

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76102		² OGRID Number 373986
		³ Reason for Filing Code/ Effective Date New Well - RT
⁴ API Number 30 - 025-48145	⁵ Pool Name WC-025 G-09 S263619C; Wolfcamp	⁶ Pool Code 98234
⁷ Property Code 329869	⁸ Property Name Love Shack Fed Com	⁹ Well Number 431H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	17	26S	35E		269'	S	704'	W	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	26S	35E		38'	N	1011'	W	Lea
¹² Lse Code F	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

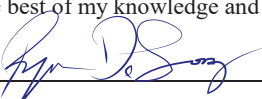
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
319135	Western Refining Pipeline, LLC 200 E. Hardin Street Findlay, OH 45840	O
371960	Lucid Energy Delaware, LLC 3100 Mckinnon Street, Suite 800 Dallas, TX 75201	G
308339	Oilfield Water Logistics 8201 Preston Rd, Suite 520 Dallas, TX 75225	W

IV. Well Completion Data

²¹ Spud Date 2/25/2021	²² Ready Date Expected 8/15/2021	²³ TD 23220	²⁴ PBTD N/A	²⁵ Perforations 12793-23158'	²⁶ DHC, MC N/A
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
13.5	10.75	1200'	700 Class C		
9.875	7.625	12027	1875Class H/C		
6.75	5.5	11804'	Included Below		
6.75	5	23220'	1550 Class H		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION
Printed name: Ryan DeLong	Approved by: KURT SIMMONS
Title: Regulatory Manager	Title: NMOCD, SANTA FE
E-mail Address: rdelong@titusoil.com	Approval Date: 08/09/2021
Date: 7/28/2021	Phone: 817-852-6370
RT C-104 EXPIRES 11/09/2021	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48145	2 Pool Code 98234	3 Pool Name WC-025 G-09 S263619C; Wolfcamp
4 Property Code 329869	5 Property Name LOVE SHACK FED COM	6 Well Number 431H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3204'

" Surface Location

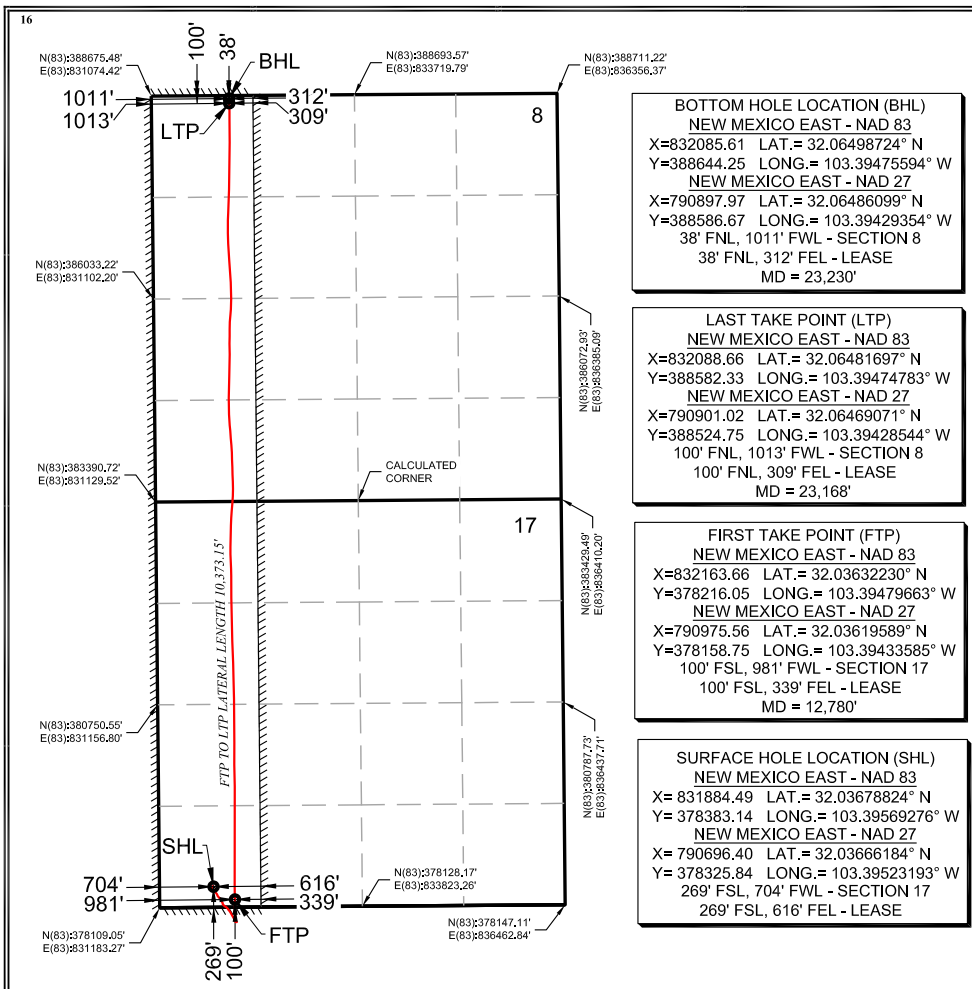
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	26-S	35-E		269'	SOUTH	704'	WEST	LEA

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	26-S	35-E		38'	NORTH	1011'	WEST	LEA

12 Dedicated Acres 320	13 Joint or Infill Y	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ryan DeLong 7/28/2021
Signature Date

Ryan DeLong - Regulatory Manager
Printed Name

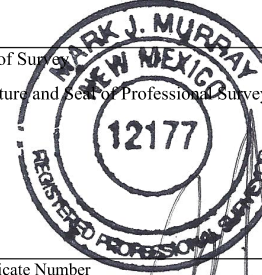
rdelong@titusoil.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number



6/23/2021



Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

Love Shack Fed Com

431H

OH

Survey: Phoenix MWD Surveys

Standard Survey Report

28 May, 2021





Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3230.50usft (Est KB)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Project	Lea County, NM - (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Love Shack Fed Com		
Site Position:		Northing:	378,382.76 usft
From:	Map	Easting:	831,824.61 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 12.439032 N
		Longitude:	103° 23' 45.189564 W
		Grid Convergence:	0.50 °

Well	431H		
Well Position	+N/-S	0.00 usft	Northing: 378,383.14 usft
	+E/-W	0.00 usft	Easting: 831,884.49 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 2' 12.437664 N
		Longitude:	103° 23' 44.493936 W
		Ground Level:	3,204.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	3/20/2020	6.48
			Dip Angle (°) 59.66
			Field Strength (nT) 47,586.49475290

Design	Surveys (Nabors 7503)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 359.41

Survey Program	Date 5/28/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
166.00	23,230.00	Phoenix MWD Surveys (OH)	MWD+HDGM
			Description OWSG Rev.2 MWD + HDGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	2.58	293.54	165.94	1.49	-3.43	1.53	1.55	1.55	0.00
First Phoenix MWD Survey									
381.00	2.84	273.39	380.71	3.74	-13.18	3.88	0.46	0.12	-9.37
563.00	2.00	210.47	562.57	1.27	-19.29	1.47	1.44	-0.46	-34.57
746.00	1.60	138.41	745.50	-3.39	-19.22	-3.20	1.17	-0.22	-39.38
929.00	1.46	157.74	928.44	-7.46	-16.64	-7.29	0.29	-0.08	10.56
1,112.00	1.24	159.70	1,111.39	-11.48	-15.07	-11.32	0.12	-0.12	1.07
1,139.00	1.26	161.15	1,138.38	-12.03	-14.87	-11.88	0.14	0.07	5.37
1,236.00	1.18	156.94	1,235.36	-13.96	-14.13	-13.81	0.12	-0.08	-4.34
1,327.00	2.59	157.38	1,326.31	-16.72	-12.98	-16.59	1.55	1.55	0.48



Survey Report



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Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,421.00	5.41	143.14	1,420.07	-22.23	-9.50	-22.13	3.16	3.00	-15.15
1,515.00	6.05	142.96	1,513.60	-29.73	-3.86	-29.69	0.68	0.68	-0.19
1,609.00	6.28	144.79	1,607.06	-37.88	2.09	-37.90	0.32	0.24	1.95
1,703.00	4.99	138.05	1,700.60	-45.12	7.79	-45.20	1.54	-1.37	-7.17
1,797.00	4.49	147.78	1,794.28	-51.28	12.48	-51.40	1.01	-0.53	10.35
1,891.00	4.75	150.20	1,887.98	-57.77	16.38	-57.93	0.35	0.28	2.57
1,984.00	4.79	148.46	1,980.65	-64.42	20.32	-64.62	0.16	0.04	-1.87
2,078.00	4.72	147.31	2,074.33	-71.02	24.47	-71.27	0.13	-0.07	-1.22
2,172.00	4.56	144.69	2,168.02	-77.32	28.71	-77.61	0.28	-0.17	-2.79
2,266.00	4.64	144.73	2,261.72	-83.48	33.07	-83.81	0.09	0.09	0.04
2,359.00	4.63	142.03	2,354.42	-89.51	37.55	-89.89	0.23	-0.01	-2.90
2,454.00	4.62	140.89	2,449.11	-95.50	42.32	-95.93	0.10	-0.01	-1.20
2,548.00	4.83	152.78	2,542.79	-101.95	46.52	-102.43	1.06	0.22	12.65
2,642.00	5.27	157.53	2,636.43	-109.46	49.98	-109.97	0.65	0.47	5.05
2,736.00	6.03	155.58	2,729.97	-117.95	53.67	-118.49	0.83	0.81	-2.07
2,830.00	5.63	141.83	2,823.49	-126.07	58.56	-126.66	1.54	-0.43	-14.63
2,924.00	5.04	139.86	2,917.08	-132.85	64.08	-133.50	0.66	-0.63	-2.10
3,018.00	3.95	136.48	3,010.79	-138.35	68.97	-139.06	1.19	-1.16	-3.60
3,113.00	3.43	132.06	3,105.59	-142.63	73.33	-143.38	0.62	-0.55	-4.65
3,207.00	2.88	139.28	3,199.45	-146.30	76.96	-147.09	0.72	-0.59	7.68
3,301.00	2.81	135.64	3,293.33	-149.74	80.11	-150.56	0.21	-0.07	-3.87
3,396.00	2.84	136.91	3,388.22	-153.13	83.35	-153.98	0.07	0.03	1.34
3,490.00	2.75	134.10	3,482.11	-156.39	86.56	-157.28	0.17	-0.10	-2.99
3,583.00	2.38	136.45	3,575.01	-159.35	89.49	-160.26	0.41	-0.40	2.53
3,677.00	2.15	165.57	3,668.94	-162.47	91.27	-163.40	1.23	-0.24	30.98
3,771.00	2.09	153.28	3,762.88	-165.71	92.48	-166.65	0.49	-0.06	-13.07
3,865.00	1.93	147.73	3,856.82	-168.58	94.10	-169.54	0.27	-0.17	-5.90
3,958.00	1.92	144.44	3,949.77	-171.17	95.84	-172.15	0.12	-0.01	-3.54
4,051.00	1.83	136.90	4,042.72	-173.52	97.76	-174.52	0.28	-0.10	-8.11
4,146.00	1.71	133.33	4,137.67	-175.60	99.83	-176.62	0.17	-0.13	-3.76
4,239.00	2.00	121.02	4,230.62	-177.39	102.23	-178.43	0.53	0.31	-13.24
4,333.00	1.97	154.11	4,324.57	-179.69	104.34	-180.75	1.20	-0.03	35.20
4,427.00	2.24	174.02	4,418.51	-182.97	105.24	-184.04	0.82	0.29	21.18
4,521.00	1.81	170.40	4,512.45	-186.26	105.68	-187.34	0.48	-0.46	-3.85
4,615.00	1.79	175.30	4,606.40	-189.19	106.04	-190.27	0.17	-0.02	5.21
4,709.00	1.86	159.07	4,700.36	-192.07	106.71	-193.16	0.55	0.07	-17.27
4,802.00	2.06	149.18	4,793.30	-194.92	108.10	-196.02	0.42	0.22	-10.63
4,896.00	1.92	147.46	4,887.25	-197.70	109.82	-198.82	0.16	-0.15	-1.83
4,990.00	2.51	141.92	4,981.18	-200.65	111.93	-201.79	0.67	0.63	-5.89
5,084.00	2.85	136.00	5,075.07	-203.95	114.83	-205.12	0.47	0.36	-6.30
5,179.00	1.73	162.99	5,170.00	-207.02	116.89	-208.21	1.61	-1.18	28.41
5,273.00	1.41	182.01	5,263.96	-209.53	117.26	-210.73	0.65	-0.34	20.23
5,367.00	1.31	166.57	5,357.94	-211.73	117.47	-212.93	0.40	-0.11	-16.43



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
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Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,461.00	1.09	167.03	5,451.92	-213.65	117.92	-214.85	0.23	-0.23	0.49
5,555.00	1.04	169.44	5,545.90	-215.36	118.28	-216.56	0.07	-0.05	2.56
5,649.00	0.97	167.86	5,639.89	-216.97	118.60	-218.18	0.08	-0.07	-1.68
5,743.00	1.18	169.86	5,733.87	-218.70	118.94	-219.92	0.23	0.22	2.13
5,838.00	1.22	168.68	5,828.85	-220.66	119.31	-221.88	0.05	0.04	-1.24
5,932.00	1.15	174.33	5,922.83	-222.58	119.60	-223.80	0.14	-0.07	6.01
6,026.00	1.04	171.43	6,016.81	-224.36	119.82	-225.58	0.13	-0.12	-3.09
6,120.00	1.72	156.91	6,110.78	-226.50	120.50	-227.73	0.81	0.72	-15.45
6,214.00	3.69	140.16	6,204.67	-230.12	122.99	-231.38	2.24	2.10	-17.82
6,308.00	3.79	140.18	6,298.47	-234.83	126.92	-236.13	0.11	0.11	0.02
6,402.00	3.70	141.22	6,392.27	-239.58	130.81	-240.92	0.12	-0.10	1.11
6,496.00	3.79	141.91	6,486.07	-244.39	134.62	-245.77	0.11	0.10	0.73
6,591.00	2.94	131.50	6,580.91	-248.48	138.39	-249.89	1.10	-0.89	-10.96
6,685.00	2.61	123.57	6,674.80	-251.26	141.97	-252.71	0.54	-0.35	-8.44
6,778.00	2.42	121.08	6,767.71	-253.44	145.42	-254.93	0.24	-0.20	-2.68
6,872.00	2.20	125.75	6,861.63	-255.52	148.58	-257.04	0.31	-0.23	4.97
6,966.00	2.43	122.67	6,955.56	-257.65	151.73	-259.20	0.28	0.24	-3.28
7,060.00	2.78	121.58	7,049.46	-259.92	155.35	-261.51	0.38	0.37	-1.16
7,154.00	4.09	121.70	7,143.29	-262.88	160.14	-264.51	1.39	1.39	0.13
7,248.00	4.79	130.49	7,237.01	-267.19	165.98	-268.88	1.04	0.74	9.35
7,343.00	4.72	134.60	7,331.68	-272.51	171.78	-274.26	0.37	-0.07	4.33
7,437.00	5.48	138.37	7,425.31	-278.58	177.51	-280.39	0.88	0.81	4.01
7,530.00	5.41	141.26	7,517.89	-285.31	183.21	-287.19	0.30	-0.08	3.11
7,624.00	5.23	144.12	7,611.48	-292.24	188.49	-294.17	0.34	-0.19	3.04
7,718.00	5.18	142.34	7,705.10	-299.07	193.59	-301.05	0.18	-0.05	-1.89
7,813.00	4.93	140.44	7,799.73	-305.62	198.81	-307.65	0.32	-0.26	-2.00
7,907.00	4.86	140.39	7,893.38	-311.80	203.92	-313.88	0.07	-0.07	-0.05
8,000.00	4.91	141.93	7,986.05	-317.97	208.89	-320.10	0.15	0.05	1.66
8,095.00	4.88	144.23	8,080.70	-324.44	213.76	-326.63	0.21	-0.03	2.42
8,189.00	4.71	144.81	8,174.37	-330.84	218.32	-333.07	0.19	-0.18	0.62
8,283.00	5.60	150.06	8,267.99	-337.97	222.83	-340.25	1.07	0.95	5.59
8,377.00	5.62	152.31	8,361.54	-346.02	227.26	-348.34	0.23	0.02	2.39
8,472.00	5.18	152.48	8,456.12	-353.94	231.40	-356.31	0.46	-0.46	0.18
8,566.00	4.87	152.79	8,549.76	-361.26	235.19	-363.66	0.33	-0.33	0.33
8,660.00	4.39	151.98	8,643.45	-367.98	238.70	-370.42	0.52	-0.51	-0.86
8,753.00	5.35	149.36	8,736.11	-374.85	242.59	-377.33	1.06	1.03	-2.82
8,846.00	5.52	151.53	8,828.69	-382.51	246.93	-385.04	0.29	0.18	2.33
8,940.00	5.06	152.25	8,922.29	-390.16	251.01	-392.72	0.49	-0.49	0.77
9,034.00	4.85	150.71	9,015.94	-397.29	254.89	-399.90	0.26	-0.22	-1.64
9,129.00	4.43	149.35	9,110.63	-403.95	258.72	-406.59	0.46	-0.44	-1.43
9,223.00	5.05	146.76	9,204.31	-410.53	262.84	-413.22	0.70	0.66	-2.76
9,317.00	5.06	147.39	9,297.94	-417.49	267.34	-420.22	0.06	0.01	0.67
9,410.00	4.68	146.54	9,390.61	-424.11	271.64	-426.88	0.42	-0.41	-0.91



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3230.50usft (Est KB)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,505.00	4.36	144.20	9,485.31	-430.27	275.89	-433.09	0.39	-0.34	-2.46
9,599.00	4.04	144.51	9,579.06	-435.86	279.91	-438.72	0.34	-0.34	0.33
9,693.00	3.94	143.78	9,672.83	-441.16	283.74	-444.06	0.12	-0.11	-0.78
9,787.00	3.80	141.42	9,766.62	-446.20	287.59	-449.14	0.23	-0.15	-2.51
9,881.00	2.64	144.92	9,860.47	-450.41	290.77	-453.38	1.25	-1.23	3.72
9,976.00	1.76	180.51	9,955.40	-453.66	292.02	-456.64	1.67	-0.93	37.46
10,070.00	1.38	191.46	10,049.37	-456.21	291.78	-459.19	0.51	-0.40	11.65
10,164.00	1.21	188.55	10,143.34	-458.30	291.41	-461.28	0.19	-0.18	-3.10
10,258.00	0.96	159.07	10,237.33	-460.02	291.54	-463.00	0.64	-0.27	-31.36
10,352.00	1.84	71.02	10,331.30	-460.27	293.25	-463.26	2.18	0.94	-93.67
10,446.00	2.74	61.08	10,425.23	-458.69	296.65	-461.72	1.04	0.96	-10.57
10,540.00	2.18	53.06	10,519.14	-456.53	300.04	-459.59	0.70	-0.60	-8.53
10,633.00	1.26	81.28	10,612.10	-455.31	302.47	-458.40	1.32	-0.99	30.34
10,728.00	0.66	172.71	10,707.09	-455.69	303.57	-458.80	1.51	-0.63	96.24
10,822.00	0.61	184.19	10,801.09	-456.73	303.60	-459.83	0.15	-0.05	12.21
10,916.00	0.53	239.78	10,895.08	-457.45	303.19	-460.55	0.57	-0.09	59.14
11,010.00	0.45	219.95	10,989.08	-457.95	302.57	-461.04	0.20	-0.09	-21.10
11,103.00	0.52	140.48	11,082.08	-458.56	302.61	-461.65	0.67	0.08	-85.45
11,197.00	0.37	103.70	11,176.07	-458.96	303.17	-462.05	0.33	-0.16	-39.13
11,291.00	0.27	80.10	11,270.07	-458.99	303.69	-462.09	0.17	-0.11	-25.11
11,385.00	0.46	194.07	11,364.07	-459.32	303.81	-462.42	0.66	0.20	121.24
11,479.00	1.24	250.19	11,458.06	-460.03	302.77	-463.12	1.12	0.83	59.70
11,573.00	1.54	270.60	11,552.03	-460.36	300.55	-463.43	0.61	0.32	21.71
11,666.00	1.54	288.37	11,645.00	-459.95	298.11	-463.00	0.51	0.00	19.11
11,760.00	1.72	291.17	11,738.96	-459.05	295.60	-462.07	0.21	0.19	2.98
11,854.00	2.01	286.49	11,832.91	-458.07	292.70	-461.06	0.35	0.31	-4.98
11,973.00	1.70	273.68	11,951.85	-457.36	288.94	-460.31	0.43	-0.26	-10.76
12,052.00	1.63	279.40	12,030.82	-457.10	286.66	-460.03	0.23	-0.09	7.24
12,147.00	1.33	281.67	12,125.79	-456.66	284.25	-459.56	0.32	-0.32	2.39
12,195.00	1.24	276.76	12,173.77	-456.49	283.18	-459.38	0.30	-0.19	-10.23
12,242.00	1.84	315.29	12,220.76	-455.89	282.15	-458.77	2.48	1.28	81.98
12,290.00	10.13	353.54	12,268.46	-451.14	281.13	-454.01	18.25	17.27	79.69
12,337.00	19.38	0.46	12,313.87	-439.21	280.73	-442.07	20.00	19.68	14.72
12,385.00	22.38	2.11	12,358.71	-422.11	281.13	-424.98	6.37	6.25	3.44
12,432.00	24.71	358.41	12,401.80	-403.34	281.18	-406.22	5.87	4.96	-7.87
12,479.00	32.28	356.34	12,443.07	-380.97	280.11	-383.83	16.24	16.11	-4.40
12,526.00	36.95	358.52	12,481.75	-354.30	278.94	-357.16	10.28	9.94	4.64
12,574.00	39.31	1.08	12,519.50	-324.67	278.86	-327.53	5.92	4.92	5.33
12,621.00	43.29	0.35	12,554.81	-293.66	279.24	-296.52	8.53	8.47	-1.55
12,669.00	50.07	358.88	12,587.72	-258.76	278.98	-261.62	14.30	14.13	-3.06
12,716.00	55.69	0.20	12,616.07	-221.30	278.69	-224.16	12.16	11.96	2.81
12,764.00	59.01	0.72	12,641.96	-180.90	279.02	-183.76	6.98	6.92	1.08
12,780.00	60.35	0.47	12,650.04	-167.09	279.16	-169.95	8.48	8.38	-1.56
FTP:12780' MD (as planned - see C-104 for actuals)									



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3230.50usft (Est KB)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,811.00	62.94	0.00	12,664.76	-139.81	279.27	-142.68	8.46	8.35	-1.52
12,856.00	70.05	358.46	12,682.70	-98.57	278.70	-101.44	16.11	15.80	-3.42
12,903.00	76.28	358.50	12,696.31	-53.63	277.51	-56.48	13.26	13.26	0.09
12,951.00	81.03	358.95	12,705.75	-6.59	276.47	-9.44	9.94	9.90	0.94
12,998.00	84.78	359.25	12,711.55	40.04	275.73	37.19	8.00	7.98	0.64
13,030.00	87.85	358.68	12,713.61	71.96	275.16	69.12	9.76	9.59	-1.78
13,125.00	89.81	359.58	12,715.55	166.92	273.71	164.10	2.27	2.06	0.95
13,219.00	90.33	359.57	12,715.43	260.92	273.02	258.10	0.55	0.55	-0.01
13,314.00	90.25	0.67	12,714.95	355.92	273.22	353.09	1.16	-0.08	1.16
13,409.00	88.54	0.53	12,715.95	450.90	274.21	448.06	1.81	-1.80	-0.15
13,504.00	88.70	0.70	12,718.24	545.87	275.23	543.01	0.25	0.17	0.18
13,598.00	88.56	1.50	12,720.49	639.83	277.03	636.94	0.86	-0.15	0.85
13,693.00	87.94	359.25	12,723.39	734.77	277.66	731.88	2.46	-0.65	-2.37
13,788.00	88.61	359.35	12,726.25	829.72	276.50	826.83	0.71	0.71	0.11
13,883.00	88.59	0.06	12,728.57	924.69	276.01	921.80	0.75	-0.02	0.75
13,977.00	89.18	0.40	12,730.40	1,018.67	276.38	1,015.77	0.72	0.63	0.36
14,072.00	88.34	0.03	12,732.46	1,113.65	276.74	1,110.74	0.97	-0.88	-0.39
14,167.00	88.27	359.94	12,735.27	1,208.61	276.72	1,205.69	0.12	-0.07	-0.09
14,262.00	87.46	359.02	12,738.81	1,303.54	275.85	1,300.63	1.29	-0.85	-0.97
14,357.00	87.73	359.01	12,742.79	1,398.44	274.22	1,395.54	0.28	0.28	-0.01
14,452.00	88.05	358.90	12,746.29	1,493.36	272.49	1,490.47	0.36	0.34	-0.12
14,547.00	88.04	358.86	12,749.53	1,588.28	270.64	1,585.41	0.04	-0.01	-0.04
14,642.00	87.63	358.58	12,753.12	1,683.19	268.52	1,680.34	0.52	-0.43	-0.29
14,736.00	90.05	1.17	12,755.02	1,777.16	268.31	1,774.30	3.77	2.57	2.76
14,831.00	89.75	1.08	12,755.19	1,872.14	270.18	1,869.26	0.33	-0.32	-0.09
14,925.00	88.11	0.49	12,756.94	1,966.11	271.46	1,963.21	1.85	-1.74	-0.63
15,019.00	87.26	359.63	12,760.74	2,060.03	271.56	2,057.13	1.29	-0.90	-0.91
15,113.00	88.20	358.95	12,764.46	2,153.95	270.40	2,151.05	1.23	1.00	-0.72
15,208.00	90.56	0.50	12,765.49	2,248.93	269.94	2,246.03	2.97	2.48	1.63
15,301.00	89.36	357.45	12,765.56	2,341.91	268.28	2,339.02	3.52	-1.29	-3.28
15,396.00	89.62	357.95	12,766.40	2,436.83	264.47	2,433.97	0.59	0.27	0.53
15,491.00	91.43	0.62	12,765.53	2,531.80	263.28	2,528.96	3.40	1.91	2.81
15,586.00	90.52	358.36	12,763.91	2,626.78	262.44	2,623.94	2.56	-0.96	-2.38
15,681.00	89.85	357.96	12,763.61	2,721.73	259.39	2,718.91	0.82	-0.71	-0.42
15,776.00	90.84	0.12	12,763.04	2,816.70	257.79	2,813.90	2.50	1.04	2.27
15,869.00	90.07	357.35	12,762.30	2,909.67	255.74	2,906.88	3.09	-0.83	-2.98
15,964.00	89.76	358.08	12,762.44	3,004.59	251.95	3,001.84	0.83	-0.33	0.77
16,060.00	89.27	355.80	12,763.25	3,100.45	246.83	3,097.74	2.43	-0.51	-2.38
16,154.00	91.83	1.96	12,762.35	3,194.37	244.99	3,191.68	7.10	2.72	6.55
16,250.00	89.64	357.08	12,761.12	3,290.32	244.19	3,287.64	5.57	-2.28	-5.08
16,345.00	89.93	358.24	12,761.47	3,385.24	240.31	3,382.59	1.26	0.31	1.22
16,439.00	88.99	356.07	12,762.36	3,479.12	235.64	3,476.51	2.52	-1.00	-2.31
16,534.00	89.98	0.28	12,763.21	3,574.04	232.62	3,571.46	4.55	1.04	4.43



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3230.50usft (Est KB)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,628.00	90.36	0.23	12,762.93	3,668.04	233.04	3,665.45	0.41	0.40	-0.05
16,723.00	91.07	359.87	12,761.75	3,763.03	233.12	3,760.43	0.84	0.75	-0.38
16,818.00	89.31	359.38	12,761.43	3,858.03	232.50	3,855.43	1.92	-1.85	-0.52
16,911.00	91.36	0.03	12,760.89	3,951.02	232.02	3,948.42	2.31	2.20	0.70
17,005.00	91.18	359.49	12,758.81	4,044.99	231.63	4,042.39	0.61	-0.19	-0.57
17,099.00	91.02	357.38	12,757.00	4,138.94	229.06	4,136.36	2.25	-0.17	-2.24
17,193.00	89.84	356.58	12,756.30	4,232.80	224.11	4,230.27	1.52	-1.26	-0.85
17,288.00	91.15	358.77	12,755.47	4,327.71	220.25	4,325.21	2.69	1.38	2.31
17,382.00	89.21	0.87	12,755.18	4,421.70	219.96	4,419.20	3.04	-2.06	2.23
17,476.00	89.71	1.12	12,756.07	4,515.68	221.59	4,513.16	0.59	0.53	0.27
17,570.00	90.02	1.75	12,756.29	4,609.65	223.94	4,607.10	0.75	0.33	0.67
17,665.00	90.08	1.80	12,756.20	4,704.60	226.89	4,702.02	0.08	0.06	0.05
17,761.00	91.15	3.52	12,755.17	4,800.49	231.34	4,797.85	2.11	1.11	1.79
17,854.00	90.86	4.47	12,753.54	4,893.25	237.82	4,890.54	1.07	-0.31	1.02
17,949.00	90.61	4.26	12,752.32	4,987.97	245.05	4,985.18	0.34	-0.26	-0.22
18,044.00	92.66	4.89	12,749.61	5,082.62	252.62	5,079.75	2.26	2.16	0.66
18,139.00	90.24	357.02	12,747.21	5,177.49	254.20	5,174.60	8.66	-2.55	-8.28
18,233.00	92.67	358.82	12,744.82	5,271.39	250.79	5,268.53	3.22	2.59	1.91
18,328.00	92.12	357.95	12,740.85	5,366.27	248.12	5,363.43	1.08	-0.58	-0.92
18,423.00	91.21	357.85	12,738.09	5,461.16	244.64	5,458.36	0.96	-0.96	-0.11
18,518.00	90.25	358.94	12,736.88	5,556.12	241.98	5,553.33	1.53	-1.01	1.15
18,613.00	91.40	357.36	12,735.51	5,651.05	238.91	5,648.29	2.06	1.21	-1.66
18,708.00	90.44	355.79	12,733.98	5,745.87	233.23	5,743.16	1.94	-1.01	-1.65
18,802.00	90.95	354.54	12,732.84	5,839.52	225.31	5,836.89	1.44	0.54	-1.33
18,897.00	94.20	356.52	12,728.58	5,934.12	217.92	5,931.56	4.00	3.42	2.08
18,992.00	94.48	356.67	12,721.39	6,028.68	212.29	6,026.18	0.33	0.29	0.16
19,086.00	93.83	355.39	12,714.58	6,122.21	205.80	6,119.76	1.52	-0.69	-1.36
19,181.00	94.51	356.83	12,707.67	6,216.73	199.37	6,214.35	1.67	0.72	1.52
19,276.00	95.27	358.66	12,699.57	6,311.31	195.64	6,308.96	2.08	0.80	1.93
19,371.00	90.75	3.10	12,694.58	6,406.12	197.11	6,403.75	6.66	-4.76	4.67
19,467.00	91.04	2.03	12,693.08	6,502.01	201.40	6,499.59	1.15	0.30	-1.11
19,561.00	91.73	2.73	12,690.81	6,595.90	205.31	6,593.44	1.05	0.73	0.74
19,656.00	89.42	1.38	12,689.85	6,690.83	208.71	6,688.32	2.82	-2.43	-1.42
19,751.00	87.77	359.41	12,692.18	6,785.79	209.37	6,783.27	2.70	-1.74	-2.07
19,846.00	88.67	359.64	12,695.14	6,880.74	208.58	6,878.22	0.98	0.95	0.24
19,940.00	89.35	359.94	12,696.76	6,974.72	208.24	6,972.21	0.79	0.72	0.32
20,036.00	91.80	0.79	12,695.80	7,070.71	208.85	7,068.18	2.70	2.55	0.89
20,129.00	90.27	0.59	12,694.12	7,163.68	209.97	7,161.14	1.66	-1.65	-0.22
20,223.00	89.31	359.10	12,694.46	7,257.68	209.71	7,255.13	1.89	-1.02	-1.59
20,318.00	90.79	3.63	12,694.38	7,352.62	211.98	7,350.05	5.02	1.56	4.77
20,412.00	91.75	7.14	12,692.29	7,446.17	220.79	7,443.50	3.87	1.02	3.73
20,507.00	90.32	3.45	12,690.58	7,540.73	229.56	7,537.97	4.16	-1.51	-3.88
20,602.00	89.85	357.90	12,690.44	7,635.68	230.67	7,632.90	5.86	-0.49	-5.84



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 431H
Project:	Lea County, NM - (NAD83 NME)	TVD Reference:	RKB @ 3230.50usft (Est KB)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3230.50usft (Est KB)
Well:	431H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,697.00	93.05	358.75	12,688.03	7,730.60	227.90	7,727.84	3.49	3.37	0.89
20,791.00	93.11	357.91	12,682.98	7,824.42	225.16	7,821.69	0.89	0.06	-0.89
20,886.00	90.73	356.75	12,679.80	7,919.26	220.74	7,916.57	2.79	-2.51	-1.22
20,982.00	91.10	356.48	12,678.27	8,015.08	215.07	8,012.44	0.48	0.39	-0.28
21,076.00	91.41	355.64	12,676.21	8,108.83	208.62	8,106.26	0.95	0.33	-0.89
21,169.00	91.01	357.37	12,674.24	8,201.64	202.95	8,199.11	1.91	-0.43	1.86
21,264.00	89.44	354.79	12,673.87	8,296.40	196.45	8,293.94	3.18	-1.65	-2.72
21,358.00	91.15	356.51	12,673.39	8,390.12	189.32	8,387.73	2.58	1.82	1.83
21,454.00	92.09	0.37	12,670.67	8,486.03	186.71	8,483.66	4.14	0.98	4.02
21,548.00	89.50	359.22	12,669.37	8,580.01	186.37	8,577.64	3.01	-2.76	-1.22
21,643.00	90.82	1.15	12,669.10	8,675.00	186.68	8,672.62	2.46	1.39	2.03
21,738.00	90.90	3.35	12,667.68	8,769.91	190.41	8,767.49	2.32	0.08	2.32
21,832.00	91.36	2.09	12,665.82	8,863.79	194.87	8,861.31	1.43	0.49	-1.34
21,926.00	92.04	1.75	12,663.03	8,957.69	198.02	8,955.18	0.81	0.72	-0.36
22,021.00	92.41	1.59	12,659.34	9,052.58	200.78	9,050.03	0.42	0.39	-0.17
22,116.00	90.93	1.22	12,656.58	9,147.51	203.11	9,144.93	1.61	-1.56	-0.39
22,210.00	90.99	3.11	12,655.00	9,241.42	206.66	9,238.81	2.01	0.06	2.01
22,304.00	88.99	357.04	12,655.02	9,335.38	206.79	9,332.75	6.80	-2.13	-6.46
22,399.00	90.75	4.49	12,655.23	9,430.30	208.05	9,427.65	8.06	1.85	7.84
22,493.00	89.18	1.07	12,655.29	9,524.17	212.61	9,521.47	4.00	-1.67	-3.64
22,588.00	89.04	357.29	12,656.77	9,619.13	211.25	9,616.44	3.98	-0.15	-3.98
22,683.00	91.92	0.70	12,655.97	9,714.09	209.59	9,711.41	4.70	3.03	3.59
22,777.00	90.96	358.13	12,653.61	9,808.04	208.63	9,805.38	2.92	-1.02	-2.73
22,872.00	89.10	359.61	12,653.56	9,903.02	206.75	9,900.37	2.50	-1.96	1.56
22,966.00	90.35	1.92	12,654.01	9,997.00	208.01	9,994.33	2.79	1.33	2.46
23,061.00	89.88	358.77	12,653.82	10,091.99	208.58	10,089.30	3.35	-0.49	-3.32
23,155.00	90.27	357.18	12,653.70	10,185.93	205.26	10,183.27	1.74	0.41	-1.69
Final Phoenix MWD Survey (as planned - see C-104 for actuals)									
23,168.00	90.27	357.18	12,653.63	10,198.91	204.62	10,196.26	0.00	0.00	0.00
LTP: 23168' MD									
23,230.00	90.27	357.18	12,653.34	10,260.83	201.57	10,258.21	0.00	0.00	0.00
Projection to TD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
166.00	165.94	1.49	-3.43	First Phoenix MWD Survey
12,780.00	12,650.04	-167.09	279.16	FTP:12780' MD (as planned - see C-104 for actuals)
23,155.00	12,653.70	10,185.93	205.26	Final Phoenix MWD Survey
23,168.00	12,653.63	10,198.91	204.62	LTP: 23168' MD (as planned - see C-104 for actuals)
23,230.00	12,653.34	10,260.83	201.57	Projection to TD

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 38658

ACKNOWLEDGMENTS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 38658
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 38658

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 38658
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 expires 11/09/2021; submit all drilling, casing, and completion sundries/reports.	8/9/2021