

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM94845
2. Name of Operator DEVON ENERGY PRODUCTION CO		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 405-552-7970		8. Well Name and No. AGASTI 27 FEDERAL 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T19S R31E SWSW 0440FSL 0100FWL		9. API Well No. 30-015-40999-00-X1
		10. Field and Pool, or Exploratory WILLIAMS SINK
		11. County or Parish, and State EDDY 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 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.)

Devon Energy Production CO., LP respectfully requests approval to change the Bottom Hole to the following:

Original BHL: 990' FNL & 340' FEL of Section 27

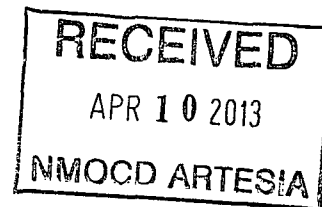
to

Proposed BHL: 1290' FNL & 340' FEL of Section 27

Cmt will not change - the volume will be adjusted per the fluid caliper. Attached is a copy of the

Accepted for record
NMOCD

10/11/2013



Submit C102 w/change to NMOCD

14. I hereby certify that the foregoing is true and correct. Electronic Submission #196861 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 02/12/2013 (13KMS4871SE)	
Name (Printed/Typed) ERIN L. WORKMAN	Title REGULATORY COMPLIANCE ASSOC.
Signature (Electronic Submission)	Date 02/06/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	CHRISTOPHER WALLS Title PETROLEUM ENGINEER	Date 04/09/2013
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.

Additional data for EC transaction #196861 that would not fit on the form

32. Additional remarks, continued

new design factors for the csg - only 5 1/2" BT&C should have changed.

Attachments: Design factors
Directional Plan
C-102

Thank You!



A Schlumberger Company



Devon Energy, Inc.

Eddy County (NAD83)

Agasti "27" Fed

#1H

OH

Plan: Plan #6

Pathfinder X&Y Report

01 February, 2013



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H:
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3545.7 usft (H&P 300)
Site:	Agasti "27" Fed	MD Reference:	KB = 26 @ 3545.7 usft (H&P 300)
Well:	#1H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

Project: Eddy County (NAD83)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:		Agasti "27" Fed				
Site Position:		Northing:	595,061.990	usft	Latitude:	32.635000
From:	Map	Easting:	685,609.120	usft	Longitude:	-103.864667
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.25 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	596,840.280 usft	Latitude:	32.639890
	+E/-W	0.0 usft	Easting:	685,391.790 usft	Longitude:	-103.865347
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,519.7 usft	

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/29/2012	7.63	60.52	48,778

Design:	Plan #6			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	109.36

Survey Tool/Program		Date: 2/1/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	13,844.3	Plan #6 (OH)	Pathfinder	Pathfinder MWD

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Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)		
0.0	0.00	0.00	0.0	-3,545.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
100.0	0.00	0.00	100.0	-3,445.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
200.0	0.00	0.00	200.0	-3,345.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
300.0	0.00	0.00	300.0	-3,245.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
400.0	0.00	0.00	400.0	-3,145.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
500.0	0.00	0.00	500.0	-3,045.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
600.0	0.00	0.00	600.0	-2,945.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
Rustler												
700.0	0.00	0.00	700.0	-2,845.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
800.0	0.00	0.00	800.0	-2,745.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
840.0	0.00	0.00	840.0	-2,705.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
Salado												
900.0	0.00	0.00	900.0	-2,645.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,000.0	0.00	0.00	1,000.0	-2,545.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,100.0	0.00	0.00	1,100.0	-2,445.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,200.0	0.00	0.00	1,200.0	-2,345.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,300.0	0.00	0.00	1,300.0	-2,245.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,400.0	0.00	0.00	1,400.0	-2,145.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,500.0	0.00	0.00	1,500.0	-2,045.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,600.0	0.00	0.00	1,600.0	-1,945.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,700.0	0.00	0.00	1,700.0	-1,845.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,800.0	0.00	0.00	1,800.0	-1,745.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
1,900.0	0.00	0.00	1,900.0	-1,645.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
2,000.0	0.00	0.00	2,000.0	-1,545.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
2,100.0	0.00	0.00	2,100.0	-1,445.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
2,130.0	0.00	0.00	2,130.0	-1,415.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		
Tansil Dolomite												
2,200.0	0.00	0.00	2,200.0	-1,345.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79		

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3545.7usft (H&P 300)
Site:	Agasti "27" Fed	MD Reference:	KB = 26' @ 3545.7usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V.Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,235.0	0.00	0.00	2,235.0	-1,310.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
Yates											
2,300.0	0.00	0.00	2,300.0	-1,245.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,400.0	0.00	0.00	2,400.0	-1,145.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,440.0	0.00	0.00	2,440.0	-1,105.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
Seven Rivers											
2,500.0	0.00	0.00	2,500.0	-1,045.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,585.0	0.00	0.00	2,585.0	-960.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
Capitan											
2,600.0	0.00	0.00	2,600.0	-945.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,700.0	0.00	0.00	2,700.0	-845.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,800.0	0.00	0.00	2,800.0	-745.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
2,900.0	0.00	0.00	2,900.0	-645.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,000.0	0.00	0.00	3,000.0	-545.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,100.0	0.00	0.00	3,100.0	-445.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,200.0	0.00	0.00	3,200.0	-345.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,300.0	0.00	0.00	3,300.0	-245.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,400.0	0.00	0.00	3,400.0	-145.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,500.0	0.00	0.00	3,500.0	-45.7	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,600.0	0.00	0.00	3,600.0	54.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,700.0	0.00	0.00	3,700.0	154.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,800.0	0.00	0.00	3,800.0	254.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
3,900.0	0.00	0.00	3,900.0	354.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,000.0	0.00	0.00	4,000.0	454.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
B/Capitan											
4,100.0	0.00	0.00	4,100.0	554.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,200.0	0.00	0.00	4,200.0	654.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,300.0	0.00	0.00	4,300.0	754.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	

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Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1, Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,305.0	0.00	0.00	4,305.0	759.3	0.0	0.0	0.0	0.0	0.00	596,840.28	685,391.79
Delaware											
4,400.0	0.00	0.00	4,400.0	854.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,500.0	0.00	0.00	4,500.0	954.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,600.0	0.00	0.00	4,600.0	1,054.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,700.0	0.00	0.00	4,700.0	1,154.3	0.0	0.0	0.0	0.00	596,840.28	685,391.79	
4,800.0	2.00	177.31	4,800.0	1,254.3	-1.7	0.1	0.7	2.00	596,838.54	685,391.87	
4,900.0	4.00	177.31	4,899.8	1,354.1	-7.0	0.3	2.6	2.00	596,833.31	685,392.12	
5,000.0	6.00	177.31	4,999.5	1,453.8	-15.7	0.7	5.9	2.00	596,824.60	685,392.53	
5,100.0	8.00	177.31	5,098.7	1,553.0	-27.8	1.3	10.5	2.00	596,812.43	685,393.10	
5,200.0	10.00	177.31	5,197.5	1,651.8	-43.5	2.0	16.3	2.00	596,796.81	685,393.83	
5,300.0	12.00	177.31	5,295.6	1,749.9	-62.5	2.9	23.5	2.00	596,777.75	685,394.73	
5,400.0	14.00	177.31	5,393.1	1,847.4	-85.0	4.0	32.0	2.00	596,755.28	685,395.78	
5,500.0	16.00	177.31	5,489.6	1,943.9	-110.9	5.2	41.7	2.00	596,729.43	685,397.00	
5,600.0	18.00	177.31	5,585.3	2,039.6	-140.1	6.6	52.6	2.00	596,700.22	685,398.37	
5,652.5	19.05	177.31	5,635.0	2,089.3	-156.7	7.4	58.9	2.00	596,683.56	685,399.15	
5,700.0	19.05	177.31	5,679.9	2,134.2	-172.2	8.1	64.7	0.00	596,668.07	685,399.88	
5,800.0	19.05	177.31	5,774.5	2,228.8	-204.8	9.6	77.0	0.00	596,635.47	685,401.41	
5,900.0	19.05	177.31	5,869.0	2,323.3	-237.4	11.2	89.2	0.00	596,602.87	685,402.94	
6,000.0	19.05	177.31	5,963.5	2,417.8	-270.0	12.7	101.5	0.00	596,570.26	685,404.48	
6,100.0	19.05	177.31	6,058.0	2,512.3	-302.6	14.2	113.7	0.00	596,537.66	685,406.01	
6,200.0	19.05	177.31	6,152.6	2,606.9	-335.2	15.8	126.0	0.00	596,505.06	685,407.54	
6,300.0	19.05	177.31	6,247.1	2,701.4	-367.8	17.3	138.3	0.00	596,472.45	685,409.07	
6,400.0	19.05	177.31	6,341.6	2,795.9	-400.4	18.8	150.5	0.00	596,439.85	685,410.60	
6,500.0	19.05	177.31	6,436.1	2,890.4	-433.0	20.3	162.8	0.00	596,407.25	685,412.14	
6,600.0	19.05	177.31	6,530.7	2,985.0	-465.6	21.9	175.0	0.00	596,374.64	685,413.67	
6,700.0	19.05	177.31	6,625.2	3,079.5	-498.2	23.4	187.3	0.00	596,342.04	685,415.20	

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Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,800.0	19.05	177.31	6,719.7	3,174.0	-530.8	24.9	199.5	0.00	596,309.44	685,416.73	
6,900.0	19.05	177.31	6,814.2	3,268.5	-563.4	26.5	211.8	0.00	596,276.83	685,418.26	
6,932.6	19.05	177.31	6,845.0	3,299.3	-574.1	27.0	215.8	0.00	596,266.22	685,418.76	
Bone Spring											
7,000.0	19.05	177.31	6,908.8	3,363.1	-596.0	28.0	224.0	0.00	596,244.23	685,419.79	
7,100.0	19.05	177.31	7,003.3	3,457.6	-628.7	29.5	236.3	0.00	596,211.63	685,421.33	
7,200.0	19.05	177.31	7,097.8	3,552.1	-661.3	31.1	248.6	0.00	596,179.02	685,422.86	
7,300.0	19.05	177.31	7,192.3	3,646.6	-693.9	32.6	260.8	0.00	596,146.42	685,424.39	
7,400.0	19.05	177.31	7,286.8	3,741.1	-726.5	34.1	273.1	0.00	596,113.82	685,425.92	
7,500.0	19.05	177.31	7,381.4	3,835.7	-759.1	35.7	285.3	0.00	596,081.21	685,427.45	
7,600.0	19.05	177.31	7,475.9	3,930.2	-791.7	37.2	297.6	0.00	596,048.61	685,428.99	
7,700.0	19.05	177.31	7,570.4	4,024.7	-824.3	38.7	309.8	0.00	596,016.01	685,430.52	
7,800.0	19.05	177.31	7,664.9	4,119.2	-856.9	40.3	322.1	0.00	595,983.40	685,432.05	
7,900.0	19.05	177.31	7,759.5	4,213.8	-889.5	41.8	334.3	0.00	595,950.80	685,433.58	
8,000.0	19.05	177.31	7,854.0	4,308.3	-922.1	43.3	346.6	0.00	595,918.20	685,435.11	
8,100.0	19.05	177.31	7,948.5	4,402.8	-954.7	44.9	358.8	0.00	595,885.59	685,436.64	
8,200.0	19.05	177.31	8,043.0	4,497.3	-987.3	46.4	371.1	0.00	595,852.99	685,438.18	
8,270.8	19.05	177.31	8,110.0	4,564.3	-1,010.4	47.5	379.8	0.00	595,829.89	685,439.26	
1st Bone Spring Ss											
8,300.0	19.05	177.31	8,137.6	4,591.9	-1,019.9	47.9	383.4	0.00	595,820.39	685,439.71	
8,400.0	19.05	177.31	8,232.1	4,686.4	-1,052.5	49.5	395.6	0.00	595,787.78	685,441.24	
8,500.0	19.05	177.31	8,326.6	4,780.9	-1,085.1	51.0	407.9	0.00	595,755.18	685,442.77	
8,588.2	19.05	177.31	8,410.0	4,864.3	-1,113.9	52.3	418.7	0.00	595,726.41	685,444.12	
2nd Bone Spring Lime											
8,600.0	19.05	177.31	8,421.1	4,875.4	-1,117.7	52.5	420.1	0.00	595,722.58	685,444.30	
8,700.0	19.05	177.31	8,515.6	4,969.9	-1,150.3	54.0	432.4	0.00	595,689.97	685,445.84	
8,713.5	19.05	177.31	8,528.4	4,982.7	-1,154.7	54.3	434.0	0.00	595,685.57	685,446.04	
8,750.0	19.76	166.52	8,562.8	5,017.1	-1,166.7	56.0	439.6	10.00	595,673.62	685,447.76	

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Site:	Agasti 27" Fed	MD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM: 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
8,800.0	21.68	153.43	8,609.6	5,063.9	-1,183.2	62.1	450.8	10.00	595,657.12	685,453.87	
8,850.0	24.45	142.77	8,655.7	5,110.0	-1,199.7	72.5	466.1	10.00	595,640.61	685,464.26	
8,900.0	27.81	134.35	8,700.6	5,154.9	-1,216.1	87.1	485.3	10.00	595,624.21	685,478.87	
8,950.0	31.58	127.71	8,744.0	5,198.3	-1,232.2	105.8	508.4	10.00	595,608.04	685,497.58	
9,000.0	35.63	122.39	8,785.6	5,239.9	-1,248.1	128.5	535.0	10.00	595,592.22	685,520.26	
9,050.0	39.86	118.04	8,825.2	5,279.5	-1,263.4	154.9	565.0	10.00	595,576.87	685,546.71	
9,083.1	42.74	115.58	8,850.0	5,304.3	-1,273.2	174.4	586.7	10.00	595,567.05	685,566.19	
2nd Bone Spring Ss											
9,100.0	44.24	114.42	8,862.3	5,316.6	-1,278.2	185.0	598.3	10.00	595,562.12	685,576.76	
9,150.0	48.71	111.32	8,896.7	5,351.0	-1,292.2	218.4	634.4	10.00	595,548.07	685,610.16	
9,200.0	53.25	108.63	8,928.2	5,382.5	-1,305.4	254.9	673.3	10.00	595,534.84	685,646.66	
9,203.0	53.52	108.48	8,930.0	5,384.3	-1,306.2	257.2	675.7	10.00	595,534.07	685,648.96	
2nd Bone Spring Upr Ss											
9,250.0	57.84	106.24	8,956.5	5,410.8	-1,317.8	294.2	714.5	10.00	595,522.51	685,685.99	
9,297.1	62.21	104.20	8,980.0	5,434.3	-1,328.5	333.5	755.1	10.00	595,511.82	685,725.33	
2nd Bone Spring Upr Ss Base											
9,300.0	62.48	104.08	8,981.4	5,435.7	-1,329.1	336.0	757.7	10.00	595,511.19	685,727.84	
9,350.0	67.15	102.10	9,002.6	5,456.9	-1,339.3	380.1	802.7	10.00	595,500.96	685,771.90	
9,400.0	71.84	100.25	9,020.1	5,474.4	-1,348.4	426.0	849.0	10.00	595,491.90	685,817.83	
9,450.0	76.54	98.49	9,033.8	5,488.1	-1,356.2	473.5	896.4	10.00	595,484.08	685,865.28	
9,500.0	81.26	96.81	9,043.4	5,497.7	-1,362.7	522.1	944.4	10.00	595,477.56	685,913.90	
9,550.0	85.99	95.16	9,048.9	5,503.2	-1,367.9	571.5	992.7	10.00	595,472.38	685,963.30	
9,570.0	87.88	94.51	9,050.0	5,504.3	-1,369.6	591.5	1,012.1	10.00	595,470.70	685,983.25	
2nd Bone Spring Middle Ss											
9,570.4	87.92	94.50	9,050.0	5,504.3	-1,369.6	591.8	1,012.5	10.00	595,470.67	685,983.64	
9,580.3	87.92	94.50	9,050.4	5,504.7	-1,370.4	601.7	1,022.0	0.00	595,469.89	685,993.51	
EOC (Agasti 27" #1H)											
9,600.0	87.92	94.50	9,051.1	5,505.4	-1,371.9	621.3	1,041.0	0.00	595,468.35	686,013.09	

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Site:	Agassiz 27 Fed	MD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Well:	#1H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,700.0	87.92	94.50	9,054.7	5,509.0	-1,379.8	720.9	1,137.6	0.00	595,460.52	686,112.71	
9,800.0	87.92	94.50	9,058.3	5,512.6	-1,387.6	820.6	1,234.2	0.00	595,452.68	686,212.34	
9,900.0	87.92	94.50	9,062.0	5,516.3	-1,395.4	920.2	1,330.8	0.00	595,444.85	686,311.97	
10,000.0	87.92	94.50	9,065.6	5,519.9	-1,403.3	1,019.8	1,427.4	0.00	595,437.01	686,411.59	
10,100.0	87.92	94.50	9,069.2	5,523.5	-1,411.1	1,119.4	1,524.0	0.00	595,429.18	686,511.22	
10,200.0	87.92	94.50	9,072.8	5,527.1	-1,418.9	1,219.1	1,620.6	0.00	595,421.34	686,610.85	
10,300.0	87.92	94.50	9,076.5	5,530.8	-1,426.8	1,318.7	1,717.1	0.00	595,413.51	686,710.47	
10,400.0	87.92	94.50	9,080.1	5,534.4	-1,434.6	1,418.3	1,813.7	0.00	595,405.67	686,810.10	
10,500.0	87.92	94.50	9,083.7	5,538.0	-1,442.4	1,517.9	1,910.3	0.00	595,397.84	686,909.73	
10,600.0	87.92	94.50	9,087.3	5,541.6	-1,450.3	1,617.6	2,006.9	0.00	595,390.00	687,009.35	
10,700.0	87.92	94.50	9,091.0	5,545.3	-1,458.1	1,717.2	2,103.5	0.00	595,382.17	687,108.98	
10,800.0	87.92	94.50	9,094.6	5,548.9	-1,465.9	1,816.8	2,200.1	0.00	595,374.33	687,208.61	
10,900.0	87.92	94.50	9,098.2	5,552.5	-1,473.8	1,916.4	2,296.7	0.00	595,366.50	687,308.23	
11,000.0	87.92	94.50	9,101.8	5,556.1	-1,481.6	2,016.1	2,393.3	0.00	595,358.66	687,407.86	
11,100.0	87.92	94.50	9,105.5	5,559.8	-1,489.5	2,115.7	2,489.9	0.00	595,350.83	687,507.49	
11,200.0	87.92	94.50	9,109.1	5,563.4	-1,497.3	2,215.3	2,586.4	0.00	595,342.99	687,607.11	
11,300.0	87.92	94.50	9,112.7	5,567.0	-1,505.1	2,314.9	2,683.0	0.00	595,335.16	687,706.74	
11,400.0	87.92	94.50	9,116.4	5,570.7	-1,513.0	2,414.6	2,779.6	0.00	595,327.32	687,806.37	
11,500.0	87.92	94.50	9,120.0	5,574.3	-1,520.8	2,514.2	2,876.2	0.00	595,319.49	687,905.99	
11,600.0	87.92	94.50	9,123.6	5,577.9	-1,528.6	2,613.8	2,972.8	0.00	595,311.65	688,005.62	
11,700.0	87.92	94.50	9,127.2	5,581.5	-1,536.5	2,713.5	3,069.4	0.00	595,303.82	688,105.25	
11,800.0	87.92	94.50	9,130.9	5,585.2	-1,544.3	2,813.1	3,166.0	0.00	595,295.98	688,204.87	
11,900.0	87.92	94.50	9,134.5	5,588.8	-1,552.1	2,912.7	3,262.6	0.00	595,288.15	688,304.50	
12,000.0	87.92	94.50	9,138.1	5,592.4	-1,560.0	3,012.3	3,359.2	0.00	595,280.31	688,404.13	
12,100.0	87.92	94.50	9,141.7	5,596.0	-1,567.8	3,112.0	3,455.7	0.00	595,272.48	688,503.75	
12,200.0	87.92	94.50	9,145.4	5,599.7	-1,575.6	3,211.6	3,552.3	0.00	595,264.64	688,603.38	
12,300.0	87.92	94.50	9,149.0	5,603.3	-1,583.5	3,311.2	3,648.9	0.00	595,256.81	688,703.01	

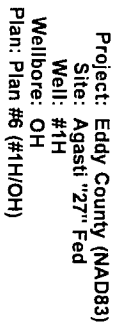
Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Site:	Agasti #27 Fed	MD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
12,400.0	87.92	94.50	9,152.6	5,606.9	-1,591.3	3,410.8	3,745.5	0.00	595,248.97	688,802.63	
12,500.0	87.92	94.50	9,156.2	5,610.5	-1,599.1	3,510.5	3,842.1	0.00	595,241.14	688,902.26	
12,600.0	87.92	94.50	9,159.9	5,614.2	-1,607.0	3,610.1	3,938.7	0.00	595,233.30	689,001.89	
12,700.0	87.92	94.50	9,163.5	5,617.8	-1,614.8	3,709.7	4,035.3	0.00	595,225.47	689,101.51	
12,800.0	87.92	94.50	9,167.1	5,621.4	-1,622.6	3,809.3	4,131.9	0.00	595,217.63	689,201.14	
12,900.0	87.92	94.50	9,170.7	5,625.0	-1,630.5	3,909.0	4,228.5	0.00	595,209.80	689,300.77	
13,000.0	87.92	94.50	9,174.4	5,628.7	-1,638.3	4,008.6	4,325.1	0.00	595,201.96	689,400.39	
13,100.0	87.92	94.50	9,178.0	5,632.3	-1,646.2	4,108.2	4,421.6	0.00	595,194.13	689,500.02	
13,200.0	87.92	94.50	9,181.6	5,635.9	-1,654.0	4,207.9	4,518.2	0.00	595,186.29	689,599.65	
13,300.0	87.92	94.50	9,185.2	5,639.5	-1,661.8	4,307.5	4,614.8	0.00	595,178.46	689,699.27	
13,400.0	87.92	94.50	9,188.9	5,643.2	-1,669.7	4,407.1	4,711.4	0.00	595,170.62	689,798.90	
13,500.0	87.92	94.50	9,192.5	5,646.8	-1,677.5	4,506.7	4,808.0	0.00	595,162.79	689,898.53	
13,600.0	87.92	94.50	9,196.1	5,650.4	-1,685.3	4,606.4	4,904.6	0.00	595,154.95	689,998.15	
13,700.0	87.92	94.50	9,199.7	5,654.0	-1,693.2	4,706.0	5,001.2	0.00	595,147.12	690,097.78	
13,800.0	87.92	94.50	9,203.4	5,657.7	-1,701.0	4,805.6	5,097.8	0.00	595,139.28	690,197.41	
13,844.8	87.92	94.50	9,205.0	5,659.3	-1,704.5	4,850.3	5,141.0	0.00	595,135.77	690,242.04	
2nd Bone Spring Middle Ss Base: PBHL (Agasti 27 #1H)											

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Site:	Agasti, 27.3 Fed	MD Reference:	KB = 26 @ 3545.7usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #6	Database:	EDM 5000.1 Single User Db

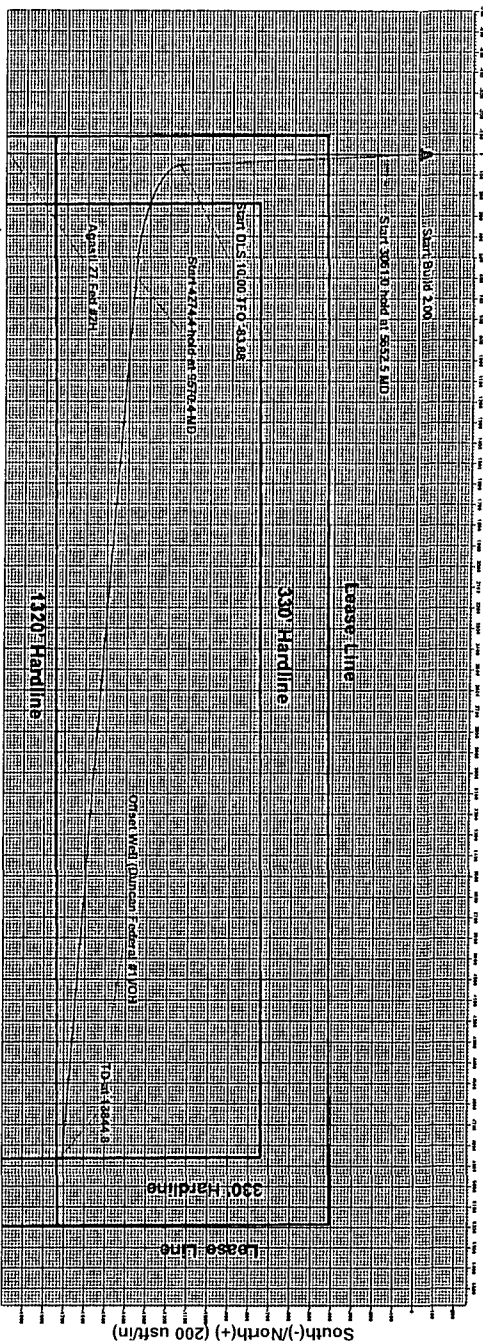
Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,203.0	8,930.0	2nd Bone Spring Upr Ss			
2,130.0	2,130.0	Tansil Dolomite			
9,083.1	8,850.0	2nd Bone Spring Ss			
4,000.0	4,000.0	B/Capitan			
13,844.8	9,205.0	2nd Bone Spring Middle Ss Base		0.00	
6,932.6	6,845.0	Bone Spring			
2,440.0	2,440.0	Seven Rivers			
8,270.8	8,110.0	1st Bone Spring Ss			
600.0	600.0	Rustler			
4,305.0	4,305.0	Delaware			
840.0	840.0	Salado			
9,570.0	9,050.0	2nd Bone Spring Middle Ss		0.00	
2,585.0	2,585.0	Capitan			
9,297.1	8,980.0	2nd Bone Spring Upr Ss Base			
2,235.0	2,235.0	Yates			
8,588.2	8,410.0	2nd Bone Spring Lime			

Checked By: _____ Approved By: _____ Date: _____



PROJECT DETAILS: Eddy County (INAD03)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grd

West(-)/East(+) (200 usft/in)



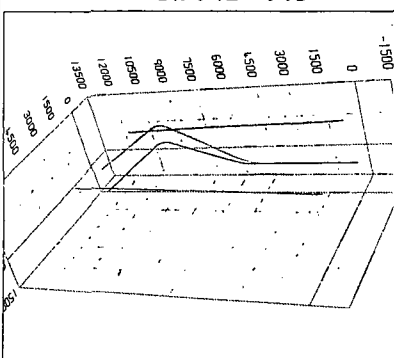
WELL DETAILS: #RH					
Ground Elevation:: 3518.7					
RIG Elevation: KB = 26 @ 3545.7'ustf (H&P 300)					
Rig Name: H&P 300					
N/S	E/W	Northing	Easting	Latitude	Longitude
+/-S 0.0	+E/W 0.0	559840.280	665391.730	32.639890	-103.865347
Slot					

Sec	SECTION DETAILS									
	MD	Inc	Az	TYD	+WS	+EW	DWG	Trce	Wsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4705.0	0.00	0.00	4700.0	0.0	0.0	0.00	0.00	0.0	
3	5652.5	18.05	177.31	5526.0	-156.7	7.4	2.80	177.31	56.9	
4	8713.5	18.05	177.31	8538.0	-154.7	54.3	0.00	0.00	443.0	
5	5570.0	87.52	9050.0	-1385.0	891.8	10.00	-43.88	1014.0	514.5	
6	1384.0	87.52	9450.0	-1704.5	4950.3	0.00	0.00	0.00	1014.0	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
EC (Agasil 27 #1H)	9050.0	-1336.2	604.4	595504.117	685996.213	Point
PBHL (Agasil 27 #1H)	9205.0	-1704.5	4850.3	595135.770	690242.040	Point

Azimuths to Grid North
 True North: -0.25
 Magnetic North: 7.37
 Magnetic Field
 Strength: 48777.95nT
 Dip Angle: 60.52°
 Date: 5/29/2012
 Model: IGRF2005.10



Vertical Section at 109.36° (200 usft/in)

Plant: Plan 98 (#1H0H)
Created By: Sam Bille Date: 10:56, February 01 2019
Checked: _____ Date: _____