

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

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 88210		² OGRID Number 13837
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 0 05-64317	⁵ Pool Name Round Tank; San Andres	⁶ Pool Code 52770
⁷ Property Code 322440	⁸ Property Name Red Deer Federal Com	⁹ Well Number 2H

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
C	35	15S	28E		500	North	2265	West	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
C	26	15S	28E		6	North	2316	West	Chaves
¹² Lse Code F	¹³ Producing Method P Code	¹⁴ Gas Connection Date 3/28/2021	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 2/26/2020	²² Ready Date 3/22/2021	²³ TD 8331' TVD 2818'	²⁴ PBDT 8305' TVD 2818'	²⁵ Perforations TVD 2894-2819' 3319-8230'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	460'	420sx		
12 1/4"	9 5/8"	1487'	485sx		
8 3/4"	7" & 5 1/2"	8331'	1380sx		
	3 1/2" Tubing	2170'			

V. Well Test Data

³¹ Date New Oil 3/28/2021	³² Gas Delivery Date 3/28/2021	³³ Test Date 3/29/2021	³⁴ Test Length 24hr	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 54	³⁹ Water 1403	⁴⁰ Gas 23		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>Deana Weaver</i>	OIL CONSERVATION DIVISION Approved by: <i>Amy Fennusch</i>
Printed name: Deana Weaver	Title: Data Compliance Manager
Title: Production Clerk	Approval Date: 7/12/21
E-mail Address: dweaver@mec.com	
Date: 3/30/2021	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 30-005-64317	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 322440	⁵ Property Name RED DEER FEDERAL COM 2H	⁶ Well Number 2H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3577.7

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
C	35	15 S	28 E		500	NORTH	2265	WEST	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
C	26	15 S	28 E		6	NORTH	2316	WEST	CHAVES

¹² Dedicated Acres 160	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>Deana Weaver</i> 4/8/2021 Signature Date Deana Weaver Printed Name dweaver@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. JANUARY 31, 2020 Date of Survey <i>William F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 WILLIAM F. JARAMILLO, PLS 12797 REGISTERED PROFESSIONAL SURVEYOR NO. 5307B	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>Deana Weaver</i> 4/8/2021 Signature Date Deana Weaver Printed Name dweaver@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. JANUARY 31, 2020 Date of Survey <i>William F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 WILLIAM F. JARAMILLO, PLS 12797 REGISTERED PROFESSIONAL SURVEYOR NO. 5307B
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Intent ☐ As Drilled ☒

API # 30-005-64317		
Operator Name: MACK ENERGY CORPORATION	Property Name: RED DEER FEDERAL COM	Well Number 2H

Kick Off Point (KOP)

UL C	Section 35	Township 15S	Range 28E	Lot	Feet 500	From N/S NORTH	Feet 2265	From E/W WEST	County CHAVES
Latitude 32.9783548					Longitude 104.1038270			NAD 83	

First Take Point (FTP)

UL N	Section 26	Township 15S	Range 28E	Lot	Feet 270	From N/S SOUTH	Feet 2319	From E/W WEST	County CHAVES
Latitude 32.9800012					Longitude 104.1036894			NAD 83	

Last Take Point (LTP)

UL C	Section 26	Township 15S	Range 28E	Lot	Feet 100	From N/S NORTH	Feet 2313	From E/W WEST	County CHAVES
Latitude 32.9740019					Longitude 104.1036388			NAD 83	

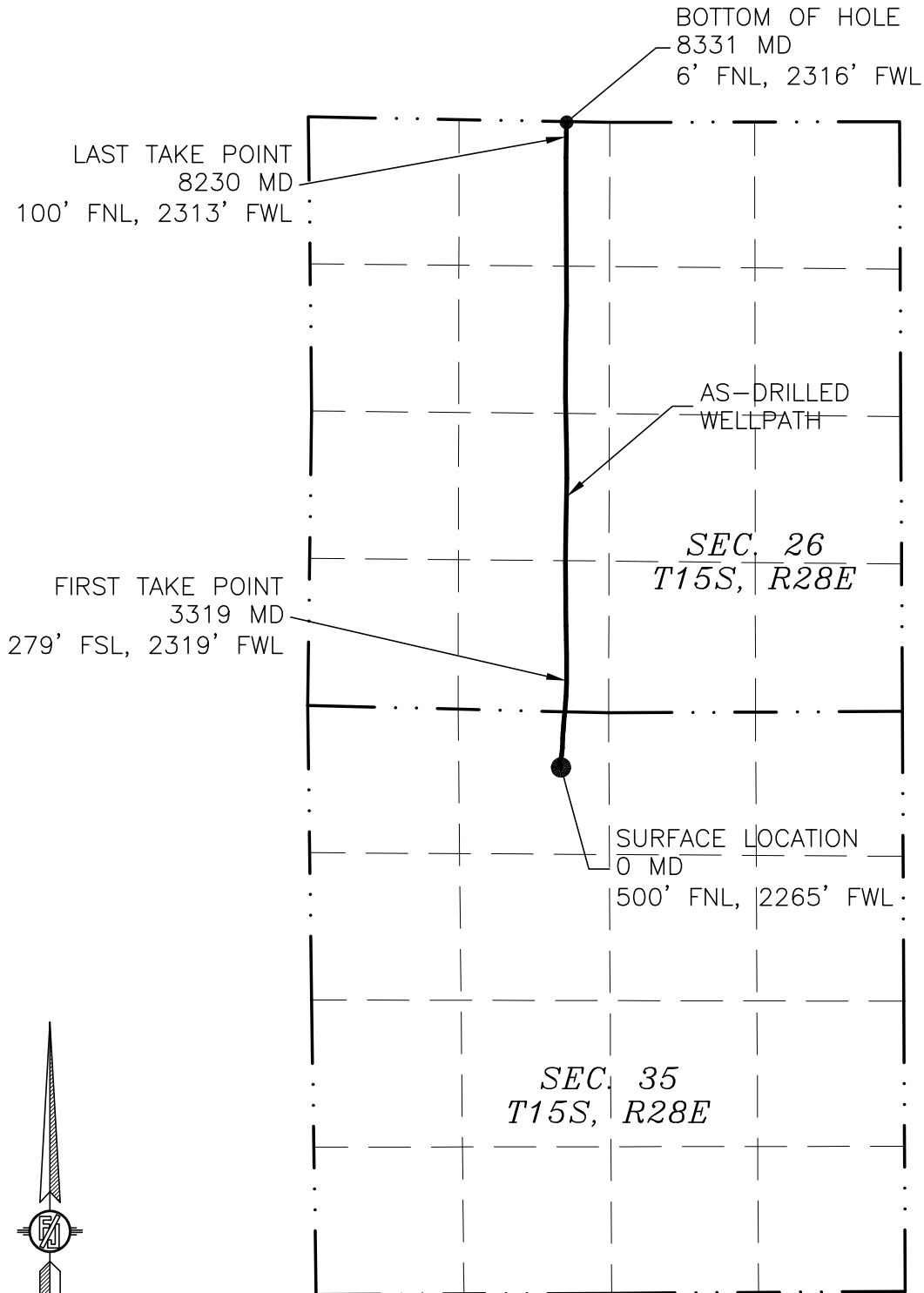
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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



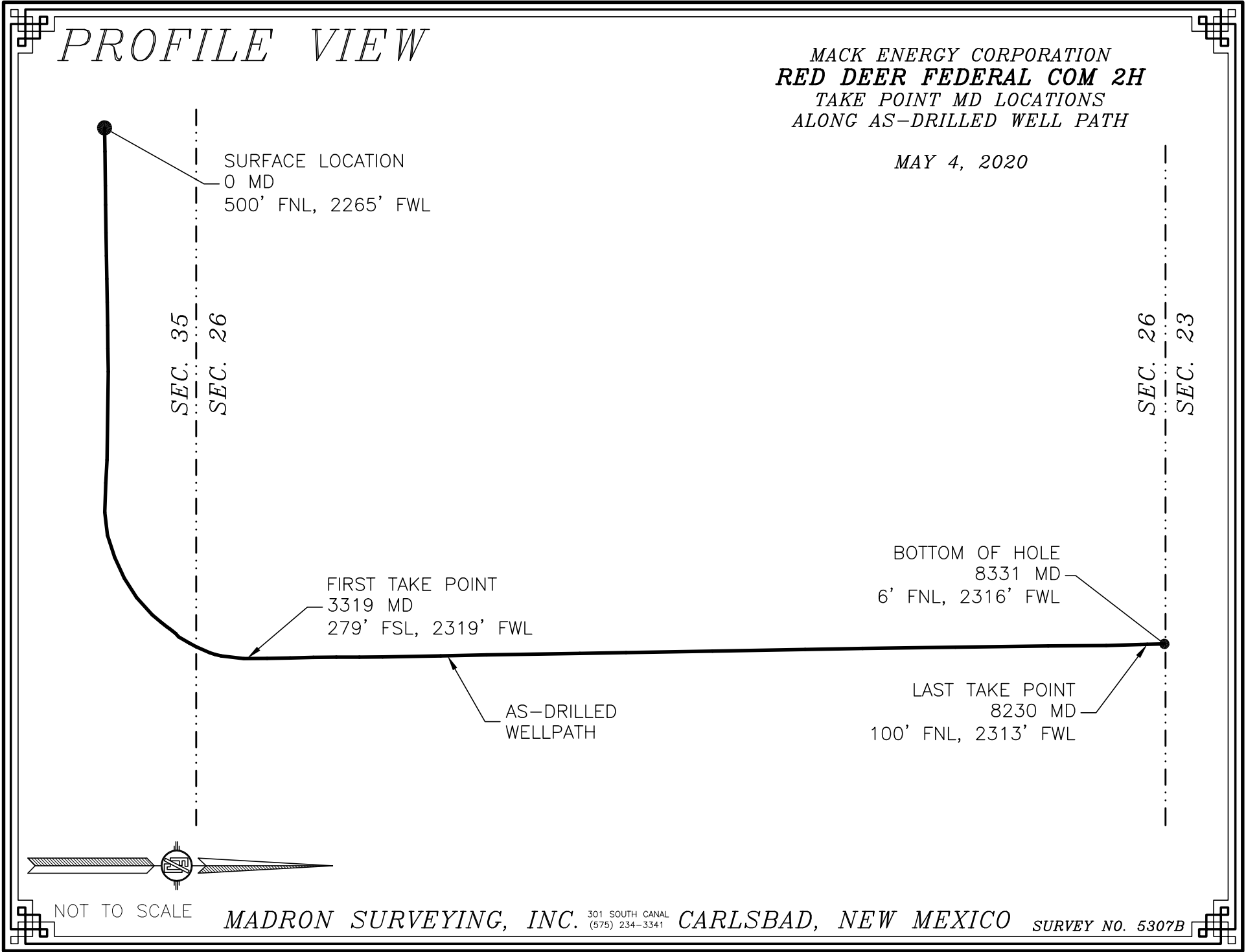
NOT TO SCALE

MACK ENERGY CORPORATION
RED DEER FEDERAL COM 2H
 TAKE POINT MD LOCATIONS
 ALONG AS-DRILLED WELL PATH

MAY 4, 2020

SURVEY NO. 5307B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341





Mack Energy

Chaves County

Sec 35-T15S-R28E

Red Deer Federal Com 2H

Wellbore #1

Survey: Survey #1

Standard Survey Report

09 March, 2020





Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 2H
Project:	Chaves County	TVD Reference:	3577.7+18 @ 3595.70usft
Site:	Sec 35-T15S-R28E	MD Reference:	3577.7+18 @ 3595.70usft
Well:	Red Deer Federal Com 2H	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 35-T15S-R28E			
Site Position:		Northing:	715,214.26 usft	Latitude:	32.965929
From:	Map	Easting:	610,416.50 usft	Longitude:	-104.108097
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Red Deer Federal Com 2H					
Well Position	+N/-S	0.00 usft	Northing:	719,738.11 usft	Latitude:	32.978355
	+E/-W	0.00 usft	Easting:	611,716.02 usft	Longitude:	-104.103827
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,577.70 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/24/20	6.97	60.63	48,047.79697098

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	0.44	

Survey Program	Date	03/09/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
130.00	8,331.00	Survey #1 (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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
130.00	0.80	318.00	130.00	0.67	-0.61	0.67	0.62	0.62	0.00	
1st MWD Survey										
317.00	0.80	343.00	316.98	2.89	-1.86	2.88	0.19	0.00	13.37	
420.00	0.70	348.00	419.97	4.20	-2.20	4.18	0.12	-0.10	4.85	
509.00	0.90	343.40	508.96	5.40	-2.52	5.38	0.24	0.22	-5.17	
573.00	1.10	337.70	572.95	6.45	-2.89	6.43	0.35	0.31	-8.91	
636.00	1.10	355.00	635.94	7.61	-3.18	7.59	0.53	0.00	27.46	
699.00	1.00	349.50	698.93	8.75	-3.33	8.73	0.23	-0.16	-8.73	
762.00	1.00	339.40	761.92	9.81	-3.62	9.78	0.28	0.00	-16.03	
825.00	1.10	336.30	824.91	10.88	-4.06	10.84	0.18	0.16	-4.92	



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 2H
Project:	Chaves County	TVD Reference:	3577.7+18 @ 3595.70usft
Site:	Sec 35-T15S-R28E	MD Reference:	3577.7+18 @ 3595.70usft
Well:	Red Deer Federal Com 2H	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)
888.00	1.10	338.10	887.90	11.99	-4.53	11.96	0.05	0.00	2.86
952.00	1.10	336.30	951.89	13.12	-5.00	13.08	0.05	0.00	-2.81
1,015.00	1.20	326.00	1,014.87	14.22	-5.61	14.18	0.36	0.16	-16.35
1,078.00	1.10	320.00	1,077.86	15.23	-6.37	15.19	0.25	-0.16	-9.52
1,141.00	1.10	326.40	1,140.85	16.20	-7.10	16.15	0.19	0.00	10.16
1,205.00	1.10	330.20	1,204.84	17.25	-7.74	17.19	0.11	0.00	5.94
1,268.00	1.10	327.40	1,267.83	18.28	-8.37	18.22	0.09	0.00	-4.44
1,331.00	1.10	328.90	1,330.81	19.31	-9.01	19.24	0.05	0.00	2.38
1,394.00	1.10	310.90	1,393.80	20.22	-9.77	20.15	0.55	0.00	-28.57
1,429.00	1.10	309.40	1,428.80	20.65	-10.29	20.58	0.08	0.00	-4.29
1,497.00	1.00	305.20	1,496.78	21.41	-11.28	21.32	0.19	-0.15	-6.18
1,624.00	2.90	237.80	1,623.72	20.34	-14.90	20.22	2.11	1.50	-53.07
1,688.00	2.70	236.10	1,687.64	18.63	-17.52	18.50	0.34	-0.31	-2.66
1,814.00	3.90	192.70	1,813.45	12.80	-20.93	12.64	2.13	0.95	-34.44
1,877.00	3.40	195.10	1,876.32	8.90	-21.89	8.74	0.83	-0.79	3.81
1,940.00	2.90	192.50	1,939.22	5.54	-22.72	5.37	0.83	-0.79	-4.13
2,004.00	2.70	194.20	2,003.15	2.50	-23.44	2.32	0.34	-0.31	2.66
2,100.00	0.10	0.50	2,099.11	0.39	-23.99	0.21	2.91	-2.71	173.23
2,164.00	6.70	19.50	2,162.97	3.97	-22.74	3.80	10.32	10.31	29.69
2,227.00	13.60	13.20	2,224.94	14.66	-19.82	14.51	11.08	10.95	-10.00
2,290.00	18.80	12.60	2,285.42	31.79	-15.91	31.67	8.26	8.25	-0.95
2,354.00	22.60	16.40	2,345.28	53.66	-10.19	53.58	6.29	5.94	5.94
2,417.00	25.50	14.00	2,402.81	78.44	-3.49	78.41	4.86	4.60	-3.81
2,480.00	28.30	6.90	2,459.00	106.44	1.59	106.44	6.76	4.44	-11.27
2,543.00	33.00	7.80	2,513.18	138.28	5.71	138.32	7.50	7.46	1.43
2,607.00	37.10	4.80	2,565.57	174.80	9.69	174.87	6.95	6.41	-4.69
2,670.00	42.50	1.10	2,613.96	215.04	11.69	215.13	9.36	8.57	-5.87
2,733.00	47.00	2.10	2,658.69	259.37	12.95	259.46	7.23	7.14	1.59
2,787.00	52.00	4.30	2,693.75	300.35	15.27	300.45	9.76	9.26	4.07
2,797.00	52.20	4.40	2,699.90	308.21	15.87	308.33	2.15	2.00	1.00
2,807.00	52.50	4.60	2,706.00	316.11	16.49	316.22	3.39	3.00	2.00
2,817.00	52.60	4.60	2,712.09	324.02	17.12	324.14	1.00	1.00	0.00
2,827.00	52.60	4.60	2,718.16	331.94	17.76	332.06	0.00	0.00	0.00
2,837.00	52.70	4.50	2,724.23	339.86	18.39	339.99	1.28	1.00	-1.00
2,847.00	52.70	4.50	2,730.29	347.79	19.02	347.93	0.00	0.00	0.00
2,857.00	52.70	4.40	2,736.35	355.72	19.63	355.86	0.80	0.00	-1.00
2,867.00	52.70	4.60	2,742.41	363.65	20.26	363.80	1.59	0.00	2.00
2,877.00	52.80	4.60	2,748.46	371.59	20.90	371.74	1.00	1.00	0.00
2,887.00	52.80	4.50	2,754.50	379.53	21.53	379.68	0.80	0.00	-1.00
2,897.00	52.90	4.60	2,760.54	387.47	22.16	387.63	1.28	1.00	1.00
2,907.00	52.90	4.60	2,766.58	395.42	22.80	395.59	0.00	0.00	0.00
2,917.00	52.90	4.40	2,772.61	403.38	23.43	403.54	1.60	0.00	-2.00
2,927.00	53.20	4.70	2,778.62	411.34	24.06	411.51	3.84	3.00	3.00



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 2H
Project:	Chaves County	TVD Reference:	3577.7+18 @ 3595.70usft
Site:	Sec 35-T15S-R28E	MD Reference:	3577.7+18 @ 3595.70usft
Well:	Red Deer Federal Com 2H	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)	
2,937.00	54.10	4.70	2,784.55	419.37	24.72	419.55	9.00	9.00	0.00	
2,986.00	58.50	5.20	2,811.73	459.97	28.24	460.17	9.02	8.98	1.02	
3,031.00	62.79	4.84	2,833.78	499.03	31.67	499.26	9.55	9.52	-0.81	
Cross Section Line 3031 MD/2833.78 TVD 499.03 N 31.67 E N: 720237.1 E: 611747.6										
3,049.00	64.50	4.70	2,841.77	515.11	33.01	515.34	9.55	9.52	-0.76	
3,113.00	70.90	3.90	2,866.05	574.12	37.44	574.39	10.07	10.00	-1.25	
3,176.00	78.10	4.00	2,882.87	634.65	41.62	634.95	11.43	11.43	0.16	
3,239.00	82.30	3.30	2,893.59	696.59	45.57	696.92	6.76	6.67	-1.11	
3,302.00	89.90	0.20	2,897.88	759.36	47.48	759.70	13.02	12.06	-4.92	
3,365.00	90.50	359.50	2,897.66	822.36	47.31	822.69	1.46	0.95	-1.11	
3,429.00	90.80	359.50	2,896.93	886.35	46.75	886.68	0.47	0.47	0.00	
3,492.00	91.30	0.10	2,895.78	949.34	46.53	949.67	1.24	0.79	0.95	
3,555.00	91.70	0.50	2,894.13	1,012.32	46.86	1,012.64	0.90	0.63	0.63	
3,619.00	91.60	359.60	2,892.28	1,076.29	46.92	1,076.62	1.41	-0.16	-1.41	
3,682.00	91.30	358.90	2,890.69	1,139.26	46.09	1,139.58	1.21	-0.48	-1.11	
3,745.00	90.40	359.00	2,889.75	1,202.25	44.94	1,202.55	1.44	-1.43	0.16	
3,808.00	89.50	359.10	2,889.81	1,265.24	43.90	1,265.53	1.44	-1.43	0.16	
3,871.00	89.80	358.70	2,890.19	1,328.22	42.69	1,328.51	0.79	0.48	-0.63	
3,933.00	90.20	359.10	2,890.19	1,390.21	41.50	1,390.49	0.91	0.65	0.65	
3,997.00	90.60	358.90	2,889.75	1,454.20	40.38	1,454.47	0.70	0.62	-0.31	
4,060.00	91.10	359.40	2,888.81	1,517.19	39.44	1,517.44	1.12	0.79	0.79	
4,123.00	91.70	359.70	2,887.27	1,580.16	38.95	1,580.42	1.06	0.95	0.48	
4,250.00	90.20	359.70	2,885.17	1,707.14	38.28	1,707.38	1.18	-1.18	0.00	
4,377.00	91.10	0.20	2,883.73	1,834.13	38.17	1,834.37	0.81	0.71	0.39	
4,504.00	91.90	0.60	2,880.40	1,961.08	39.06	1,961.32	0.70	0.63	0.31	
4,630.00	90.20	0.90	2,878.09	2,087.05	40.71	2,087.30	1.37	-1.35	0.24	
4,757.00	90.70	1.10	2,877.10	2,214.02	42.93	2,214.29	0.42	0.39	0.16	
4,884.00	91.00	1.10	2,875.21	2,340.99	45.36	2,341.26	0.24	0.24	0.00	
5,010.00	91.40	1.20	2,872.57	2,466.93	47.89	2,467.23	0.33	0.32	0.08	
5,137.00	90.90	0.10	2,870.02	2,593.90	49.33	2,594.20	0.95	-0.39	-0.87	
5,200.00	91.30	0.10	2,868.82	2,656.88	49.44	2,657.18	0.63	0.63	0.00	
5,327.00	91.00	358.90	2,866.27	2,783.85	48.33	2,784.14	0.97	-0.24	-0.94	
5,390.00	91.30	358.10	2,865.00	2,846.82	46.68	2,847.09	1.36	0.48	-1.27	
5,517.00	89.60	358.50	2,864.00	2,973.75	42.92	2,973.99	1.38	-1.34	0.31	
5,609.00	90.10	358.80	2,864.25	3,065.73	40.75	3,065.95	0.63	0.54	0.33	
5,735.00	91.50	359.30	2,862.49	3,191.69	38.66	3,191.89	1.18	1.11	0.40	
5,862.00	92.80	359.50	2,857.72	3,318.59	37.33	3,318.78	1.04	1.02	0.16	
5,988.00	91.60	359.60	2,852.89	3,444.49	36.34	3,444.67	0.96	-0.95	0.08	
6,115.00	91.20	0.70	2,849.78	3,571.45	36.68	3,571.63	0.92	-0.31	0.87	
6,241.00	89.90	0.20	2,848.57	3,697.44	37.67	3,697.62	1.11	-1.03	-0.40	
6,368.00	90.10	1.30	2,848.57	3,824.43	39.33	3,824.62	0.88	0.16	0.87	
6,494.00	91.00	1.60	2,847.36	3,950.38	42.52	3,950.59	0.75	0.71	0.24	
6,557.00	91.50	1.70	2,845.99	4,013.34	44.33	4,013.56	0.81	0.79	0.16	



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 2H
Project:	Chaves County	TVD Reference:	3577.7+18 @ 3595.70usft
Site:	Sec 35-T15S-R28E	MD Reference:	3577.7+18 @ 3595.70usft
Well:	Red Deer Federal Com 2H	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)	
6,683.00	91.30	0.90	2,842.91	4,139.27	47.19	4,139.51	0.65	-0.16	-0.63	
6,810.00	91.00	0.00	2,840.36	4,266.24	48.18	4,266.48	0.75	-0.24	-0.71	
6,937.00	89.90	359.40	2,839.36	4,393.23	47.52	4,393.46	0.99	-0.87	-0.47	
7,063.00	90.70	359.50	2,838.70	4,519.22	46.31	4,519.44	0.64	0.63	0.08	
7,190.00	91.60	359.90	2,836.16	4,646.19	45.64	4,646.40	0.78	0.71	0.31	
7,316.00	90.50	359.40	2,833.85	4,772.17	44.88	4,772.37	0.96	-0.87	-0.40	
7,443.00	91.80	359.90	2,831.30	4,899.13	44.10	4,899.33	1.10	1.02	0.39	
7,570.00	90.40	359.60	2,828.86	5,026.11	43.55	5,026.29	1.13	-1.10	-0.24	
7,696.00	89.10	359.60	2,829.41	5,152.10	42.67	5,152.28	1.03	-1.03	0.00	
7,823.00	90.40	0.00	2,829.96	5,279.09	42.22	5,279.26	1.07	1.02	0.31	
7,949.00	91.40	0.60	2,827.98	5,405.08	42.88	5,405.25	0.93	0.79	0.48	
8,013.00	91.60	0.40	2,826.31	5,469.05	43.44	5,469.22	0.44	0.31	-0.31	
8,076.00	92.00	1.20	2,824.33	5,532.01	44.32	5,532.19	1.42	0.63	1.27	
8,202.00	91.10	0.30	2,820.92	5,657.95	45.97	5,658.14	1.01	-0.71	-0.71	
8,276.00	91.50	0.90	2,819.24	5,731.93	46.74	5,732.12	0.97	0.54	0.81	
Last MWD Survey 8276 MD/2819.24 TVD 5731.93 N 46.74 E N: 725470.0 E: 611762.7										
8,331.00	91.50	0.90	2,817.80	5,786.90	47.61	5,787.10	0.00	0.00	0.00	
PTB 8331 MD/2817.80 TVD 5786.90 N 47.61 E N: 725525.0 E: 611763.6										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
130.00	130.00	0.67	-0.61	1st MWD Survey	
3,031.00	2,833.78	499.03	31.67	Cross Section Line 3031 MD/2833.78 TVD 499.03 N 31.67 E N: 720237.1 E: 611762.7	
8,276.00	2,819.24	5,731.93	46.74	Last MWD Survey 8276 MD/2819.24 TVD 5731.93 N 46.74 E N: 725470.0 E: 611762.7	
8,331.00	2,817.80	5,786.90	47.61	PTB 8331 MD/2817.80 TVD 5786.90 N 47.61 E N: 725525.0 E: 611763.6	

Checked By: _____	Approved By: _____	Date: _____
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Well Name: RED DEER FEDERAL COM	Well Location: T15S / R28E / SEC 35 / NENW / 32.9783548 / -104.103827	County or Parish/State: CHAVES / NM
Well Number: 2H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM132939	Unit or CA Name:	Unit or CA Number: NMNM142019
US Well Number: 300056431700S1	Well Status: Producing Oil Well	Operator: MACK ENERGY CORPORATION

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Other
Date Sundry Submitted: 04/09/2021	Time Sundry Submitted: 11:08
Date Operation Actually Began: 02/23/2021	

Actual Procedure: 2/23-3/22/2021 Perforated 3319-8230' w/ .40, 612 holes. Frac w/ 1689bbls 15% Acid, 7193bbls SW, 93481bbls 20# X-Link, 389,197# 100 Mesh, 677,586# 30/50 AZ, 3,195,777# 20/40 AZ WI, 552,541# 20/40 RC. RIH w/ 18' KB 64 jts 3 1/2" J-55 9.2# tbg 3 1/2" x 4' rotor sub (2,081.58') 123M900 stator (2,114.44') 1 jt 2 7/8" J-55 6.5# tbg 7" x 2 7/8" progressive TAC 60K shear (2,150.99') 2 7/8" x 4' J-55 lift sub Evolution gas separator (2,157.88') 2 7/8" x 4' J-55 lift sub 2 7/8" x 4' J-55 perf sub 2 7/8" x 4' J-55 perf sub 2 7/8" BP (2,170.49').

Well Name: RED DEER FEDERAL COM	Well Location: T15S / R28E / SEC 35 / NENW / 32.9783548 / -104.103827	County or Parish/State: CHAVES / NM
Well Number: 2H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM132939	Unit or CA Name:	Unit or CA Number: NMNM142019
US Well Number: 300056431700S1	Well Status: Producing Oil Well	Operator: MACK ENERGY CORPORATION

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: DEANA WEAVER	Signed on: APR 09, 2021 11:08 AM
Name: MACK ENERGY CORPORATION	
Title: Production Clerk	
Street Address: 11344 Lovington HWY	
City: Artesia	State: NM
Phone: (575) 748-1288	
Email address: dweaver@mec.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: JENNIFER SANCHEZ	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5756270237	BLM POC Email Address: j1sanchez@blm.gov
Disposition: Accepted	Disposition Date: 04/09/2021
Signature: Jennifer Sanchez	



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print Report

06/03/2021

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Section 1 - General

Well Completion Report Id: 59769

Submission Date: N/A until DB Work

BLM Office: Roswell Field Office

User: DEANA WEAVER

Title: Production Clerk

Federal/Indian: FEDERAL

Lease Number: NMNM132939

Lease Acres:

Agreement in place?: NO

Federal or Indian Agreement:

Agreement Number:

Agreement Name:

Keep this Well Completion Report confidential?: YES

APD Operator: MACK ENERGY CORPORATION

Section 2 - Well Information

Field/Pool or Exploratory: Field/Pool

Pool Name: SAN ANDRES

Field Name: ROUND TANK

Well Type: OIL WELL

Spud Date: 02-26-2020

Date Total Measured Depth Reached: 03-09-2020

Drill & Abandon or Ready To Produce: READY TO PRODUCE

Well Class: HORIZONTAL

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
QUÁTERNARY	ALLUVIUM		3577	0	0	NONE	
YATES	ANHYDRITE, SILTSTONE		3060	517	517	NATURAL GAS, OIL	

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
SEVEN RIVERS	ANHYDRITE, SILTSTONE		2831	746	746	NATURAL GAS, OIL	
QUEEN	ANHYDRITE, SILTSTONE		2341	1236	1236	NATURAL GAS, OIL	
GRAYBURG	ANHYDRITE, DOLOMITE, SILTSTONE		1942	1635	1635	NATURAL GAS, OIL	
SAN ANDRES	ANHYDRITE, DOLOMITE		1621	1956	1956	NATURAL GAS, OIL	

Completion and Completed Intervals

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	X1	1	NMNM142019	NMNM132939	NEW		POW	08-31-2018	03-28-2021	SAN ANDRES	3319	8230	Y	.4	612	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totie Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	X1	1	Y	FRAC	102363	4815101	2/23-3/22/2021 Perforated 3319-8230' w/ .40, 612

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbbls)	Total Proppant (lbs)	Treatment Remarks
							holes. Frac w/ 1689bbbls 15% Acid, 7193bbbls SW, 93481bbbls 20# X-Link, 389,197# 100 Mesh, 677,586# 30/50 AZ, 3,195,777# 20/40 AZ WI, 552,541# 20/40 RC. RIH w/ 18' KB 64 jts 3 1/2" J-55 9.2# tbgs 3 1/2" x 4' rotor sub (2,081.58') 123M900 stator (2,114.44') 1 jt 2 7/8" J-55 6.5# tbgs 7" x 2 7/8" progressive TAC 60K shear (2,150.99') 2 7/8" x 4' J-55 lift sub Evolution gas separator (2,157.88') 2 7/8" x 4' J-55 lift sub 2 7/8" x 4' J-55 perf sub 2 7/8" x 4' J-55 perf sub 2 7/8" BP

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	X1	1	37	.6	ELECTRIC PUMPING UNIT		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	X1	1		24	54	23	1403	425				

Well Location

Survey Type: RECTANGULAR

Survey Number: 5307A

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lo/Tract
SHL	NEW MEXICO	CHAVES	32.9783548	-104.103827	3577	FEE	FEE				500	FNL	2265	FWL	15S	28E	35	NENW

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	CHAVES	32.9783548	-104.103827	1426	FEE	FEE				500	FNL	2265	FWL	15S	28E	35	NENW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	CHAVES	32.9800039	-104.1038168	680	FEE	FEE				279	FSL	2319	FWL	15S	28E	26	SESW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	CHAVES	32.9940035	-104.1037284	757	FEDERAL	NMNM132939				100	FNL	2313	FWL	15S	28E	26	NENW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	CHAVES	32.9942646	-104.1037265	760	FEDERAL	NMNM132939				6	FNL	2316	FWL	15S	28E	26	NENW

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
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Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	460	13.375	48	J-55		ST&C		
00	INTERMEDIATE	12.25	0	1487	9.625	36	J-55		ST&C		
00	PRODUCT ION	8.75	0	3000	7.0	26	HCP-110		LT&C		
00	PRODUCT ION	8.75	3000	8331	5.5	17	HCP-110		BUTT		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbls)
00	SURFACE	460	RFC + 12% PF53 + 2% PF1 + 5pps PF42 + .125pps PF 29	320	1.61	0	Class C + 1% PF1	100	1.34	0	115.6
00	INTERMEDIATE	1487	Class C + 1% PF1	285	1.34	0	Class C 4%	200		0	68
00	PRODUCT ION	3000	Class C 4% PF20+ 4 pps PF45 + 125pps PF29	275	1.84	0					90.1
00	PRODUCT ION	8331	PVL + 1.3 (BWOW) PF44 + 5% PF 174 + .5% PF 606 + .	1105	1.48	3000					291.3

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbls)
			1% PF 153 +.4pps PF44								

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	3.5		2170	2114	9	J-55			

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report Completed?	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator Name MACK ENERGY CORPORATION	Well Name RED DEER FEDERAL COM	Well Number 2H	US Well Number 3000564317
SHL NENW Sec 35 15S 28E	County CHAVES	State NM	Lease Number(s) NMNM132939
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM142019
Allottee/Tribe Name	Well Pad Name null	Well Pad Number null	ID 10400030214

Operator Certification

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: MACK ENERGY CORPORATION

Signed By: DEANA WEAVER

Title: Production Clerk

Signed on: 04/09/2021

Street Address: 11344 Lovington HWY

City: Artesia

State: NM

Zip: 88211

Phone: (575)748-1288

Email address: dweaver@mec.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

Red_Deer_Federal_Com_2H_Final_5_In_MD_20210409100039.pdf

Red_Deer_Federal_Com__20210409100126

RED_DEER_FEDERAL_COM_2H_AS_DRILLED_20210409100150.pdf

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 30482

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 30482
	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
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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 30482

COMMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 30482
	Action Type: [C-104] Completion Packet (C-104C)

COMMENTS

Created By	Comment	Comment Date
ahvermersch	Admin review completed; needs geo review; Operator out of compliance with rule 19.15.5.9; email sent for status on inactive wells prior to C-104 approval	6/7/2021

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

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos 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 30482

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 30482
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ahvermersch	None	7/12/2021