

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 PO Box 960 Artesia, NM 88211-0960		² OGRID Number 013837	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 005-64383	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 4H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	23	15S	28E		810	South	670	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
N	26	15S	28E		3	South	1636	West	Chaves
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/18/2023		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 PO Box 1600 Artesia, NM 88211-1600	O
036788	DCP Midstream 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

²¹ Spud Date 8/8/2023	²² Ready Date 10/18/2023	²³ TD 8840'/TVD 2993'	²⁴ PBDT 8792'/TVD 2993'	²⁵ Perforations 3679'-8750' TVD 2961'-2993'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17 1/2"		13 3/8"		250'	340 sx
12 1/4"		9 5/8"		1199'	420 sx
8 3/4"		5 1/2' & 7"		8840'	2450 sx

V. Well Test Data

³¹ Date New Oil 10/26/2023	³² Gas Delivery Date 10/24/2023	³³ Test Date 10/24/2023	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size 50	³⁸ Oil	³⁹ Water 950	⁴⁰ Gas 38		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>5/22/2024</i>		
Date: 10/31/2023		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 30-005-64383		² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 322440	⁵ Property Name RED DEER FEDERAL COM		⁶ Well Number 4H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION		⁹ Elevation 3618.9

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	15 S	28 E		810	SOUTH	670	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
N	26	15 S	28 E		3	SOUTH	1636	WEST	CHAVES

¹² Dedicated Acres +20 160	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.

RED DEER FEDERAL COM 4H ELEV. = 3618.9' LAT. = 32.9965983°N (NAD83) LONG. = 104.1089886°W NMSP EAST (FT) N = 726372.17 E = 609446.16 KICK OFF POINT 679' FSL, 982' FWL LAT. = 32.9962187°N LONG. = 104.1079703°W N = 726234.73 E = 610431.55 FIRST TAKE POINT 130' FSL, 1648' FWL LAT. = 32.9939590°N LONG. = 104.1057971°W N = 725414.04 E = 611099.61 PPP 2 2624' FSL, 1645' FWL LAT. = 32.9871023°N LONG. = 104.1057318°W N = 722919.42 E = 611125.08 LAST TAKE POINT 102' FSL, 1639' FWL LAT. = 32.9800555°N LONG. = 104.1058853°W N = 720355.50 E = 611083.49 BOTTOM OF HOLE LAT. = 32.9797638°N LONG. = 104.1059014°W NMSP EAST (FT) N = 720256.85 E = 611078.77		SECTION CORNER LAT. = 32.9944104°N LONG. = 104.111759°W NMSP EAST (FT) N = 725574.73 E = 609450.13 W/4 CORNER SEC. 26 LAT. = 32.9871538°N LONG. = 104.1110984°W NMSP EAST (FT) N = 722934.64 E = 609450.07 SW CORNER SEC. 26 LAT. = 32.9798966°N LONG. = 104.1112325°W NMSP EAST (FT) N = 720294.20 E = 609443.93		N/4 CORNER SEC. 23 LAT. = 33.0088472°N LONG. = 104.1023336°W NMSP EAST (FT) N = 730832.92 E = 612088.29 N/4 CORNER SEC. 23 LAT. = 33.0088472°N LONG. = 104.1023336°W NMSP EAST (FT) N = 730832.92 E = 612088.29 NE 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 SECTION CORNER LAT. = 32.9942570°N LONG. = 104.0938629°W NMSP EAST (FT) N = 725530.56 E = 614752.22 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. = 104.0936384°W NMSP EAST (FT) N = 720240.47 E = 614777.92		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 state. Signature: <i>[Signature]</i> Date: 10/31/2023 Printed Name: Delilah Flores E-mail Address: delilah@mec.com	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 20, 2023 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 12797 Professional Surveyor No. 9442							

Intent ☐ As Drilled ☒

API #			
Operator Name: MACK ENERGY CORPORATION		Property Name: RED DEER FEDERAL COM	Well Number 4H

Kick Off Point (KOP)

UL M	Section 23	Township 15S	Range 28E	Lot	Feet 679	From N/S SOUTH	Feet 982	From E/W WEST	County CHAVES
Latitude 32.9962187					Longitude 104.1079703			NAD 83	

First Take Point (FTP)

UL C	Section 26	Township 15S	Range 28E	Lot	Feet 130	From N/S NORTH	Feet 1648	From E/W WEST	County CHAVES
Latitude 32.9939590					Longitude 104.1057971			NAD 83	

Last Take Point (LTP)

UL N	Section 26	Township 15S	Range 28E	Lot	Feet 102	From N/S SOUTH	Feet 1639	From E/W WEST	County CHAVES
Latitude 32.9800555					Longitude 104.1058853			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

Mack Energy

Chaves County

Sec 23 T15S R28E

Red Deer Federal Com 4H

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 August, 2023



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 4H
Project:	Chaves County	TVD Reference:	3618.9+17.6 @ 3636.50usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.9+17.6 @ 3636.50usft
Well:	Red Deer Federal Com 4H	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	Red Deer Federal Com 4H					
Well Position	+N/-S	0.00 usft	Northing:	726,372.17 usft	Latitude:	32.996598
	+E/-W	0.00 usft	Easting:	610,119.03 usft	Longitude:	-104.108989
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,618.90 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/07/23	6.60	60.60	47,700.40113017

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	170.95	

Survey Program	Date	08/17/23			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
69.00	8,839.00	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
69.00	0.60	312.52	69.00	0.24	-0.27	-0.28	0.87	0.87	0.00
1st MWD Survey									
201.00	0.60	257.52	200.99	0.56	-1.45	-0.78	0.42	0.00	-41.67
282.00	0.90	300.30	281.99	0.79	-2.41	-1.16	0.76	0.37	52.81
374.00	0.80	155.50	373.98	0.57	-2.77	-1.00	1.76	-0.11	-157.39
466.00	3.80	140.80	465.90	-2.38	-0.58	2.26	3.30	3.26	-15.98
558.00	7.20	132.30	557.46	-8.62	5.62	9.40	3.79	3.70	-9.24
652.00	10.10	122.80	650.39	-17.05	16.90	19.50	3.43	3.09	-10.11
747.00	11.70	114.80	743.68	-25.61	32.65	30.42	2.31	1.68	-8.42
842.00	11.40	114.20	836.75	-33.50	49.96	40.93	0.34	-0.32	-0.63

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 4H
Project:	Chaves County	TVD Reference:	3618.9+17.6 @ 3636.50usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.9+17.6 @ 3636.50usft
Well:	Red Deer Federal Com 4H	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)
936.00	11.10	114.60	928.95	-41.07	66.66	51.04	0.33	-0.32	0.43
1,030.00	11.70	111.90	1,021.09	-48.39	83.73	60.96	0.85	0.64	-2.87
1,125.00	12.10	108.80	1,114.05	-55.19	102.09	70.56	0.79	0.42	-3.26
1,297.00	12.80	109.10	1,282.01	-67.24	137.16	87.97	0.41	0.41	0.17
1,391.00	13.50	107.60	1,373.54	-73.96	157.46	97.80	0.83	0.74	-1.60
1,486.00	12.10	109.60	1,466.18	-80.66	177.41	107.55	1.55	-1.47	2.11
1,581.00	11.80	111.40	1,559.12	-87.54	195.84	117.25	0.50	-0.32	1.89
1,676.00	12.60	111.30	1,651.97	-94.85	214.53	127.40	0.84	0.84	-0.11
1,767.00	12.40	113.00	1,740.82	-102.27	232.78	137.60	0.46	-0.22	1.87
1,860.00	12.00	114.00	1,831.72	-110.11	250.80	148.17	0.49	-0.43	1.08
1,951.00	11.80	115.60	1,920.76	-117.97	267.83	158.62	0.42	-0.22	1.76
2,043.00	11.40	115.80	2,010.88	-126.00	284.50	169.16	0.44	-0.43	0.22
2,135.00	13.10	110.60	2,100.79	-133.62	302.45	179.52	2.20	1.85	-5.65
2,182.00	13.60	111.00	2,146.52	-137.48	312.59	184.92	1.08	1.06	0.85
2,230.00	16.50	112.90	2,192.86	-142.15	324.14	191.35	6.13	6.04	3.96
2,277.00	19.60	114.50	2,237.55	-148.02	337.47	199.24	6.68	6.60	3.40
2,325.00	22.90	114.90	2,282.28	-155.29	353.27	208.91	6.88	6.87	0.83
2,372.00	26.20	114.80	2,325.02	-163.50	370.99	219.80	7.02	7.02	-0.21
2,420.00	27.90	115.40	2,367.77	-172.76	390.75	232.05	3.59	3.54	1.25
2,467.00	30.50	116.60	2,408.79	-182.82	411.36	245.23	5.67	5.53	2.55
2,514.00	33.20	118.20	2,448.71	-194.24	433.36	259.97	6.02	5.74	3.40
2,561.00	36.20	120.20	2,487.35	-207.31	456.71	276.54	6.83	6.38	4.26
2,609.00	40.40	121.70	2,525.01	-222.62	482.20	295.67	8.96	8.75	3.12
2,656.00	45.00	123.40	2,559.55	-239.78	509.05	316.84	10.09	9.79	3.62
2,704.00	49.00	124.10	2,592.28	-259.28	538.23	340.69	8.40	8.33	1.46
2,766.00	52.90	123.60	2,631.33	-286.09	578.21	373.45	6.32	6.29	-0.81
2,781.00	53.50	123.60	2,640.31	-292.74	588.22	381.59	4.00	4.00	0.00
2,811.00	54.20	123.70	2,658.01	-306.16	608.38	398.02	2.35	2.33	0.33
2,841.00	54.80	123.90	2,675.43	-319.75	628.68	414.63	2.07	2.00	0.67
2,871.00	55.40	124.00	2,692.60	-333.49	649.09	431.41	2.02	2.00	0.33
2,901.00	56.00	124.00	2,709.50	-347.35	669.63	448.32	2.00	2.00	0.00
2,931.00	56.40	124.00	2,726.19	-361.29	690.30	465.34	1.33	1.33	0.00
2,961.00	57.10	123.90	2,742.64	-375.30	711.11	482.45	2.35	2.33	-0.33
2,988.00	57.70	124.30	2,757.19	-388.05	729.95	498.01	2.55	2.22	1.48
3,000.00	58.00	125.30	2,763.57	-393.85	738.29	505.04	7.49	2.50	8.33
3,035.00	58.40	129.60	2,782.02	-411.93	761.89	526.61	10.50	1.14	12.29
3,082.00	60.70	135.50	2,805.85	-439.33	791.70	558.36	11.87	4.89	12.55
3,129.00	62.50	139.20	2,828.21	-469.74	819.70	592.79	7.91	3.83	7.87
3,177.00	64.70	142.60	2,849.56	-503.10	846.80	630.00	7.83	4.58	7.08
3,224.00	66.60	146.10	2,868.94	-537.89	871.74	668.28	7.90	4.04	7.45
3,271.00	68.70	150.10	2,886.82	-574.79	894.69	708.33	9.05	4.47	8.51
3,318.00	71.40	154.60	2,902.86	-613.92	915.17	750.19	10.68	5.74	9.57
3,366.00	73.80	158.20	2,917.22	-655.88	933.50	794.51	8.73	5.00	7.50

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 4H
Project:	Chaves County	TVD Reference:	3618.9+17.6 @ 3636.50usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.9+17.6 @ 3636.50usft
Well:	Red Deer Federal Com 4H	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)	
3,413.00	76.80	162.50	2,929.15	-698.69	948.77	839.18	10.91	6.38	9.15	
3,461.00	79.00	165.70	2,939.21	-743.82	961.62	885.77	7.97	4.58	6.67	
3,508.00	81.20	169.20	2,947.30	-789.00	971.67	931.97	8.70	4.68	7.45	
3,555.00	82.50	174.40	2,953.96	-835.03	978.30	978.48	11.30	2.77	11.06	
3,628.00	85.00	180.60	2,961.92	-907.49	981.46	1,050.53	9.11	3.42	8.49	
3,723.00	87.80	180.80	2,967.88	-1,002.28	980.30	1,143.96	2.95	2.95	0.21	
3,818.00	89.50	179.50	2,970.12	-1,097.25	980.05	1,237.71	2.25	1.79	-1.37	
3,912.00	90.20	178.90	2,970.37	-1,191.24	981.36	1,330.74	0.98	0.74	-0.64	
4,007.00	90.60	179.20	2,969.70	-1,286.23	982.94	1,424.79	0.53	0.42	0.32	
4,102.00	88.90	179.40	2,970.12	-1,381.21	984.10	1,518.77	1.80	-1.79	0.21	
4,196.00	89.70	179.60	2,971.27	-1,475.20	984.92	1,611.72	0.88	0.85	0.21	
4,291.00	90.40	179.70	2,971.18	-1,570.20	985.50	1,705.63	0.74	0.74	0.11	
4,385.00	89.00	179.40	2,971.68	-1,664.19	986.24	1,798.57	1.52	-1.49	-0.32	
4,480.00	89.20	179.30	2,973.17	-1,759.18	987.31	1,892.54	0.24	0.21	-0.11	
4,574.00	90.00	179.80	2,973.82	-1,853.17	988.05	1,985.48	1.00	0.85	0.53	
4,669.00	91.00	180.70	2,972.99	-1,948.16	987.64	2,079.23	1.42	1.05	0.95	
4,764.00	89.80	180.50	2,972.33	-2,043.15	986.64	2,172.88	1.28	-1.26	-0.21	
4,858.00	88.00	179.10	2,974.14	-2,137.13	986.97	2,265.74	2.43	-1.91	-1.49	
4,953.00	88.40	179.20	2,977.12	-2,232.07	988.38	2,359.72	0.43	0.42	0.11	
5,090.00	90.00	179.60	2,979.03	-2,369.05	989.81	2,495.22	1.20	1.17	0.29	
5,185.00	90.10	180.00	2,978.95	-2,464.05	990.14	2,589.09	0.43	0.11	0.42	
5,280.00	89.00	178.70	2,979.70	-2,559.03	991.22	2,683.06	1.79	-1.16	-1.37	
5,374.00	88.80	178.80	2,981.50	-2,652.99	993.27	2,776.18	0.24	-0.21	0.11	
5,469.00	89.20	179.10	2,983.16	-2,747.96	995.01	2,870.24	0.53	0.42	0.32	
5,564.00	89.70	179.00	2,984.07	-2,842.95	996.59	2,964.29	0.54	0.53	-0.11	
5,658.00	90.20	179.40	2,984.15	-2,936.94	997.90	3,057.31	0.68	0.53	0.43	
5,753.00	90.60	179.50	2,983.49	-3,031.93	998.81	3,151.27	0.43	0.42	0.11	
5,848.00	89.90	178.40	2,983.07	-3,126.91	1,000.55	3,245.34	1.37	-0.74	-1.16	
5,942.00	90.90	178.70	2,982.42	-3,220.88	1,002.93	3,338.51	1.11	1.06	0.32	
6,037.00	88.90	179.00	2,982.58	-3,315.85	1,004.84	3,432.61	2.13	-2.11	0.32	
6,131.00	88.60	179.40	2,984.64	-3,409.82	1,006.15	3,525.61	0.53	-0.32	0.43	
6,226.00	89.40	180.20	2,986.29	-3,504.80	1,006.48	3,619.47	1.19	0.84	0.84	
6,320.00	90.20	180.70	2,986.62	-3,598.80	1,005.74	3,712.18	1.00	0.85	0.53	
6,415.00	90.90	181.10	2,985.71	-3,693.78	1,004.25	3,805.74	0.85	0.74	0.42	
6,510.00	89.50	180.70	2,985.38	-3,788.77	1,002.76	3,899.31	1.53	-1.47	-0.42	
6,604.00	89.50	181.20	2,986.20	-3,882.75	1,001.20	3,991.88	0.53	0.00	0.53	
6,699.00	89.70	181.50	2,986.86	-3,977.72	998.96	4,085.32	0.38	0.21	0.32	
6,794.00	90.20	182.20	2,986.94	-4,072.67	995.90	4,178.60	0.91	0.53	0.74	
6,888.00	89.30	181.40	2,987.35	-4,166.62	992.94	4,270.92	1.28	-0.96	-0.85	
6,982.00	89.50	180.90	2,988.34	-4,260.60	991.06	4,363.43	0.57	0.21	-0.53	
7,077.00	89.60	181.70	2,989.08	-4,355.57	988.90	4,456.88	0.85	0.11	0.84	
7,172.00	89.30	180.20	2,990.00	-4,450.55	987.33	4,550.43	1.61	-0.32	-1.58	
7,266.00	89.60	180.00	2,990.90	-4,544.54	987.16	4,643.23	0.38	0.32	-0.21	

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 4H
Project:	Chaves County	TVD Reference:	3618.9+17.6 @ 3636.50usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.9+17.6 @ 3636.50usft
Well:	Red Deer Federal Com 4H	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)
7,361.00	90.00	180.30	2,991.23	-4,639.54	986.91	4,737.01	0.53	0.42	0.32
7,456.00	90.50	181.20	2,990.82	-4,734.53	985.67	4,830.62	1.08	0.53	0.95
7,551.00	89.70	180.20	2,990.65	-4,829.52	984.51	4,924.25	1.35	-0.84	-1.05
7,645.00	89.20	180.20	2,991.55	-4,923.52	984.18	5,017.03	0.53	-0.53	0.00
7,740.00	89.60	180.20	2,992.55	-5,018.51	983.85	5,110.79	0.42	0.42	0.00
7,834.00	89.90	180.40	2,992.96	-5,112.51	983.36	5,203.54	0.38	0.32	0.21
7,929.00	90.50	180.70	2,992.63	-5,207.50	982.45	5,297.21	0.71	0.63	0.32
8,024.00	91.60	180.70	2,990.89	-5,302.48	981.29	5,390.82	1.16	1.16	0.00
8,119.00	90.20	182.40	2,989.39	-5,397.43	978.72	5,484.18	2.32	-1.47	1.79
8,213.00	89.50	181.60	2,989.64	-5,491.37	975.44	5,576.44	1.13	-0.74	-0.85
8,308.00	89.00	180.70	2,990.88	-5,586.34	973.53	5,669.93	1.08	-0.53	-0.95
8,402.00	89.50	180.90	2,992.11	-5,680.32	972.22	5,762.53	0.57	0.53	0.21
8,497.00	89.90	181.30	2,992.61	-5,775.30	970.39	5,856.05	0.60	0.42	0.42
8,592.00	89.50	180.90	2,993.11	-5,870.28	968.57	5,949.56	0.60	-0.42	-0.42
8,686.00	89.50	181.30	2,993.93	-5,964.26	966.77	6,042.08	0.43	0.00	0.43
8,781.00	90.60	183.10	2,993.85	-6,059.19	963.12	6,135.25	2.22	1.16	1.89
Last MWD Survey 8781 MD/2993.85 TVD -6059.19 S 963.12 E N: 720312.9 E: 611082.1									
8,839.00	90.60	183.10	2,993.24	-6,117.10	959.98	6,191.95	0.00	0.00	0.00
PTB 8839 MD/2993.24 TVD -6117.10 S 959.98 E N: 720255.0 E: 611079.0									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
69.00	69.00	0.24	-0.27	1st MWD Survey
8,781.00	2,993.85	-6,059.19	963.12	Last MWD Survey 8781 MD/2993.85 TVD -6059.19 S 963.12 E N: 720312.9 E:
8,839.00	2,993.24	-6,117.10	959.98	PTB 8839 MD/2993.24 TVD -6117.10 S 959.98 E N: 720255.0 E: 611079.0

Checked By: _____

Approved By: _____

Date: _____

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.
Santa Fe, NM 87505

WELL API NO. 30-005-64383
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Red Deer Federal Com
8. Well Number 4H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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 Mack Energy Corporation	
3. Address of Operator PO Box 960 Artesia, NM 88211-0960	
4. Well Location Unit Letter <u>M</u> : <u>810</u> feet from the <u>South</u> line and <u>670</u> feet from the <u>West</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.)	

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 of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/1/2023 - 10/16/2023

Amend Perforated 3679' - 8750' w/ 648 holes. Frac w/ 39212.44 bbls 15% Acid, 8387.5 SW, 96532.8 xlink, 422,050 #100 Mesh, 735,450 30/50 White, 3,608,910 20/40 White, 349,280 20/40 Super LC. RIH w/ 87 jts of 3 1/2", J-55 @ 2900.21' Rotor Sub 102M 1200 Stator @2941.58'.

Production casing - WOC 12 hrs, tested csg to 1500# for 30 minutes, held ok.

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 Delilah Flores TITLE Regulatory Technician I DATE 10/31/2023

Type 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 Red Deer Federal Com		
								6. Well Number: 4H		
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 PO 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:	M	23	15S	28E		810	South	670	West	Chaves
BH:	N	26	15S	28E		3	South	1636	West	Chaves
13. Date Spudded 8/8/2023	14. Date T.D. Reached 8/17/2023		15. Date Rig Released 8/18/2023			16. Date Completed (Ready to Produce) 10/16/2023		17. Elevations (DF and RKB, RT, GR, etc.) 3618.9'		
18. Total Measured Depth of Well 8840'/ TVD 2993'			19. Plug Back Measured Depth 8792'/ TVD 2993'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3679' - 8750' 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
13 3/8"		48#		250'		17 1/2"		340 sx		
9 5/8"		36#		1199'		12 1/4"		420 sx		
5 1/2" & 7"		17# & 26#		8840'		8 3/4"		2450 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET		
						3 1/2"	2900'	2941'		
26. Perforation record (interval, size, and number) 3679' - 8750', .42, 648 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3679' - 8750'		39212.44 bbls 15% Acid, 8387.5 SW, 96532.8 xlink,		
								422,050 #100 Mesh, 735,450 30/50 White, 3,608,910 20/40		
								White, 349,280 20/40 Super LC		
28. PRODUCTION										
Date First Production 10/26/2023		Production Method (Flowing, gas lift, pumping - Size and type pump) Rotor Sub 102 M1200 Stator				Well Status (Prod. or Shut-in) Producing				
Date of Test 10/26/2023	Hours Tested 24 hr	Choke Size	Prod'n For Test Period	Oil - Bbl 50	Gas - MCF 38	Water - Bbl. 950	Gas - Oil Ratio 760			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 50	Gas - MCF 38	Water - Bbl. 950	Oil Gravity - API - (Corr.) 37.2				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By Jerry Sherrell			
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: 8/18/2023			
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		Title			Date		
E-mail Address delilah@mec.com			Delilah Flores		Regulatory Technician I			10/31/2023		

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 541'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 780'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1277'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1695'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 2007'	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

From	To	Thickness In Feet	Lithology

District I
1625 N. French Dr., Hobbs, NM 88240
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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 346397

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 346397
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 346397

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 346397
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	5/22/2024