

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OBBS OCD
Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS FEB 19 2014
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. RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. MEAN GREEN 27 FED 1H
2. Name of Operator DEVON ENERGY PRODUCTION CO LP		9. API Well No. 30-025-41433-00-X1
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405.552.7848	10. Field and Pool, or Exploratory UNDESIGNATED
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T26S R34E SESE 100FSL 480FEL		11. County or Parish, and State LEA COUNTY, NM

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 recompletable 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 recompletable 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 respectfully requests to modify the approved permit as follows:

?Change the formation from a 3rd Bone Spring horizontal to a Delaware vertical.

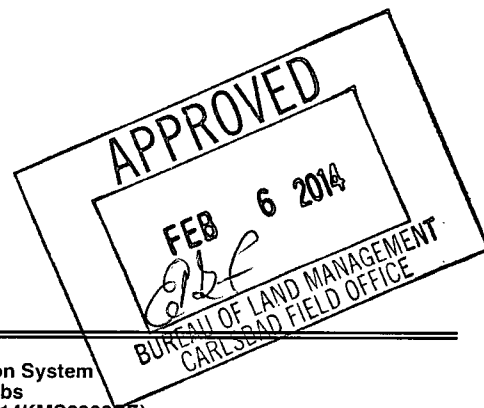
?We have drilled a 17 ?? hole to 3578? and we are going to drill a 12 ?? hole to 5300?. (Verbal approval give by Ed Fernandez, 2/5/14.)

?Change the 13 3/8? 1st intermediate string to HCK-55 40# 9-5/8? intermediate set at 5300?.

?Change the 9 5/8? 2nd intermediate string to P-110 29# ?? production casing set at 9478?.

?Max TVD of well will be 9450?.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**



14. I hereby certify that the foregoing is true and correct. Electronic Submission #234652 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by KURT SIMMONS on 02/06/2014 (14KMS2902SE)	
Name (Printed/Typed) DAVID H COOK	Title
Signature (Electronic Submission)	Date 02/05/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 02/06/2014
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 Hobbs

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 ****

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FEB 20 2014

Additional data for EC transaction #234652 that would not fit on the form

32. Additional remarks, continued

?Change the BHL from 330 FSL and 330 FEL of Sec 27 26S-34E to 350 FNL and 350 FEL of Sec 27 26S-34E; (revised C-102 will be submitted subsequent to this filing.)

?The 26? hole and 20? casing have already been set.

Please see the attached revised casing and cement programs & directional survey.

1. 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 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). 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.

2. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
26"	0 - 934'	20"	0 - 934'	94	BTC	J-55	1.24	5.05	15.97
12-1/4"	934-5300'	9-5/8"	0-9478'	40	BTC	HCK-55	1.53	1.43	4.37
8-3/4"	5300-9478'	7"	0-9478'	29	BTC	P-110	1.92	2.54	3.48

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 9450'

3. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 934'	8.4-8.6	30-34	N/C	FW
934-5300'	9.8-10.0	28-32	N/C	Brine
5300-9478'	8.6-9.0	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.

4. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
9-5/8" Intermediate	2990	12.9	9.81	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 + 0.4% HR-800 + 70.9 % Fresh Water
	310	14.8	6.32	1.33	Tail	Class C Cement + 0.2% HR-800 + 63.5% Fresh Water
7" Casing	280	11.0	15.23	2.71	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	170	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 + 61.6% Fresh Water

TOC for all Strings:

Intermediate @ 0'
 Production @ 4700'

Notes:

- Intermediate 25%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Mean Green) Sec 22, T26S, R34E	Wellbore	No.1H PWB
Facility	Mean Green 27 Fed No.1H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999995	Report Generated	2/5/2014 at 2:32:49 PM
Convergence at slot	0.47° East	Database/Source file	MidlandDB/No.1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	814852.80	372837.80	32°01'18.986"N	103°27'02.870"W
Facility Reference Pt			814852.80	372837.80	32°01'18.986"N	103°27'02.870"W
Field Reference Pt			814852.80	372837.80	32°01'18.986"N	103°27'02.870"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.1H SHL (KB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (KB) to Mean Sea Level	3240.50ft
Vertical Reference Pt	Rig on No.1H SHL (KB)	Rig on No.1H SHL (KB) to Mud Line at Slot (No.1H SHL)	25.00ft
MD Reference Pt	Rig on No.1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	163.42°



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WELLPATH DATA (105 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8391.00†	6.942	172.603	8365.81	401.36	-381.57	124.96	814977.76	372456.24	32°01'15.200"N	103°27'01.454"W	0.00	
8491.00†	6.942	172.603	8465.08	413.29	-393.55	126.51	814979.31	372444.25	32°01'15.081"N	103°27'01.438"W	0.00	
8591.00†	6.942	172.603	8564.35	425.22	-405.54	128.07	814980.87	372432.26	32°01'14.962"N	103°27'01.421"W	0.00	
8691.00†	6.942	172.603	8663.61	437.15	-417.53	129.63	814982.43	372420.28	32°01'14.844"N	103°27'01.404"W	0.00	
8781.78	6.942	172.603	8753.73	447.99	-428.41	131.04	814983.84	372409.40	32°01'14.736"N	103°27'01.388"W	0.00	Hold
8791.00†	6.758	172.603	8762.88	449.07	-429.50	131.18	814983.98	372408.31	32°01'14.725"N	103°27'01.387"W	2.00	
8891.00†	4.758	172.603	8862.37	458.98	-439.45	132.47	814985.27	372398.36	32°01'14.627"N	103°27'01.373"W	2.00	
8991.00†	2.758	172.603	8962.15	465.45	-445.95	133.32	814986.11	372391.86	32°01'14.562"N	103°27'01.364"W	2.00	
9091.00†	0.758	172.603	9062.10	468.47	-448.99	133.71	814986.51	372388.82	32°01'14.532"N	103°27'01.359"W	2.00	
9128.90	0.000	172.603	9100.00†	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	2.00	Drop
9191.00†	0.000	172.603	9162.10	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	0.00	
9291.00†	0.000	172.603	9262.10	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	0.00	
9391.00†	0.000	172.603	9362.10	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	0.00	
9431.90†	0.000	172.603	9403.00	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	0.00	Bone Spring
9478.90	0.000	172.603	9450.00	468.72	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	0.00	No.1 PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.1H PBHL (Rev-1)	9128.90	9100.00	-449.24	133.74	814986.54	372388.57	32°01'14.530"N	103°27'01.359"W	point
No.1H PBHL		12530.00	-5048.63	-138.78	814714.03	367789.21	32°00'29.040"N	103°27'04.960"W	rectangle

SURVEY PROGRAM - Ref Wellbore: No.1H PWB Ref Wellpath: Rev-C.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	3491.00	ISCWSA MWD, Rev. 2 (Standard)		No.1H AWB
3491.00	9478.90	NaviTrak (Standard)		No.1H PWB



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4591.00†	0.000	172.603	4586.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4691.00†	0.000	172.603	4686.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4791.00†	0.000	172.603	4786.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4891.00†	0.000	172.603	4886.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4991.00†	0.000	172.603	4986.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
5091.00†	0.000	172.603	5086.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
5104.95†	0.000	172.603	5100.00	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	Base of Salt
5191.00†	0.000	172.603	5186.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
5291.00†	0.000	172.603	5286.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
5325.95†	0.000	172.603	5321.00	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	Delaware
5361.95†	0.000	172.603	5357.00	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	Bell Canyon
5391.00†	0.000	172.603	5386.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
5400.00	0.000	172.603	5395.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	Est KOP
5491.00†	1.820	172.603	5486.03	66.58	-45.26	81.30	814934.10	372792.54	32°01'18.531"N	103°27'01.930"W	2.00	
5591.00†	3.820	172.603	5585.90	71.43	-50.14	81.93	814934.73	372787.66	32°01'18.483"N	103°27'01.923"W	2.00	
5691.00†	5.820	172.603	5685.55	79.73	-58.47	83.01	814935.81	372779.33	32°01'18.400"N	103°27'01.911"W	2.00	
5747.12	6.942	172.603	5741.32	85.88	-64.66	83.81	814936.61	372773.14	32°01'18.339"N	103°27'01.902"W	2.00	EOB
5791.00†	6.942	172.603	5784.88	91.12	-69.92	84.50	814937.30	372767.88	32°01'18.287"N	103°27'01.895"W	0.00	
5891.00†	6.942	172.603	5884.14	103.05	-81.90	86.05	814938.85	372755.90	32°01'18.168"N	103°27'01.878"W	0.00	
5991.00†	6.942	172.603	5983.41	114.98	-93.89	87.61	814940.41	372743.91	32°01'18.050"N	103°27'01.861"W	0.00	
6091.00†	6.942	172.603	6082.68	126.92	-105.88	89.17	814941.97	372731.92	32°01'17.931"N	103°27'01.844"W	0.00	
6191.00†	6.942	172.603	6181.94	138.85	-117.86	90.72	814943.52	372719.94	32°01'17.812"N	103°27'01.827"W	0.00	
6291.00†	6.942	172.603	6281.21	150.78	-129.85	92.28	814945.08	372707.95	32°01'17.693"N	103°27'01.810"W	0.00	
6375.41†	6.942	172.603	6365.00	160.85	-139.97	93.59	814946.39	372697.83	32°01'17.593"N	103°27'01.796"W	0.00	Cherry Canyon
6391.00†	6.942	172.603	6380.48	162.71	-141.84	93.83	814946.63	372695.97	32°01'17.575"N	103°27'01.793"W	0.00	
6491.00†	6.942	172.603	6479.74	174.65	-153.82	95.39	814948.19	372683.98	32°01'17.456"N	103°27'01.776"W	0.00	
6591.00†	6.942	172.603	6579.01	186.58	-165.81	96.95	814949.75	372671.99	32°01'17.337"N	103°27'01.759"W	0.00	
6691.00†	6.942	172.603	6678.28	198.51	-177.80	98.50	814951.30	372660.01	32°01'17.218"N	103°27'01.742"W	0.00	
6791.00†	6.942	172.603	6777.54	210.44	-189.78	100.06	814952.86	372648.02	32°01'17.100"N	103°27'01.725"W	0.00	
6891.00†	6.942	172.603	6876.81	222.37	-201.77	101.62	814954.41	372636.03	32°01'16.981"N	103°27'01.709"W	0.00	
6991.00†	6.942	172.603	6976.08	234.31	-213.75	103.17	814955.97	372624.05	32°01'16.862"N	103°27'01.692"W	0.00	
7091.00†	6.942	172.603	7075.34	246.24	-225.74	104.73	814957.53	372612.06	32°01'16.743"N	103°27'01.675"W	0.00	
7191.00†	6.942	172.603	7174.61	258.17	-237.73	106.28	814959.08	372600.07	32°01'16.625"N	103°27'01.658"W	0.00	
7291.00†	6.942	172.603	7273.88	270.10	-249.71	107.84	814960.64	372588.09	32°01'16.506"N	103°27'01.641"W	0.00	
7391.00†	6.942	172.603	7373.14	282.04	-261.70	109.40	814962.20	372576.10	32°01'16.387"N	103°27'01.624"W	0.00	
7491.00†	6.942	172.603	7472.41	293.97	-273.69	110.95	814963.75	372564.11	32°01'16.269"N	103°27'01.607"W	0.00	
7591.00†	6.942	172.603	7571.68	305.90	-285.67	112.51	814965.31	372552.13	32°01'16.150"N	103°27'01.590"W	0.00	
7691.00†	6.942	172.603	7670.94	317.83	-297.66	114.06	814966.86	372540.14	32°01'16.031"N	103°27'01.573"W	0.00	
7791.00†	6.942	172.603	7770.21	329.76	-309.65	115.62	814968.42	372528.16	32°01'15.912"N	103°27'01.556"W	0.00	
7891.00†	6.942	172.603	7869.48	341.70	-321.63	117.18	814969.98	372516.17	32°01'15.794"N	103°27'01.539"W	0.00	
7991.00†	6.942	172.603	7968.75	353.63	-333.62	118.73	814971.53	372504.18	32°01'15.675"N	103°27'01.522"W	0.00	
7992.26†	6.942	172.603	7970.00	353.78	-333.77	118.75	814971.55	372504.03	32°01'15.673"N	103°27'01.522"W	0.00	Brushy Canyon
8091.00†	6.942	172.603	8068.01	365.56	-345.61	120.29	814973.09	372492.20	32°01'15.556"N	103°27'01.505"W	0.00	
8191.00†	6.942	172.603	8167.28	377.49	-357.59	121.85	814974.64	372480.21	32°01'15.437"N	103°27'01.488"W	0.00	
8291.00†	6.942	172.603	8266.55	389.43	-369.58	123.40	814976.20	372468.22	32°01'15.319"N	103°27'01.471"W	0.00	



Planned Wellpath Report

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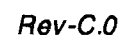


REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
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Facility	Mean Green 27 Fed No.1H		

WELLPATH DATA (105 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	161.000	0.00	0.00	0.00	0.00	814852.80	372837.80	32°01'18.986"N	103°27'02.870"W	0.00	
134.00	0.100	161.000	134.00	0.12	-0.11	0.04	814852.84	372837.69	32°01'18.985"N	103°27'02.869"W	0.07	
349.00	0.700	222.000	348.99	0.99	-1.26	-0.78	814852.02	372836.54	32°01'18.973"N	103°27'02.879"W	0.31	
624.00	2.700	208.000	623.86	6.48	-8.23	-4.94	814847.86	372829.57	32°01'18.905"N	103°27'02.928"W	0.74	
724.00	0.100	93.000	723.82	8.19	-10.32	-5.96	814846.84	372827.48	32°01'18.884"N	103°27'02.940"W	2.74	
934.00	0.100	108.000	933.82	8.35	-10.38	-5.61	814847.19	372827.42	32°01'18.883"N	103°27'02.936"W	0.01	
960.18†	0.682	204.152	960.00	8.48	-10.53	-5.65	814847.15	372827.27	32°01'18.882"N	103°27'02.936"W	2.67	Rustler
1092.00	4.200	211.000	1091.68	12.33	-15.39	-8.46	814844.34	372822.41	32°01'18.834"N	103°27'02.969"W	2.67	
1100.34†	4.127	211.224	1100.00	12.74	-15.91	-8.77	814844.03	372821.89	32°01'18.829"N	103°27'02.973"W	0.90	Top Salt
1184.00	3.400	214.000	1183.48	16.34	-20.54	-11.72	814841.08	372817.26	32°01'18.783"N	103°27'03.008"W	0.90	
1275.00	2.800	214.000	1274.35	19.46	-24.62	-14.47	814838.33	372813.18	32°01'18.743"N	103°27'03.040"W	0.66	
1454.00	2.800	213.000	1453.13	25.08	-31.91	-19.30	814833.51	372805.89	32°01'18.672"N	103°27'03.097"W	0.03	
1549.00	2.400	205.000	1548.03	28.07	-35.66	-21.40	814831.40	372802.14	32°01'18.635"N	103°27'03.122"W	0.57	
1644.00	2.400	130.000	1642.97	31.22	-38.74	-20.72	814832.08	372799.06	32°01'18.604"N	103°27'03.114"W	3.08	
1738.00	2.000	207.000	1736.92	34.05	-41.47	-19.95	814832.85	372796.33	32°01'18.577"N	103°27'03.105"W	2.93	
1833.00	1.700	210.000	1831.87	36.22	-44.16	-21.41	814831.39	372793.64	32°01'18.550"N	103°27'03.122"W	0.33	
1936.00	1.600	189.000	1934.83	38.57	-46.91	-22.40	814830.40	372790.89	32°01'18.523"N	103°27'03.134"W	0.59	
2030.00	1.700	174.000	2028.79	41.12	-49.59	-22.46	814830.34	372788.21	32°01'18.497"N	103°27'03.135"W	0.47	
2124.00	1.800	155.000	2122.75	43.95	-52.31	-21.69	814831.11	372785.49	32°01'18.470"N	103°27'03.126"W	0.62	
2219.00	1.800	148.000	2217.70	46.86	-54.93	-20.27	814832.53	372782.87	32°01'18.444"N	103°27'03.110"W	0.23	
2314.00	2.100	141.000	2312.65	49.91	-57.55	-18.38	814834.42	372780.25	32°01'18.418"N	103°27'03.089"W	0.40	
2503.00	3.000	107.000	2501.47	55.85	-61.69	-11.47	814841.33	372776.11	32°01'18.376"N	103°27'03.009"W	0.91	
2685.00	3.500	91.000	2683.18	60.16	-63.18	-1.36	814851.44	372774.62	32°01'18.361"N	103°27'02.891"W	0.57	
2779.00	3.900	97.000	2776.98	62.31	-63.62	4.68	814857.48	372774.18	32°01'18.356"N	103°27'02.821"W	0.59	
2875.00	3.400	91.000	2872.79	64.47	-64.06	10.77	814863.57	372773.74	32°01'18.351"N	103°27'02.751"W	0.65	
2969.00	3.700	83.000	2966.61	65.82	-63.74	16.56	814869.36	372774.06	32°01'18.354"N	103°27'02.683"W	0.62	
3062.00	4.400	72.000	3059.38	66.23	-62.27	22.93	814875.73	372775.53	32°01'18.368"N	103°27'02.609"W	1.12	
3156.00	4.700	70.000	3153.08	65.91	-59.84	29.98	814882.78	372777.96	32°01'18.391"N	103°27'02.527"W	0.36	
3251.00	4.700	70.000	3247.76	65.45	-57.18	37.30	814890.10	372780.62	32°01'18.417"N	103°27'02.442"W	0.00	
3346.00	4.500	70.000	3342.45	64.99	-54.57	44.46	814897.26	372783.23	32°01'18.442"N	103°27'02.358"W	0.21	
3388.00	5.600	79.000	3384.29	65.09	-53.62	48.02	814900.82	372784.18	32°01'18.451"N	103°27'02.317"W	3.22	
3449.00	5.700	73.000	3444.99	65.36	-52.17	53.84	814906.63	372785.63	32°01'18.465"N	103°27'02.249"W	0.98	
3464.08†	5.556	73.000	3460.00	65.35	-51.73	55.25	814908.05	372786.07	32°01'18.469"N	103°27'02.233"W	0.95	Castile
3491.00	5.300	73.000	3486.80	65.33	-50.99	57.68	814910.48	372786.81	32°01'18.476"N	103°27'02.204"W	0.00	Tie On
3591.00†	4.300	73.000	3586.45	65.27	-48.54	65.69	814918.49	372789.26	32°01'18.500"N	103°27'02.111"W	1.00	
3691.00†	3.300	73.000	3686.23	65.22	-46.61	72.02	814924.82	372791.19	32°01'18.519"N	103°27'02.038"W	1.00	
3791.00†	2.300	73.000	3786.11	65.18	-45.18	76.70	814929.50	372792.62	32°01'18.532"N	103°27'01.983"W	1.00	
3891.00†	1.300	73.000	3886.06	65.16	-44.26	79.70	814932.50	372793.54	32°01'18.541"N	103°27'01.948"W	1.00	
3991.00†	0.300	73.000	3986.05	65.15	-43.85	81.03	814933.83	372793.95	32°01'18.545"N	103°27'01.933"W	1.00	
4021.00	0.000	172.603	4016.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	1.00	End of Drop
4091.00†	0.000	172.603	4086.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4191.00†	0.000	172.603	4186.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4291.00†	0.000	172.603	4286.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4391.00†	0.000	172.603	4386.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	
4491.00†	0.000	172.603	4486.05	65.15	-43.83	81.11	814933.91	372793.97	32°01'18.545"N	103°27'01.932"W	0.00	



CONDITIONS OF APPROVAL

Sundry dated 02/05/2014

OPERATOR'S NAME:	Devon Energy Production, L.P.
LEASE NO.:	NMMN-100569
WELL NAME & NO.:	Mean Green 27 Fed 1H
SURFACE HOLE FOOTAGE:	0100' FSL & 0480' FEL <u>Sec 22, T. 26 S., R 34 E.</u>
BOTTOM HOLE FOOTAGE:	0350' FNL & 0350' FEL Sec 27, T. 26 S., R 34 E.
COUNTY:	Lea County, New Mexico

Operator will be required to submit a revised C-102 and a sundry to drop the "H" from the well number.

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

1. **Hydrogen Sulfide has been reported, but no measurements have been recorded. Operator has stated that they will have monitoring equipment in place prior to drilling out of the surface shoe. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper**

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

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

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

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

Possible sulfur flows in the Castile Group and above.

Possibility of water and brine flows in the Salado, Castile, Delaware, and Bone Springs.

Possibility of lost circulation in the Delaware and Bone Springs.

- 1. The 20 inch surface casing shall be set at approximately 934 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.**
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing (set at 5300') is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the **7** inch production casing is:
 - ☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. 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.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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