

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No. NMNM112941
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. MEAN GREEN 22 FED 1H
9. API Well No. 30-025-41434-00-X1
10. Field and Pool, or Exploratory WC-025 G06 S263422P
11. County or Parish, and State LEA COUNTY, NM

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator DEVON ENERGY PRODUCTION CO LP Contact: DAVID H COOK Email: david.cook@devn.com	
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-7848
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T26S R34E SESE 100FSL 210FEL	

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate 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 recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Co., LP respectfully requests approval to change the approved APD. While drilling the lateral section, we experienced hole instability issues that prevented us from drilling ahead. We plan to sidetrack above the curve to drill the full lateral section. A 200' cement plug will be set from 8626' to 8826' and an open hole whipstock will be set on top of the plug to sidetrack the well to a revised TD of 13907' MD and 9190' TVD.

Please see attached revised Drill Plan and Directional Survey.

Note: Nathan Yanchak, Devon, received BLM approval to proceed on 11/6/14.

Verbal given 11/6/14

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #277648 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by LINDA JIMENEZ on 11/20/2014 (15LJ0361SE)	
Name (Printed/Typed)	DAVID H COOK	Title	REGULATORY SPECIALIST
Signature	(Electronic Submission)	Date	11/10/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved By		Title	Date
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.		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
		Office	

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

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

DEC 04 2014

HOBBS OCD

DEC 03 2014

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Mean Green 22 Fed 1H

RECEIVED

1. **Geologic Name of Surface Formation:** Quaternary
2. **Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:**

a. Fresh Water	180'	
b. Rustler	900'	Barren
c. Top of Salt	1100'	Barren
d. Base of Salt	5100'	Barren
e. Delaware	5321'	Oil / Gas
f. Cherry Canyon	6365'	Oil / Gas
g. Brushy Canyon	7640'	Oil / Gas
Total Depths	9190' TVD	13907' MD

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 930'	13-3/8"	0 - 930'	54.5	BTC	J55	1.21	2.92	8.34
12-1/4"	930-5300'	9-5/8"	0-5300'	40	LTC	J55	1.51	1.25	2.92
8-3/4"	5300'-13907'	5-1/2"	0-13907'	17	BTC	HCP110	1.92	2.74	6.19

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 9264'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-930'	8.4-8.6	30-34	N/C	FW
930-5300'	10.0	28-32	N/C	Brine
5300-13907'	8.6-9.2	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface Casing	430	13.5	9.08	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water
	450	14.8	6.34	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Casing	1190	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
5-1/2" Production Casing	240	11.0	14.98	2.66	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	330	12.5	10.81	1.96	Lead #2	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1100	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

Plug Length	Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type
200'	8626	8826	10	80	15.6	1.2	5.42	Class H + 0.4% BWOC HR-601 + 0.2% Halad-9

A 200' cement plug will be set at these depths and then an openhole whipstock will be set on top of the plug to sidetrack the well.

TOC for all Strings:

Surface	@	0'
Intermediate	@	0'
Production	@	4800'

Notes:

- Cement volumes Surface 100%, Intermediate 75%, Pilot Hole 10% and Production Casing based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data



Mean Green 22 Fed 1H
Lea Co, NM

KB-3241
GL-3213

Plan Data for Mean Green 22 Fed 1H ST01

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft									
Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
8611.00	0.88	137.81	8609.97	-20.31	11.28	372818.37	815133.67	-20.31	0.21
8626.00	1.12	319.01	8624.97	-20.29	11.26	372818.39	815133.65	-20.29	13.33
8631.00	1.12	319.01	8629.97	-20.22	11.19	372818.46	815133.58	-20.22	0.00
8994.53	36.20	319.01	8969.03	66.21	-63.91	372904.89	815058.48	66.21	9.65
9662.21	91.00	0.01	9264.41	607.07	-208.78	373445.75	814913.61	607.07	9.65
13907.37	91.00	0.01	9190.32	4851.58	-208.04	377690.26	814914.35	4851.58	0.00

Plan Data for Mean Green 22 Fed 1H ST01

Slot: Mean Green 22 Fed 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 372838.68USft Latitude: 32°1'19.0"
+E/-W: 0.00USft Easting: 815122.39USft Longitude: -103°26'59.7"
Elevation Above VRD: 3213.00USft

Plan Data for Mean Green 22 Fed 1H ST01

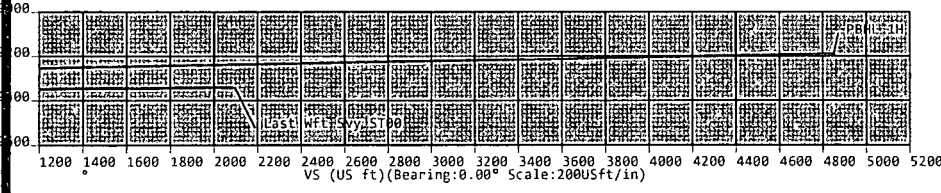
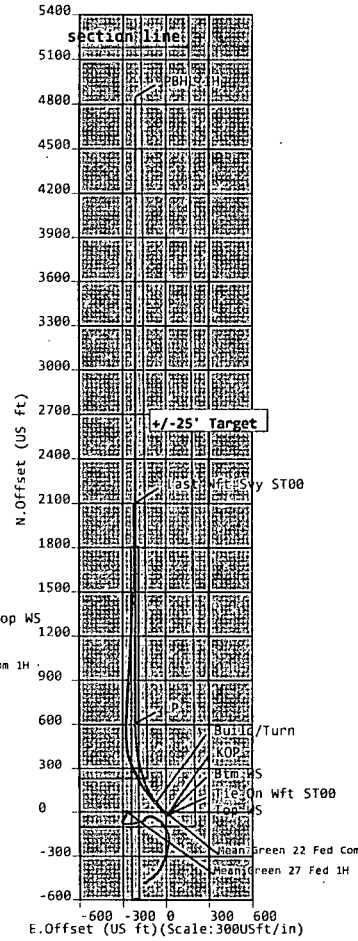
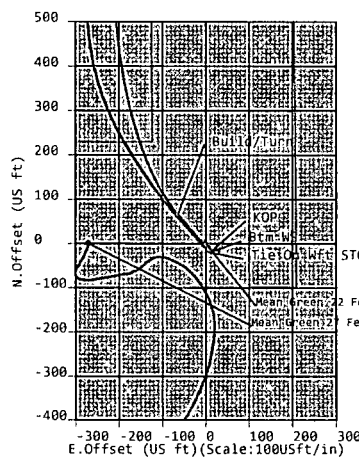
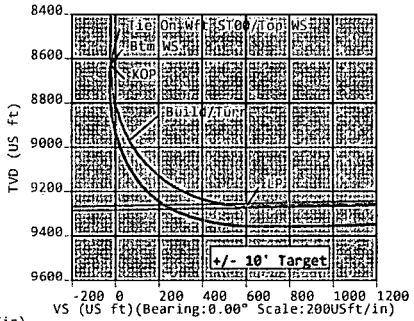
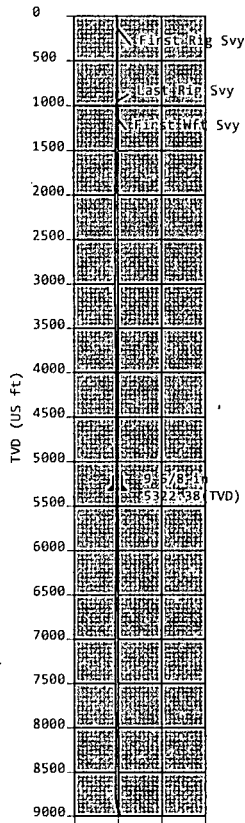
Target Set Information:
Name: Mean Green 22 Fed Com 1H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft)
PBHL 1H 9144.25 7490.29 -207.04 380328.97 814915.35 Cuboid
LP 9264.42 607.09 -208.76 373445.77 814913.63 Cuboid

Plan Data for Mean Green 22 Fed 1H ST01

Well: Mean Green 22 Fed 1H ST01
Type: Side-track
File Number:
Plan Folder: P1 Plan: P1-V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 0.00°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGM 48149(nT) 7.26° 59.93° 2014-11-15



Mean Green 22 Fed 1H ST01
Mean Green 27 Fed 1H
Mean Green 22 Fed Com 1H



Sign Off: Russell Joyner

5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Mean Green 22,27 Fed 1H Pad*
Well Name: *Mean Green 22 Fed 1H ST01*
Plan: *P1:V1*

06 November 2014



Mean Green 22 Fed 1H ST01

Field Name Lea Co, NM Nad 83 NMEZ	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
Projected Coordinate System : NAD83 / New Mexico East (ftUS)				
Comment :				
Site Name Mean Green 22,27 Fed 1H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.47	
	Position	Northing : 372838.68 US ft	Latitude : 32° 1' 18.97"	
		Easting : 815122.39 US ft	Longitude : -103° 26' 59.74"	
	Elevation above Mean Sea Level: 3213.00 US ft			
Comment :				
Slot Name Mean Green 22 Fed 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 372838.68 US ft	Latitude : 32°1'18.97"	
	+E / -W : 0.00 US ft	Easting : 815122.39 US ft	Longitude : -103°26'59.74"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3213.00 US ft				
Comment :				
Well Name Mean Green 22 Fed 1H ST01	Type : Sidetrack	UWI :	Plan : P1:V1	
	Parent : Mean Green 22 Fed 1H ST00	Tie Point Method : MD	Tie Point : 8611.00 US ft	
	Rig Height <i>Kelly Bushing</i> : 28.00 US ft	Comment :		
	Relative to Mean Sea Level: 3241.00 US ft			
	Closure Distance : 4856.04 US ft	Closure Azimuth : 357.545°		
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 0.00°	
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48149.0nT	Dec : 7.26°	Dip : 59.93°
	Date : 15/Nov/2014			

Target Set

Name : Mean Green 22 Fed 1H
Number of Targets : 2
Com 1H

Comment :

Target Name: PBHL 1H Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S : 7490.29US ft	Northing : 380328.97 US ft	Latitude : 32°2'33.11"
	+E / -W : -207.04 US ft	Easting : 814915.35US ft	Longitude : -103°27'1.43"
	TVD (Kelly Bushing) : 9144.25 US ft		
Orientation Azimuth : 0.03°			
Inclination : 1.00°			
Dimensions Length : 13834.00 US ft			
Breadth : 50.00 US ft			
Height : 20.00 US ft			

5D Plan Report

Target Name: LP	Position (Relative to Slot centre)		
	+N / -S : 607.09US ft	Northing : 373445.77 US ft	Latitude : 32°1'25.00"
Shape: Cuboid	+E / -W : -208.76 US ft	Easting : 814913.63US ft	Longitude : -103°27'2.11"
	TVD (Kelly Bushing) : 9264.42 US ft		
	Orientation	Azimuth : 0.00°	Inclination : 1.00°
	Dimensions	Length : 2400.00 US ft	Breadth : 50.00 US ft
			Height : 20.00 US.ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	B. Rate (°/100 US ft)	T. Rate (°/100 US ft)	T. Face (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	0.80	46.88	147.00	0.70	0.75	0.70	0.54	0.54	0.00	46.88	First Rig Svy
274.00	0.60	94.25	273.99	1.26	2.06	1.26	0.47	-0.16	37.30	131.72	
329.00	0.79	95.49	328.98	1.20	2.72	1.20	0.35	0.35	2.25	5.15	
419.00	0.70	108.19	418.98	0.97	3.86	0.97	0.21	-0.10	14.11	124.84	
509.00	0.70	133.06	508.97	0.42	4.79	0.42	0.33	0.00	27.63	102.43	
597.00	0.88	129.06	596.96	-0.37	5.71	-0.37	0.21	0.20	-4.55	340.96	
692.00	1.19	144.88	691.94	-1.64	6.84	-1.64	0.44	0.33	16.65	50.76	
814.00	1.00	136.27	813.92	-3.44	8.30	-3.44	0.21	-0.16	-7.06	216.64	
904.00	1.01	168.79	903.91	-4.79	9.00	-4.79	0.63	0.01	36.13	105.28	
955.00	1.11	168.65	954.90	-5.71	9.19	-5.71	0.20	0.20	-0.27	358.45	Last Rig Svy
1139.00	0.74	172.35	1138.88	-8.64	9.69	-8.64	0.20	-0.20	2.01	172.68	First Wft Svy
1233.00	0.63	182.22	1232.87	-9.76	9.76	-9.76	0.17	-0.12	10.50	137.85	
1328.00	0.51	188.74	1327.86	-10.70	9.67	-10.70	0.14	-0.13	6.86	154.84	
1422.00	0.43	192.23	1421.86	-11.45	9.53	-11.45	0.09	-0.09	3.71	162.05	
1517.00	0.40	194.42	1516.86	-12.12	9.37	-12.12	0.04	-0.03	2.31	153.22	
1612.00	0.40	189.65	1611.86	-12.77	9.24	-12.77	0.04	0.00	-5.02	267.62	
1706.00	0.55	173.02	1705.85	-13.54	9.24	-13.54	0.22	0.16	-17.69	308.90	
1801.00	0.35	164.36	1800.85	-14.28	9.37	-14.28	0.22	-0.21	-9.12	194.49	
1896.00	0.36	162.51	1895.85	-14.84	9.54	-14.84	0.02	0.01	-1.95	310.17	
1990.00	0.43	153.32	1989.85	-15.44	9.78	-15.44	0.10	0.07	-9.78	313.20	
2085.00	0.49	147.44	2084.84	-16.10	10.16	-16.10	0.08	0.06	-6.19	318.84	
2180.00	0.56	130.39	2179.84	-16.74	10.74	-16.74	0.18	0.07	-17.95	285.45	
2274.00	0.69	124.47	2273.83	-17.36	11.55	-17.36	0.15	0.14	-6.30	330.60	
2368.00	0.88	111.34	2367.83	-17.94	12.69	-17.94	0.28	0.20	-13.97	309.88	
2463.00	1.04	98.81	2462.81	-18.34	14.22	-18.34	0.28	0.17	-13.19	300.94	
2558.00	1.38	89.53	2557.79	-18.46	16.22	-18.46	0.41	0.36	-9.77	325.35	
2653.00	1.48	85.26	2652.76	-18.35	18.59	-18.35	0.15	0.11	-4.49	311.03	
2747.00	0.82	91.12	2746.74	-18.26	20.47	-18.26	0.71	-0.70	6.23	172.82	
2841.00	0.60	104.93	2840.73	-18.40	21.62	-18.40	0.29	-0.23	14.69	148.89	
2936.00	0.63	92.51	2935.73	-18.55	22.62	-18.55	0.14	0.03	-13.07	276.42	
3030.00	0.85	94.37	3029.72	-18.63	23.83	-18.63	0.24	0.23	1.98	7.16	
3125.00	1.15	91.70	3124.71	-18.71	25.48	-18.71	0.32	0.32	-2.81	349.83	
3219.00	1.61	81.66	3218.68	-18.55	27.73	-18.55	0.55	0.49	-10.68	327.19	
3314.00	1.41	73.17	3313.65	-18.02	30.17	-18.02	0.32	-0.21	-8.94	224.01	
3409.00	0.69	14.12	3408.63	-17.12	31.43	-17.12	1.27	-0.76	-62.16	209.29	
3503.00	1.06	6.54	3502.62	-15.71	31.67	-15.71	0.41	0.39	-8.06	338.81	
3598.00	1.09	28.21	3597.60	-14.04	32.20	-14.04	0.43	0.03	22.81	96.66	
3693.00	1.44	12.16	3692.58	-12.08	32.87	-12.08	0.52	0.37	-16.89	306.44	
3788.00	0.66	7.47	3787.57	-10.37	33.20	-10.37	0.83	-0.82	-4.94	183.95	
3882.00	0.42	353.06	3881.56	-9.49	33.23	-9.49	0.29	-0.26	-15.33	202.43	
3977.00	0.85	29.92	3976.56	-8.53	33.54	-8.53	0.60	0.45	38.80	62.97	

5D 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 (°/100 US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
4072.00	0.70	355.00	4071.55	-7.34	33.84	-7.34	0.51	-0.16	-36.76	235.44	
4166.00	1.01	265.78	4165.54	-6.83	32.96	-6.83	1.30	0.33	-94.91	235.81	
4261.00	1.21	264.35	4260.52	-6.99	31.13	-6.99	0.21	0.21	-1.51	351.40	
4355.00	0.95	265.04	4354.51	-7.16	29.36	-7.16	0.28	-0.28	0.73	177.48	
4450.00	0.97	275.29	4449.49	-7.15	27.78	-7.15	0.18	0.02	10.79	88.50	
4544.00	0.64	281.26	4543.48	-6.98	26.47	-6.98	0.36	-0.35	6.35	168.71	
4639.00	0.42	336.94	4638.48	-6.55	25.81	-6.55	0.56	-0.23	58.61	139.29	
4734.00	0.30	43.05	4733.48	-6.05	25.85	-6.05	0.43	-0.13	69.59	137.42	
4828.00	0.49	64.25	4827.48	-5.70	26.38	-5.70	0.25	0.20	22.55	48.49	
4923.00	0.66	80.18	4922.47	-5.43	27.28	-5.43	0.24	0.18	16.77	51.39	
5017.00	1.07	92.10	5016.46	-5.37	28.69	-5.37	0.47	0.44	12.68	29.73	
5112.00	1.37	94.15	5111.44	-5.48	30.71	-5.48	0.32	0.32	2.16	9.30	
5206.00	1.34	90.26	5205.41	-5.57	32.93	-5.57	0.10	-0.03	-4.14	250.00	
5226.00	1.35	90.14	5225.41	-5.57	33.40	-5.57	0.05	0.05	-0.60	344.21	
5394.00	1.12	84.11	5393.37	-5.41	37.01	-5.41	0.16	-0.14	-3.59	206.48	
5488.00	0.35	193.40	5487.36	-5.59	37.86	-5.59	1.36	-0.82	116.27	165.03	
5583.00	0.71	200.85	5582.36	-6.42	37.58	-6.42	0.39	0.38	7.84	14.58	
5678.00	0.59	180.07	5677.35	-7.46	37.37	-7.46	0.28	-0.13	-21.87	232.89	
5773.00	1.14	246.11	5772.34	-8.33	36.51	-8.33	1.10	0.58	69.52	96.95	
5867.00	1.33	244.17	5866.32	-9.19	34.67	-9.19	0.21	0.20	-2.06	346.62	
5962.00	1.23	239.73	5961.30	-10.18	32.80	-10.18	0.15	-0.11	-4.67	222.56	
6057.00	1.29	244.51	6056.27	-11.16	30.95	-11.16	0.13	0.06	5.03	62.68	
6151.00	1.14	245.91	6150.25	-11.99	29.14	-11.99	0.16	-0.16	1.49	169.50	
6246.00	1.12	238.74	6245.23	-12.86	27.49	-12.86	0.15	-0.02	-7.55	258.38	
6340.00	1.19	239.79	6339.21	-13.83	25.86	-13.83	0.08	0.07	1.12	17.35	
6435.00	1.16	232.21	6434.19	-14.91	24.25	-14.91	0.17	-0.03	-7.98	255.30	
6530.00	1.07	239.83	6529.18	-15.95	22.72	-15.95	0.18	-0.09	8.02	125.03	
6624.00	1.19	243.22	6623.16	-16.83	21.09	-16.83	0.15	0.13	3.61	30.82	
6719.00	1.28	239.57	6718.14	-17.81	19.29	-17.81	0.13	0.09	-3.84	317.01	
6813.00	1.22	244.34	6812.11	-18.78	17.49	-18.78	0.13	-0.06	5.07	122.34	
6908.00	1.19	237.17	6907.09	-19.75	15.75	-19.75	0.16	-0.03	-7.55	255.18	
7002.00	1.29	237.13	7001.07	-20.85	14.04	-20.85	0.11	0.11	-0.04	359.48	
7097.00	0.56	293.38	7096.06	-21.25	12.71	-21.25	1.14	-0.77	59.21	154.56	
7191.00	0.41	304.92	7190.06	-20.88	12.02	-20.88	0.19	-0.16	12.28	152.61	
7286.00	0.55	322.99	7285.05	-20.32	11.46	-20.32	0.22	0.15	19.02	56.51	
7381.00	0.45	299.52	7380.05	-19.77	10.86	-19.77	0.24	-0.11	-24.71	232.56	
7475.00	0.41	264.44	7474.05	-19.62	10.21	-19.62	0.28	-0.04	-37.32	244.09	
7570.00	0.91	356.55	7569.04	-18.90	9.82	-18.90	1.07	0.53	96.96	116.00	
7665.00	0.90	0.34	7664.03	-17.40	9.78	-17.40	0.06	-0.01	3.99	101.38	
7759.00	0.63	359.81	7758.02	-16.14	9.79	-16.14	0.29	-0.29	-0.56	181.24	
7854.00	0.56	356.65	7853.02	-15.16	9.76	-15.16	0.08	-0.07	-3.33	203.54	
7949.00	0.38	318.72	7948.01	-14.46	9.52	-14.46	0.37	-0.19	-39.93	221.91	
8043.00	0.38	224.71	8042.01	-14.45	9.10	-14.45	0.59	0.00	-100.01	223.00	
8138.00	0.50	190.53	8137.01	-15.08	8.80	-15.08	0.30	0.13	-35.98	276.83	
8232.00	0.56	164.86	8231.01	-15.92	8.84	-15.92	0.26	0.06	-27.31	271.12	
8327.00	0.75	156.60	8326.00	-16.94	9.21	-16.94	0.22	0.20	-8.69	329.40	
8422.00	0.72	147.87	8420.99	-18.02	9.78	-18.02	0.12	-0.03	-9.19	250.67	
8516.00	0.87	150.96	8514.98	-19.14	10.44	-19.14	0.17	0.16	3.29	17.50	
8611.00	0.88	137.81	8609.97	-20.31	11.28	-20.31	0.21	0.01	-13.84	266.26	Tie On Wft ST00/Top WS
8626.00	1.12	319.01	8624.97	-20.29	11.26	-20.29	13.33	1.60	-1192.02	180.67	Btm WS
8631.00	1.12	319.01	8629.97	-20.22	11.19	-20.22	0.00	0.00	0.00	0.00	KOP
8994.53	36.20	319.01	8969.03	66.21	-63.91	66.21	9.65	9.65	0.00	0.00	Build/Turn
9662.21	91.00	0.01	9264.41	607.07	-208.78	607.07	9.65	8.21	6.14	46.65	LP
13907.37	91.00	0.01	9190.32	4851.58	-208.04	4851.58	0.00	0.00	0.00	0.00	PBHL 1H

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)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
8600.00	0.88	139.31	8598.97	-20.19	11.17	-20.19	0.00	372818.49	815133.56	
8611.00	0.88	137.81	8609.97	-20.31	11.28	-20.31	0.21	372818.37	815133.67	Tie On Wft ST00/Top WS
8626.00	1.12	319.01	8624.97	-20.29	11.26	-20.29	13.33	372818.39	815133.65	Btm WS
8631.00	1.12	319.01	8629.97	-20.22	11.19	-20.22	0.00	372818.46	815133.58	KOP
8700.00	7.78	319.01	8698.72	-16.18	7.69	-16.18	9.65	372822.50	815130.08	
8800.00	17.43	319.01	8796.20	0.27	-6.61	0.27	9.65	372838.95	815115.78	
8900.00	27.08	319.01	8888.64	28.82	-31.42	28.82	9.65	372867.50	815090.97	
8994.53	36.20	319.01	8969.03	66.21	-63.91	66.21	9.65	372904.89	815058.48	Build/Turn
9000.00	36.56	319.65	8973.44	68.68	-66.03	68.68	9.65	372907.36	815056.36	
9100.00	43.73	329.72	9049.91	121.35	-102.82	121.35	9.65	372960.03	815019.57	
9200.00	51.57	337.36	9117.28	187.50	-135.40	187.50	9.65	373026.18	814986.99	
9300.00	59.80	343.47	9173.64	265.27	-162.84	265.27	9.65	373103.95	814959.55	
9400.00	68.28	348.61	9217.40	352.43	-184.36	352.43	9.65	373191.11	814938.03	
9500.00	76.89	353.18	9247.32	446.54	-199.35	446.54	9.65	373285.22	814923.04	
9600.00	85.58	357.43	9262.55	544.93	-207.39	544.93	9.65	373383.61	814915.00	
9662.21	91.00	0.01	9264.41	607.07	-208.78	607.07	9.65	373445.75	814913.61	LP
9700.00	91.00	0.01	9263.75	644.85	-208.77	644.85	0.00	373483.53	814913.62	
9800.00	91.00	0.01	9262.01	744.84	-208.76	744.84	0.00	373583.52	814913.63	
9900.00	91.00	0.01	9260.26	844.82	-208.74	844.82	0.00	373683.50	814913.65	
10000.00	91.00	0.01	9258.52	944.80	-208.72	944.80	0.00	373783.48	814913.67	
10100.00	91.00	0.01	9256.77	1044.79	-208.70	1044.79	0.00	373883.47	814913.69	
10200.00	91.00	0.01	9255.02	1144.77	-208.69	1144.77	0.00	373983.45	814913.70	
10300.00	91.00	0.01	9253.28	1244.76	-208.67	1244.76	0.00	374083.44	814913.72	
10400.00	91.00	0.01	9251.53	1344.74	-208.65	1344.74	0.00	374183.42	814913.74	
10500.00	91.00	0.01	9249.79	1444.73	-208.63	1444.73	0.00	374283.41	814913.76	
10600.00	91.00	0.01	9248.04	1544.71	-208.62	1544.71	0.00	374383.39	814913.77	
10700.00	91.00	0.01	9246.30	1644.70	-208.60	1644.70	0.00	374483.38	814913.79	
10800.00	91.00	0.01	9244.55	1744.68	-208.58	1744.68	0.00	374583.36	814913.81	
10900.00	91.00	0.01	9242.81	1844.67	-208.56	1844.67	0.00	374683.35	814913.83	
11000.00	91.00	0.01	9241.06	1944.65	-208.55	1944.65	0.00	374783.33	814913.84	
11100.00	91.00	0.01	9239.32	2044.64	-208.53	2044.64	0.00	374883.32	814913.86	
11200.00	91.00	0.01	9237.57	2144.62	-208.51	2144.62	0.00	374983.30	814913.88	
11300.00	91.00	0.01	9235.83	2244.61	-208.49	2244.61	0.00	375083.29	814913.90	
11400.00	91.00	0.01	9234.08	2344.59	-208.48	2344.59	0.00	375183.27	814913.91	
11500.00	91.00	0.01	9232.34	2444.58	-208.46	2444.58	0.00	375283.26	814913.93	
11600.00	91.00	0.01	9230.59	2544.56	-208.44	2544.56	0.00	375383.24	814913.95	
11700.00	91.00	0.01	9228.85	2644.55	-208.42	2644.55	0.00	375483.23	814913.97	
11800.00	91.00	0.01	9227.10	2744.53	-208.41	2744.53	0.00	375583.21	814913.98	
11900.00	91.00	0.01	9225.36	2844.52	-208.39	2844.52	0.00	375683.20	814914.00	
12000.00	91.00	0.01	9223.61	2944.50	-208.37	2944.50	0.00	375783.18	814914.02	
12100.00	91.00	0.01	9221.87	3044.49	-208.35	3044.49	0.00	375883.17	814914.04	
12200.00	91.00	0.01	9220.12	3144.47	-208.34	3144.47	0.00	375983.15	814914.05	
12300.00	91.00	0.01	9218.37	3244.45	-208.32	3244.45	0.00	376083.13	814914.07	
12400.00	91.00	0.01	9216.63	3344.44	-208.30	3344.44	0.00	376183.12	814914.09	
12500.00	91.00	0.01	9214.88	3444.42	-208.28	3444.42	0.00	376283.10	814914.11	
12600.00	91.00	0.01	9213.14	3544.41	-208.27	3544.41	0.00	376383.09	814914.12	
12700.00	91.00	0.01	9211.39	3644.39	-208.25	3644.39	0.00	376483.07	814914.14	
12800.00	91.00	0.01	9209.65	3744.38	-208.23	3744.38	0.00	376583.06	814914.16	
12900.00	91.00	0.01	9207.90	3844.36	-208.21	3844.36	0.00	376683.04	814914.18	
13000.00	91.00	0.01	9206.16	3944.35	-208.20	3944.35	0.00	376783.03	814914.19	
13100.00	91.00	0.01	9204.41	4044.33	-208.18	4044.33	0.00	376883.01	814914.21	
13200.00	91.00	0.01	9202.67	4144.32	-208.16	4144.32	0.00	376983.00	814914.23	
13300.00	91.00	0.01	9200.92	4244.30	-208.14	4244.30	0.00	377082.98	814914.25	
13400.00	91.00	0.01	9199.18	4344.29	-208.13	4344.29	0.00	377182.97	814914.26	
13500.00	91.00	0.01	9197.43	4444.27	-208.11	4444.27	0.00	377282.95	814914.28	
13600.00	91.00	0.01	9195.69	4544.26	-208.09	4544.26	0.00	377382.94	814914.30	
13700.00	91.00	0.01	9193.94	4644.24	-208.08	4644.24	0.00	377482.92	814914.31	
13800.00	91.00	0.01	9192.20	4744.23	-208.06	4744.23	0.00	377582.91	814914.33	

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)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
13900.00	91.00	0.01	9190.45	4844.21	-208.04	4844.21	0.00	377682.89	814914.35	
13907.37	91.00	0.01	9190.32	4851.58	-208.04	4851.58	0.00	377690.26	814914.35	PBHL 1H

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5D Anti-Collision Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*

Site Name: *Mean Green 22,27 Fed 1H Pad*

Well Name: *Mean Green 22 Fed 1H ST01*

06 November 2014



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Mean Green 22 Fed 1H ST01

Field Name Lea Co, NM Nad 83 NMEZ	Map Units : US ft Company Name : Devon Energy		
	Vertical Reference Datum (VRD) : Mean Sea Level		
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)		
	Comment :		
Site Name Mean Green 22,27 Fed 1H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.47
	Position	Northing : 372838.68 US ft Easting : 815122.39 US ft	Latitude : 32° 1' 18.97" Longitude : -103° 26' 59.74"
	Elevation above Mean Sea Level: 3213.00 US ft		
	Comment :		
Slot Name Mean Green 22 Fed 1H	Position (Offsets relative to Site Centre)		
	+N / -S : 0.00 US ft +E / -W : 0.00 US ft	Northing : 372838.68 US ft Easting : 815122.39 US ft	Latitude : 32° 1' 18.97" Longitude : -103° 26' 59.74"
	Slot TVD Reference : Ground Elevation		
	Elevation above Mean Sea Level : 3213.00 US ft		
	Comment :		
Well Name Mean Green 22 Fed 1H ST01	Type : Sidetrack UWI : Plan : Working Plan		
	Parent : Mean Green 22 Fed 1H ST00		Tie Point Method : MD Tie Point : 8611.00 US ft
	Rig Height : Kelly Bushing : 28.00 US ft Relative to Mean Sea Level: 3241.00 US ft		
	Comment :		
	Closure Distance : 4856.04 US ft		Closure Azimuth : 357.545°
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 0.00°
	Magnetic Parameters		
	Model : BGGM	Field Strength : 48149.0nT	Dec : 7.26° Dip : 59.93° Date : 15/Nov/2014

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Mean Green 22 Fed 1H ST01 (p)	0.00	13907.37	100.00	2

Secondary Well Names

Mean Green 27 Fed 1H (s)
 Mean Green 22 Fed 1H ST00 (s)

Anti Collision Report Terminology

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

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

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

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

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

AG Filter Info: The following filter(s) have been applied: Separation Factor.

5D Anti-Collision Report

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

Anti-Collision Proximity Summary (TVD relative to Kelly Bushing)

SP	Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
	Mean Green 22 Fed 1H ST00 (s)	8611.00	8611.00	8609.97	0.00	-1.60	0.00	SF (Hi)
	Mean Green 27 Fed 1H (s)	8678.77	8776.82	8677.64	490.85	457.74	14.83	

Primary Well s Mean Green 22 Fed 1H ST01 (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)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
8611.00	8609.97	35.67	17.93	17.92	Mean Green 22 Fed 1H ST00 (s)	0.00	-1.60	0.00	SF (Hi)
8711.00	8709.61	180.42	18.13	17.96	Mean Green 22 Fed 1H ST00 (s)	8.53	-27.39	0.24	SF (Hi)
8811.00	8806.66	181.61	18.33	17.78	Mean Green 22 Fed 1H ST00 (s)	26.37	-9.67	0.73	SF (Hi)
8911.00	8898.39	182.34	18.55	17.36	Mean Green 22 Fed 1H ST00 (s)	45.16	9.28	1.26	SF (Med)
9011.00	8982.23	180.74	18.81	16.74	Mean Green 22 Fed 1H ST00 (s)	63.74	28.58	1.81	SF (Lo)
9111.00	9057.80	179.50	19.15	16.17	Mean Green 22 Fed 1H ST00 (s)	77.19	43.21	2.27	
9211.00	9124.05	186.62	19.56	15.58	Mean Green 22 Fed 1H ST00 (s)	86.59	53.54	2.62	
9311.00	9179.10	197.85	20.05	14.95	Mean Green 22 Fed 1H ST00 (s)	95.35	62.51	2.90	
9411.00	9221.39	209.90	20.65	14.39	Mean Green 22 Fed 1H ST00 (s)	103.13	68.87	3.01	
9511.00	9249.73	216.05	21.35	13.98	Mean Green 22 Fed 1H ST00 (s)	108.41	73.07	3.07	
9611.00	9263.31	215.75	22.11	13.83	Mean Green 22 Fed 1H ST00 (s)	110.36	74.99	3.12	
9711.00	9263.56	212.72	22.95	14.02	Mean Green 22 Fed 1H ST00 (s)	110.70	75.50	3.15	
9811.00	9261.81	209.83	24.02	14.26	Mean Green 22 Fed 1H ST00 (s)	109.14	73.76	3.08	
9911.00	9260.07	205.81	25.16	14.54	Mean Green 22 Fed 1H ST00 (s)	107.27	72.10	3.05	
10011.00	9258.32	202.51	26.35	14.84	Mean Green 22 Fed 1H ST00 (s)	105.66	70.55	3.01	
10111.00	9256.58	200.02	27.60	15.18	Mean Green 22 Fed 1H ST00 (s)	102.76	67.36	2.90	
10211.00	9254.83	197.31	28.90	15.54	Mean Green 22 Fed 1H ST00 (s)	100.04	64.47	2.81	
10311.00	9253.09	194.18	30.24	15.93	Mean Green 22 Fed 1H ST00 (s)	97.90	62.27	2.75	
10411.00	9251.34	190.55	31.63	16.35	Mean Green 22 Fed 1H ST00 (s)	96.29	60.58	2.70	
10511.00	9249.60	187.29	33.07	16.78	Mean Green 22 Fed 1H ST00 (s)	95.71	59.69	2.66	
10611.00	9247.85	184.41	34.58	17.24	Mean Green 22 Fed 1H ST00 (s)	96.83	60.24	2.65	
10711.00	9246.11	182.06	36.12	17.71	Mean Green 22 Fed 1H ST00 (s)	99.09	61.75	2.65	

5D Anti-Collision Report

Primary Well : Mean Green 22 Fed 1H ST01 (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)	Nearest Well	CC (US ft)	ES (US ft)	SF	Risk
10811.00	9244.36	182.10	37.69	18.19	Mean Green 22 Fed 1H ST00 (s)	99.49	61.21	2.60	
10911.00	9242.62	183.18	39.27	18.68	Mean Green 22 Fed 1H ST00 (s)	100.47	61.13	2.55	
11011.00	9240.87	183.82	40.87	19.22	Mean Green 22 Fed 1H ST00 (s)	101.34	60.82	2.50	
11111.00	9239.13	184.07	42.49	19.74	Mean Green 22 Fed 1H ST00 (s)	103.22	61.61	2.48	
11211.00	9237.38	183.88	44.13	20.25	Mean Green 22 Fed 1H ST00 (s)	120.49	78.50	2.87	
11311.00	9235.64	183.88	45.78	20.85	Mean Green 22 Fed 1H ST00 (s)	191.32	150.29	4.66	
11411.00	9233.89	183.88	47.44	21.43	Mean Green 22 Fed 1H ST00 (s)	280.52	239.93	6.91	

Secondary Well : Mean Green 22 Fed 1H ST00 (s) (TVD Relative to Kelly Bushing (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
8611.00	8609.97	8611.00	35.67	16.02	16.01	0.00	-1.60	0.00	SF (Hi)
8711.00	8709.53	8710.57	180.42	16.23	16.22	8.53	-27.39	0.24	SF (Hi)
8811.00	8810.21	8811.53	181.61	16.43	16.33	26.37	-9.67	0.73	SF (Hi)
8911.00	8911.64	8915.55	182.34	16.64	16.28	45.16	9.28	1.26	SF (Med)
9011.00	9011.74	9023.86	180.74	16.88	16.04	63.74	28.58	1.81	SF (Lo)
9111.00	9105.82	9136.67	179.50	17.18	15.56	77.19	43.21	2.27	
9211.00	9187.19	9250.57	186.62	17.63	15.04	86.59	53.54	2.62	
9311.00	9254.53	9368.47	197.85	18.32	14.39	95.35	62.51	2.90	
9411.00	9302.07	9487.61	209.90	19.17	14.07	103.13	68.87	3.01	
9511.00	9334.55	9610.02	216.05	19.98	14.03	108.41	73.07	3.07	
9611.00	9352.74	9732.41	215.75	20.68	14.10	110.36	74.99	3.12	
9711.00	9356.67	9842.03	212.72	21.58	14.29	110.70	75.50	3.15	
9811.00	9356.44	9943.46	209.83	22.52	14.56	109.14	73.76	3.08	
9911.00	9356.58	10043.83	205.81	23.53	14.85	107.27	72.10	3.05	
10011.00	9355.84	10144.98	202.51	24.74	15.17	105.66	70.55	3.01	
10111.00	9353.01	10245.56	200.02	26.02	15.52	102.76	67.36	2.90	
10211.00	9350.26	10344.94	197.31	27.26	15.88	100.04	64.47	2.81	
10311.00	9347.94	10444.64	194.18	28.47	16.27	97.90	62.27	2.75	
10411.00	9345.96	10544.16	190.55	29.74	16.69	96.29	60.58	2.70	
10511.00	9344.52	10643.00	187.29	31.11	17.11	95.71	59.69	2.66	
10611.00	9344.40	10741.35	184.41	32.42	17.56	96.83	60.24	2.65	
10711.00	9345.13	10841.55	182.06	33.87	18.03	99.09	61.75	2.65	
10811.00	9343.77	10943.06	182.10	35.56	18.49	99.49	61.21	2.60	
10911.00	9342.93	11042.38	183.18	37.07	19.03	100.47	61.13	2.55	
11011.00	9341.98	11142.11	183.82	38.57	19.56	101.34	60.82	2.50	
11111.00	9342.08	11241.02	184.07	40.05	20.09	103.22	61.61	2.48	
11211.00	9342.41	11283.00	183.88	40.64	20.31	120.49	78.50	2.87	
11311.00	9342.41	11283.00	183.88	40.64	20.31	191.32	150.29	4.66	
11411.00	9342.41	11283.00	183.88	40.64	20.31	280.52	239.93	6.91	