



Weatherford[®]

Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: July 23 2015

Attention: Rob Schwartz

Re: Devon Energy
Well: Van Doo Dah 33 Fed 3H
Lea County, New Mexico

HOBBS

MAY 25 2017

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Andrew Schmidt MWD Supervisor	3H	8825 MD 13942 MD	7/5/2015 7/21/2015	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

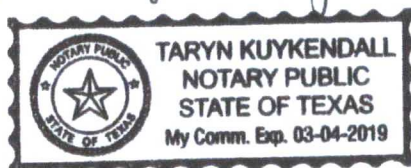
JL

Jonathan Leger
MWD Coordinator

On this, the 23rd day of August, 2016, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Taryn Kuykendall
Notary Public



NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 22 2017

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5D Survey Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Van Doo Dah 33 Fed 3H*
Well Name: *Van Doo Dah 33 Fed 3H*
Survey: *Wft MWD Svy*

21 July 2015



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**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAY 22 2017



Van Doo Dah 33 Fed 3H

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: Van Doo Dah 33 Fed 3H	Units: US ft	North Reference: Grid	Convergence Angle: 0.35	
	Position:	Northing: 393542.04US ft	Latitude: 32° 4' 48.75"	
		Easting: 745714.70US ft	Longitude: -103° 40' 24.45"	
	Elevation above MSL:3317.00 US ft			
Comment:				
Slot: Van Doo Dah 33 Fed 3H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 393542.04US ft	Latitude: 32°4'48.75"	
	+E/-W: 0.00US ft	Easting: 745714.70US ft	Longitude: -103°40'24.45"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3317.00US ft				
Comment:				
Well: Van Doo Dah 33 Fed 3H	Type:Main well	UWI:		
	File Number:	Comment:		
	Closure Distance:4744.02US ft	Closure Azimuth:2.14°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 2.26°	

Drill floor: Survey Name: Wft MWD Svy			
Rig Height (Kelly Bushing): 27.00us ft	Elevation above MSL: 3344.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Wft MWD Svy			
Date: 13/Jul/2015	Survey Tool: MWD	Comment:	Company: Wft
Magnetic Model:			
Model Name: BGGM	Date: 15/Jul/2015	Field Strength: 48140.0nT	Declination: 7.31°
Tie Point:			
MD: 8645.00 US ft	Inclination: 1.19°	Azimuth: 225.21°	TVD: 8643.60 US ft
			North Offset: -50.36 US ft
			East Offset: -54.02 US ft

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
8645.00	1.19	225.21	8643.60	-50.36	-54.02	-52.45	0.00	393491.68	745660.68	Tie On Extreme

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
12003.00	89.09	3.19	9500.60	2734.99	97.46	2736.71	0.83	396277.03	745812.16	
12098.00	89.09	2.52	9502.11	2829.86	102.20	2831.69	0.71	396371.90	745816.90	
12192.00	90.28	2.36	9502.63	2923.77	106.20	2925.69	1.28	396465.81	745820.90	
12287.00	90.98	2.30	9501.58	3018.69	110.06	3020.68	0.74	396560.73	745824.76	
12383.00	91.89	2.71	9499.18	3114.57	114.25	3116.65	1.04	396656.61	745828.95	
12478.00	90.42	2.97	9497.26	3209.43	118.96	3211.62	1.57	396751.47	745833.66	
12573.00	90.91	2.76	9496.16	3304.30	123.71	3306.61	0.56	396846.34	745838.41	
12668.00	90.77	2.68	9494.77	3399.18	128.22	3401.60	0.17	396941.22	745842.92	
12763.00	89.23	2.05	9494.77	3494.10	132.14	3496.59	1.75	397036.14	745846.84	
12858.00	88.67	1.40	9496.51	3589.04	134.99	3591.57	0.90	397131.08	745849.69	
12953.00	89.37	0.91	9498.13	3684.01	136.91	3686.54	0.90	397226.05	745851.61	
13048.00	89.37	0.94	9499.18	3778.99	138.44	3781.51	0.03	397321.03	745853.14	
13143.00	89.16	0.90	9500.40	3873.97	139.97	3876.47	0.23	397416.01	745854.67	
13238.00	88.81	1.05	9502.08	3968.94	141.58	3971.43	0.40	397510.98	745856.28	
13333.00	90.21	2.96	9502.89	4063.87	144.91	4066.42	2.49	397605.91	745859.61	
13428.00	92.03	3.46	9501.04	4158.70	150.23	4161.39	1.99	397700.74	745864.93	
13524.00	93.15	3.35	9496.70	4254.43	155.92	4257.27	1.17	397796.47	745870.62	
13619.00	92.52	3.12	9492.00	4349.16	161.28	4352.14	0.71	397891.20	745875.98	
13714.00	90.84	2.84	9489.21	4443.99	166.21	4447.09	1.79	397986.03	745880.91	
13809.00	88.60	2.15	9489.68	4538.89	170.35	4542.08	2.47	398080.93	745885.05	
13904.00	89.09	1.78	9491.59	4633.82	173.60	4637.06	0.65	398175.86	745888.30	
13942.00	88.25	1.83	9492.48	4671.79	174.80	4675.05	2.21	398213.83	745889.50	Last Wft Svy 3H
14011.00	88.25	1.83	9494.58	4740.72	177.00	4744.01	0.00	398282.76	745891.70	Proj. To Bit