

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 - 0 25-48129	⁵ Pool Name WC-025 G-09 S263619C; Wolfcamp	⁶ Pool Code 98234
⁷ Property Code 329879	⁸ Property Name Cattlemen Fed Com	⁹ Well Number 434H

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
H	17	26S	35E		1948'	North	952'	East	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
P	20	26S	35E		37'	South	982'	East	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				

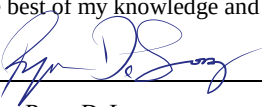
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
319135	Western Refining Pipeline, LLC 200 E. Hardin Street Frindlay, 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 4/22/2021	²² Ready Date Planned 9/1/2021	²³ TD 12736' TVD; 21131' MD	²⁴ PBTD	²⁵ Perforations 13350'-21055'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
13 1/2	10 3/4	1206'	665 Class C		
9 7/8	7 5/8	11985'	3615 Class H/C		
6 3/4	5 1/2	11724'	Included in total below		
6 3/4	5	21131'	1350 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: NM OCD, SANTA FE		
E-mail Address: rdelong@titusoil.com			Approval Date: 08/17/2021		
Date: 8/11/2021		Phone: 817-852-6370	RT C-104 EXPIRES 11/17/21		

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) 334-6170

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 30-025-48129	2 Pool Code 98234	3 Pool Name WC-025 G-09 S263619C; Wolfcamp
4 Property Code 329879	5 Property Name CATTLEMEN FED COM	6 Well Number 434H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3218'

¹⁰ Surface Location

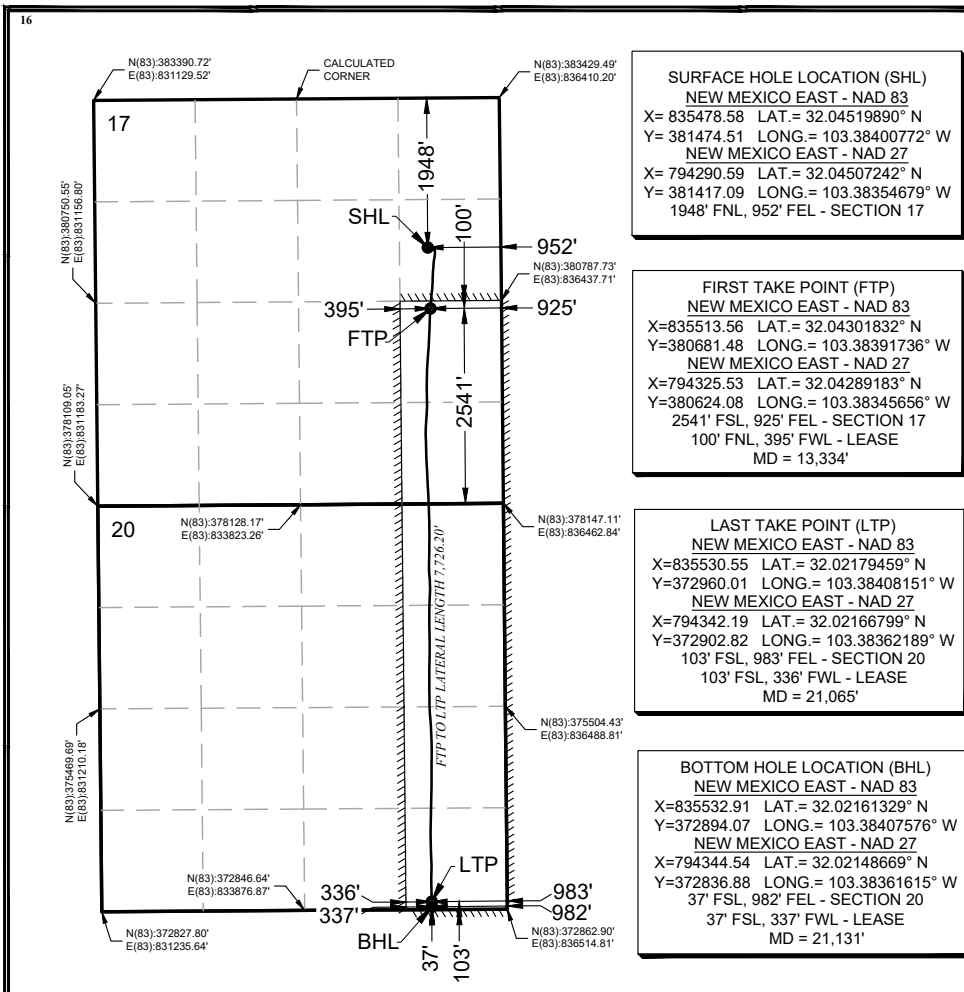
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	17	26-S	35-E		1948'	NORTH	952'	EAST	LEA

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
P	20	26-S	35-E		37'	SOUTH	982'	EAST	LEA

12 Dedicated Acres 240	13 Joint or Infill Y	14 Consolidation Code	15 Order No.
----------------------------------	--------------------------------	------------------------------	---------------------

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 8/12/2021
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:

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR
8/11/2021

Certificate Number



Titus Oil & Gas Production, LLC

Lea County, NM (NAD27 NME)

Cattleman Fed Com - Deep

Cattleman Fed Com 434H

OH / 67733

Survey: Phoenix MWD Suveys

Standard Survey Report

30 June, 2021





Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Cattleman Fed Com 434H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3244.50usft (H&P 474)
Site:	Cattleman Fed Com - Deep	MD Reference:	RKB @ 3244.50usft (H&P 474)
Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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	Cattleman Fed Com - Deep		
Site Position:		Northing:	381,417.66 usft
From:	Map	Easting:	794,350.48 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 42.261108 N
		Longitude:	103° 23' 0.072672 W
		Grid Convergence:	0.50 °

Well	Cattleman Fed Com 434H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 2' 42.260696 N
		Longitude:	103° 23' 0.768506 W
		Ground Level:	3,218.00 usft

Wellbore	OH / 67733		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	5/19/2021	6.35
			Dip Angle (°)
			59.63
			Field Strength (nT)
			47,468.40843845

Design	Surveys (H&P 474)		
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 (°)
			179.44

Survey Program	Date	6/30/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
174.00	21,131.00	Phoenix MWD Suveys (OH / 67733)	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
174.00	1.77	262.00	173.97	-0.37	-2.66	0.35	1.02	1.02	0.00
First Phoenix MWD Survey									
297.00	0.20	150.14	296.95	-0.82	-4.44	0.78	1.51	-1.28	-90.94
420.00	0.45	116.50	419.95	-1.23	-3.90	1.19	0.25	0.20	-27.35
511.00	0.26	85.28	510.95	-1.37	-3.37	1.34	0.29	-0.21	-34.31
602.00	0.26	111.15	601.95	-1.43	-2.97	1.40	0.13	0.00	28.43
693.00	0.40	82.87	692.95	-1.46	-2.46	1.44	0.23	0.15	-31.08
784.00	0.50	87.69	783.94	-1.41	-1.75	1.39	0.12	0.11	5.30
874.00	0.53	57.05	873.94	-1.16	-1.01	1.15	0.30	0.03	-34.04
964.00	0.40	53.36	963.94	-0.75	-0.41	0.75	0.15	-0.14	-4.10



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Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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)
1,055.00	0.33	56.42	1,054.94	-0.42	0.06	0.42	0.08	-0.08	3.36
1,145.00	0.24	84.61	1,144.94	-0.25	0.47	0.26	0.18	-0.10	31.32
1,151.00	0.22	91.65	1,150.94	-0.25	0.49	0.26	0.58	-0.33	117.33
1,234.00	0.01	60.18	1,233.93	-0.25	0.66	0.26	0.25	-0.25	-37.92
1,325.00	0.18	78.26	1,324.93	-0.22	0.80	0.23	0.19	0.19	19.87
1,417.00	0.18	60.81	1,416.93	-0.12	1.07	0.13	0.06	0.00	-18.97
1,509.00	0.09	46.25	1,508.93	0.00	1.25	0.01	0.10	-0.10	-15.83
1,602.00	0.05	9.46	1,601.93	0.09	1.31	-0.08	0.06	-0.04	-39.56
1,695.00	0.08	331.78	1,694.93	0.19	1.28	-0.17	0.05	0.03	-40.52
1,786.00	0.16	291.99	1,785.93	0.29	1.14	-0.28	0.12	0.09	-43.73
1,878.00	0.09	304.38	1,877.93	0.38	0.96	-0.37	0.08	-0.08	13.47
1,972.00	0.01	45.88	1,971.93	0.43	0.90	-0.42	0.10	-0.09	107.98
2,067.00	1.29	101.16	2,066.93	0.23	1.96	-0.21	1.35	1.35	58.19
2,161.00	2.79	101.66	2,160.86	-0.44	5.24	0.49	1.60	1.60	0.53
2,255.00	3.30	102.10	2,254.73	-1.47	10.12	1.57	0.54	0.54	0.47
2,350.00	3.28	99.95	2,349.57	-2.51	15.47	2.67	0.13	-0.02	-2.26
2,445.00	3.32	99.20	2,444.42	-3.42	20.87	3.63	0.06	0.04	-0.79
2,540.00	3.24	88.38	2,539.26	-3.79	26.26	4.04	0.66	-0.08	-11.39
2,635.00	3.35	79.85	2,634.10	-3.22	31.68	3.53	0.53	0.12	-8.98
2,729.00	3.74	82.61	2,727.92	-2.34	37.42	2.71	0.45	0.41	2.94
2,824.00	4.10	83.21	2,822.70	-1.54	43.87	1.97	0.38	0.38	0.63
2,919.00	3.27	81.14	2,917.51	-0.73	49.92	1.21	0.88	-0.87	-2.18
3,014.00	3.12	78.55	3,012.36	0.21	55.13	0.33	0.22	-0.16	-2.73
3,108.00	3.37	78.19	3,106.21	1.28	60.34	-0.69	0.27	0.27	-0.38
3,204.00	3.42	76.25	3,202.04	2.54	65.88	-1.89	0.13	0.05	-2.02
3,299.00	3.69	73.88	3,296.86	4.06	71.57	-3.36	0.32	0.28	-2.49
3,393.00	3.33	80.94	3,390.68	5.33	77.18	-4.57	0.60	-0.38	7.51
3,488.00	3.18	94.76	3,485.53	5.54	82.53	-4.74	0.84	-0.16	14.55
3,678.00	0.57	68.60	3,675.41	5.45	88.66	-4.59	1.41	-1.37	-13.77
3,772.00	1.12	79.13	3,769.40	5.80	90.00	-4.92	0.61	0.59	11.20
3,867.00	0.31	188.69	3,864.39	5.72	90.87	-4.83	1.32	-0.85	115.33
3,962.00	1.05	225.40	3,959.39	4.85	90.21	-3.97	0.87	0.78	38.64
4,057.00	0.61	223.71	4,054.38	3.88	89.24	-3.00	0.46	-0.46	-1.78
4,152.00	0.76	227.34	4,149.37	3.08	88.43	-2.22	0.16	0.16	3.82
4,340.00	0.55	201.68	4,337.36	1.40	87.18	-0.55	0.19	-0.11	-13.65
4,528.00	0.69	180.30	4,525.35	-0.57	86.84	1.42	0.14	0.07	-11.37
4,623.00	0.84	140.38	4,620.34	-1.68	87.28	2.53	0.57	0.16	-42.02
4,719.00	1.19	124.61	4,716.33	-2.79	88.55	3.65	0.46	0.36	-16.43
4,814.00	1.06	129.58	4,811.31	-3.91	90.04	4.79	0.17	-0.14	5.23
4,908.00	1.42	125.54	4,905.28	-5.14	91.66	6.03	0.39	0.38	-4.30
5,002.00	1.88	120.87	4,999.25	-6.61	93.93	7.52	0.51	0.49	-4.97
5,097.00	1.29	115.33	5,094.21	-7.86	96.23	8.80	0.64	-0.62	-5.83
5,192.00	0.45	8.21	5,189.20	-7.95	97.25	8.90	1.56	-0.88	-112.76



Survey Report



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Well:	Cattleman Fed Com 434H	North Reference:	Grid
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Design:	Surveys (H&P 474)	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)	
5,381.00	0.27	27.96	5,378.20	-6.82	97.57	7.78	0.11	-0.10	10.45	
5,475.00	0.25	13.19	5,472.20	-6.43	97.72	7.38	0.07	-0.02	-15.71	
5,570.00	0.27	349.89	5,567.19	-6.01	97.73	6.96	0.11	0.02	-24.53	
5,664.00	0.21	356.69	5,661.19	-5.62	97.68	6.57	0.07	-0.06	7.23	
5,759.00	0.34	359.59	5,756.19	-5.16	97.66	6.12	0.14	0.14	3.05	
5,854.00	0.16	343.33	5,851.19	-4.75	97.62	5.71	0.20	-0.19	-17.12	
5,948.00	0.16	264.34	5,945.19	-4.64	97.46	5.59	0.22	0.00	-84.03	
6,043.00	0.36	264.89	6,040.19	-4.68	97.03	5.63	0.21	0.21	0.58	
6,137.00	0.64	249.58	6,134.19	-4.89	96.24	5.83	0.33	0.30	-16.29	
6,232.00	0.69	241.50	6,229.18	-5.35	95.24	6.28	0.11	0.05	-8.51	
6,327.00	0.56	232.93	6,324.18	-5.90	94.37	6.82	0.17	-0.14	-9.02	
6,422.00	0.53	235.89	6,419.17	-6.43	93.63	7.34	0.04	-0.03	3.12	
6,517.00	0.50	243.67	6,514.17	-6.86	92.90	7.76	0.08	-0.03	8.19	
6,612.00	0.54	221.86	6,609.16	-7.37	92.23	8.27	0.21	0.04	-22.96	
6,706.00	0.40	238.09	6,703.16	-7.88	91.65	8.77	0.20	-0.15	17.27	
6,801.00	0.22	236.08	6,798.16	-8.15	91.22	9.05	0.19	-0.19	-2.12	
6,896.00	0.13	225.26	6,893.16	-8.33	90.99	9.22	0.10	-0.09	-11.39	
6,992.00	0.31	228.69	6,989.16	-8.58	90.72	9.47	0.19	0.19	3.57	
7,086.00	0.27	212.81	7,083.16	-8.93	90.41	9.82	0.10	-0.04	-16.89	
7,181.00	0.27	243.76	7,178.16	-9.22	90.09	10.10	0.15	0.00	32.58	
7,275.00	0.23	285.83	7,272.15	-9.27	89.71	10.14	0.20	-0.04	44.76	
7,370.00	0.18	277.61	7,367.15	-9.20	89.38	10.07	0.06	-0.05	-8.65	
7,465.00	0.27	291.61	7,462.15	-9.09	89.02	9.96	0.11	0.09	14.74	
7,560.00	0.38	279.76	7,557.15	-8.96	88.50	9.82	0.14	0.12	-12.47	
7,750.00	0.37	272.51	7,747.15	-8.82	87.27	9.68	0.03	-0.01	-3.82	
7,844.00	0.47	246.70	7,841.15	-8.96	86.61	9.81	0.22	0.11	-27.46	
7,939.00	0.63	228.50	7,936.14	-9.46	85.86	10.30	0.25	0.17	-19.16	
8,034.00	0.61	226.32	8,031.14	-10.16	85.10	10.99	0.03	-0.02	-2.29	
8,129.00	0.60	216.51	8,126.13	-10.91	84.44	11.73	0.11	-0.01	-10.33	
8,317.00	0.76	213.41	8,314.12	-12.74	83.17	13.55	0.09	0.09	-1.65	
8,411.00	0.88	209.23	8,408.11	-13.89	82.48	14.70	0.14	0.13	-4.45	
8,506.00	0.81	210.47	8,503.10	-15.11	81.78	15.90	0.08	-0.07	1.31	
8,601.00	0.79	211.15	8,598.09	-16.24	81.10	17.04	0.02	-0.02	0.72	
8,696.00	0.86	212.10	8,693.08	-17.41	80.38	18.19	0.08	0.07	1.00	
8,790.00	0.40	252.34	8,787.07	-18.11	79.69	18.88	0.65	-0.49	42.81	
8,885.00	0.37	334.32	8,882.07	-17.93	79.25	18.70	0.53	-0.03	86.29	
8,979.00	0.33	348.43	8,976.07	-17.39	79.06	18.16	0.10	-0.04	15.01	
9,074.00	0.22	356.38	9,071.07	-16.94	78.99	17.71	0.12	-0.12	8.37	
9,167.00	0.17	351.78	9,164.07	-16.63	78.96	17.40	0.06	-0.05	-4.95	
9,262.00	0.11	336.11	9,259.07	-16.40	78.90	17.17	0.07	-0.06	-16.49	
9,355.00	0.05	185.25	9,352.07	-16.36	78.86	17.13	0.17	-0.06	-162.22	
9,450.00	0.23	167.64	9,447.07	-16.59	78.90	17.36	0.19	0.19	-18.54	
9,545.00	0.40	153.00	9,542.06	-17.07	79.09	17.84	0.20	0.18	-15.41	



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Cattleman Fed Com 434H
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Site:	Cattleman Fed Com - Deep	MD Reference:	RKB @ 3244.50usft (H&P 474)
Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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)	
9,640.00	0.53	151.92	9,637.06	-17.75	79.45	18.53	0.14	0.14	-1.14	
9,735.00	0.62	158.45	9,732.06	-18.62	79.85	19.40	0.12	0.09	6.87	
9,828.00	0.59	144.24	9,825.05	-19.48	80.31	20.26	0.16	-0.03	-15.28	
10,017.00	0.72	313.41	10,014.05	-19.45	80.02	20.23	0.69	0.07	89.51	
10,112.00	0.82	312.24	10,109.04	-18.58	79.08	19.36	0.11	0.11	-1.23	
10,207.00	0.67	333.22	10,204.03	-17.63	78.33	18.40	0.33	-0.16	22.08	
10,302.00	0.79	353.31	10,299.02	-16.48	78.00	17.25	0.30	0.13	21.15	
10,397.00	0.68	349.58	10,394.02	-15.28	77.82	16.04	0.13	-0.12	-3.93	
10,491.00	0.38	344.53	10,488.01	-14.43	77.64	15.19	0.32	-0.32	-5.37	
10,586.00	0.33	49.43	10,583.01	-13.95	77.76	14.71	0.40	-0.05	68.32	
10,681.00	0.62	69.41	10,678.01	-13.59	78.45	14.36	0.35	0.31	21.03	
10,776.00	0.80	54.81	10,773.00	-13.03	79.47	13.80	0.27	0.19	-15.37	
10,871.00	0.94	33.42	10,867.99	-11.99	80.44	12.78	0.37	0.15	-22.52	
10,966.00	1.10	36.54	10,962.97	-10.61	81.42	11.41	0.18	0.17	3.28	
11,062.00	0.95	41.31	11,058.96	-9.27	82.49	10.08	0.18	-0.16	4.97	
11,157.00	1.03	46.42	11,153.94	-8.09	83.63	8.91	0.13	0.08	5.38	
11,252.00	0.99	58.44	11,248.93	-7.08	84.95	7.91	0.23	-0.04	12.65	
11,346.00	0.78	79.01	11,342.92	-6.53	86.27	7.37	0.40	-0.22	21.88	
11,441.00	1.49	98.78	11,437.90	-6.59	88.12	7.45	0.84	0.75	20.81	
11,535.00	1.50	110.49	11,531.87	-7.21	90.48	8.09	0.32	0.01	12.46	
11,630.00	1.31	80.88	11,626.84	-7.47	92.72	8.38	0.78	-0.20	-31.17	
11,724.00	0.46	194.08	11,720.83	-7.67	93.69	8.58	1.65	-0.90	120.43	
11,819.00	1.54	233.34	11,815.82	-8.80	92.57	9.71	1.28	1.14	41.33	
11,914.00	1.65	228.10	11,910.78	-10.48	90.53	11.36	0.19	0.12	-5.52	
12,033.00	1.18	235.70	12,029.74	-12.31	88.24	13.17	0.42	-0.39	6.39	
12,127.00	0.46	225.19	12,123.73	-13.12	87.18	13.97	0.78	-0.77	-11.18	
12,221.00	1.24	134.62	12,217.73	-14.10	87.63	14.96	1.41	0.83	-96.35	
12,268.00	5.23	161.15	12,264.64	-16.49	88.69	17.36	8.85	8.49	56.45	
12,315.00	10.20	168.89	12,311.20	-22.60	90.18	23.48	10.78	10.57	16.47	
12,363.00	15.56	172.13	12,357.98	-33.16	91.88	34.06	11.26	11.17	6.75	
12,410.00	19.69	174.75	12,402.76	-47.29	93.47	48.21	8.95	8.79	5.57	
12,505.00	26.08	183.46	12,490.27	-84.12	93.68	85.04	7.60	6.73	9.17	
12,552.00	30.60	189.52	12,531.63	-106.25	91.07	107.14	11.39	9.62	12.89	
12,600.00	36.03	190.85	12,571.73	-132.18	86.39	133.02	11.41	11.31	2.77	
12,647.00	41.56	188.29	12,608.35	-161.21	81.54	162.00	12.25	11.77	-5.45	
12,694.00	44.67	184.95	12,642.66	-193.11	77.86	193.86	8.21	6.62	-7.11	
12,742.00	50.11	183.73	12,675.14	-228.32	75.21	229.05	11.49	11.33	-2.54	
12,790.00	54.53	184.19	12,704.48	-266.21	72.58	266.91	9.24	9.21	0.96	
12,837.00	61.86	184.56	12,729.23	-306.01	69.53	306.67	15.61	15.60	0.79	
12,885.00	67.92	183.83	12,749.59	-349.34	66.36	349.97	12.70	12.63	-1.52	
12,932.00	75.27	181.71	12,764.42	-393.85	64.22	394.46	16.21	15.64	-4.51	
12,979.00	80.78	180.21	12,774.17	-439.80	63.46	440.40	12.13	11.72	-3.19	
13,074.00	94.13	185.93	12,778.38	-534.31	58.36	534.86	15.28	14.05	6.02	
13,170.00	92.66	186.18	12,772.70	-629.61	48.26	630.05	1.55	-1.53	0.26	



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Cattleman Fed Com 434H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3244.50usft (H&P 474)
Site:	Cattleman Fed Com - Deep	MD Reference:	RKB @ 3244.50usft (H&P 474)
Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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)
13,265.00	90.55	184.16	12,770.03	-724.18	39.70	724.53	3.07	-2.22	-2.13
13,334.40	90.17	183.75	12,769.60	-793.41	34.91	793.71	0.81	-0.55	-0.59
FTP: 13334'MD/12769.6'TVD									
13,454.00	89.51	183.04	12,769.94	-912.80	27.83	913.03	0.81	-0.55	-0.59
13,550.00	88.17	180.70	12,771.88	-1,008.72	24.70	1,008.91	2.81	-1.40	-2.44
13,645.00	92.27	183.10	12,771.51	-1,103.64	21.55	1,103.79	5.00	4.32	2.53
13,741.00	92.32	182.26	12,767.67	-1,199.45	17.07	1,199.56	0.88	0.05	-0.88
13,835.00	92.12	184.45	12,764.03	-1,293.22	11.57	1,293.27	2.34	-0.21	2.33
13,931.00	89.96	183.70	12,762.29	-1,388.95	4.75	1,388.93	2.38	-2.25	-0.78
14,026.00	90.92	184.41	12,761.56	-1,483.71	-1.97	1,483.62	1.26	1.01	0.75
14,120.00	87.71	183.06	12,762.68	-1,577.49	-8.09	1,577.33	3.70	-3.41	-1.44
14,215.00	88.25	180.79	12,766.03	-1,672.37	-11.28	1,672.18	2.45	0.57	-2.39
14,310.00	89.73	180.61	12,767.70	-1,767.35	-12.44	1,767.14	1.57	1.56	-0.19
14,405.00	87.29	178.57	12,770.17	-1,862.30	-11.76	1,862.09	3.35	-2.57	-2.15
14,500.00	89.08	179.16	12,773.18	-1,957.23	-9.88	1,957.04	1.98	1.88	0.62
14,595.00	88.93	180.07	12,774.83	-2,052.21	-9.24	2,052.02	0.97	-0.16	0.96
14,689.00	91.75	183.81	12,774.27	-2,146.13	-12.42	2,145.90	4.98	3.00	3.98
14,784.00	89.88	184.23	12,772.92	-2,240.88	-19.08	2,240.59	2.02	-1.97	0.44
14,880.00	87.43	182.99	12,775.18	-2,336.65	-25.12	2,336.30	2.86	-2.55	-1.29
14,974.00	86.44	178.74	12,780.21	-2,430.49	-26.54	2,430.11	4.64	-1.05	-4.52
15,068.00	88.97	178.01	12,783.97	-2,524.37	-23.88	2,524.01	2.80	2.69	-0.78
15,163.00	93.83	178.71	12,781.65	-2,619.27	-21.16	2,618.94	5.17	5.12	0.74
15,257.00	93.28	177.72	12,775.82	-2,713.04	-18.24	2,712.73	1.20	-0.59	-1.05
15,352.00	89.99	177.02	12,773.11	-2,807.89	-13.88	2,807.62	3.54	-3.46	-0.74
15,447.00	88.76	177.62	12,774.15	-2,902.78	-9.44	2,902.55	1.44	-1.29	0.63
15,542.00	87.31	176.92	12,777.40	-2,997.61	-4.92	2,997.42	1.69	-1.53	-0.74
15,637.00	86.86	176.62	12,782.23	-3,092.34	0.43	3,092.19	0.57	-0.47	-0.32
15,732.00	86.68	177.09	12,787.59	-3,187.04	5.63	3,186.94	0.53	-0.19	0.49
15,922.00	87.77	178.06	12,796.79	-3,376.64	13.66	3,376.62	0.77	0.57	0.51
16,017.00	87.90	178.20	12,800.37	-3,471.53	16.76	3,471.52	0.20	0.14	0.15
16,112.00	89.55	178.12	12,802.49	-3,566.45	19.81	3,566.47	1.74	1.74	-0.08
16,206.00	93.35	179.90	12,800.11	-3,660.38	21.43	3,660.42	4.46	4.04	1.89
16,301.00	93.05	179.41	12,794.81	-3,755.23	22.00	3,755.27	0.60	-0.32	-0.52
16,396.00	91.18	181.13	12,791.30	-3,850.16	21.56	3,850.19	2.67	-1.97	1.81
16,491.00	91.27	180.44	12,789.27	-3,945.13	20.25	3,945.14	0.73	0.09	-0.73
16,586.00	92.51	181.55	12,786.14	-4,040.06	18.61	4,040.05	1.75	1.31	1.17
16,682.00	90.52	180.68	12,783.60	-4,136.00	16.74	4,135.97	2.26	-2.07	-0.91
16,776.00	90.24	176.79	12,782.98	-4,229.96	18.81	4,229.94	4.15	-0.30	-4.14
16,871.00	89.16	173.54	12,783.47	-4,324.61	26.82	4,324.66	3.60	-1.14	-3.42
16,991.00	93.59	183.05	12,780.59	-4,444.35	30.39	4,444.44	8.74	3.69	7.93
17,085.00	94.03	182.38	12,774.34	-4,538.04	25.95	4,538.07	0.85	0.47	-0.71
17,180.00	95.32	181.67	12,766.60	-4,632.66	22.60	4,632.66	1.55	1.36	-0.75
17,275.00	94.14	180.41	12,758.76	-4,727.32	20.89	4,727.30	1.81	-1.24	-1.33



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Cattleman Fed Com 434H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3244.50usft (H&P 474)
Site:	Cattleman Fed Com - Deep	MD Reference:	RKB @ 3244.50usft (H&P 474)
Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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)
17,370.00	90.01	180.17	12,755.33	-4,822.23	20.41	4,822.20	4.35	-4.35	-0.25
17,465.00	87.94	179.10	12,757.02	-4,917.21	21.01	4,917.18	2.45	-2.18	-1.13
17,559.00	88.24	178.94	12,760.16	-5,011.14	22.62	5,011.12	0.36	0.32	-0.17
17,654.00	88.68	179.81	12,762.71	-5,106.10	23.65	5,106.09	1.03	0.46	0.92
17,749.00	88.39	180.24	12,765.14	-5,201.07	23.61	5,201.05	0.55	-0.31	0.45
17,843.00	87.33	179.23	12,768.65	-5,295.00	24.05	5,294.98	1.56	-1.13	-1.07
17,938.00	91.27	181.58	12,769.81	-5,389.97	23.37	5,389.94	4.83	4.15	2.47
18,033.00	91.09	181.06	12,767.85	-5,484.92	21.19	5,484.87	0.58	-0.19	-0.55
18,128.00	89.73	179.60	12,767.17	-5,579.91	20.64	5,579.85	2.10	-1.43	-1.54
18,223.00	88.94	179.59	12,768.28	-5,674.90	21.31	5,674.84	0.83	-0.83	-0.01
18,316.00	92.98	180.34	12,766.72	-5,767.87	21.37	5,767.80	4.42	4.34	0.81
18,410.00	92.00	178.65	12,762.63	-5,861.77	22.20	5,861.71	2.08	-1.04	-1.80
18,505.00	93.40	180.07	12,758.16	-5,956.66	23.26	5,956.60	2.10	1.47	1.49
18,599.00	88.17	175.06	12,756.87	-6,050.50	27.25	6,050.48	7.70	-5.56	-5.33
18,693.00	89.59	176.01	12,758.71	-6,144.19	34.57	6,144.24	1.82	1.51	1.01
18,787.00	92.83	176.48	12,756.72	-6,237.96	40.72	6,238.06	3.48	3.45	0.50
18,882.00	89.61	177.51	12,754.70	-6,332.79	45.70	6,332.94	3.56	-3.39	1.08
18,977.00	87.56	178.87	12,757.05	-6,427.71	48.70	6,427.88	2.59	-2.16	1.43
19,072.00	87.25	178.43	12,761.35	-6,522.58	50.93	6,522.77	0.57	-0.33	-0.46
19,167.00	90.69	181.12	12,763.06	-6,617.55	51.31	6,617.73	4.60	3.62	2.83
19,262.00	90.92	180.33	12,761.72	-6,712.53	50.10	6,712.70	0.87	0.24	-0.83
19,357.00	91.38	179.99	12,759.82	-6,807.51	49.84	6,807.67	0.60	0.48	-0.36
19,451.00	90.42	179.51	12,758.34	-6,901.49	50.25	6,901.66	1.14	-1.02	-0.51
19,547.00	91.46	180.69	12,756.76	-6,997.48	50.08	6,997.63	1.64	1.08	1.23
19,642.00	92.44	181.42	12,753.53	-7,092.40	48.33	7,092.54	1.29	1.03	0.77
19,738.00	93.82	181.92	12,748.29	-7,188.22	45.54	7,188.32	1.53	1.44	0.52
19,832.00	94.28	181.40	12,741.65	-7,281.94	42.82	7,282.01	0.74	0.49	-0.55
19,928.00	91.67	180.98	12,736.67	-7,377.78	40.83	7,377.83	2.75	-2.72	-0.44
20,023.00	91.84	180.84	12,733.76	-7,472.73	39.33	7,472.76	0.23	0.18	-0.15
20,117.00	92.21	181.50	12,730.44	-7,566.65	37.41	7,566.65	0.80	0.39	0.70
20,213.00	88.24	178.00	12,730.06	-7,662.61	37.83	7,662.62	5.51	-4.14	-3.65
20,307.00	90.95	180.05	12,730.72	-7,756.58	39.43	7,756.60	3.61	2.88	2.18
20,402.00	89.04	177.26	12,730.73	-7,851.54	41.65	7,851.58	3.56	-2.01	-2.94
20,498.00	88.76	177.78	12,732.58	-7,947.44	45.81	7,947.50	0.62	-0.29	0.54
20,592.00	90.50	178.82	12,733.18	-8,041.39	48.60	8,041.48	2.16	1.85	1.11
20,687.00	88.85	181.95	12,733.72	-8,136.37	47.96	8,136.45	3.72	-1.74	3.29
20,782.00	90.50	180.00	12,734.26	-8,231.35	46.34	8,231.41	2.69	1.74	-2.05
20,877.00	90.47	179.18	12,733.46	-8,326.34	47.02	8,326.40	0.86	-0.03	-0.86
20,972.00	89.28	178.65	12,733.66	-8,421.32	48.82	8,421.39	1.37	-1.25	-0.56
21,067.00	88.99	177.94	12,735.10	-8,516.27	51.65	8,516.36	0.81	-0.31	-0.75
Final Phoenix MWD Survey									
21,068.10	88.99	177.94	12,735.12	-8,517.37	51.69	8,517.46	0.00	0.00	0.00
LTP: 21068°MD/12735.12°TVD									
21,131.00	88.99	177.94	12,736.23	-8,580.21	53.95	8,580.33	0.00	0.00	0.00



Survey Report



Company:	Titus Oil & Gas Production, LLC	Local Co-ordinate Reference:	Well Cattleman Fed Com 434H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3244.50usft (H&P 474)
Site:	Cattleman Fed Com - Deep	MD Reference:	RKB @ 3244.50usft (H&P 474)
Well:	Cattleman Fed Com 434H	North Reference:	Grid
Wellbore:	OH / 67733	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 474)	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)
Projection to TD									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
21,131.00	12,736.23	20" Casing	20	24	

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
174.00	173.97	-0.37	-2.66	First Phoenix MWD Survey
13,334.40	12,769.60	-793.41	34.91	FTP: 13334'MD/12769.6'TVD
21,067.00	12,735.10	-8,516.27	51.65	Final Phoenix MWD Survey
21,068.10	12,735.12	-8,517.37	51.69	LTP: 21068'MD/12735.12'TVD
21,131.00	12,736.23	-8,580.21	53.95	Projection to TD

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 41663

ACKNOWLEDGMENTS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 41663
	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.

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

CONDITIONS

Action 41663

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 41663
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 expires 11/17/2021; submit all drilling, casing, and completion sundries/reports.	8/17/2021