

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 Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		² OGRID Number 013837	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 0 05-64329	⁵ Pool Name Round Tank; San Andres		⁶ Pool Code 52770
⁷ Property Code 319933	⁸ Property Name Markham State Com		⁹ Well Number 1H

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
P	23	15S	28E		330	South	990	East	Chaves

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	35	15S	28E		1223	South	983	East	Chaves
¹² Lse Code S	¹³ Producing Method Code P		¹⁴ Gas Connection Date 10/1/2021		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
278471	Holly Marketing & Refining Co. LLC P.O. Box 1600 Artesia, NM 88211-1600	O
036788	DCP Midstream 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

²¹ Spud Date 5/25/2021	²² Ready Date 10/1/2021	²³ TD 12094'/2910' TVD	²⁴ PBTD 12040'/2911' TVD	²⁵ Perforations 3619-11990' 2905-2912' TVD	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	507'		900 sx
12 1/4"		9 5/8"	1508'		817 sx
8 3/4"		5 1/2" & 7"	12090'		3129 sx

V. Well Test Data

³¹ Date New Oil 10/30/2021	³² Gas Delivery Date 10/29/2021	³³ Test Date 10/31/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 102	³⁹ Water 1597	⁴⁰ Gas 42		⁴¹ Test Method pumping

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: <i>Delilah Flores</i>		OIL CONSERVATION DIVISION	
Printed name: Delilah Flores		Approved by: <i>PATRICIA MARTINEZ</i>	
Title: Regulatory Technician I		Title: <i>PETROLEUM SPECIALIST</i>	
E-mail Address: delilah@mec.com		Approval Date: <i>2/10/2022</i>	
Date: 11/2/2021	Phone: 575-748-1288		

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 30-005-64329	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 324999	⁵ Property Name MARKHAM STATE	⁶ Well Number 1H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3574.0

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
P	23	15 S	28 E		330	SOUTH	990	EAST	CHAVES

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	35	15 S	28 E		1223	SOUTH	983	EAST	CHAVES

¹² Dedicated Acres 320	¹³ Joint or Infill	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. <i>Delilah Flores</i> 11/2/2021 Signature Date Delilah Flores Printed Name delilah@mec.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. SEPTEMBER 29, 2021 Date of Survey <i>CELESTION F. JARAMILLO</i> Signature and Seal of Professional Surveyor Certificate Number: CELESTION F. JARAMILLO, PLS 12797 SURVEY NO. 2061C
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Intent ☐ As Drilled ☒

API #

Operator Name:	Property Name:	Well Number
MACK ENERGY CORPORATION	MARKHAM STATE	1H

Kick Off Point (KOP)

UL P	Section 23	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 990	From E/W EAST	County CHAVES
Latitude 32.9951629					Longitude 104.0971144			NAD 83	

First Take Point (FTP)

UL A	Section 26	Township 15S	Range 28E	Lot	Feet 803	From N/S NORTH	Feet 984	From E/W EAST	County CHAVES
Latitude 32.9920500					Longitude 104.0970921			NAD 83	

Last Take Point (LTP)

UL I	Section 35	Township 15S	Range 28E	Lot	Feet 1327	From N/S SOUTH	Feet 985	From E/W EAST	County CHAVES
Latitude 32.9690335					Longitude 104.0970184			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

PLAN VIEW

SEC. 23
T15S, R28E

SEC. 26
T15S, R28E

SEC. 35
T15S, R28E

SURFACE LOCATION
0 MD
330' FSL, 990' FEL

FIRST TAKE POINT
3619 MD
803' FNL, 984' FEL

AS-DRILLED
WELLPATH

LAST TAKE POINT
11990 MD
1327' FSL, 985' FEL

BOTTOM OF HOLE
12094 MD
1223' FSL, 983' FEL

MACK ENERGY CORPORATION
MARKHAM STATE 1H
TAKE POINT MD LOCATIONS
ALONG AS-DRILLED WELL PATH

SEPTEMBER 29, 2021



NOT TO SCALE

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

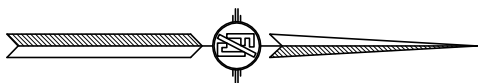
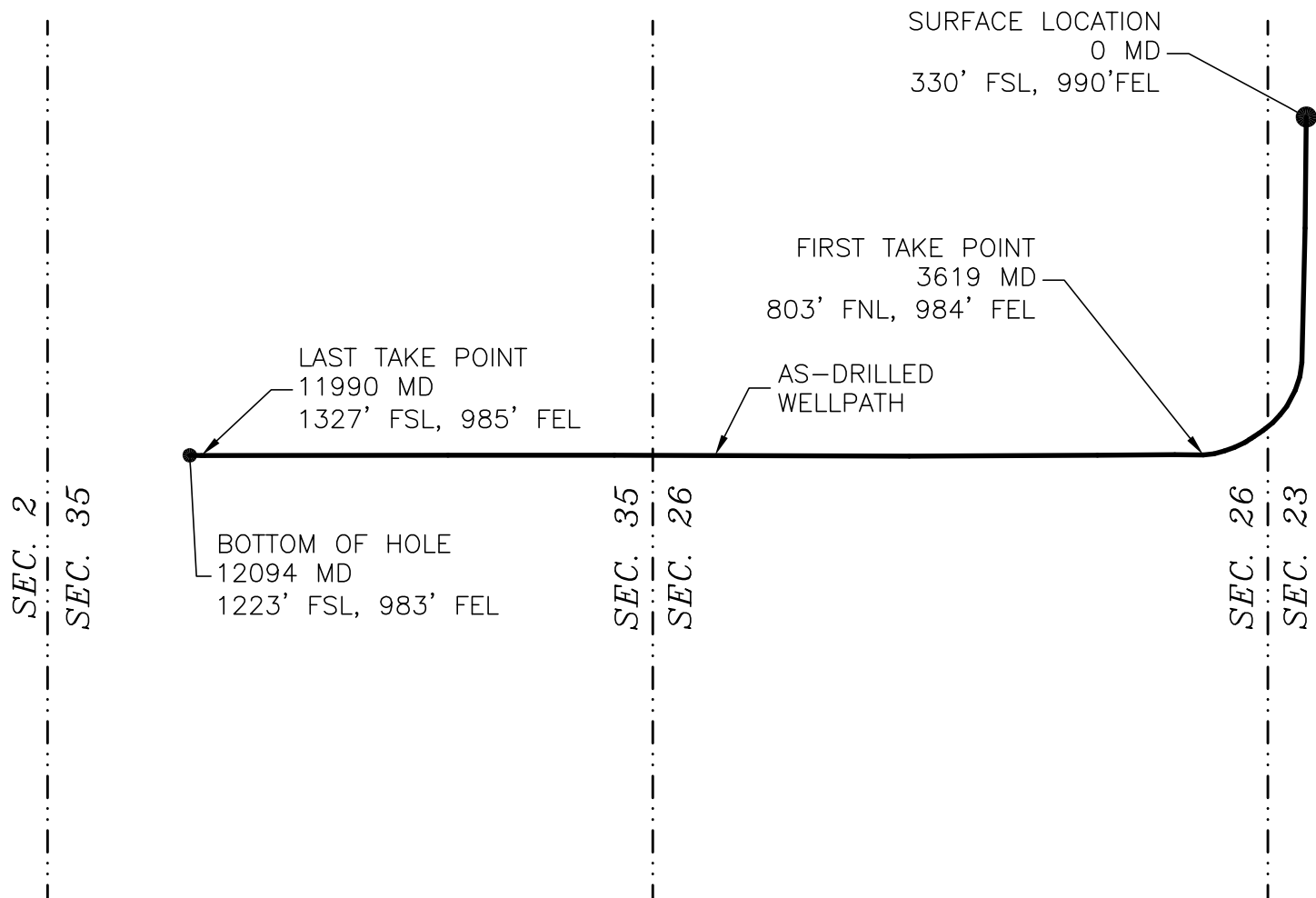
CARLSBAD, NEW MEXICO

SURVEY NO. 2061C

PROFILE VIEW

MACK ENERGY CORPORATION
MARKHAM STATE 1H
TAKE POINT MD LOCATIONS
ALONG AS-DRILLED WELL PATH

SEPTEMBER 29, 2021



NOT TO SCALE

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 2061C



Mack Energy

Chaves County

Sec 23 T15S R28E

Markham State #1H

Wellbore #1

Survey: Survey #2

Standard Survey Report

14 June, 2021





Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Project	Chaves County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 23 T15S R28E			
Site Position:		Northing:	726,224.28 usft	Latitude:	32.996178
From:	Map	Easting:	612,464.13 usft	Longitude:	-104.101341
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well		Markham State #1H				
Well Position	+N/-S	0.00 usft	Northing:	725,857.90 usft	Latitude:	32.995163
	+E/-W	0.00 usft	Easting:	613,760.73 usft	Longitude:	-104.097115
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,574.00 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/18/21	6.83	60.63	47,931.18515028

Design	Wellbore #1				
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	179.72	

Survey Program		Date	06/14/21		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
102.00	407.00	Invictus (Wellbore #1)	MWD	MWD - Standard	
524.00	12,094.00	Survey #2 (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
407.00	1.70	244.88	406.82	-4.80	-10.46	4.75	0.00	0.00	0.00
525.00	1.49	242.34	524.78	-6.26	-13.40	6.19	0.19	-0.18	-2.15
1st MWD Survey									
710.00	1.80	240.41	709.70	-8.81	-18.06	8.72	0.17	0.17	-1.04
834.00	0.92	211.67	833.67	-10.62	-20.27	10.52	0.88	-0.71	-23.18
957.00	0.66	191.28	956.65	-12.15	-20.93	12.05	0.31	-0.21	-16.58
1,081.00	1.27	166.32	1,080.64	-14.19	-20.75	14.09	0.59	0.49	-20.13
1,205.00	1.67	165.44	1,204.60	-17.27	-19.97	17.17	0.32	0.32	-0.71
1,329.00	2.07	152.70	1,328.53	-21.01	-18.49	20.92	0.46	0.32	-10.27
1,453.00	2.29	130.55	1,452.44	-24.61	-15.58	24.54	0.70	0.18	-17.86



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,525.00	2.59	132.13	1,524.38	-26.64	-13.28	26.57	0.43	0.42	2.19	
1,648.00	1.36	180.91	1,647.31	-29.96	-11.24	29.91	1.61	-1.00	39.66	
1,772.00	0.18	218.70	1,771.30	-31.58	-11.38	31.53	0.99	-0.95	30.48	
1,896.00	1.01	230.83	1,895.29	-32.43	-12.35	32.37	0.67	0.67	9.78	
2,020.00	1.98	229.42	2,019.24	-34.51	-14.83	34.44	0.78	0.78	-1.14	
2,082.00	2.59	217.56	2,081.19	-36.32	-16.49	36.24	1.24	0.98	-19.13	
2,113.00	4.04	195.06	2,112.14	-37.93	-17.20	37.84	6.20	4.68	-72.58	
2,144.00	5.93	180.73	2,143.03	-40.58	-17.51	40.50	7.26	6.10	-46.23	
2,175.00	9.10	174.23	2,173.76	-44.62	-17.28	44.54	10.57	10.23	-20.97	
2,206.00	12.09	170.01	2,204.22	-50.26	-16.47	50.18	9.96	9.65	-13.61	
2,236.00	15.03	168.43	2,233.39	-57.17	-15.15	57.10	9.88	9.80	-5.27	
2,267.00	17.14	168.60	2,263.17	-65.59	-13.44	65.52	6.81	6.81	0.55	
2,298.00	18.95	169.40	2,292.64	-75.01	-11.61	74.96	5.89	5.84	2.58	
2,329.00	20.18	169.92	2,321.85	-85.22	-9.75	85.18	4.01	3.97	1.68	
2,360.00	21.80	171.07	2,350.80	-96.18	-7.92	96.14	5.39	5.23	3.71	
2,392.00	24.70	173.26	2,380.19	-108.69	-6.21	108.66	9.46	9.06	6.84	
2,422.00	27.25	175.11	2,407.16	-121.76	-4.89	121.73	8.92	8.50	6.17	
2,453.00	29.80	177.22	2,434.40	-136.53	-3.91	136.51	8.84	8.23	6.81	
2,485.00	31.65	178.10	2,461.90	-152.86	-3.25	152.84	5.95	5.78	2.75	
2,516.00	33.27	178.36	2,488.06	-169.49	-2.73	169.48	5.25	5.23	0.84	
2,547.00	35.96	178.27	2,513.57	-187.09	-2.21	187.08	8.68	8.68	-0.29	
2,578.00	38.42	178.18	2,538.26	-205.82	-1.63	205.81	7.94	7.94	-0.29	
2,609.00	40.57	178.36	2,562.19	-225.53	-1.04	225.52	6.95	6.94	0.58	
2,639.00	42.02	178.01	2,584.72	-245.31	-0.41	245.31	4.89	4.83	-1.17	
2,670.00	44.79	178.54	2,607.24	-266.60	0.23	266.60	9.01	8.94	1.71	
2,701.00	46.81	178.80	2,628.86	-288.82	0.74	288.82	6.54	6.52	0.84	
2,732.00	49.58	178.89	2,649.52	-311.92	1.21	311.92	8.94	8.94	0.29	
2,763.00	52.22	181.00	2,669.07	-335.97	1.22	335.98	10.02	8.52	6.81	
2,781.00	53.41	179.06	2,679.95	-350.31	1.22	350.31	10.84	6.61	-10.78	
2,791.00	53.80	179.24	2,685.88	-358.36	1.34	358.36	4.16	3.90	1.80	
2,801.00	54.15	179.42	2,691.76	-366.45	1.43	366.45	3.79	3.50	1.80	
2,811.00	54.37	179.50	2,697.60	-374.57	1.51	374.57	2.29	2.20	0.80	
2,821.00	54.73	179.59	2,703.40	-382.71	1.57	382.71	3.67	3.60	0.90	
2,831.00	54.95	179.77	2,709.16	-390.89	1.62	390.89	2.65	2.20	1.80	
2,841.00	55.25	180.03	2,714.88	-399.09	1.63	399.09	3.68	3.00	2.60	
2,851.00	55.60	180.03	2,720.56	-407.32	1.63	407.32	3.50	3.50	0.00	
2,861.00	55.82	180.03	2,726.19	-415.58	1.62	415.59	2.20	2.20	0.00	
2,871.00	56.04	180.21	2,731.79	-423.87	1.61	423.87	2.66	2.20	1.80	
2,881.00	56.31	180.29	2,737.36	-432.17	1.57	432.18	2.78	2.70	0.80	
2,891.00	56.48	180.12	2,742.90	-440.50	1.54	440.51	2.21	1.70	-1.70	
2,901.00	56.75	180.29	2,748.40	-448.85	1.51	448.86	3.05	2.70	1.70	
2,911.00	56.97	180.38	2,753.87	-457.23	1.46	457.23	2.33	2.20	0.90	
2,921.00	57.19	180.38	2,759.30	-465.62	1.40	465.62	2.20	2.20	0.00	



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,931.00	57.41	180.38	2,764.70	-474.04	1.35	474.04	2.20	2.20	0.00	
2,941.00	57.58	180.47	2,770.08	-482.47	1.29	482.47	1.86	1.70	0.90	
2,951.00	57.67	180.47	2,775.43	-490.91	1.22	490.91	0.90	0.90	0.00	
2,961.00	57.93	180.65	2,780.76	-499.38	1.13	499.37	3.01	2.60	1.80	
2,971.00	58.15	180.73	2,786.05	-507.86	1.03	507.86	2.30	2.20	0.80	
2,981.00	58.51	180.65	2,791.30	-516.37	0.93	516.37	3.66	3.60	-0.80	
2,991.00	58.90	180.65	2,796.50	-524.91	0.83	524.91	3.90	3.90	0.00	
3,002.00	59.96	180.56	2,802.09	-534.38	0.73	534.38	9.66	9.64	-0.82	
3,033.00	64.40	180.21	2,816.56	-561.79	0.55	561.79	14.36	14.32	-1.13	
3,064.00	66.42	179.94	2,829.45	-589.98	0.51	589.98	6.56	6.52	-0.87	
3,095.00	67.12	180.12	2,841.68	-618.47	0.50	618.46	2.32	2.26	0.58	
3,125.00	69.71	180.38	2,852.72	-646.36	0.38	646.35	8.67	8.63	0.87	
3,155.00	70.77	180.56	2,862.86	-674.59	0.15	674.59	3.58	3.53	0.60	
3,186.00	72.13	180.65	2,872.72	-703.98	-0.17	703.97	4.40	4.39	0.29	
3,217.00	73.80	179.94	2,881.80	-733.62	-0.32	733.61	5.82	5.39	-2.29	
3,248.00	75.47	179.42	2,890.02	-763.51	-0.15	763.50	5.62	5.39	-1.68	
3,279.00	78.59	178.98	2,896.97	-793.71	0.27	793.70	10.16	10.06	-1.42	
3,310.00	81.89	178.10	2,902.23	-824.25	1.05	824.24	11.01	10.65	-2.84	
3,372.00	87.03	178.01	2,908.21	-885.90	3.15	885.91	8.29	8.29	-0.15	
3,434.00	90.29	177.92	2,909.66	-947.84	5.35	947.85	5.26	5.26	-0.15	
3,496.00	91.74	178.18	2,908.56	-1,009.79	7.46	1,009.81	2.38	2.34	0.42	
3,619.00	91.43	180.03	2,905.16	-1,132.72	9.38	1,132.75	1.52	-0.25	1.50	
3,736.00	89.93	180.12	2,903.77	-1,249.71	9.22	1,249.74	1.28	-1.28	0.08	
3,798.00	89.45	180.38	2,904.11	-1,311.71	8.95	1,311.74	0.88	-0.77	0.42	
3,860.00	89.49	180.38	2,904.68	-1,373.71	8.54	1,373.73	0.06	0.06	0.00	
3,922.00	89.36	180.65	2,905.30	-1,435.70	7.98	1,435.72	0.48	-0.21	0.44	
3,983.00	89.41	180.73	2,905.96	-1,496.69	7.25	1,496.71	0.15	0.08	0.13	
4,046.00	89.41	181.17	2,906.61	-1,559.68	6.21	1,559.69	0.70	0.00	0.70	
4,108.00	89.36	181.17	2,907.27	-1,621.66	4.94	1,621.67	0.08	-0.08	0.00	
4,170.00	89.41	181.44	2,907.94	-1,683.64	3.53	1,683.64	0.44	0.08	0.44	
4,293.00	89.54	180.73	2,909.06	-1,806.62	1.20	1,806.60	0.59	0.11	-0.58	
4,417.00	89.45	179.06	2,910.16	-1,930.61	1.43	1,930.59	1.35	-0.07	-1.35	
4,540.00	89.49	179.42	2,911.30	-2,053.59	3.06	2,053.58	0.29	0.03	0.29	
4,664.00	89.98	178.62	2,911.87	-2,177.57	5.18	2,177.57	0.76	0.40	-0.65	
4,788.00	89.85	178.71	2,912.05	-2,301.53	8.07	2,301.55	0.13	-0.10	0.07	
4,911.00	90.02	178.80	2,912.19	-2,424.51	10.74	2,424.53	0.16	0.14	0.07	
5,035.00	90.07	178.98	2,912.10	-2,548.48	13.14	2,548.52	0.15	0.04	0.15	
5,097.00	89.98	179.33	2,912.07	-2,610.48	14.06	2,610.51	0.58	-0.15	0.56	
5,159.00	89.85	179.68	2,912.16	-2,672.47	14.59	2,672.51	0.60	-0.21	0.56	
5,221.00	89.71	179.94	2,912.40	-2,734.47	14.80	2,734.51	0.48	-0.23	0.42	
5,283.00	89.45	180.03	2,912.85	-2,796.47	14.81	2,796.51	0.44	-0.42	0.15	
5,345.00	89.10	180.21	2,913.64	-2,858.46	14.68	2,858.50	0.63	-0.56	0.29	
5,408.00	88.84	180.47	2,914.77	-2,921.45	14.31	2,921.49	0.58	-0.41	0.41	



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,469.00	89.32	181.17	2,915.75	-2,982.44	13.44	2,982.47	1.39	0.79	1.15	
5,531.00	89.23	181.17	2,916.53	-3,044.42	12.17	3,044.44	0.15	-0.15	0.00	
5,655.00	89.67	180.91	2,917.72	-3,168.39	9.92	3,168.41	0.41	0.35	-0.21	
5,779.00	89.93	180.56	2,918.16	-3,292.38	8.33	3,292.39	0.35	0.21	-0.28	
5,841.00	90.51	179.85	2,917.92	-3,354.38	8.11	3,354.38	1.48	0.94	-1.15	
5,903.00	90.46	180.21	2,917.39	-3,416.38	8.08	3,416.38	0.59	-0.08	0.58	
5,965.00	90.29	180.29	2,916.99	-3,478.38	7.81	3,478.37	0.30	-0.27	0.13	
6,089.00	90.51	180.12	2,916.12	-3,602.37	7.36	3,602.37	0.22	0.18	-0.14	
6,213.00	90.59	179.33	2,914.93	-3,726.37	7.96	3,726.36	0.64	0.06	-0.64	
6,336.00	89.98	179.50	2,914.32	-3,849.36	9.21	3,849.36	0.51	-0.50	0.14	
6,460.00	90.37	178.54	2,913.94	-3,973.34	11.33	3,973.34	0.84	0.31	-0.77	
6,584.00	89.54	178.98	2,914.04	-4,097.31	14.02	4,097.33	0.76	-0.67	0.35	
6,708.00	90.07	179.68	2,914.46	-4,221.30	15.47	4,221.32	0.71	0.43	0.56	
6,831.00	90.77	178.27	2,913.56	-4,344.27	17.67	4,344.30	1.28	0.57	-1.15	
6,955.00	89.76	178.36	2,912.99	-4,468.21	21.31	4,468.26	0.82	-0.81	0.07	
7,079.00	91.16	179.85	2,911.99	-4,592.19	23.25	4,592.25	1.65	1.13	1.20	
7,141.00	91.08	179.85	2,910.78	-4,654.17	23.41	4,654.23	0.13	-0.13	0.00	
7,203.00	90.77	180.12	2,909.78	-4,716.17	23.43	4,716.22	0.66	-0.50	0.44	
7,265.00	90.33	180.47	2,909.18	-4,778.16	23.11	4,778.22	0.91	-0.71	0.56	
7,327.00	90.20	180.65	2,908.90	-4,840.16	22.50	4,840.21	0.36	-0.21	0.29	
7,388.00	89.89	180.73	2,908.85	-4,901.15	21.77	4,901.20	0.52	-0.51	0.13	
7,450.00	89.32	181.09	2,909.27	-4,963.14	20.78	4,963.19	1.09	-0.92	0.58	
7,574.00	89.58	180.73	2,910.47	-5,087.12	18.81	5,087.15	0.36	0.21	-0.29	
7,636.00	90.73	180.12	2,910.30	-5,149.12	18.35	5,149.15	2.10	1.85	-0.98	
7,698.00	90.29	180.03	2,909.75	-5,211.12	18.27	5,211.14	0.72	-0.71	-0.15	
7,759.00	89.71	180.12	2,909.75	-5,272.12	18.19	5,272.14	0.96	-0.95	0.15	
7,884.00	89.49	179.15	2,910.62	-5,397.11	18.99	5,397.14	0.80	-0.18	-0.78	
7,946.00	89.85	178.45	2,910.98	-5,459.09	20.29	5,459.13	1.27	0.58	-1.13	
8,070.00	90.02	178.98	2,911.12	-5,583.06	23.07	5,583.11	0.45	0.14	0.43	
8,132.00	89.36	179.06	2,911.45	-5,645.05	24.13	5,645.10	1.07	-1.06	0.13	
8,255.00	90.37	179.50	2,911.74	-5,768.04	25.67	5,768.10	0.90	0.82	0.36	
8,317.00	91.08	179.94	2,910.96	-5,830.03	25.98	5,830.09	1.35	1.15	0.71	
8,379.00	90.86	180.56	2,909.91	-5,892.02	25.71	5,892.08	1.06	-0.35	1.00	
8,440.00	90.59	180.65	2,909.14	-5,953.02	25.06	5,953.07	0.47	-0.44	0.15	
8,502.00	90.20	180.91	2,908.71	-6,015.01	24.22	6,015.06	0.76	-0.63	0.42	
8,564.00	89.85	181.26	2,908.68	-6,077.00	23.05	6,077.04	0.80	-0.56	0.56	
8,626.00	90.07	180.21	2,908.72	-6,138.99	22.25	6,139.03	1.73	0.35	-1.69	
8,687.00	89.76	178.54	2,908.81	-6,199.99	22.92	6,200.02	2.78	-0.51	-2.74	
8,749.00	89.63	178.89	2,909.14	-6,261.97	24.31	6,262.01	0.60	-0.21	0.56	
8,874.00	90.33	179.24	2,909.19	-6,386.95	26.35	6,387.00	0.63	0.56	0.28	
8,998.00	89.76	179.94	2,909.09	-6,510.95	27.23	6,511.00	0.73	-0.46	0.56	
9,122.00	89.98	178.71	2,909.37	-6,634.94	28.69	6,635.00	1.01	0.18	-0.99	
9,245.00	89.27	179.24	2,910.18	-6,757.91	30.89	6,757.98	0.72	-0.58	0.43	
9,370.00	90.51	178.45	2,910.42	-6,882.88	33.41	6,882.96	1.18	0.99	-0.63	



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,431.00	89.76	178.71	2,910.27	-6,943.86	34.93	6,943.95	1.30	-1.23	0.43	
9,493.00	89.32	178.98	2,910.77	-7,005.85	36.17	7,005.94	0.83	-0.71	0.44	
9,555.00	89.45	179.94	2,911.44	-7,067.84	36.76	7,067.94	1.56	0.21	1.55	
9,618.00	89.98	180.29	2,911.75	-7,130.84	36.63	7,130.93	1.01	0.84	0.56	
9,681.00	90.64	180.65	2,911.41	-7,193.84	36.12	7,193.93	1.19	1.05	0.57	
9,744.00	90.37	181.17	2,910.85	-7,256.83	35.12	7,256.91	0.93	-0.43	0.83	
9,807.00	90.51	180.56	2,910.37	-7,319.82	34.16	7,319.90	0.99	0.22	-0.97	
9,871.00	90.64	179.77	2,909.73	-7,383.81	33.98	7,383.89	1.25	0.20	-1.23	
9,935.00	90.73	178.80	2,908.96	-7,447.80	34.78	7,447.88	1.52	0.14	-1.52	
9,998.00	90.11	178.80	2,908.50	-7,510.79	36.10	7,510.87	0.98	-0.98	0.00	
10,060.00	89.67	179.06	2,908.62	-7,572.78	37.26	7,572.87	0.82	-0.71	0.42	
10,187.00	89.63	179.06	2,909.40	-7,699.76	39.34	7,699.86	0.03	-0.03	0.00	
10,314.00	89.36	179.24	2,910.52	-7,826.74	41.22	7,826.84	0.26	-0.21	0.14	
10,442.00	89.14	179.24	2,912.19	-7,954.71	42.92	7,954.83	0.17	-0.17	0.00	
10,569.00	89.93	180.21	2,913.22	-8,081.71	43.53	8,081.82	0.99	0.62	0.76	
10,632.00	89.49	180.56	2,913.54	-8,144.70	43.11	8,144.82	0.89	-0.70	0.56	
10,696.00	89.71	180.56	2,913.99	-8,208.70	42.48	8,208.81	0.34	0.34	0.00	
10,759.00	89.19	181.26	2,914.59	-8,271.69	41.48	8,271.79	1.38	-0.83	1.11	
10,823.00	90.07	181.44	2,915.01	-8,335.67	39.97	8,335.76	1.40	1.37	0.28	
10,887.00	89.54	181.61	2,915.22	-8,399.64	38.27	8,399.73	0.87	-0.83	0.27	
10,951.00	89.80	180.91	2,915.59	-8,463.63	36.86	8,463.71	1.17	0.41	-1.09	
11,077.00	90.46	180.82	2,915.31	-8,589.61	34.96	8,589.68	0.53	0.52	-0.07	
11,141.00	90.81	180.65	2,914.60	-8,653.60	34.14	8,653.67	0.61	0.55	-0.27	
11,204.00	90.99	180.03	2,913.61	-8,716.59	33.77	8,716.66	1.02	0.29	-0.98	
11,267.00	90.99	179.42	2,912.52	-8,779.58	34.07	8,779.65	0.97	0.00	-0.97	
11,331.00	90.42	179.42	2,911.73	-8,843.57	34.72	8,843.64	0.89	-0.89	0.00	
11,394.00	90.11	179.59	2,911.44	-8,906.57	35.26	8,906.64	0.56	-0.49	0.27	
11,458.00	89.98	179.24	2,911.39	-8,970.57	35.91	8,970.64	0.58	-0.20	-0.55	
11,522.00	89.71	178.54	2,911.56	-9,034.56	37.15	9,034.63	1.17	-0.42	-1.09	
11,585.00	89.58	178.18	2,911.95	-9,097.53	38.96	9,097.61	0.61	-0.21	-0.57	
11,649.00	89.49	177.48	2,912.47	-9,161.48	41.38	9,161.57	1.10	-0.14	-1.09	
11,712.00	90.15	178.27	2,912.67	-9,224.44	43.72	9,224.54	1.63	1.05	1.25	
11,776.00	90.15	178.71	2,912.50	-9,288.41	45.40	9,288.52	0.69	0.00	0.69	
11,839.00	90.33	178.18	2,912.24	-9,351.39	47.11	9,351.51	0.89	0.29	-0.84	
11,903.00	90.29	178.36	2,911.89	-9,415.36	49.04	9,415.49	0.29	-0.06	0.28	
11,966.00	90.51	179.15	2,911.45	-9,478.34	50.41	9,478.47	1.30	0.35	1.25	
12,030.00	90.64	179.59	2,910.81	-9,542.33	51.12	9,542.47	0.72	0.20	0.69	
Last MWD Survey 12030 MD/2910.81 TVD -9542.33 S 51.12 E N: 716315.5 E: 613811.8										
12,094.00	90.64	179.59	2,910.10	-9,606.33	51.57	9,606.47	0.00	0.00	0.00	
PTB 12094 MD/2910.10 TVD -9606.33 S 51.57 E N: 716251.5 E: 613812.3										



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Markham State #1H
Project:	Chaves County	TVD Reference:	3574+16 @ 3590.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3574+16 @ 3590.00usft
Well:	Markham State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
525.00	524.78	-6.26	-13.40	1st MWD Survey
12,030.00	2,910.81	-9,542.33	51.12	Last MWD Survey 12030 MD/2910.81 TVD -9542.33 S 51.12 E N: 716315.5 E:
12,094.00	2,910.10	-9,606.33	51.57	PTB 12094 MD/2910.10 TVD -9606.33 S 51.57 E N: 716251.5 E: 613812.3

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 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
copy to appropriate
District Office

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-64329	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 324999	⁵ Property Name MARKHAM STATE	
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁶ Well Number 1H ⁹ Elevation 3574.0

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
P	23	15 S	28 E		330	SOUTH	990	EAST	CHAVES

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	35	15 S	28 E		1223	SOUTH	983	EAST	CHAVES

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
280			

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	
NW CORNER SEC. 23 LAT. = 33.0088983°N LONG. = 104.1111525°W NMSP EAST (FT) N = 730845.84 E = 609446.16 W/4 CORNER SEC. 23 LAT. = 33.0018535°N LONG. = 104.1111680°W NMSP EAST (FT) N = 728209.99 E = 609446.99 SW CORNER SEC. 23 LAT. = 32.99444°N LONG. = 104.1111759°W NMSP EAST (FT) N = 725574.73 E = 609450.13 W/4 CORNER SEC. 26 LAT. = 32.9871538°N LONG. = 104.1110964°W NMSP EAST (FT) N = 722934.64 E = 609480.07 SW CORNER SEC. 26 LAT. = 32.9798966°N LONG. = 104.1112325°W NMSP EAST (FT) N = 720294.20 E = 609443.93 W/4 CORNER SEC. 35 LAT. = 32.9726351°N LONG. = 104.111358°W NMSP EAST (FT) N = 717652.34 E = 609479.13 SW CORNER SEC. 35 LAT. = 32.9653743°N LONG. = 104.1110220°W NMSP EAST (FT) N = 715010.75 E = 609519.63	S89°43'11"E 2642.81 FT S89°42'05"E 2640.78 FT N/4 CORNER SEC. 23 LAT. = 33.0088472°N LONG. = 104.1025336°W NMSP EAST (FT) N = 730832.92 E = 612068.29 MARKHAM STATE 1H ELEV. = 3574.0' LAT. = 32.9951629°N (NAD83) LONG. = 104.0971144°W NMSP EAST (FT) N = 725857.90 E = 613760.73 S/4 CORNER SEC. 23 LAT. = 32.9942440°N LONG. = 104.1023574°W SHL NMSP EAST (FT) N = 725523.66 E = 612153.96 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83) BASES OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE VERTICAL DATUM NAVD83. S/4 CORNER SEC. 26 LAT. = 32.9798978°N LONG. = 104.1024295°W NMSP EAST (FT) N = 720227.61 E = 612143.37 AS-DRILLED LAST TAKE POINT (11990 MD) 7327' FSL, 985' FEL LAT. = 32.9690335°N LONG. = 104.0970184°W NMSP EAST (FT) N = 716351.40 E = 613811.50 AS-DRILLED BOTTOM OF HOLE (12094 MD) LAT. = 32.9687592°N LONG. = 104.0970165°W NMSP EAST (FT) N = 716251.60 E = 613812.30 S/4 CORNER SEC. 35 LAT. = 32.9653873°N LONG. = 104.1023770°W NMSP EAST (FT) N = 715021.17 E = 612171.00 E/4 CORNER SEC. 23 LAT. = 33.0087931°N LONG. = 104.0939215°W NMSP EAST (FT) N = 730819.17 E = 614728.35 E/4 CORNER SEC. 23 LAT. = 33.0015240°N LONG. = 104.0939088°W NMSP EAST (FT) N = 728174.46 E = 614738.27 SE CORNER SEC. 23 LAT. = 32.9942570°N LONG. = 104.0938829°W NMSP EAST (FT) N = 725530.58 E = 614752.22 AS-DRILLED FIRST TAKE POINT (3619 MD) 803' FSL, 984' FEL LAT. = 32.9920500°N LONG. = 104.0970921°W NMSP EAST (FT) N = 724725.20 E = 613770.10 E/4 CORNER SEC. 26 LAT. = 32.9869876°N LONG. = 104.0938669°W NMSP EAST (FT) N = 722885.75 E = 614763.15 SE CORNER SEC. 26 LAT. = 32.9797168°N LONG. = 104.0938384°W NMSP EAST (FT) N = 720240.47 E = 614777.92 E/4 CORNER SEC. 35 LAT. = 32.9725723°N LONG. = 104.0938200°W NMSP EAST (FT) N = 717641.13 E = 614789.47 SE CORNER SEC. 35 LAT. = 32.9654174°N LONG. = 104.0937948°W NMSP EAST (FT) N = 715038.00 E = 614803.13

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.

Delilah Flores _____ Date _____
Signature Printed Name

delilah@mec.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.

SEPTEMBER 29, 2021

Date of Survey _____

Signature and Seal of Professional Surveyor _____
Certificate Number: C-FR-MON-NEW-MEX-PLS 12797 SURVEY NO. 2061C

Intent ☐ As Drilled ☒

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: MARKHAM STATE	Well Number 1H

Kick Off Point (KOP)

UL P	Section 23	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 990	From E/W EAST	County CHAVES
Latitude 32.9951629					Longitude 104.0971144			NAD 83	

First Take Point (FTP)

UL A	Section 26	Township 15S	Range 28E	Lot	Feet 803	From N/S NORTH	Feet 984	From E/W EAST	County CHAVES
Latitude 32.9920500					Longitude 104.0970921			NAD 83	

Last Take Point (LTP)

UL I	Section 35	Township 15S	Range 28E	Lot	Feet 1327	From N/S SOUTH	Feet 985	From E/W EAST	County CHAVES
Latitude 32.9690335					Longitude 104.0970184			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

PLAN VIEW

SEC. 23
T15S, R28E

SEC. 26
T15S, R28E

SEC. 35
T15S, R28E

SURFACE LOCATION
0 MD
330' FSL, 990' FEL

FIRST TAKE POINT
3619 MD
803' FNL, 984' FEL

AS-DRILLED
WELLPATH

LAST TAKE POINT
11990 MD
1327' FSL, 985' FEL

BOTTOM OF HOLE
12094 MD
1223' FSL, 983' FEL

MACK ENERGY CORPORATION
MARKHAM STATE 1H
TAKE POINT MD LOCATIONS
ALONG AS-DRILLED WELL PATH

SEPTEMBER 29, 2021



NOT TO SCALE

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

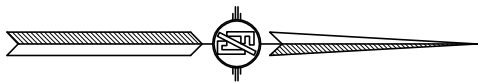
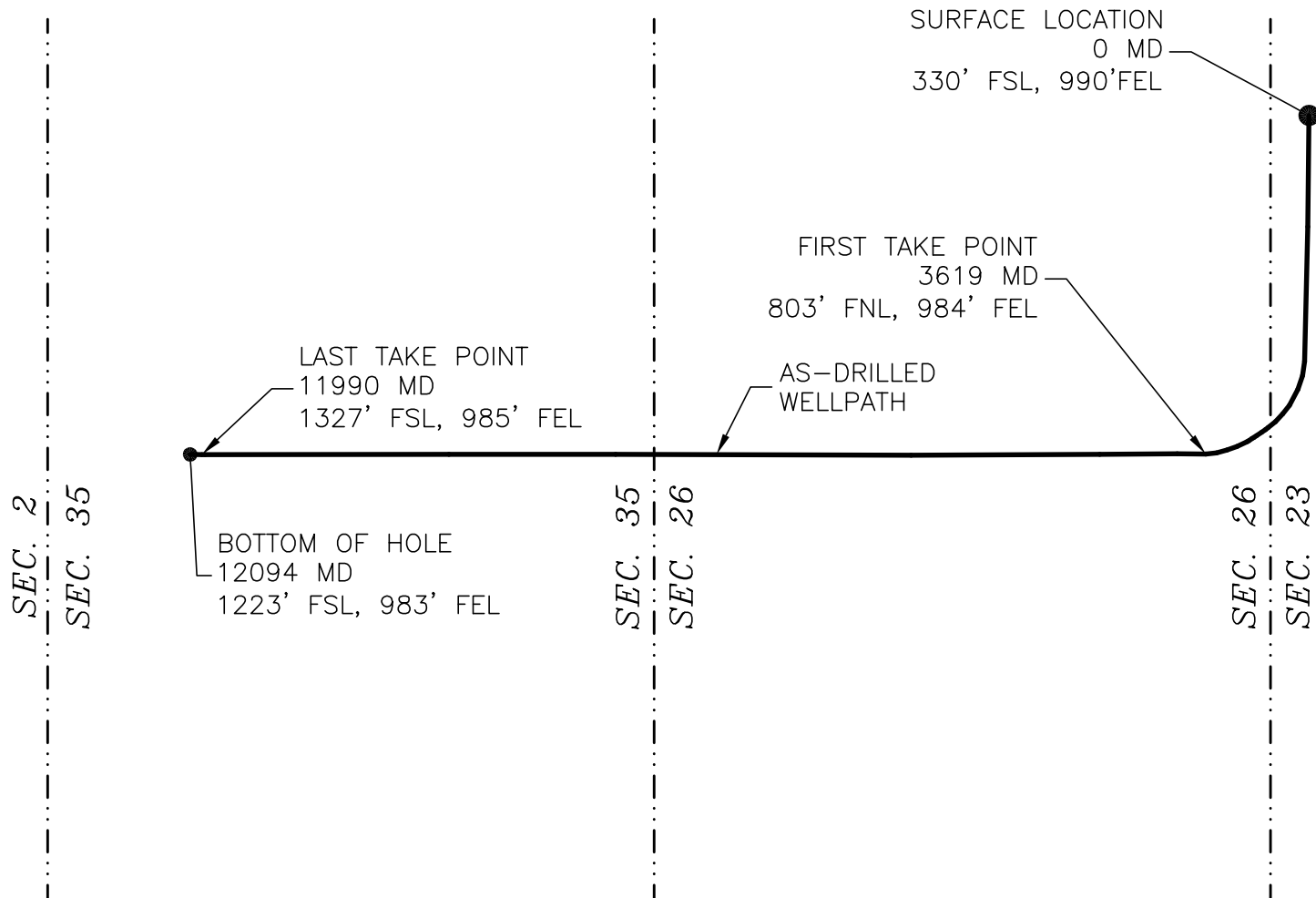
CARLSBAD, NEW MEXICO

SURVEY NO. 2061C

PROFILE VIEW

MACK ENERGY CORPORATION
MARKHAM STATE 1H
TAKE POINT MD LOCATIONS
ALONG AS-DRILLED WELL PATH

SEPTEMBER 29, 2021



NOT TO SCALE

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 2061C

Submit a Copy To Appropriate District

Office

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

WELL API NO. 30-005-64329
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VB-2254
7. Lease Name or Unit Agreement Name Markham State
8. Well Number 1H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Stator @ 2069' Mack Energy Corporation	
3. Address of Operator P.O. Box 960 Artesia, NM 88211-0960	
4. Well Location Unit Letter <u>P</u> : <u>330</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>East</u> line Section <u>23</u> Township <u>15S</u> Range <u>28E</u> NMPM County <u>Chaves</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3574' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: Completion ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date

8/18/2021-9/21/2021- Perforated 3619'-11990' w/ 1104 holes. Frac w/ 11,646 15% Acid,
14,958 SW, 165,808 20# xlink, 712,087# 100 Mesh, 1,179,486# 30/50 B, 5,924,280# 20/40 WI,
1,045,401# 20/40 RC. RIH w/ 62 jts of 3 1/2" J-55 tbg @ 2032', rotor sub, 123M900 Mantl
Stator @ 2,069'.

Spud Date:

5/25/2021

Rig Release Date:

6/14/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Delilah Flores TITLE Regulatory Technician I DATE 11/2/2021Type or print name Delilah Flores E-mail address: delilah@mec.com PHONE: 575-748-1288**For State Use Only**

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Markham State Com		
								6. Well Number: 1H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator Mack Energy Corporation						9. OGRID 013837				
10. Address of Operator P.O. Box 960 Artesia, NM 88211-0960						11. Pool name or Wildcat Round Tank; San Andres				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	P	23	15S	28E		330	South	990	East	Chaves
BH:	P	35	15S	28E		1223	South	983	East	Chaves
13. Date Spudded 5/25/2021	14. Date T.D. Reached 6/11/2021		15. Date Rig Released 6/14/2021			16. Date Completed (Ready to Produce) 10/1/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3574' GR		
18. Total Measured Depth of Well 12094'			19. Plug Back Measured Depth 12040'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3619'-11,990' Round Tank; San Andres										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
17 1/2"		48#		507'		13 3/8"		900 sx		
12 1/4"		36#		1508'		9 5/8"		817 sx		
8 3/4"		26# & 17#		12,090"		5 1/2' & 7"		3129 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 3619'-11990', .42, 1104 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3619'-11990'		11646 bbls 15% Acid, 14958 SW, 165808 xlink,		
								712087# 100 Mesh, 1179486# 30/50, 5924280# 20/40 W		
								1045401# 20/40 RC		
28. PRODUCTION										
Date First Production 10/29/2021		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) pumping - 123M900 Mantl Startor				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 10/31/2021	Hours Tested 24 hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 102	Gas - MCF 42	Water - Bbl. 1597	Gas - Oil Ratio 4284			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 102	Gas - MCF 42	Water - Bbl. 1597	Oil Gravity - API - (<i>Corr.</i>) 34.5				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By Robert Chase			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Delilah Flores</i>			Printed Name Delilah Flores		Title Regulatory Technician			Date 11/2/2021		
E-mail Address delilah@mec.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates 545'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 777'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1275'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1686'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 2003'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., 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 and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 June 19, 2008

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-005-64329
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. VB-2254
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name Markham State Com
4. Well Location Unit Letter <u>P</u> <u>330</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>East</u> line Section <u>23</u> Township <u>15S</u> Range <u>28E</u> NMPM County <u>Chaves, NM</u>		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR etc.) 3574' GR		9. OGRID Number 013837
		10. Pool Name or Wildcat Round Tank; San Andres

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIALWORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: Name Change/ Drill Horizontal ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mack Energy Corporation is proposing to change the name of the Markham State 1H location to the Markham State Com 1H. The location is located in the SESE Sec. 23 T15S R28E.

The Markham State Com 1H will be drilled as a horizontal San Andres well. The total depth of this well is 12,163', TVD is 2912'.

Casing Program: Surface Drill 17 1/2" hole to 500' run 13 3/8" J-55 48# ST&C, new csg/cmt w/ 100sx RFC + 12% PF53+2%PF1+5ppsPF42+.125ppsPF29, Density 14.4-Yield 1.61, H2O mix 7.357. 400sx Class C+1%PF1, Density 14.8-Yield 1.34, H2O 6.323. C/B/T safety factors 8.719834/4.706714/4.74.

Intermediate Drill 12 1/4" hole to 1,500' run 9 5/8" J-55 36# ST&C, new csg/cmt 710sx Class C+1%PF1, Density 14.8-Yield 1.34 H2O mix 6.323. C/B/T safety factors 2.538964/7.266722/7.04.

Production Drill 8 3/4" hole to 12,163' run 7" 0-2050' 26# HCP-110 LT&C, C/B/T safety factors 5.04144/3.365671/3.316667. 5 1/2" 2050-12,163' 17# HCP-110 Buttruss, C/B/T safety factors 5.666209/3.5446667/3.5446667. New csg/cmt 400sx Class "C" 4% PF20+4 pps PF45+125pps PF29, Density 13.2-Yield 1.84 H2O mix 9.914. 2428sx PVL+1.3 (BWOW) PF44+5%PF174+.5%PF606+.1%PF153+.4ppsPF44, Density 13-Yield 1.48 H2O mix 7.577.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jerry W Sherrell TITLE Regulatory Supervisor DATE 5/13/21

Type or print name Jerry W Sherrell E-mail address: jerrys@mec.com PHONE: (575)748-1288

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Specialist DATE 5/21/2021

Conditions of Approval (if any):

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 30-005-64329	² Pool Code 52770	³ Pool Name Round Task; San Andres
⁴ Property Code 324999	⁵ Property Name MARKHAM STATE COM	
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁶ Well Number 1H
		⁹ Elevation 3574.0

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
P	23	15 S	28 E		330	SOUTH	990	EAST	CHAVES

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	35	15 S	28 E		1220	SOUTH	990	EAST	CHAVES

¹² Dedicated Acres 280	¹³ Joint or Infill	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.

NW CORNER SEC. 23 LAT. = 33.0088963°N LONG. = 104.1111525°W NMSP EAST (FT) N = 730845.84 E = 609446.16 W/4 CORNER SEC. 23 LAT. = 33.0016535°N LONG. = 104.1111680°W NMSP EAST (FT) N = 728209.99 E = 609446.99 SW CORNER SEC. 23 LAT. = 32.9944104°N LONG. = 104.1111759°W NMSP EAST (FT) N = 725574.73 E = 609450.13 W/4 CORNER SEC. 26 LAT. = 32.9871538°N LONG. = 104.1110964°W NMSP EAST (FT) N = 722834.64 E = 609480.07 SW CORNER SEC. 26 LAT. = 32.9789866°N LONG. = 104.1112325°W NMSP EAST (FT) N = 720294.20 E = 609443.93 W/4 CORNER SEC. 35 LAT. = 32.9726351°N LONG. = 104.1111358°W NMSP EAST (FT) N = 717652.34 E = 609479.13 SW CORNER SEC. 35 LAT. = 32.9653743°N LONG. = 104.1110200°W NMSP EAST (FT) N = 715010.75 E = 609519.63		NE CORNER SEC. 23 LAT. = 33.0087931°N LONG. = 104.0938215°W NMSP EAST (FT) N = 730819.17 E = 614728.35 E/4 CORNER SEC. 23 LAT. = 33.0015240°N LONG. = 104.0939088°W NMSP EAST (FT) N = 728174.46 E = 614738.27 SE CORNER SEC. 23 LAT. = 32.9942570°N LONG. = 104.0938629°W NMSP EAST (FT) N = 725530.56 E = 614752.22 E/4 CORNER SEC. 26 LAT. = 32.9868876°N LONG. = 104.0938669°W NMSP EAST (FT) N = 722855.75 E = 614783.15 SE CORNER SEC. 26 LAT. = 32.9797188°N LONG. = 104.0938384°W NMSP EAST (FT) N = 720240.47 E = 614777.92 E/4 CORNER SEC. 35 LAT. = 32.9725723°N LONG. = 104.0938200°W NMSP EAST (FT) N = 717641.13 E = 614789.47 SE CORNER SEC. 35 LAT. = 32.9654174°N LONG. = 104.0937948°W NMSP EAST (FT) N = 715038.00 E = 614803.13	
MARKHAM STATE 1H ELEV. = 3574.0' LAT. = 32.9951629°N (NAD83) LONG. = 104.0971144°W NMSP EAST (FT) N = 725857.90 E = 613768.73 S/4 CORNER SEC. 23 LAT. = 32.9942540°N LONG. = 104.1023574°W SHL NMSP EAST (FT) N = 725523.66 E = 612153.96 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). DISTED NEW MEXICO STATE PLAT C-146-C-11 COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLAT C-146-C-11 COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83.		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. <i>Jerry W. Sherrell</i> 5/13/2021 Signature Date Jerry W. Sherrell Printed Name jerry@semec.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. MAY 10, 2021 Date of Survey <i>ALIMON F. JARAMILLO</i> Signature and Seal of Professional Surveyor Certificate Number: 72797 Professional Surveyor License No. 2061C		19 BOTTOM HOLE LOCATION LAST TAKE POINT 1820' PSK, 990' PEL LAT. = 32.9690333°N LONG. = 104.0970348°W NMSP EAST (FT) N = 716351.32 E = 613806.48 BOTTOM OF HOLE LAT. = 32.9687585°N LONG. = 104.0970338°W NMSP EAST (FT) N = 716251.35 E = 613807.00 S/4 CORNER SEC. 35 LAT. = 32.9653873°N LONG. = 104.1023770°W NMSP EAST (FT) N = 715021.17 E = 612171.00	

Intent ☐ As Drilled ☐API #

Operator Name:	Property Name:	Well Number
MACK ENERGY CORPORATION	MARKHAM STATE <i>COM</i>	1H

Kick Off Point (KOP)

UL P	Section 23	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 990	From E/W EAST	County CHAVES
Latitude 32.9951629					Longitude 104.0971144			NAD 83	

First Take Point (FTP)

UL A	Section 26	Township 15S	Range 28E	Lot	Feet 100	From N/S NORTH	Feet 990	From E/W EAST	County CHAVES
Latitude 32.9939812					Longitude 104.0971105			NAD 83	

Last Take Point (LTP)

UL I	Section 35	Township 15S	Range 28E	Lot	Feet 1320	From N/S SOUTH	Feet 990	From E/W EAST	County CHAVES
Latitude 32.9690333					Longitude 104.0970348			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

Markham State Com 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	15:12 Thursday, May 06, 2021	Page 1 of 6
Field	Round Tank	County	Chaves	Vertical Section Azimuth	179.72
Well Name	Markham State Com 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E			Map Zone	UTM
Site				Surface X	1917315.4
Slot Name				Surface Y	11978036.2
Well Number				Surface Z	3590
Project				Ground Level	3574
				Surface Long	
				Surface Lat	
				Global Z Ref	Mean Sea Level
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 2007.00)										
2007.00	0.00	0.0	2007.00	0.00	0.00		0.00	1917315.40	11978036.20	1583.00
2050.00	0.00	0.0	2050.00	0.00	0.00	0.00	0.00	1917315.40	11978036.20	1540.00
2100.00	0.00	0.0	2100.00	0.00	0.00	0.00	0.00	1917315.40	11978036.20	1490.00
*** KOP 8 DEGREES (at MD = 2107.00)										
2107.00	0.00	0.0	2107.00	0.00	0.00	0.00	0.00	1917315.40	11978036.20	1483.00
2150.00	3.44	179.7	2149.97	-1.29	0.01	8.00	1.29	1917315.41	11978034.91	1440.03
2200.00	7.44	179.7	2199.74	-6.03	0.03	8.00	6.03	1917315.43	11978030.17	1390.26
2250.00	11.44	179.7	2249.05	-14.23	0.07	8.00	14.23	1917315.47	11978021.97	1340.95
2300.00	15.44	179.7	2297.67	-25.85	0.13	8.00	25.85	1917315.53	11978010.35	1292.33
2350.00	19.44	179.7	2345.36	-40.83	0.20	8.00	40.83	1917315.60	11977995.37	1244.64
2400.00	23.44	179.7	2391.90	-59.10	0.29	8.00	59.10	1917315.69	11977977.10	1198.11
2450.00	27.44	179.7	2437.04	-80.58	0.39	8.00	80.58	1917315.79	11977955.62	1152.96
2500.00	31.44	179.7	2480.57	-105.15	0.51	8.00	105.15	1917315.91	11977931.05	1109.43
2550.00	35.44	179.7	2522.29	-132.69	0.65	8.00	132.69	1917316.05	11977903.51	1067.71
2600.00	39.44	179.7	2561.98	-163.08	0.80	8.00	163.09	1917316.20	11977873.12	1028.02
2650.00	43.44	179.7	2599.45	-196.17	0.96	8.00	196.17	1917316.36	11977840.03	990.55
2700.00	47.44	179.7	2634.53	-231.79	1.13	8.00	231.79	1917316.53	11977804.41	955.47
2750.00	51.44	179.7	2667.03	-269.76	1.32	8.00	269.77	1917316.72	11977766.44	922.97
*** 55 DEGREE TANGENT (at MD = 2794.50)										
2794.50	55.00	179.7	2693.67	-305.40	1.49	8.00	305.40	1917316.89	11977730.80	896.33
2800.00	55.00	179.7	2696.83	-309.91	1.51	0.00	309.91	1917316.91	11977726.30	893.17
2850.00	55.00	179.7	2725.51	-350.86	1.71	0.00	350.87	1917317.11	11977685.34	864.49
2900.00	55.00	179.7	2754.19	-391.82	1.91	0.00	391.82	1917317.31	11977644.38	835.81
2950.00	55.00	179.7	2782.87	-432.78	2.12	0.00	432.78	1917317.52	11977603.42	807.13
*** 10 DEGREE BUILD (at MD = 2994.50)										
2994.50	55.00	179.7	2808.39	-469.23	2.29	0.00	469.23	1917317.69	11977566.97	781.61
3000.00	55.55	179.7	2811.52	-473.75	2.32	10.00	473.75	1917317.72	11977562.45	778.48
3050.00	60.55	179.7	2837.97	-516.16	2.52	10.00	516.17	1917317.92	11977520.04	752.03
3100.00	65.55	179.7	2860.63	-560.72	2.74	10.00	560.72	1917318.14	11977475.48	729.37
3150.00	70.55	179.7	2879.31	-607.08	2.97	10.00	607.08	1917318.37	11977429.12	710.69
3200.00	75.55	179.7	2893.88	-654.89	3.20	10.00	654.90	1917318.60	11977381.31	696.12
3250.00	80.55	179.7	2904.23	-703.79	3.44	10.00	703.80	1917318.84	11977332.41	685.77
3300.00	85.55	179.7	2910.28	-753.40	3.68	10.00	753.41	1917319.08	11977282.80	679.72
*** LANDING POINT (at MD = 3344.50)										
3344.50	90.00	179.7	2912.01	-797.86	3.90	10.00	797.87	1917319.30	11977238.34	677.99
3350.00	90.00	179.7	2912.01	-803.36	3.93	0.00	803.37	1917319.33	11977232.84	677.99
3400.00	90.00	179.7	2912.01	-853.36	4.17	0.00	853.37	1917319.57	11977182.84	677.99
3450.00	90.00	179.7	2912.01	-903.36	4.41	0.00	903.37	1917319.81	11977132.84	677.99

Markham State Com 1H, Plan 1

Operator Mack Energy Corp	Units feet, °/100ft	15:12 Thursday, May 06, 2021	Page 2 of 6
Field Round Tank	County Chaves	Vertical Section Azimuth 179.72	
Well Name Markham State Com 1H	State New Mexico	Survey Calculation Method Minimum Curvature	
Plan 1	Country USA	Database Access	
Location SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E	Map Zone UTM	Lat Long Ref	
Site	Surface X 1917315.4	Surface Long	
Slot Name	Surface Y 11978036.2	Surface Lat	
Well Number	Surface Z 3590	Global Z Ref Mean Sea Level	
Project	Ground Level 3574	Local North Ref Grid	

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
3500.00	90.00	179.7	2912.01	-953.36	4.66	0.00	953.37	1917320.06	11977082.84	677.99
3550.00	90.00	179.7	2912.01	-1003.36	4.90	0.00	1003.37	1917320.30	11977032.84	677.99
3600.00	90.00	179.7	2912.01	-1053.36	5.15	0.00	1053.37	1917320.55	11976982.84	677.99
3650.00	90.00	179.7	2912.01	-1103.36	5.39	0.00	1103.37	1917320.79	11976932.84	677.99
3700.00	90.00	179.7	2912.01	-1153.36	5.64	0.00	1153.37	1917321.04	11976882.84	677.99
3750.00	90.00	179.7	2912.01	-1203.35	5.88	0.00	1203.37	1917321.28	11976832.85	677.99
3800.00	90.00	179.7	2912.01	-1253.35	6.13	0.00	1253.37	1917321.53	11976782.85	677.99
3850.00	90.00	179.7	2912.01	-1303.35	6.37	0.00	1303.37	1917321.77	11976732.85	677.99
3900.00	90.00	179.7	2912.01	-1353.35	6.61	0.00	1353.37	1917322.01	11976682.85	677.99
3950.00	90.00	179.7	2912.01	-1403.35	6.86	0.00	1403.37	1917322.26	11976632.85	677.99
4000.00	90.00	179.7	2912.01	-1453.35	7.10	0.00	1453.37	1917322.50	11976582.85	677.99
4050.00	90.00	179.7	2912.01	-1503.35	7.35	0.00	1503.37	1917322.75	11976532.85	677.99
4100.00	90.00	179.7	2912.01	-1553.35	7.59	0.00	1553.37	1917322.99	11976482.85	677.99
4150.00	90.00	179.7	2912.01	-1603.35	7.84	0.00	1603.37	1917323.24	11976432.85	677.99
4200.00	90.00	179.7	2912.01	-1653.35	8.08	0.00	1653.37	1917323.48	11976382.85	677.99
4250.00	90.00	179.7	2912.01	-1703.35	8.32	0.00	1703.37	1917323.72	11976332.85	677.99
4300.00	90.00	179.7	2912.01	-1753.35	8.57	0.00	1753.37	1917323.97	11976282.85	677.99
4350.00	90.00	179.7	2912.01	-1803.35	8.81	0.00	1803.37	1917324.21	11976232.85	677.99
4400.00	90.00	179.7	2912.01	-1853.35	9.06	0.00	1853.37	1917324.46	11976182.85	677.99
4450.00	90.00	179.7	2912.01	-1903.35	9.30	0.00	1903.37	1917324.70	11976132.85	677.99
4500.00	90.00	179.7	2912.01	-1953.35	9.55	0.00	1953.37	1917324.95	11976082.85	677.99
4550.00	90.00	179.7	2912.01	-2003.35	9.79	0.00	2003.37	1917325.19	11976032.86	677.99
4600.00	90.00	179.7	2912.01	-2053.34	10.03	0.00	2053.37	1917325.43	11975982.86	677.99
4650.00	90.00	179.7	2912.01	-2103.34	10.28	0.00	2103.37	1917325.68	11975932.86	677.99
4700.00	90.00	179.7	2912.01	-2153.34	10.52	0.00	2153.37	1917325.92	11975882.86	677.99
4750.00	90.00	179.7	2912.01	-2203.34	10.77	0.00	2203.37	1917326.17	11975832.86	677.99
4800.00	90.00	179.7	2912.01	-2253.34	11.01	0.00	2253.37	1917326.41	11975782.86	677.99
4850.00	90.00	179.7	2912.01	-2303.34	11.26	0.00	2303.37	1917326.66	11975732.86	677.99
4900.00	90.00	179.7	2912.01	-2353.34	11.50	0.00	2353.37	1917326.90	11975682.86	677.99
4950.00	90.00	179.7	2912.01	-2403.34	11.75	0.00	2403.37	1917327.15	11975632.86	677.99
5000.00	90.00	179.7	2912.01	-2453.34	11.99	0.00	2453.37	1917327.39	11975582.86	677.99
5050.00	90.00	179.7	2912.01	-2503.34	12.23	0.00	2503.37	1917327.63	11975532.86	677.99
5100.00	90.00	179.7	2912.01	-2553.34	12.48	0.00	2553.37	1917327.88	11975482.86	677.99
5150.00	90.00	179.7	2912.01	-2603.34	12.72	0.00	2603.37	1917328.12	11975432.86	677.99
5200.00	90.00	179.7	2912.01	-2653.34	12.97	0.00	2653.37	1917328.37	11975382.86	677.99
5250.00	90.00	179.7	2912.01	-2703.34	13.21	0.00	2703.37	1917328.61	11975332.86	677.99
5300.00	90.00	179.7	2912.01	-2753.34	13.46	0.00	2753.37	1917328.86	11975282.86	677.99

Markham State Com 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, %/100ft	15:12 Thursday, May 06, 2021	Page 3 of 6
Field	Round Tank	County	Chaves	Vertical Section Azimuth	179.72
Well Name	Markham State Com 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E			Map Zone	UTM
Site				Surface X	1917315.4
Slot Name				Surface Y	11978036.2
Well Number				Surface Z	3590
Project				Ground Level	3574
				Surface Long	
				Surface Lat	
				Global Z Ref	Mean Sea Level
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5350.00	90.00	179.7	2912.01	-2803.34	13.70	0.00	2803.37	1917329.10	11975232.86	677.99
5400.00	90.00	179.7	2912.01	-2853.33	13.94	0.00	2853.37	1917329.34	11975182.87	677.99
5450.00	90.00	179.7	2912.01	-2903.33	14.19	0.00	2903.37	1917329.59	11975132.87	677.99
5500.00	90.00	179.7	2912.01	-2953.33	14.43	0.00	2953.37	1917329.83	11975082.87	677.99
5550.00	90.00	179.7	2912.01	-3003.33	14.68	0.00	3003.37	1917330.08	11975032.87	677.99
5600.00	90.00	179.7	2912.01	-3053.33	14.92	0.00	3053.37	1917330.32	11974982.87	677.99
5650.00	90.00	179.7	2912.01	-3103.33	15.17	0.00	3103.37	1917330.57	11974932.87	677.99
5700.00	90.00	179.7	2912.01	-3153.33	15.41	0.00	3153.37	1917330.81	11974882.87	677.99
5750.00	90.00	179.7	2912.01	-3203.33	15.65	0.00	3203.37	1917331.05	11974832.87	677.99
5800.00	90.00	179.7	2912.01	-3253.33	15.90	0.00	3253.37	1917331.30	11974782.87	677.99
5850.00	90.00	179.7	2912.01	-3303.33	16.14	0.00	3303.37	1917331.54	11974732.87	677.99
5900.00	90.00	179.7	2912.01	-3353.33	16.39	0.00	3353.37	1917331.79	11974682.87	677.99
5950.00	90.00	179.7	2912.01	-3403.33	16.63	0.00	3403.37	1917332.03	11974632.87	677.99
6000.00	90.00	179.7	2912.01	-3453.33	16.88	0.00	3453.37	1917332.28	11974582.87	677.99
6050.00	90.00	179.7	2912.01	-3503.33	17.12	0.00	3503.37	1917332.52	11974532.87	677.99
6100.00	90.00	179.7	2912.01	-3553.33	17.37	0.00	3553.37	1917332.77	11974482.87	677.99
6150.00	90.00	179.7	2912.01	-3603.33	17.61	0.00	3603.37	1917333.01	11974432.87	677.99
6200.00	90.00	179.7	2912.01	-3653.33	17.85	0.00	3653.37	1917333.25	11974382.87	677.99
6250.00	90.00	179.7	2912.01	-3703.32	18.10	0.00	3703.37	1917333.50	11974332.88	677.99
6300.00	90.00	179.7	2912.01	-3753.32	18.34	0.00	3753.37	1917333.74	11974282.88	677.99
6350.00	90.00	179.7	2912.01	-3803.32	18.59	0.00	3803.37	1917333.99	11974232.88	677.99
6400.00	90.00	179.7	2912.01	-3853.32	18.83	0.00	3853.37	1917334.23	11974182.88	677.99
6450.00	90.00	179.7	2912.01	-3903.32	19.08	0.00	3903.37	1917334.48	11974132.88	677.99
6500.00	90.00	179.7	2912.01	-3953.32	19.32	0.00	3953.37	1917334.72	11974082.88	677.99
6550.00	90.00	179.7	2912.01	-4003.32	19.56	0.00	4003.37	1917334.96	11974032.88	677.99
6600.00	90.00	179.7	2912.01	-4053.32	19.81	0.00	4053.37	1917335.21	11973982.88	677.99
6650.00	90.00	179.7	2912.01	-4103.32	20.05	0.00	4103.37	1917335.45	11973932.88	677.99
6700.00	90.00	179.7	2912.01	-4153.32	20.30	0.00	4153.37	1917335.70	11973882.88	677.99
6750.00	90.00	179.7	2912.01	-4203.32	20.54	0.00	4203.37	1917335.94	11973832.88	677.99
6800.00	90.00	179.7	2912.01	-4253.32	20.79	0.00	4253.37	1917336.19	11973782.88	677.99
6850.00	90.00	179.7	2912.01	-4303.32	21.03	0.00	4303.37	1917336.43	11973732.88	677.99
6900.00	90.00	179.7	2912.01	-4353.32	21.27	0.00	4353.37	1917336.67	11973682.88	677.99
6950.00	90.00	179.7	2912.01	-4403.32	21.52	0.00	4403.37	1917336.92	11973632.88	677.99
7000.00	90.00	179.7	2912.01	-4453.32	21.76	0.00	4453.37	1917337.16	11973582.88	677.99
7050.00	90.00	179.7	2912.01	-4503.32	22.01	0.00	4503.37	1917337.41	11973532.88	677.99
7100.00	90.00	179.7	2912.01	-4553.31	22.25	0.00	4553.37	1917337.65	11973482.89	677.99
7150.00	90.00	179.7	2912.01	-4603.31	22.50	0.00	4603.37	1917337.90	11973432.89	677.99

Markham State Com 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	15:12 Thursday, May 06, 2021	Page 4 of 6
Field	Round Tank	County	Chaves	Vertical Section Azimuth	179.72
Well Name	Markham State Com 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E	Map Zone	UTM	Lat Long Ref	
Site		Surface X	1917315.4	Surface Long	
Slot Name		Surface Y	11978036.2	Surface Lat	
Well Number		Surface Z	3590	Global Z Ref	Mean Sea Level
Project		Ground Level	3574	Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
7200.00	90.00	179.7	2912.01	-4653.31	22.74	0.00	4653.37	1917338.14	11973382.89	677.99
7250.00	90.00	179.7	2912.01	-4703.31	22.98	0.00	4703.37	1917338.38	11973332.89	677.99
7300.00	90.00	179.7	2912.01	-4753.31	23.23	0.00	4753.37	1917338.63	11973282.89	677.99
7350.00	90.00	179.7	2912.01	-4803.31	23.47	0.00	4803.37	1917338.87	11973232.89	677.99
7400.00	90.00	179.7	2912.01	-4853.31	23.72	0.00	4853.37	1917339.12	11973182.89	677.99
7450.00	90.00	179.7	2912.01	-4903.31	23.96	0.00	4903.37	1917339.36	11973132.89	677.99
7500.00	90.00	179.7	2912.01	-4953.31	24.21	0.00	4953.37	1917339.61	11973082.89	677.99
7550.00	90.00	179.7	2912.01	-5003.31	24.45	0.00	5003.37	1917339.85	11973032.89	677.99
7600.00	90.00	179.7	2912.01	-5053.31	24.70	0.00	5053.37	1917340.10	11972982.89	677.99
7650.00	90.00	179.7	2912.01	-5103.31	24.94	0.00	5103.37	1917340.34	11972932.89	677.99
7700.00	90.00	179.7	2912.01	-5153.31	25.18	0.00	5153.37	1917340.58	11972882.89	677.99
7750.00	90.00	179.7	2912.01	-5203.31	25.43	0.00	5203.37	1917340.83	11972832.89	677.99
7800.00	90.00	179.7	2912.01	-5253.31	25.67	0.00	5253.37	1917341.07	11972782.89	677.99
7850.00	90.00	179.7	2912.01	-5303.31	25.92	0.00	5303.37	1917341.32	11972732.89	677.99
7900.00	90.00	179.7	2912.01	-5353.31	26.16	0.00	5353.37	1917341.56	11972682.90	677.99
7950.00	90.00	179.7	2912.01	-5403.30	26.41	0.00	5403.37	1917341.81	11972632.90	677.99
8000.00	90.00	179.7	2912.01	-5453.30	26.65	0.00	5453.37	1917342.05	11972582.90	677.99
8050.00	90.00	179.7	2912.01	-5503.30	26.89	0.00	5503.37	1917342.29	11972532.90	677.99
8100.00	90.00	179.7	2912.01	-5553.30	27.14	0.00	5553.37	1917342.54	11972482.90	677.99
8150.00	90.00	179.7	2912.01	-5603.30	27.38	0.00	5603.37	1917342.78	11972432.90	677.99
8200.00	90.00	179.7	2912.01	-5653.30	27.63	0.00	5653.37	1917343.03	11972382.90	677.99
8250.00	90.00	179.7	2912.01	-5703.30	27.87	0.00	5703.37	1917343.27	11972332.90	677.99
8300.00	90.00	179.7	2912.01	-5753.30	28.12	0.00	5753.37	1917343.52	11972282.90	677.99
8350.00	90.00	179.7	2912.01	-5803.30	28.36	0.00	5803.37	1917343.76	11972232.90	677.99
8400.00	90.00	179.7	2912.01	-5853.30	28.60	0.00	5853.37	1917344.00	11972182.90	677.99
8450.00	90.00	179.7	2912.01	-5903.30	28.85	0.00	5903.37	1917344.25	11972132.90	677.99
8500.00	90.00	179.7	2912.01	-5953.30	29.09	0.00	5953.37	1917344.49	11972082.90	677.99
8550.00	90.00	179.7	2912.01	-6003.30	29.34	0.00	6003.37	1917344.74	11972032.90	677.99
8600.00	90.00	179.7	2912.01	-6053.30	29.58	0.00	6053.37	1917344.98	11971982.90	677.99
8650.00	90.00	179.7	2912.01	-6103.30	29.83	0.00	6103.37	1917345.23	11971932.90	677.99
8700.00	90.00	179.7	2912.01	-6153.30	30.07	0.00	6153.37	1917345.47	11971882.90	677.99
8750.00	90.00	179.7	2912.01	-6203.29	30.32	0.00	6203.37	1917345.72	11971832.91	677.99
8800.00	90.00	179.7	2912.01	-6253.29	30.56	0.00	6253.37	1917345.96	11971782.91	677.99
8850.00	90.00	179.7	2912.01	-6303.29	30.80	0.00	6303.37	1917346.20	11971732.91	677.99
8900.00	90.00	179.7	2912.01	-6353.29	31.05	0.00	6353.37	1917346.45	11971682.91	677.99
8950.00	90.00	179.7	2912.01	-6403.29	31.29	0.00	6403.37	1917346.69	11971632.91	677.99
9000.00	90.00	179.7	2912.01	-6453.29	31.54	0.00	6453.37	1917346.94	11971582.91	677.99

Markham State Com 1H, Plan 1

Operator Mack Energy Corp	Units feet, °/100ft	15:12 Thursday, May 06, 2021 Page 5 of 6
Field Round Tank	County Chaves	Vertical Section Azimuth 179.72
Well Name Markham State Com 1H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E	Map Zone UTM	Lat Long Ref
Site	Surface X 1917315.4	Surface Long
Slot Name	Surface Y 11978036.2	Surface Lat
Well Number	Surface Z 3590	Global Z Ref Mean Sea Level
Project	Ground Level 3574	Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
9050.00	90.00	179.7	2912.01	-6503.29	31.78	0.00	6503.37	1917347.18	11971532.91	677.99
9100.00	90.00	179.7	2912.01	-6553.29	32.03	0.00	6553.37	1917347.43	11971482.91	677.99
9150.00	90.00	179.7	2912.01	-6603.29	32.27	0.00	6603.37	1917347.67	11971432.91	677.99
9200.00	90.00	179.7	2912.01	-6653.29	32.51	0.00	6653.37	1917347.91	11971382.91	677.99
9250.00	90.00	179.7	2912.01	-6703.29	32.76	0.00	6703.37	1917348.16	11971332.91	677.99
9300.00	90.00	179.7	2912.01	-6753.29	33.00	0.00	6753.37	1917348.40	11971282.91	677.99
9350.00	90.00	179.7	2912.01	-6803.29	33.25	0.00	6803.37	1917348.65	11971232.91	677.99
9400.00	90.00	179.7	2912.01	-6853.29	33.49	0.00	6853.37	1917348.89	11971182.91	677.99
9450.00	90.00	179.7	2912.01	-6903.29	33.74	0.00	6903.37	1917349.14	11971132.91	677.99
9500.00	90.00	179.7	2912.01	-6953.29	33.98	0.00	6953.37	1917349.38	11971082.91	677.99
9550.00	90.00	179.7	2912.01	-7003.29	34.22	0.00	7003.37	1917349.62	11971032.91	677.99
9600.00	90.00	179.7	2912.01	-7053.28	34.47	0.00	7053.37	1917349.87	11970982.92	677.99
9650.00	90.00	179.7	2912.01	-7103.28	34.71	0.00	7103.37	1917350.11	11970932.92	677.99
9700.00	90.00	179.7	2912.01	-7153.28	34.96	0.00	7153.37	1917350.36	11970882.92	677.99
9750.00	90.00	179.7	2912.01	-7203.28	35.20	0.00	7203.37	1917350.60	11970832.92	677.99
9800.00	90.00	179.7	2912.01	-7253.28	35.45	0.00	7253.37	1917350.85	11970782.92	677.99
9850.00	90.00	179.7	2912.01	-7303.28	35.69	0.00	7303.37	1917351.09	11970732.92	677.99
9900.00	90.00	179.7	2912.01	-7353.28	35.94	0.00	7353.37	1917351.34	11970682.92	677.99
9950.00	90.00	179.7	2912.01	-7403.28	36.18	0.00	7403.37	1917351.58	11970632.92	677.99
10000.00	90.00	179.7	2912.01	-7453.28	36.42	0.00	7453.37	1917351.82	11970582.92	677.99
10050.00	90.00	179.7	2912.01	-7503.28	36.67	0.00	7503.37	1917352.07	11970532.92	677.99
10100.00	90.00	179.7	2912.01	-7553.28	36.91	0.00	7553.37	1917352.31	11970482.92	677.99
10150.00	90.00	179.7	2912.01	-7603.28	37.16	0.00	7603.37	1917352.56	11970432.92	677.99
10200.00	90.00	179.7	2912.01	-7653.28	37.40	0.00	7653.37	1917352.80	11970382.92	677.99
10250.00	90.00	179.7	2912.01	-7703.28	37.65	0.00	7703.37	1917353.05	11970332.92	677.99
10300.00	90.00	179.7	2912.01	-7753.28	37.89	0.00	7753.37	1917353.29	11970282.92	677.99
10350.00	90.00	179.7	2912.01	-7803.28	38.13	0.00	7803.37	1917353.53	11970232.92	677.99
10400.00	90.00	179.7	2912.01	-7853.28	38.38	0.00	7853.37	1917353.78	11970182.92	677.99
10450.00	90.00	179.7	2912.01	-7903.27	38.62	0.00	7903.37	1917354.02	11970132.93	677.99
10500.00	90.00	179.7	2912.01	-7953.27	38.87	0.00	7953.37	1917354.27	11970082.93	677.99
10550.00	90.00	179.7	2912.01	-8003.27	39.11	0.00	8003.37	1917354.51	11970032.93	677.99
10600.00	90.00	179.7	2912.01	-8053.27	39.36	0.00	8053.37	1917354.76	11969982.93	677.99
10650.00	90.00	179.7	2912.01	-8103.27	39.60	0.00	8103.37	1917355.00	11969932.93	677.99
10700.00	90.00	179.7	2912.01	-8153.27	39.84	0.00	8153.37	1917355.24	11969882.93	677.99
10750.00	90.00	179.7	2912.01	-8203.27	40.09	0.00	8203.37	1917355.49	11969832.93	677.99
10800.00	90.00	179.7	2912.01	-8253.27	40.33	0.00	8253.37	1917355.73	11969782.93	677.99
10850.00	90.00	179.7	2912.01	-8303.27	40.58	0.00	8303.37	1917355.98	11969732.93	677.99

Markham State Com 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	15:12 Thursday, May 06, 2021	Page 6 of 6
Field	Round Tank	County	Chaves	Vertical Section Azimuth	179.72
Well Name	Markham State Com 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 330 FSL & 990 FEL Sec 23-T15S-R28E BHL: 1 FSL & 990 FEL Sec 26-T15S-R28E		Map Zone	UTM	Lat Long Ref
Site			Surface X	1917315.4	Surface Long
Slot Name		UWI	Surface Y	11978036.2	Surface Lat
Well Number		API	Surface Z	3590	Global Z Ref Mean Sea Level
Project		MD/TVD Ref KB	Ground Level	3574	Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
10900.00	90.00	179.7	2912.01	-8353.27	40.82	0.00	8353.37	1917356.22	11969682.93	677.99
10950.00	90.00	179.7	2912.01	-8403.27	41.07	0.00	8403.37	1917356.47	11969632.93	677.99
11000.00	90.00	179.7	2912.01	-8453.27	41.31	0.00	8453.37	1917356.71	11969582.93	677.99
11050.00	90.00	179.7	2912.01	-8503.27	41.56	0.00	8503.37	1917356.96	11969532.93	677.99
11100.00	90.00	179.7	2912.01	-8553.27	41.80	0.00	8553.37	1917357.20	11969482.93	677.99
11150.00	90.00	179.7	2912.01	-8603.27	42.04	0.00	8603.37	1917357.44	11969432.93	677.99
11200.00	90.00	179.7	2912.01	-8653.27	42.29	0.00	8653.37	1917357.69	11969382.93	677.99
11250.00	90.00	179.7	2912.01	-8703.27	42.53	0.00	8703.37	1917357.93	11969332.94	677.99
11300.00	90.00	179.7	2912.01	-8753.26	42.78	0.00	8753.37	1917358.18	11969282.94	677.99
11350.00	90.00	179.7	2912.01	-8803.26	43.02	0.00	8803.37	1917358.42	11969232.94	677.99
11400.00	90.00	179.7	2912.01	-8853.26	43.27	0.00	8853.37	1917358.67	11969182.94	677.99
11450.00	90.00	179.7	2912.01	-8903.26	43.51	0.00	8903.37	1917358.91	11969132.94	677.99
11500.00	90.00	179.7	2912.01	-8953.26	43.75	0.00	8953.37	1917359.15	11969082.94	677.99
11550.00	90.00	179.7	2912.01	-9003.26	44.00	0.00	9003.37	1917359.40	11969032.94	677.99
11600.00	90.00	179.7	2912.01	-9053.26	44.24	0.00	9053.37	1917359.64	11968982.94	677.99
11650.00	90.00	179.7	2912.01	-9103.26	44.49	0.00	9103.37	1917359.89	11968932.94	677.99
11700.00	90.00	179.7	2912.01	-9153.26	44.73	0.00	9153.37	1917360.13	11968882.94	677.99
11750.00	90.00	179.7	2912.01	-9203.26	44.98	0.00	9203.37	1917360.38	11968832.94	677.99
11800.00	90.00	179.7	2912.01	-9253.26	45.22	0.00	9253.37	1917360.62	11968782.94	677.99
11850.00	90.00	179.7	2912.01	-9303.26	45.46	0.00	9303.37	1917360.86	11968732.94	677.99
11900.00	90.00	179.7	2912.01	-9353.26	45.71	0.00	9353.37	1917361.11	11968682.94	677.99
11950.00	90.00	179.7	2912.01	-9403.26	45.95	0.00	9403.37	1917361.35	11968632.94	677.99
12000.00	90.00	179.7	2912.01	-9453.26	46.20	0.00	9453.37	1917361.60	11968582.94	677.99
12050.00	90.00	179.7	2912.01	-9503.26	46.44	0.00	9503.37	1917361.84	11968532.94	677.99
12100.00	90.00	179.7	2912.01	-9553.25	46.69	0.00	9553.37	1917362.09	11968482.95	677.99
12150.00	90.00	179.7	2912.01	-9603.25	46.93	0.00	9603.37	1917362.33	11968432.95	677.99
*** TD (at MD = 12162.50)										
12162.50	90.00	179.7	2912.01	-9615.75	46.99	0.00	9615.87	1917362.39	11968420.45	677.99

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

COMMENTS

Action 28142

COMMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 28142
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/14/2021	5/14/2021

District I
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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 28142

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 28142
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/14/2021

District I

1625 N. French Dr., Hobbs, NM 88240
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 71380

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 71380
	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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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 71380

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 71380
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/10/2022