

KP 3-27-20

Intent ☐ As Drilled ☒

API #

Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: SPUD MUFFIN 31-30 FED COM	Well Number 331H
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Kick Off Point (KOP)

UL M	Section 31	Township 23S	Range 29E	Lot 4	Feet 52	From N/S SOUTH	Feet 997	From E/W WEST	County EDDY
Latitude 32.2544364					Longitude 104.0291241				NAD 83

First Take Point (FTP)

UL M	Section 31	Township 23S	Range 29E	Lot 4	Feet 480	From N/S SOUTH	Feet 991	From E/W WEST	County EDDY
Latitude 32.2556139					Longitude 104.0291375				NAD 83

Last Take Point (LTP)

UL D	Section 30	Township 23S	Range 29E	Lot 1	Feet 277	From N/S NORTH	Feet 898	From E/W WEST	County EDDY
Latitude 32.2827654					Longitude 104.0293428				NAD 83

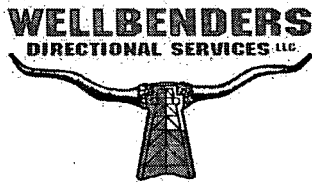
Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **03/02/19** thru **03/06/19** conduct or supervise the taking of a **MWD Survey** from a depth of **17798'** to a depth of **19938'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Spud Muffin 31-30 FED COM #331H ST01** API No. **30-015-45459** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

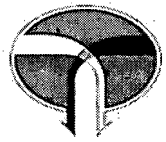
Larry
Wright

Digitally signed
by Larry Wright
Date:
2019.10.28
14:10:39 -05'00'

RECEIVED

MAR 24 2020

EMNRD-OCDARTESIA



Total Directional
Services, LLC
USA Operations

Final MWD Survey Certification

Eddy County, New Mexico

Client: Devon Energy

Well Name: Spud Muffin 31-30 Fed Com 331H

Total Job No: 2019-152-103

API No: 30-015-45459

Start Date: 2/28/2019

End Date: 3/07/2019

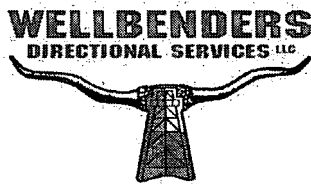
Measured Start Depth: 17798 feet

Measured End Depth with PTB: 19938 feet

I, Blair Kenzle, MWD Operator, hereby certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 3/07/2019

Signed: Blair Kenzle



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **03/02/19** thru **03/06/19** conduct or supervise the taking of a **MWD Survey** from a depth of **17798'** to a depth of **19938'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Spud Muffin 31-30 FED COM #331H ST01** API No. **30-015-45459** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

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MAR 24 2020

EMNRD-OCDARTESIA

1125 Beach Airport Rd, Conroe, Texas

77301

PH 936-756-3225 FAX 936-756-3248

Svy	depth	inc	azm	tv	ns	ew	vs	dls
Tie In	17798	88.5	0.3	9700.92	8214.08	-373.03	8215.98	1.85
201	17892	87.3	3.3	9704.37	8307.96	-370.08	8309.84	3.44
202	17986	89	1.1	9707.4	8401.83	-366.47	8403.69	2.96
203	18080	91.3	2.5	9707.16	8495.77	-363.52	8497.62	2.86
204	18175	90.5	2.4	9705.67	8590.67	-359.46	8592.49	0.85
205	18268	94	2.6	9702.02	8683.5	-355.41	8685.3	3.77
206	18362	94.2	2.2	9695.29	8777.18	-351.48	8778.95	0.47
207	18456	92.5	1.7	9689.8	8870.96	-348.29	8872.71	1.88
208	18550	92.5	1.7	9685.7	8964.83	-345.5	8966.57	0
209	18644	92.8	1.1	9681.36	9058.7	-343.21	9060.42	0.71
210	18738	91.2	0.7	9678.08	9152.63	-341.73	9154.34	1.75
211	18832	90.4	359.8	9676.76	9246.61	-341.32	9248.33	1.28
212	18926	89	358.9	9677.26	9340.6	-342.39	9342.32	1.77
213	19020	90.5	358.1	9677.67	9434.57	-344.85	9436.3	1.81
214	19114	90.6	358	9676.76	9528.51	-348.05	9530.25	0.15
215	19208	90.2	357.6	9676.11	9622.44	-351.66	9624.2	0.6
216	19302	89.1	357.1	9676.68	9716.33	-356	9718.12	1.29
217	19396	90.8	357.6	9676.76	9810.23	-360.35	9812.03	1.89
218	19490	90.5	357.3	9675.7	9904.13	-364.53	9905.96	0.45
219	19584	90.5	357	9674.88	9998.01	-369.2	9999.86	0.32
220	19678	89.7	356.1	9674.71	10091.84	-374.86	10093.72	1.28
221	19772	90.3	356.4	9674.71	10185.64	-381.01	10187.55	0.71
222	19867	90.6	356	9673.97	10280.42	-387.3	10282.37	0.53
223	19883	90.8	356	9673.77	10296.38	-388.42	10298.33	1.25
PTB	19938	90.8	356	9673	10351.24	-392.26	10353.21	0