598613.00	675028.87	
3783.00	1.58	145.61	3782.14	-26.62	45.87	-45.87	0.16	598610.98	675030.37	
3878.00	1.58	143.89	3877.10	-28.76	47.38	-47.38	0.05	598608.84	675031.88	
3973.00	1.49	141.52	3972.07	-30.78	48.92	-48.92	0.12	598606.82	675033.42	
3978.00	1.71	139.90	3977.06	-30.89	49.01	-49.01	4.49	598606.71	675033.51	Tie on Extreme Svy
4000.00	1.71	139.90	3999.05	-31.39	49.43	-49.43	0.00	598606.21	675033.93	
4071.00	1.71	139.90	4070.02	-33.01	50.80	-50.80	0.00	598604.59	675035.30	9 5/8 in Csg
4100.00	1.71	139.90	4099.01	-33.68	51.35	-51.35	0.00	598603.92	675035.85	
4171.00	1.71	139.90	4169.98	-35.30	52.72	-52.72	0.00	598602.30	675037.22	Nudge
4200.00	1.79	148.99	4198.96	-36.02	53.23	-53.23	1.00	598601.58	675037.73	
4300.00	2.35	172.35	4298.90	-39.39	54.31	-54.31	1.00	598598.21	675038.81	
4400.00	3.13	185.47	4398.79	-44.14	54.32	-54.32	1.00	598593.46	675038.82	
4500.00	4.02	193.11	4498.59	-50.28	53.27	-53.27	1.00	598587.32	675037.77	
4600.00	4.94	197.95	4598.28	-57.79	51.15	-51.15	1.00	598579.81	675035.65	
4700.00	5.89	201.25	4697.84	-66.67	47.96	-47.96	1.00	598570.93	675032.46	
4800.00	6.86	203.63	4797.22	-76.92	43.70	-43.70	1.00	598560.68	675028.20	
4874.22	7.58	205.00	4870.85	-85.42	39.86	-39.86	1.00	598552.18	675024.36	Hold
4900.00	7.58	205.00	4896.40	-88.50	38.42	-38.42	0.00	598549.10	675022.92	
5000.00	7.58	205.00	4995.53	-100.46	32.85	-32.85	0.00	598537.14	675017.35	
5100.00	7.58	205.00	5094.66	-112.41	27.27	-27.27	0.00	598525.19	675011.77	
5200.00	7.58	205.00	5193.78	-124.37	21.70	-21.70	0.00	598513.23	675006.20	
5300.00	7.58	205.00	5292.91	-136.32	16.12	-16.12	0.00	598501.28	675000.62	
5400.00	7.58	205.00	5392.03	-148.28	10.55	-10.55	0.00	598489.32	674995.05	
5500.00	7.58	205.00	5491.16	-160.23	4.97	-4.97	0.00	598477.37	674989.47	
5600.00	7.58	205.00	5590.29	-172.19	-0.60	0.60	0.00	598465.41	674983.90	
5700.00	7.58	205.00	5689.41	-184.14	-6.18	6.18	0.00	598453.46	674978.32	
5800.00	7.58	205.00	5788.54	-196.10	-11.75	11.75	0.00	598441.50	674972.75	

5D Plot Report

Interpolated Points (Relative to Slot centre, NVD relative to Kelly Bushing)											
ID (US ft)	Int (°)	AZ (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	V/S (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
11500.00	90.28	270.00	7962.52	-1738.78	-3287.13	3287.13	0.00	596898.82	671597.37		
11600.00	90.28	270.00	7962.04	-1738.78	-3387.13	3387.13	0.00	596898.82	671597.37		
11700.00	90.28	270.00	7961.55	-1738.78	-3487.13	3487.13	0.00	596898.82	671497.37		
11800.00	90.28	270.00	7961.06	-1738.78	-3587.13	3587.13	0.00	596898.82	671397.37		
11865.68	90.28	270.00	7960.74	-1738.78	-3652.81	3652.81	0.00	596898.82	671331.69	Build	
11900.00	90.97	270.00	7960.36	-1738.78	-3687.12	3687.12	2.00	596898.82	671297.38		
11918.30	91.33	270.00	7960.00	-1738.78	-3705.42	3705.42	2.00	596898.82	671279.08	T1 / Hold	
12000.00	91.33	270.00	7958.10	-1738.78	-3787.10	3787.10	0.00	596898.82	671197.40		
12100.00	91.33	270.00	7955.77	-1738.78	-3887.07	3887.07	0.00	596898.82	671097.43		
12200.00	91.33	270.00	7953.45	-1738.78	-3987.04	3987.04	0.00	596898.82	670997.46		
12300.00	91.33	270.00	7951.12	-1738.78	-4087.02	4087.02	0.00	596898.82	670897.48		
12400.00	91.33	270.00	7948.80	-1738.78	-4186.99	4186.99	0.00	596898.82	670797.51		
12500.00	91.33	270.00	7946.47	-1738.78	-4286.96	4286.96	0.00	596898.82	670697.54		
12600.00	91.33	270.00	7944.15	-1738.78	-4386.94	4386.94	0.00	596898.82	670597.56		
12700.00	91.33	270.00	7941.82	-1738.78	-4486.91	4486.91	0.00	596898.82	670497.59		
12800.00	91.33	270.00	7939.50	-1738.78	-4586.88	4586.88	0.00	596898.82	670397.62		
12900.00	91.33	270.00	7937.17	-1738.78	-4686.85	4686.85	0.00	596898.82	670297.65		
13000.00	91.33	270.00	7934.85	-1738.78	-4786.83	4786.83	0.00	596898.82	670197.67		
13100.00	91.33	270.00	7932.52	-1738.78	-4886.80	4886.80	0.00	596898.82	670097.70		
13200.00	91.33	270.00	7930.20	-1738.78	-4986.77	4986.77	0.00	596898.82	669997.73		
13300.00	91.33	270.00	7927.87	-1738.78	-5086.75	5086.75	0.00	596898.82	669897.75		
13400.00	91.33	270.00	7925.55	-1738.78	-5186.72	5186.72	0.00	596898.82	669797.78		
13423.46	91.33	270.00	7925.00	-1738.78	-5210.17	5210.17	0.00	596898.82	669774.33	PBHL	

Betelgeuse 19 Federal 8H

Field: Eddy Co, NM (Nad:83,NME)

Map Units: US ft
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Betelgeuse 19 Federal 7,8H Pad

Company Name: Devon Energy
Units: US ft
TVD Reference:

Position:

Northing:	598687.58US ft	Latitude:	32° 38' 42.32"
Easting:	674984.13US ft	Longitude:	-103° 53' 56.88"

North Reference: Grid **Convergence Angle:** 0.23

Elevation above Mean Sea Level : 3411.00US ft

Comment :

Slot: Betelgeuse 19 Federal 8H

Position (Relative to Site centre)

+N/-S: -49.98US ft	Northing:	598637.60US ft	Latitude:	32°38'41.83"
+E/-W: 0.37US ft	Easting:	674984.50US ft	Longitude:	-103°53'56.88"

Elevation above Mean Sea Level : 3409.00US ft

Comment :

Well: Betelgeuse 19 Federal 8H

Type:	Main well	Rig Height (Kelly Bushing):	26.00US ft	Relative To Mean Sea Level:
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File Number:

Plan Folder:	P3	Plan:	P3.V1
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Closure Distance:	5492.65US ft	Closure Azimuth:	251.545°
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Comment:

Vertical Section:

Position of Origin (Relative to Slot centre)	+N/-S: 0.00US ft	+E/-W: 0.00US ft
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Vertical Section Azimuth: 270.00°

Magnetic Parameters:

Model: BGGM	Field Strength: 48437.9 nT	Declination: 7.50°	Dip: 60.42°	Date: 20/Feb/2015 (dd/mm/yyyy)
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Target Set: Betelgeuse 19 Federal 8H

Number of Targets: 4									
Target: LP Tgt									
Position: (Relative to Slot centre)									
+N/-S: -1338.49		Northing: 597299.11		Latitude: 32°38'28.61"					
+E/-W: -584.90		Easting: 674399.60		Longitude: -103°54'3.78"					
TVD (Kelly Bushing) :		7975.00 US ft							
Shape: Cuboid									
Orientation		Inclination: 0.00°		Azimuth: 0.00°					
Dimensions		Length: 20.00		Breadth: 20.00		Height: 20.00			
Target: For Dwg									
Position: (Relative to Slot centre)									
+N/-S: -1738.78		Northing: 596898.82		Latitude: 32°38'24.73"					
+E/-W: -2737.57		Easting: 672246.93		Longitude: -103°54'28.98"					
TVD (Kelly Bushing) :		7964.61 US ft							
Shape: Cuboid									
Orientation		Inclination: 0.28°		Azimuth: 270.00°					
Dimensions		Length: 1780.00		Breadth: 50.00		Height: 20.00			
Target: T1									
Position: (Relative to Slot centre)									
+N/-S: -1738.78		Northing: 596898.82		Latitude: 32°38'24.77"					
+E/-W: -3680.17		Easting: 671304.33		Longitude: -103°54'40.00"					
TVD (Kelly Bushing) :		7960.00 US ft							
Shape: Cuboid									
Orientation		Inclination: 0.00°		Azimuth: 0.00°					
Dimensions		Length: 20.00		Breadth: 20.00		Height: 20.00			
Target: PBHL 8H									
Position: (Relative to Slot centre)									
+N/-S: -1738.78		Northing: 596898.82		Latitude: 32°38'24.83"					
+E/-W: -5210.17		Easting: 669774.33		Longitude: -103°54'57.89"					
TVD (Kelly Bushing) :		7925.00 US ft							
Shape: Cuboid									
Orientation		Inclination: 1.31°		Azimuth: 270.00°					
Dimensions		Length: 3060.00		Breadth: 50.00		Height: 20.00			
Casing Points: (Relative to Slot Centre; TVD Relative to Kelly Bushing)									
MD	Incl	Az	TVD	N.Offset	E.Offset	Northing	Easting	Name	
(US ft)	(°)	(°)	(US ft)	(US ft)	(US ft)	(US ft)	(US ft)		
2405.53	0.18	166.35	2405	-14.01	21.58	598623.59	675006.08	13 3/8 in	

4071 1.71 139.9 4070.02 -33.01 50.8 598604.59 675035.3 Csg 9 5/8 in

Wellpath created using minimum curvature

Salient Points: (Relative to Slot Centre, TVD, Relative to Kelly Bushing)

MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B Rate (°/100 US ft)	T Rate (°/100 US ft)	T Face (°)	Comment
0	0	0	0	0	0	0	0	0	0	0	
57	0.3	196.4	57	-0.14	-0.04	0.04	0.53	0.53	0	196.4	First Rig Svy
148	0.9	191.4	147.99	-1.07	-0.25	0.25	0.66	0.66	-5.49	352.51	
270	1.1	187.4	269.98	-3.17	-0.59	0.59	0.17	0.16	-3.28	338.75	
376	1	176.4	375.96	-5.1	-0.66	0.66	0.21	-0.09	-10.38	238.19	Tie on Teledrift
468	1.19	146.49	467.94	-6.7	-0.09	0.09	0.65	0.21	-32.51	273.04	First Extreme Svy
577	1.41	193.99	576.92	-8.95	0.21	-0.21	0.98	0.2	43.58	102.86	
615	1.49	195.4	614.9	-9.88	-0.03	0.03	0.23	0.21	3.71	24.74	
704	1.32	192.89	703.88	-11.99	-0.57	0.57	0.2	-0.19	-2.82	198.65	
795	1.32	194.3	794.85	-14.03	-1.06	1.06	0.04	0	1.55	90.7	
886	1.1	196.8	885.83	-15.88	-1.57	1.57	0.25	-0.24	2.75	167.75	
977	1.01	194.69	976.82	-17.49	-2.03	2.03	0.11	-0.1	-2.32	202.3	
1068	0.79	189.29	1067.81	-18.89	-2.33	2.33	0.26	-0.24	-5.93	198.4	
1159	0.62	177.82	1158.8	-20	-2.41	2.41	0.24	-0.19	-12.6	214.06	
1250	0.4	113.62	1249.8	-20.62	-2.1	2.1	0.63	-0.24	-70.55	218.93	
1344	0.7	86.19	1343.79	-20.71	-1.23	1.23	0.42	0.32	-29.18	304.46	
1437	1.19	77.89	1436.78	-20.47	0.28	-0.28	0.55	0.53	-8.92	340.22	
1525	1.41	72.61	1524.76	-19.96	2.21	-2.21	0.28	0.25	-6	328.78	
1623	1.71	70.59	1622.72	-19.11	4.74	-4.74	0.31	0.31	-2.06	348.6	
1717	1.89	70.42	1716.67	-18.13	7.52	-7.52	0.19	0.19	-0.18	358.22	
1811	2.2	69.32	1810.61	-16.97	10.67	-10.67	0.33	0.33	-1.17	352.23	
1906	1.71	73.58	1905.56	-15.92	13.74	-13.74	0.54	-0.52	4.48	165.6	
1996	1.32	68.48	1995.53	-15.16	15.99	-15.99	0.46	-0.43	-5.67	196.53	
2090	1.1	76.39	2089.51	-14.55	17.87	-17.87	0.29	-0.23	8.41	146.7	
2188	1.01	77.1	2187.49	-14.14	19.63	-19.63	0.09	-0.09	0.72	172.09	
2282	0.7	82.9	2281.48	-13.88	21.01	-21.01	0.34	-0.33	6.17	167.29	
2329	0.62	80.7	2328.48	-13.81	21.54	-21.54	0.18	-0.17	-4.68	196.48	
2371	0.4	226.81	2370.47	-13.87	21.66	-21.66	2.33	-0.52	-347.88	166.81	
2405.53	0.18	166.35	2405	-14.01	21.58	-21.58	1.01	-0.63	-175.13	207.17	13 3/8 in
2465	0.62	91.12	2464.47	-14.11	21.93	-21.93	1.01	0.74	-126.49	267.64	
2556	0.7	82.28	2555.47	-14.04	22.97	-22.97	0.14	0.09	-9.71	303.68	
2650	0.79	85.8	2649.46	-13.92	24.19	-24.19	0.11	0.1	3.74	28.72	
2744	0.88	94.72	2743.45	-13.93	25.55	-25.55	0.17	0.1	9.49	59.82	
2838	1.01	78.99	2837.44	-13.83	27.08	-27.08	0.31	0.14	-16.73	288.61	
2933	1.19	85.58	2932.42	-13.59	28.89	-28.89	0.23	0.19	6.94	38.43	
3031	1.41	116.6	3030.4	-14.05	30.98	-30.98	0.74	0.22	31.65	88.55	

3124	1.41	118.01	3123.37	-15.1	33.02	-33.02	0.04	0	1.52	90.7	
3219	1.49	121.39	3218.34	-16.3	35.1	-35.1	0.12	0.08	3.56	48.61	
3313	1.41	124.12	3312.31	-17.58	37.1	-37.1	0.11	-0.09	2.9	140.55	
3407	1.58	128.38	3406.27	-19.04	39.08	-39.08	0.22	0.18	4.53	35.32	
3500	1.58	134.8	3499.24	-20.73	40.99	-40.99	0.19	0	6.9	93.21	
3595	1.58	139.98	3594.2	-22.66	42.76	-42.76	0.15	0	5.45	92.59	
3689	1.49	140.91	3688.17	-24.6	44.37	-44.37	0.1	-0.1	0.99	164.99	
3783	1.58	145.61	3782.14	-26.62	45.87	-45.87	0.16	0.1	5	56.81	
3878	1.58	143.89	3877.1	-28.76	47.38	-47.38	0.05	0	-1.81	269.14	
3973	1.49	141.52	3972.07	-30.78	48.92	-48.92	0.12	-0.09	-2.49	214.02	
3978	1.71	139.9	3977.06	-30.89	49.01	-49.01	4.49	4.4	-32.4	347.57	Tie on Extreme Svy
4071	1.71	139.9	4070.02	-33.01	50.8	-50.8	0	0	0	0	9 5/8 In Csg
4171	1.71	139.9	4169.98	-35.3	52.72	-52.72	0	0	0	0	Nudge
4874.22	7.58	205	4870.85	-85.42	39.86	-39.86	1	0.83	9.26	77.77	Hold
7507.08	7.58	205	7480.7	-400.18	-106.92	106.92	0	0	0	0	KOP
8334.94	90.28	213.46	7978.82	-881.87	-413.48	413.48	10	9.99	1.02	8.53	LP / Turn
10219.68	90.28	270	7968.78	-1738.78	-2006.83	2006.83	3	0	3	89.85	Hold
11865.68	90.28	270	7960.74	-1738.78	-3652.81	3652.81	0	0	0	0	Build
11918.3	91.33	270	7960	-1738.78	-3705.42	3705.42	2	2	0	0	T1 / Hold
13423.46	91.33	270	7925	-1738.78	-5210.17	5210.17	0	0	0	0	PBHL

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 (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
0	0	0	0	0	0	0	0	598637.6	674984.5	
57	0.3	196.4	57	-0.14	-0.04	0.04	0.53	598637.46	674984.46	First Rig Svy
148	0.9	191.4	147.99	-1.07	-0.25	0.25	0.66	598636.53	674984.25	
270	1.1	187.4	269.98	-3.17	-0.59	0.59	0.17	598634.43	674983.91	
376	1	176.4	375.96	-5.1	-0.66	0.66	0.21	598632.5	674983.84	Tie on Teledrift
468	1.19	146.49	467.94	-6.7	-0.09	0.09	0.65	598630.9	674984.41	First Extreme Svy
577	1.41	193.99	576.92	-8.95	0.21	-0.21	0.98	598628.65	674984.71	
615	1.49	195.4	614.9	-9.88	-0.03	0.03	0.23	598627.72	674984.47	
704	1.32	192.89	703.88	-11.99	-0.57	0.57	0.2	598625.61	674983.93	
795	1.32	194.3	794.85	-14.03	-1.06	1.06	0.04	598623.57	674983.44	
886	1.1	196.8	885.83	-15.88	-1.57	1.57	0.25	598621.72	674982.93	
977	1.01	194.69	976.82	-17.49	-2.03	2.03	0.11	598620.11	674982.47	
1068	0.79	189.29	1067.81	-18.89	-2.33	2.33	0.26	598618.71	674982.17	
1159	0.62	177.82	1158.8	-20	-2.41	2.41	0.24	598617.6	674982.09	
1250	0.4	113.62	1249.8	-20.62	-2.1	2.1	0.63	598616.98	674982.4	
1344	0.7	86.19	1343.79	-20.71	-1.23	1.23	0.42	598616.89	674983.27	
1437	1.19	77.89	1436.78	-20.47	0.28	-0.28	0.55	598617.13	674984.78	
1525	1.41	72.61	1524.76	-19.96	2.21	-2.21	0.28	598617.64	674986.71	
1623	1.71	70.59	1622.72	-19.11	4.74	-4.74	0.31	598618.49	674989.24	
1717	1.89	70.42	1716.67	-18.13	7.52	-7.52	0.19	598619.47	674992.02	

1811	2.2	69.32	1810.61	-16.97	10.67	-10.67	0.33	598620.63	674995.17	
1906	1.71	73.58	1905.56	-15.92	13.74	-13.74	0.54	598621.68	674998.24	
1996	1.32	68.48	1995.53	-15.16	15.99	-15.99	0.46	598622.44	675000.49	
2090	1.1	76.39	2089.51	-14.55	17.87	-17.87	0.29	598623.05	675002.37	
2188	1.01	77.1	2187.49	-14.14	19.63	-19.63	0.09	598623.46	675004.13	
2282	0.7	82.9	2281.48	-13.88	21.01	-21.01	0.34	598623.72	675005.51	
2329	0.62	80.7	2328.48	-13.81	21.54	-21.54	0.18	598623.99	675006.04	
2371	0.4	226.81	2370.47	-13.87	21.66	-21.66	2.33	598623.73	675006.16	
2405.53	0.18	166.35	2405	-14.01	21.88	-21.88	1.01	598623.59	675006.08	13 3/8 in
2465	0.62	91.12	2464.47	-14.11	21.93	-21.93	1.01	598623.49	675006.43	
2556	0.7	82.28	2555.47	-14.04	22.97	-22.97	0.14	598623.56	675007.47	
2650	0.79	85.8	2649.46	-13.92	24.19	-24.19	0.11	598623.68	675008.69	
2744	0.88	94.72	2743.45	-13.93	25.55	-25.55	0.17	598623.67	675010.05	
2838	1.01	78.99	2837.44	-13.83	27.08	-27.08	0.31	598623.77	675011.58	
2933	1.19	85.58	2932.42	-13.59	28.89	-28.89	0.23	598624.01	675013.39	
3031	1.41	116.6	3030.4	-14.05	30.98	-30.98	0.74	598622.55	675015.48	
3124	1.41	118.01	3123.37	-15.1	33.02	-33.02	0.04	598621.3	675017.52	
3219	1.49	121.39	3218.34	-15.3	35.1	-35.1	0.12	598621.3	675019.6	
3313	1.41	124.12	3312.31	-17.58	37.1	-37.1	0.11	598620.02	675021.6	
3407	1.58	128.38	3406.27	-19.04	39.08	-39.08	0.22	598618.56	675023.58	
3500	1.58	134.8	3499.24	-20.73	40.99	-40.99	0.19	598616.87	675025.49	
3595	1.58	139.98	3594.2	-22.66	42.76	-42.76	0.15	598614.94	675027.26	
3689	1.49	140.91	3688.17	-24.6	44.37	-44.37	0.1	598613	675028.87	
3783	1.58	145.61	3782.14	-26.62	45.87	-45.87	0.16	598610.98	675030.37	
3878	1.58	143.89	3877.1	-28.78	48.92	-48.92	0.05	598608.84	675031.88	
3973	1.49	141.52	3972.07	-30.78	48.92	-48.92	0.12	598605.71	675033.42	
3978	1.71	139.9	3977.06	-30.89	49.01	-49.01	4.49	598604.59	675033.51	Tie on Extreme Sky
4000	1.71	139.9	3999.05	-31.39	49.43	-49.43	0	598605.21	675033.93	
4071	1.71	139.9	4070.02	-33.01	50.8	-50.8	0	598604.92	675035.3	9 5/8 in C&G
4100	1.71	139.9	4099.01	-33.68	51.35	-51.35	0	598603.95	675037.22	
4171	1.71	139.9	4169.98	-35.3	52.72	-52.72	0	598602.3	675037.73	Nudge
4200	1.79	148.99	4198.96	-36.02	53.23	-53.23	1	598601.58	675038.81	
4300	2.35	172.35	4298.9	-39.39	54.31	-54.31	1	598598.21	675038.82	
4400	3.13	185.47	4398.79	-44.14	54.32	-54.32	1	598593.46	675037.77	
4500	4.02	193.11	4498.59	-50.28	53.27	-53.27	1	598587.32	675035.65	
4600	4.94	197.95	4598.28	-57.79	51.15	-51.15	1	598579.81	675032.46	
4700	5.89	201.25	4697.84	-66.67	47.96	-47.96	1	598560.68	675028.2	
4800	6.86	203.63	4797.22	-76.92	43.7	-43.7	1	598552.18	675024.36	Hold
4874.22	7.58	205	4870.85	-85.42	39.86	-39.86	1	598549.1	675017.35	
4900	7.58	205	4896.4	-88.5	32.85	-32.85	0	598537.14	675011.77	
5000	7.58	205	4995.53	-100.46	27.27	-27.27	0	598525.19	675006.2	
5100	7.58	205	5094.66	-112.41	21.7	-21.7	0	598513.23	675000.62	
5200	7.58	205	5193.78	-124.37	16.12	-16.12	0	598501.28		
5300	7.58	205	5292.91	-136.32						

5400	7.58	205	5392.03	-148.28	10.55	-10.55	0	598489.32	674995.05
5500	7.58	205	5491.16	-160.23	4.97	-4.97	0	598477.37	674989.47
5600	7.58	205	5590.29	-172.19	-0.6	0.6	0	598465.41	674983.9
5700	7.58	205	5689.41	-184.14	-6.18	6.18	0	598453.46	674978.32
5800	7.58	205	5788.54	-196.1	-11.75	11.75	0	598441.5	674972.75
5900	7.58	205	5887.66	-208.05	-17.32	17.32	0	598429.55	674967.18
6000	7.58	205	5986.79	-220.01	-22.9	22.9	0	598417.59	674961.6
6100	7.58	205	6085.92	-231.96	-28.47	28.47	0	598405.64	674956.03
6200	7.58	205	6185.04	-243.92	-34.05	34.05	0	598393.68	674950.45
6300	7.58	205	6284.17	-255.88	-39.62	39.62	0	598381.72	674944.88
6400	7.58	205	6383.3	-267.83	-45.2	45.2	0	598369.77	674939.3
6500	7.58	205	6482.42	-279.79	-50.77	50.77	0	598357.81	674933.73
6600	7.58	205	6581.55	-291.74	-56.35	56.35	0	598345.86	674928.15
6700	7.58	205	6680.67	-303.7	-61.92	61.92	0	598333.9	674922.58
6800	7.58	205	6779.8	-315.65	-67.5	67.5	0	598321.95	674917
6900	7.58	205	6878.93	-327.61	-73.07	73.07	0	598309.99	674911.43
7000	7.58	205	6978.05	-339.56	-78.65	78.65	0	598298.04	674905.85
7100	7.58	205	7077.18	-351.52	-84.22	84.22	0	598286.08	674900.28
7200	7.58	205	7176.3	-363.47	-89.8	89.8	0	598274.13	674894.7
7300	7.58	205	7275.43	-375.43	-95.37	95.37	0	598262.17	674889.13
7400	7.58	205	7374.56	-387.38	-100.95	100.95	0	598250.22	674883.55
7500	7.58	205	7473.68	-399.34	-106.52	106.52	0	598238.26	674877.98
7507.08	7.58	205	7480.7	-400.18	-106.92	106.92	0	598237.42	674877.58
7600	16.83	209.74	7571.43	-417.45	-116.2	116.2	10	598220.15	674868.3
7700	26.81	211.23	7664.15	-449.38	-135.12	135.12	10	598188.22	674849.38
7800	36.8	211.95	7749.02	-494.19	-162.74	162.74	10	598143.41	674821.76
7900	46.8	212.4	7823.47	-550.52	-198.21	198.21	10	598087.08	674786.29
8000	56.79	212.72	7885.24	-616.66	-240.46	240.46	10	598020.94	674744.04
8100	66.79	212.97	7932.45	-690.6	-288.2	288.2	10	597947	674696.3
8200	76.79	213.19	7963.66	-770.09	-339.98	339.98	10	597875.51	674644.52
8300	86.79	213.39	7977.93	-852.72	-394.24	394.24	10	597784.88	674590.25
8334.94	90.28	213.46	7978.82	-881.87	-413.48	413.48	10	597755.73	674571.02
8400	90.28	215.41	7978.5	-935.53	-450.26	450.26	3	597702.07	674534.24
8500	90.29	218.41	7978	-1015.48	-510.31	510.31	3	597622.12	674474.19
8600	90.3	221.41	7977.48	-1092.17	-574.46	574.46	3	597545.43	674410.04
8700	90.3	224.41	7976.96	-1165.41	-642.53	642.53	3	597472.19	674341.97
8800	90.31	227.41	7976.42	-1234.98	-714.35	714.35	3	597402.62	674270.15
8900	90.31	230.41	7975.88	-1300.7	-789.7	789.7	3	597336.9	674194.8
9000	90.31	233.41	7975.33	-1362.38	-868.4	868.4	3	597275.22	674116.1
9100	90.32	236.41	7974.78	-1419.86	-950.21	950.21	3	597217.74	674034.29
9200	90.32	239.41	7974.23	-1472.98	-1034.92	1034.92	3	597164.62	673949.58
9300	90.32	242.41	7973.67	-1521.59	-1122.29	1122.29	3	597116.01	673862.21
9400	90.32	245.41	7973.12	-1565.57	-1212.09	1212.09	3	597072.03	673772.41
9500	90.32	248.41	7972.57	-1604.78	-1304.07	1304.07	3	597032.82	673680.43

LP / Turn

KOP

9600	90.31	251.41	7972.02	-1659.13	-1397.97	1397.97	596998.47	673586.53	
9700	90.31	254.41	7971.47	-1668.51	-1493.54	1493.54	596969.09	673490.96	
9800	90.31	257.41	7970.94	-1692.85	-1590.52	1590.52	596944.75	673393.98	
9900	90.3	260.41	7970.41	-1712.09	-1688.64	1688.64	596925.51	673295.86	
10000	90.3	263.41	7969.89	-1726.16	-1787.63	1787.63	596911.44	673196.87	
10100	90.29	266.41	7969.38	-1735.03	-1887.22	1887.22	596902.57	673097.28	
10200	90.28	269.41	7968.88	-1738.66	-1987.15	1987.15	596898.92	672997.35	
10219.68	90.28	270	7968.78	-1738.78	-2006.83	2006.83	596898.82	672977.67	Hold
10300	90.28	270	7968.39	-1738.78	-2087.14	2087.14	596898.82	672897.36	
10400	90.28	270	7967.9	-1738.78	-2187.14	2187.14	596898.82	672797.36	
10500	90.28	270	7966.92	-1738.78	-2287.14	2287.14	596898.82	672697.36	
10600	90.28	270	7966.43	-1738.78	-2387.14	2387.14	596898.82	672597.36	
10700	90.28	270	7965.95	-1738.78	-2487.14	2487.14	596898.82	672497.36	
10800	90.28	270	7965.46	-1738.78	-2587.14	2587.14	596898.82	672397.36	
10900	90.28	270	7964.97	-1738.78	-2687.14	2687.14	596898.82	672297.36	
11000	90.28	270	7964.48	-1738.78	-2787.14	2787.14	596898.82	672197.36	
11100	90.28	270	7963.99	-1738.78	-2887.13	2887.13	596898.82	672097.37	
11200	90.28	270	7963.51	-1738.78	-2987.13	2987.13	596898.82	671997.37	
11300	90.28	270	7963.01	-1738.78	-3087.13	3087.13	596898.82	671897.37	
11400	90.28	270	7962.52	-1738.78	-3187.13	3187.13	596898.82	671797.37	
11500	90.28	270	7962.04	-1738.78	-3287.13	3287.13	596898.82	671697.37	
11600	90.28	270	7961.55	-1738.78	-3387.13	3387.13	596898.82	671597.37	
11700	90.28	270	7961.06	-1738.78	-3487.13	3487.13	596898.82	671497.37	
11800	90.28	270	7960.74	-1738.78	-3587.13	3587.13	596898.82	671397.37	Build
11865.68	90.28	270	7960.36	-1738.78	-3652.81	3652.81	596898.82	671331.69	
11900	90.97	270	7960.12	-1738.78	-3705.42	3705.42	596898.82	671279.08	TI / Hold
11918.3	91.33	270	7958.1	-1738.78	-3787.1	3787.1	596898.82	671197.4	
12000	91.33	270	7955.77	-1738.78	-3887.07	3887.07	596898.82	671097.43	
12100	91.33	270	7953.45	-1738.78	-3987.04	3987.04	596898.82	670997.46	
12200	91.33	270	7951.12	-1738.78	-4087.02	4087.02	596898.82	670897.48	
12300	91.33	270	7948.8	-1738.78	-4186.99	4186.99	596898.82	670797.51	
12400	91.33	270	7946.47	-1738.78	-4286.96	4286.96	596898.82	670697.54	
12500	91.33	270	7944.15	-1738.78	-4386.94	4386.94	596898.82	670597.56	
12600	91.33	270	7941.82	-1738.78	-4486.91	4486.91	596898.82	670497.59	
12700	91.33	270	7939.5	-1738.78	-4586.88	4586.88	596898.82	670397.62	
12800	91.33	270	7937.17	-1738.78	-4686.85	4686.85	596898.82	670297.65	
12900	91.33	270	7934.85	-1738.78	-4786.83	4786.83	596898.82	670197.67	
13000	91.33	270	7932.52	-1738.78	-4886.8	4886.8	596898.82	670097.7	
13100	91.33	270	7930.2	-1738.78	-4986.77	4986.77	596898.82	669997.73	
13200	91.33	270	7927.87	-1738.78	-5086.75	5086.75	596898.82	669897.75	
13300	91.33	270	7925.55	-1738.78	-5186.72	5186.72	596898.82	669797.78	
13400	91.33	270	7925	-1738.78	-5210.17	5210.17	596898.82	66974.33	P8HL
13423.46	91.33	270							

Formation Points: (Relative to Slot Centre, TVD Relative to Kelly Bushing)

MD	Inc	Ar	TVD	N-Offset	E-Offset	Northing	Easting	Name	Comment
(US ft)	(°)	(°)	(US ft)	(US ft)	(US ft)	(US ft)	(US ft)		

Weatherford International Limited

SD 7.5.9 : 28 February 2015: 04:34:11 UTC