

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 - 025-48402	⁵ Pool Name WC-025 G-08 S263412K; Bone Spring	⁶ Pool Code 96672
⁷ Property Code 329869	⁸ Property Name Love Shack Fed Com	⁹ Well Number 321H

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	644'	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		17'	N	316'	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				

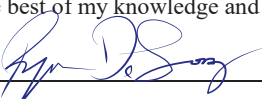
III. Oil and Gas Transporters

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 2/28/2021	²² Ready Date Expected 8/15/2021	²³ TD 22829	²⁴ PBTD N/A	²⁵ Perforations 12488'-22732'	²⁶ DHC, MC N/A
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
13.5	10.75	1203'	700 Class C		
9.875	7.625	11909	1780 Class H/C		
6.75	5.5	11700'	Included Below		
6.75	5	22829'	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 30-025-48402	2 Pool Code 96672	3 Pool Name WC-025 G-08 S263412K; BONE SPRING
4 Property Code 329869	5 Property Name LOVE SHACK FED COM	
6 Well Number 321H		
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	
9 Elevation 3202'		

¹⁰ Surface Location

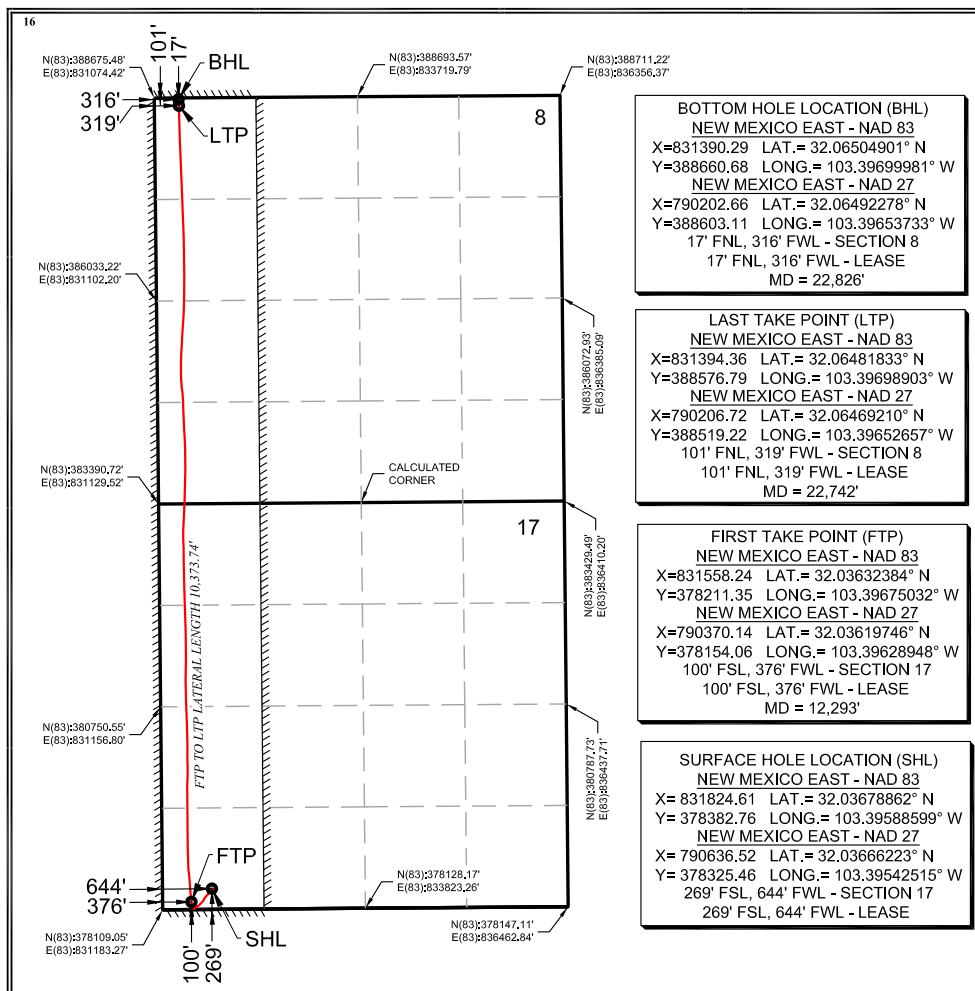
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	26-S	35-E		269'	SOUTH	644'	WEST	LEA

¹¹ 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		17'	NORTH	316'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320	Y		

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.

Signature _____ Date 7/28/2021

Ryan DeLong - Regulatory Manager
Printed Name

rdelong@titusoil.com

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: _____

12177
REGISTERED PROFESSIONAL SURVEYOR
6/23/2021
Certificate Number



Titus Oil & Gas Production, LLC

Lea County, NM (NAD27 NME)

Love Shack Fed Com

321H

OH / 67358

Survey: Phoenix MWD Surveys

Standard Survey Report

24 May, 2021





Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 321H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3225.00usft (Nabors 7503)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3225.00usft (Nabors 7503)
Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 7503)	Database:	USA Compass

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Love Shack Fed Com							
Site Position:		Northing:	378,325.18	usft	Latitude:	32° 2' 11.983884 N			
From:	Map	Easting:	790,606.47	usft	Longitude:	103° 23' 43.879668 W			
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.50	°

Well	321H					
Well Position	+N/-S	0.00 usft	Northing:	378,325.46 usft	Latitude:	32° 2' 11.984028 N
	+E/-W	0.00 usft	Easting:	790,636.52 usft	Longitude:	103° 23' 43.530540 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,202.00 usft

Wellbore	OH / 67358				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	3/20/2021	6.37	59.63	47,479.75569497

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)	Direction (°)	
	0.00	0.00	0.00	359.41	

Survey Program	Date	5/24/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
186.00	22,826.00	Phoenix MWD Surveys (OH / 67358)	MWD+HRGM	OWSG MWD + HRGM	

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
186.00	1.14	54.02	185.99	1.09	1.50	1.07	0.61	0.61	0.00
First Phoenix MWD Survey									
340.00	0.92	83.78	339.96	2.12	3.97	2.08	0.37	-0.14	19.32
492.00	1.15	78.53	491.94	2.56	6.67	2.49	0.16	0.15	-3.45
674.00	1.00	98.29	673.91	2.69	10.04	2.59	0.22	-0.08	10.86
857.00	1.04	177.20	856.89	0.80	11.70	0.68	0.71	0.02	43.12
1,040.00	1.18	250.03	1,039.86	-1.50	10.01	-1.60	0.72	0.08	39.80
1,157.00	1.18	246.99	1,156.84	-2.38	7.77	-2.46	0.05	0.00	-2.60
1,235.00	1.35	240.20	1,234.82	-3.15	6.23	-3.22	0.29	0.22	-8.71
1,420.00	2.65	245.13	1,419.70	-6.04	0.46	-6.04	0.71	0.70	2.66



Survey Report



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Site:	Love Shack Fed Com	MD Reference:	RKB @ 3225.00usft (Nabors 7503)
Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	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)
1,609.00	2.74	238.29	1,608.49	-10.25	-7.35	-10.17	0.18	0.05	-3.62
1,796.00	2.64	234.04	1,795.29	-15.13	-14.64	-14.97	0.12	-0.05	-2.27
1,984.00	2.61	234.57	1,983.09	-20.15	-21.63	-19.93	0.02	-0.02	0.28
2,171.00	2.47	217.74	2,169.91	-25.80	-27.57	-25.52	0.40	-0.07	-9.00
2,359.00	2.66	211.24	2,357.72	-32.74	-32.31	-32.40	0.18	0.10	-3.46
2,547.00	2.68	204.80	2,545.52	-40.46	-36.41	-40.08	0.16	0.01	-3.43
2,735.00	2.50	199.54	2,733.32	-48.31	-39.63	-47.90	0.16	-0.10	-2.80
2,924.00	3.08	212.28	2,922.10	-56.49	-43.72	-56.04	0.45	0.31	6.74
3,112.00	3.22	213.01	3,109.82	-65.19	-49.29	-64.68	0.08	0.07	0.39
3,301.00	2.57	200.83	3,298.58	-73.60	-53.69	-73.04	0.47	-0.34	-6.44
3,489.00	3.72	229.23	3,486.30	-81.52	-59.81	-80.90	1.01	0.61	15.11
3,676.00	2.49	221.91	3,673.02	-88.51	-67.12	-87.81	0.69	-0.66	-3.91
3,864.00	1.99	216.05	3,860.88	-94.18	-71.77	-93.44	0.29	-0.27	-3.12
4,051.00	3.01	218.22	4,047.70	-100.67	-76.72	-99.87	0.55	0.55	1.16
4,239.00	2.27	224.99	4,235.50	-107.18	-82.40	-106.32	0.43	-0.39	3.60
4,426.00	1.87	218.04	4,422.38	-112.20	-86.90	-111.30	0.25	-0.21	-3.72
4,614.00	3.43	224.62	4,610.17	-118.62	-92.74	-117.66	0.84	0.83	3.50
4,802.00	4.15	207.84	4,797.76	-128.64	-99.87	-127.60	0.70	0.38	-8.93
4,990.00	4.91	197.74	4,985.18	-142.32	-105.50	-141.22	0.58	0.40	-5.37
5,178.00	4.76	212.07	5,172.52	-156.59	-112.09	-155.43	0.65	-0.08	7.62
5,272.00	5.09	224.53	5,266.17	-162.87	-117.08	-161.65	1.19	0.35	13.26
5,367.00	4.72	224.87	5,360.82	-168.64	-122.80	-167.37	0.39	-0.39	0.36
5,555.00	4.17	222.38	5,548.26	-179.17	-132.86	-177.80	0.31	-0.29	-1.32
5,743.00	3.98	224.63	5,735.78	-188.87	-142.05	-187.39	0.13	-0.10	1.20
5,931.00	3.29	218.94	5,923.40	-197.71	-150.03	-196.15	0.41	-0.37	-3.03
6,120.00	4.23	232.10	6,112.00	-206.21	-158.94	-204.56	0.67	0.50	6.96
6,308.00	3.63	227.92	6,299.55	-214.45	-168.82	-212.70	0.35	-0.32	-2.22
6,496.00	3.20	226.89	6,487.22	-222.03	-177.07	-220.19	0.23	-0.23	-0.55
6,684.00	4.55	235.81	6,674.79	-229.80	-187.07	-227.87	0.78	0.72	4.74
6,871.00	4.96	239.89	6,861.14	-238.03	-200.20	-235.95	0.28	0.22	2.18
7,059.00	4.60	240.42	7,048.49	-245.83	-213.79	-243.61	0.19	-0.19	0.28
7,248.00	4.04	235.99	7,236.95	-253.29	-225.90	-250.95	0.34	-0.30	-2.34
7,436.00	3.53	230.66	7,424.54	-260.67	-235.86	-258.22	0.33	-0.27	-2.84
7,624.00	2.16	268.49	7,612.32	-264.43	-243.88	-261.90	1.20	-0.73	20.12
7,812.00	1.66	268.03	7,800.22	-264.62	-250.15	-262.03	0.27	-0.27	-0.24
8,000.00	1.52	257.34	7,988.15	-265.26	-255.30	-262.61	0.17	-0.07	-5.69
8,188.00	1.26	249.35	8,176.09	-266.53	-259.67	-263.84	0.17	-0.14	-4.25
8,377.00	1.18	243.41	8,365.05	-268.13	-263.35	-265.41	0.08	-0.04	-3.14
8,565.00	0.88	240.15	8,553.02	-269.72	-266.33	-266.96	0.16	-0.16	-1.73
8,752.00	0.67	238.26	8,740.00	-271.01	-268.51	-268.23	0.11	-0.11	-1.01
8,940.00	0.66	220.32	8,927.99	-272.41	-270.15	-269.62	0.11	-0.01	-9.54
9,128.00	1.00	157.76	9,115.97	-274.76	-270.23	-271.96	0.48	0.18	-33.28
9,316.00	1.13	140.42	9,303.94	-277.70	-268.42	-274.93	0.18	0.07	-9.22



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 321H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3225.00usft (Nabors 7503)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3225.00usft (Nabors 7503)
Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	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)
9,504.00	1.54	142.07	9,491.89	-281.13	-265.69	-278.38	0.22	0.22	0.88
9,692.00	1.02	110.94	9,679.84	-283.72	-262.57	-281.00	0.45	-0.28	-16.56
9,881.00	1.02	355.37	9,868.83	-282.64	-261.14	-279.94	0.91	0.00	-61.15
10,069.00	0.79	355.04	10,056.80	-279.68	-261.39	-276.98	0.12	-0.12	-0.18
10,258.00	1.25	2.06	10,245.77	-276.32	-261.42	-273.62	0.25	0.24	3.71
10,446.00	1.81	356.46	10,433.70	-271.31	-261.53	-268.60	0.31	0.30	-2.98
10,634.00	1.58	23.00	10,621.62	-265.96	-260.70	-263.26	0.43	-0.12	14.12
10,822.00	1.60	44.26	10,809.55	-261.70	-257.86	-259.03	0.31	0.01	11.31
11,010.00	2.21	10.69	10,997.45	-256.25	-255.36	-253.61	0.66	0.32	-17.86
11,197.00	1.55	6.19	11,184.35	-250.20	-254.41	-247.56	0.36	-0.35	-2.41
11,291.00	0.99	8.75	11,278.33	-248.13	-254.15	-245.50	0.60	-0.60	2.72
11,479.00	1.95	129.68	11,466.29	-248.57	-251.44	-245.97	1.38	0.51	64.32
11,667.00	0.94	168.14	11,654.24	-252.12	-248.67	-249.55	0.72	-0.54	20.46
11,855.00	1.43	201.48	11,842.20	-255.81	-249.21	-253.23	0.44	0.26	17.73
11,957.00	1.56	207.58	11,944.16	-258.23	-250.32	-255.64	0.20	0.13	5.98
12,052.00	5.34	352.62	12,039.05	-254.98	-251.48	-252.38	7.03	3.98	152.67
12,099.00	12.78	348.88	12,085.43	-247.70	-252.77	-245.09	15.87	15.83	-7.96
12,147.00	18.09	349.27	12,131.68	-235.16	-255.18	-232.52	11.06	11.06	0.81
12,194.00	22.64	348.94	12,175.73	-219.11	-258.28	-216.44	9.68	9.68	-0.70
12,242.00	29.41	349.76	12,218.84	-198.42	-262.15	-195.71	14.12	14.10	1.71
12,289.00	35.01	352.07	12,258.59	-173.69	-266.06	-170.94	12.20	11.91	4.91
12,293.00	35.48	352.33	12,261.86	-171.40	-266.38	-168.65	12.28	11.68	6.58
FTP: 12293°MD/12261.86°TVD (as planned - see C-104 for actuals)									
12,337.00	40.65	354.88	12,296.49	-144.45	-269.36	-141.67	12.28	11.76	5.79
12,384.00	44.48	354.42	12,331.10	-112.81	-272.33	-110.00	8.18	8.15	-0.98
12,432.00	49.54	354.56	12,363.82	-77.87	-275.70	-75.03	10.54	10.54	0.29
12,479.00	57.75	353.96	12,391.66	-40.24	-279.49	-37.36	17.50	17.47	-1.28
12,526.00	66.02	355.80	12,413.79	1.01	-283.16	3.93	17.93	17.60	3.91
12,573.00	67.95	355.33	12,432.16	44.14	-286.51	47.09	4.21	4.11	-1.00
12,622.00	69.97	355.51	12,449.75	89.72	-290.16	92.71	4.14	4.12	0.37
12,668.00	72.82	355.69	12,464.43	133.19	-293.50	136.20	6.21	6.20	0.39
12,717.00	77.48	354.66	12,476.98	180.37	-297.49	183.42	9.72	9.51	-2.10
12,764.00	84.22	353.66	12,484.45	226.50	-302.21	229.60	14.49	14.34	-2.13
12,811.00	90.13	355.01	12,486.77	273.19	-306.84	276.34	12.90	12.57	2.87
12,841.00	91.13	355.82	12,486.44	303.09	-309.24	306.26	4.29	3.33	2.70
12,933.00	92.33	358.57	12,483.66	394.93	-313.74	398.14	3.26	1.30	2.99
13,028.00	90.49	359.68	12,481.32	489.89	-315.19	493.11	2.26	-1.94	1.17
13,123.00	91.53	359.96	12,479.65	584.87	-315.49	588.09	1.13	1.09	0.29
13,218.00	89.44	359.83	12,478.84	679.86	-315.66	683.08	2.20	-2.20	-0.14
13,312.00	91.05	0.24	12,478.44	773.86	-315.61	777.07	1.77	1.71	0.44
13,407.00	88.27	359.30	12,479.00	868.84	-315.99	872.05	3.09	-2.93	-0.99
13,502.00	87.82	358.47	12,482.25	963.77	-317.84	966.99	0.99	-0.47	-0.87
13,597.00	89.45	358.43	12,484.51	1,058.70	-320.40	1,061.95	1.72	1.72	-0.04



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 321H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3225.00usft (Nabors 7503)
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Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	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)	
13,692.00	90.12	357.85	12,484.87	1,153.65	-323.49	1,156.92	0.93	0.71	-0.61	
13,786.00	91.02	0.66	12,483.93	1,247.63	-324.71	1,250.91	3.14	0.96	2.99	
13,881.00	89.67	2.09	12,483.36	1,342.60	-322.43	1,345.85	2.07	-1.42	1.51	
13,976.00	88.84	2.61	12,484.59	1,437.51	-318.54	1,440.71	1.03	-0.87	0.55	
14,071.00	86.39	359.64	12,488.55	1,532.39	-316.67	1,535.57	4.05	-2.58	-3.13	
14,166.00	86.59	359.11	12,494.36	1,627.20	-317.70	1,630.39	0.60	0.21	-0.56	
14,261.00	87.34	358.85	12,499.39	1,722.06	-319.39	1,725.25	0.84	0.79	-0.27	
14,356.00	89.84	0.37	12,501.73	1,817.01	-320.04	1,820.21	3.08	2.63	1.60	
14,451.00	87.78	358.81	12,503.70	1,911.98	-320.72	1,915.18	2.72	-2.17	-1.64	
14,546.00	88.42	358.62	12,506.85	2,006.91	-322.85	2,010.12	0.70	0.67	-0.20	
14,640.00	87.36	358.81	12,510.31	2,100.82	-324.95	2,104.05	1.15	-1.13	0.20	
14,735.00	86.64	358.17	12,515.29	2,195.65	-327.45	2,198.91	1.01	-0.76	-0.67	
14,829.00	87.39	357.97	12,520.18	2,289.47	-330.62	2,292.76	0.83	0.80	-0.21	
14,924.00	87.60	357.48	12,524.33	2,384.31	-334.38	2,387.62	0.56	0.22	-0.52	
15,018.00	88.17	357.35	12,527.80	2,478.15	-338.62	2,481.50	0.62	0.61	-0.14	
15,112.00	89.38	358.92	12,529.81	2,572.07	-341.68	2,575.45	2.11	1.29	1.67	
15,206.00	90.59	0.79	12,529.84	2,666.06	-341.92	2,669.44	2.37	1.29	1.99	
15,300.00	89.68	0.71	12,529.62	2,760.05	-340.68	2,763.42	0.97	-0.97	-0.09	
15,394.00	90.10	0.52	12,529.80	2,854.05	-339.68	2,857.40	0.49	0.45	-0.20	
15,489.00	90.56	0.39	12,529.25	2,949.04	-338.92	2,952.38	0.50	0.48	-0.14	
15,584.00	89.52	0.46	12,529.18	3,044.04	-338.22	3,047.36	1.10	-1.09	0.07	
15,679.00	88.39	359.57	12,530.91	3,139.02	-338.19	3,142.34	1.51	-1.19	-0.94	
15,774.00	88.25	358.95	12,533.70	3,233.97	-339.42	3,237.30	0.67	-0.15	-0.65	
15,868.00	90.28	358.77	12,534.91	3,327.94	-341.29	3,331.28	2.17	2.16	-0.19	
15,963.00	90.50	358.02	12,534.26	3,422.90	-343.95	3,426.26	0.82	0.23	-0.79	
16,058.00	90.44	357.32	12,533.48	3,517.82	-347.81	3,521.21	0.74	-0.06	-0.74	
16,153.00	90.98	356.92	12,532.30	3,612.69	-352.58	3,616.13	0.71	0.57	-0.42	
16,248.00	90.32	359.64	12,531.22	3,707.63	-355.43	3,711.10	2.95	-0.69	2.86	
16,343.00	91.01	359.76	12,530.12	3,802.62	-355.93	3,806.09	0.74	0.73	0.13	
16,437.00	89.10	358.73	12,530.03	3,896.61	-357.17	3,900.08	2.31	-2.03	-1.10	
16,532.00	89.31	358.47	12,531.35	3,991.57	-359.49	3,995.06	0.35	0.22	-0.27	
16,626.00	89.45	357.72	12,532.37	4,085.51	-362.62	4,089.03	0.81	0.15	-0.80	
16,721.00	90.25	358.73	12,532.62	4,180.47	-365.56	4,184.01	1.36	0.84	1.06	
16,816.00	90.96	0.02	12,531.61	4,275.45	-366.59	4,279.00	1.55	0.75	1.36	
16,909.00	90.75	358.91	12,530.22	4,368.44	-367.46	4,371.99	1.21	-0.23	-1.19	
17,003.00	90.13	357.49	12,529.50	4,462.39	-370.42	4,465.96	1.65	-0.66	-1.51	
17,097.00	90.87	358.44	12,528.68	4,556.32	-373.75	4,559.93	1.28	0.79	1.01	
17,192.00	93.20	1.19	12,525.31	4,651.24	-374.06	4,654.85	3.79	2.45	2.89	
17,286.00	92.75	3.43	12,520.43	4,745.04	-370.28	4,748.60	2.43	-0.48	2.38	
17,380.00	91.19	2.76	12,517.20	4,838.84	-365.21	4,842.34	1.81	-1.66	-0.71	
17,474.00	90.36	1.47	12,515.93	4,932.76	-361.74	4,936.23	1.63	-0.88	-1.37	
17,569.00	91.33	2.28	12,514.53	5,027.70	-358.63	5,031.13	1.33	1.02	0.85	
17,664.00	92.72	3.68	12,511.17	5,122.51	-353.69	5,125.88	2.08	1.46	1.47	
17,759.00	90.84	1.29	12,508.22	5,217.36	-349.58	5,220.69	3.20	-1.98	-2.52	



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 321H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3225.00usft (Nabors 7503)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3225.00usft (Nabors 7503)
Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	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)
17,853.00	91.12	1.11	12,506.61	5,311.33	-347.61	5,314.63	0.35	0.30	-0.19
17,947.00	91.87	0.93	12,504.16	5,405.28	-345.94	5,408.56	0.82	0.80	-0.19
18,043.00	91.30	359.15	12,501.50	5,501.24	-345.87	5,504.51	1.95	-0.59	-1.85
18,138.00	92.58	359.64	12,498.29	5,596.18	-346.87	5,599.45	1.44	1.35	0.52
18,232.00	92.59	358.62	12,494.05	5,690.07	-348.30	5,693.35	1.08	0.01	-1.09
18,327.00	89.35	357.21	12,492.44	5,784.98	-351.76	5,788.29	3.72	-3.41	-1.48
18,422.00	90.08	357.75	12,492.91	5,879.88	-355.93	5,883.24	0.96	0.77	0.57
18,517.00	88.78	356.61	12,493.86	5,974.76	-360.61	5,978.16	1.82	-1.37	-1.20
18,611.00	89.75	358.11	12,495.06	6,068.65	-364.93	6,072.09	1.90	1.03	1.60
18,706.00	88.88	356.97	12,496.20	6,163.55	-369.01	6,167.03	1.51	-0.92	-1.20
18,801.00	90.50	357.95	12,496.71	6,258.45	-373.22	6,261.96	1.99	1.71	1.03
18,896.00	92.18	359.07	12,494.49	6,353.39	-375.69	6,356.92	2.13	1.77	1.18
18,990.00	91.86	352.44	12,491.17	6,447.02	-382.64	6,450.62	7.06	-0.34	-7.05
19,085.00	92.78	352.77	12,487.33	6,541.15	-394.86	6,544.87	1.03	0.97	0.35
19,180.00	92.94	359.02	12,482.58	6,635.74	-401.65	6,639.53	6.57	0.17	6.58
19,275.00	93.00	359.83	12,477.66	6,730.61	-402.60	6,734.40	0.85	0.06	0.85
19,370.00	92.18	359.56	12,473.37	6,825.51	-403.11	6,829.30	0.91	-0.86	-0.28
19,465.00	94.11	1.98	12,468.15	6,920.35	-401.83	6,924.12	3.26	2.03	2.55
19,560.00	94.78	3.69	12,460.79	7,014.94	-397.15	7,018.66	1.93	0.71	1.80
19,655.00	91.58	3.55	12,455.52	7,109.60	-391.16	7,113.25	3.37	-3.37	-0.15
19,750.00	91.76	3.55	12,452.75	7,204.37	-385.28	7,207.96	0.19	0.19	0.00
19,844.00	91.09	3.32	12,450.42	7,298.17	-379.65	7,301.70	0.75	-0.71	-0.24
19,939.00	91.46	3.60	12,448.30	7,392.98	-373.92	7,396.44	0.49	0.39	0.29
20,034.00	91.59	3.26	12,445.77	7,487.77	-368.24	7,491.17	0.38	0.14	-0.36
20,128.00	89.04	1.74	12,445.26	7,581.67	-364.14	7,585.02	3.16	-2.71	-1.62
20,222.00	89.76	1.52	12,446.24	7,675.63	-361.46	7,678.94	0.80	0.77	-0.23
20,317.00	89.79	1.31	12,446.61	7,770.60	-359.12	7,773.88	0.22	0.03	-0.22
20,411.00	91.12	359.67	12,445.87	7,864.59	-358.31	7,867.86	2.25	1.41	-1.74
20,506.00	91.50	359.36	12,443.70	7,959.56	-359.12	7,962.83	0.52	0.40	-0.33
20,600.00	92.35	359.20	12,440.54	8,053.50	-360.30	8,056.78	0.92	0.90	-0.17
20,696.00	90.15	358.67	12,438.44	8,149.45	-362.08	8,152.75	2.36	-2.29	-0.55
20,790.00	89.19	358.57	12,438.99	8,243.42	-364.35	8,246.74	1.03	-1.02	-0.11
20,885.00	89.68	358.40	12,439.92	8,338.38	-366.86	8,341.72	0.55	0.52	-0.18
20,980.00	91.01	359.18	12,439.35	8,433.36	-368.86	8,436.71	1.62	1.40	0.82
21,074.00	89.25	359.78	12,439.14	8,527.35	-369.72	8,530.70	1.98	-1.87	0.64
21,167.00	88.17	359.06	12,441.23	8,620.32	-370.66	8,623.68	1.40	-1.16	-0.77
21,262.00	87.93	358.31	12,444.46	8,715.24	-372.84	8,718.61	0.83	-0.25	-0.79
21,357.00	90.65	358.56	12,445.64	8,810.19	-375.43	8,813.58	2.88	2.86	0.26
21,452.00	90.42	356.74	12,444.75	8,905.10	-379.33	8,908.53	1.93	-0.24	-1.92
21,547.00	91.10	356.90	12,443.49	8,999.94	-384.60	9,003.43	0.74	0.72	0.17
21,633.00	91.15	356.70	12,441.81	9,085.79	-389.39	9,089.32	0.24	0.06	-0.23
21,729.00	92.01	356.56	12,439.16	9,181.59	-395.04	9,185.17	0.91	0.90	-0.15
21,822.00	90.62	357.48	12,437.02	9,274.44	-399.87	9,278.06	1.79	-1.49	0.99



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well 321H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3225.00usft (Nabors 7503)
Site:	Love Shack Fed Com	MD Reference:	RKB @ 3225.00usft (Nabors 7503)
Well:	321H	North Reference:	Grid
Wellbore:	OH / 67358	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)
21,917.00	90.44	356.88	12,436.15	9,369.32	-404.54	9,372.98	0.66	-0.19	-0.63
22,012.00	89.87	358.09	12,435.89	9,464.22	-408.71	9,467.93	1.41	-0.60	1.27
22,107.00	90.33	358.86	12,435.72	9,559.19	-411.24	9,562.91	0.94	0.48	0.81
22,200.00	90.96	358.97	12,434.68	9,652.16	-413.00	9,655.90	0.69	0.68	0.12
22,295.00	91.33	358.96	12,432.78	9,747.13	-414.72	9,750.88	0.39	0.39	-0.01
22,390.00	90.10	356.21	12,431.59	9,842.03	-418.72	9,845.82	3.17	-1.29	-2.89
22,484.00	90.35	358.73	12,431.22	9,935.93	-422.87	9,939.75	2.69	0.27	2.68
22,579.00	91.41	358.89	12,429.76	10,030.89	-424.84	10,034.74	1.13	1.12	0.17
22,673.00	91.53	358.23	12,427.35	10,124.83	-427.20	10,128.69	0.71	0.13	-0.70
22,742.85	91.18	357.46	12,425.70	10,194.61	-429.83	10,198.50	1.21	-0.49	-1.11
LTP: 22742.85'MD/12425.70'TVD (as planned - see C-104 for actuals)									
22,768.00	91.06	357.18	12,425.20	10,219.73	-431.01	10,223.63	1.21	-0.49	-1.11
Final Phoenix MWD Survey									
22,826.00	91.06	357.18	12,424.13	10,277.65	-433.86	10,281.57	0.00	0.00	0.00
Projection to TD									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
22,826.00	12,424.13	20" Casing	20	24

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
186.00	185.99	1.09	1.50	First Phoenix MWD Survey
12,293.00	12,261.86	-171.40	-266.38	FTP: 12293'MD/12261.86'TVD (as planned - see C-104 for actuals)
22,742.85	12,425.70	10,194.61	-429.83	LTP: 22742.85'MD/12425.70'TVD (as planned - see C-104 for actuals)
22,768.00	12,425.20	10,219.73	-431.01	Final Phoenix MWD Survey
22,826.00	12,424.13	10,277.65	-433.86	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

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 Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 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 38656

ACKNOWLEDGMENTS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID:	373986
	Action Number:	38656
	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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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

CONDITIONS

Action 38656

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 38656
	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