

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 88210		² OGRID Number 013837
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 0 05-64323	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 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
D	35	15S	28E		810	North	1115	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
D	26	15S	28E		3	North	993	West	Chaves
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 5/18/2022	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 1/8/2022	²² Ready Date 4/21/2022	²³ TD 8614'	²⁴ PBDT 8566'	²⁵ Perforations 3429-8514'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	250'	340sx		
12 1/4"	9 5/8"	1203'	350sx		
8 3/4"	7" & 5 1/2"	8614'	1775sx		
	3 1/2" tubing	2920'			

V. Well Test Data

³¹ Date New Oil 5/18/2022	³² Gas Delivery Date 5/18/2022	³³ Test Date 5/18/2022	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 43	³⁹ Water 1794	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>Deana Weaver</i>			OIL CONSERVATION DIVISION		
Printed name: Deana Weaver			Approved by: John Garcia		
Title: Regulatory Technician II			Title: Engineer		
E-mail Address: dweaver@mec.com			Approval Date: 11/3/2022		
Date: 5/18/2022		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 30-005-64323		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 1H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION			⁹ Elevation 3587.3

¹⁰ Surface Location

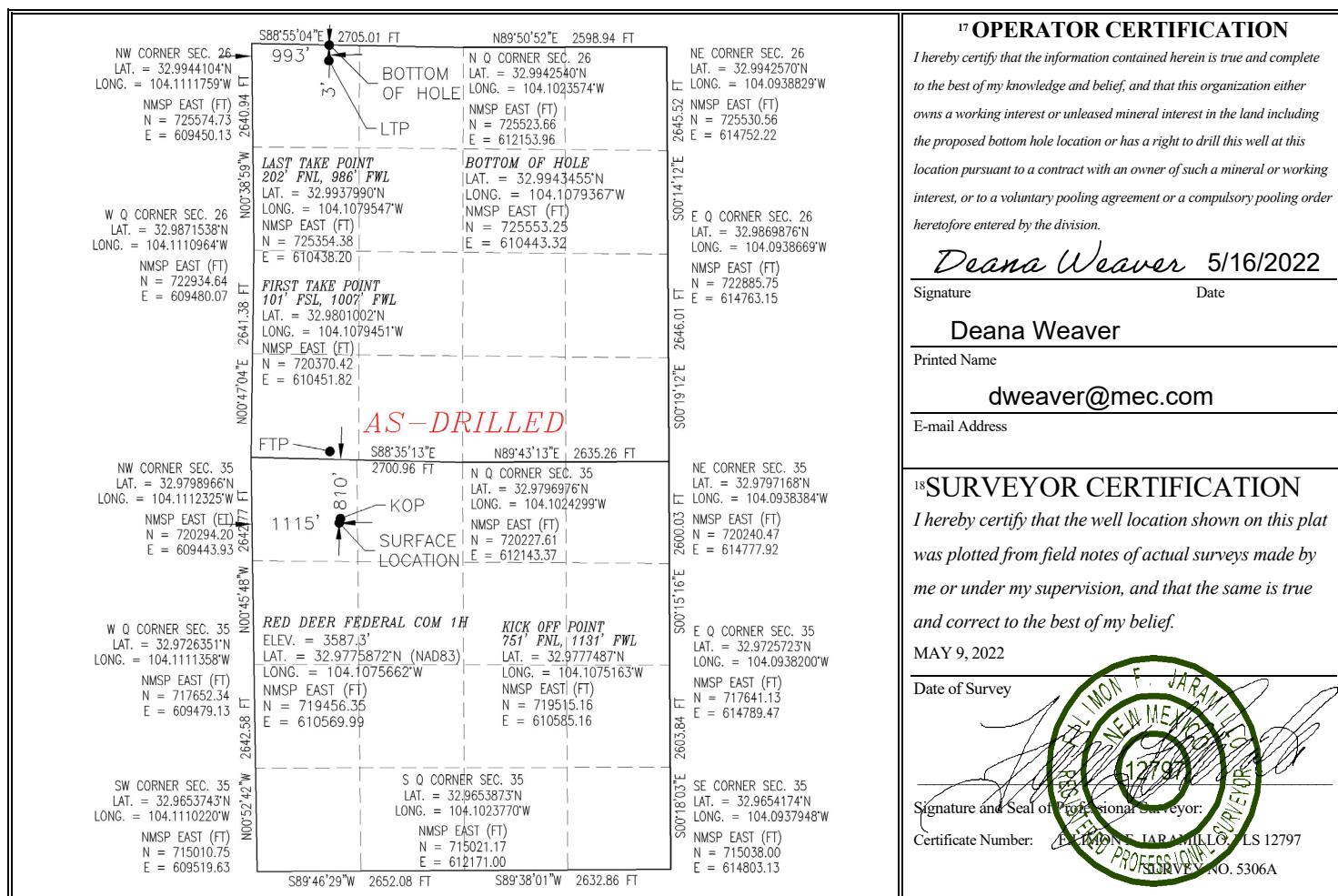
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	15 S	28 E		810	NORTH	1115	WEST	CHAVES

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
D	26	15 S	28 E		3	NORTH	993	WEST	CHAVES

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.



Intent ☐ As Drilled ☒

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: RED DEER FEDERAL COM	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	35	15S	28E		751	NORTH	1131	WEST	CHAVES
Latitude 32.9777487					Longitude 104.1075163				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	26	15S	28E		101	SOUTH	1007	WEST	CHAVES
Latitude 32.9801002					Longitude 104.1079451				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	26	15S	28E		202	NORTH	986	WEST	CHAVES
Latitude 32.9937990					Longitude 104.1079547				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 35-T15S-R28E

Red Deer Federal Com 1H

Wellbore #1

Survey: Survey #1

Standard Survey Report

27 January, 2022



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 1H
Project:	Chaves County	TVD Reference:	3587.3+18 @ 3605.30usft
Site:	Sec 35-T15S-R28E	MD Reference:	3587.3+18 @ 3605.30usft
Well:	Red Deer Federal Com 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 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 1H				
Well Position	+N/-S	0.00 usft	Northing:	719,456.35 usft	Latitude:	32.977587
	+E/-W	0.00 usft	Easting:	610,569.99 usft	Longitude:	-104.107566
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,587.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/11/22	6.77	60.60	47,852.20973272

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	358.78	

Survey Program	Date	01/27/22			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
130.00	8,614.00	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	1.10	7.81	129.99	1.24	0.17	1.23	0.85	0.85	0.00	
1st MWD Survey										
192.00	0.80	17.81	191.98	2.24	0.38	2.23	0.55	-0.48	16.13	
351.00	1.40	31.40	350.95	4.95	1.73	4.91	0.41	0.38	8.55	
528.00	1.50	44.70	527.90	8.44	4.49	8.35	0.20	0.06	7.51	
718.00	1.20	41.60	717.84	11.70	7.56	11.54	0.16	-0.16	-1.63	
908.00	0.90	44.00	907.81	14.26	9.92	14.05	0.16	-0.16	1.26	
1,098.00	1.00	47.90	1,097.79	16.45	12.18	16.18	0.06	0.05	2.05	
1,161.00	1.00	52.90	1,160.78	17.15	13.03	16.87	0.14	0.00	7.94	
1,252.00	1.00	53.00	1,251.76	18.10	14.30	17.80	0.00	0.00	0.11	

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 1H
Project:	Chaves County	TVD Reference:	3587.3+18 @ 3605.30usft
Site:	Sec 35-T15S-R28E	MD Reference:	3587.3+18 @ 3605.30usft
Well:	Red Deer Federal Com 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)
1,379.00	2.50	3.70	1,378.71	21.53	15.36	21.20	1.57	1.18	-38.82
1,505.00	3.00	358.60	1,504.56	27.57	15.46	27.24	0.44	0.40	-4.05
1,632.00	3.30	3.10	1,631.37	34.55	15.58	34.21	0.31	0.24	3.54
1,759.00	3.40	1.50	1,758.15	41.96	15.87	41.61	0.11	0.08	-1.26
1,885.00	3.40	356.10	1,883.93	49.42	15.72	49.08	0.25	0.00	-4.29
2,012.00	5.10	357.10	2,010.58	58.82	15.17	58.48	1.34	1.34	0.79
2,139.00	7.50	2.40	2,136.80	72.74	15.24	72.40	1.94	1.89	4.17
2,234.00	10.30	2.10	2,230.65	87.42	15.81	87.07	2.95	2.95	-0.32
2,265.00	12.00	3.40	2,261.06	93.41	16.10	93.05	5.54	5.48	4.19
2,297.00	13.60	3.00	2,292.27	100.49	16.49	100.12	5.01	5.00	-1.25
2,328.00	15.30	1.80	2,322.28	108.22	16.81	107.84	5.57	5.48	-3.87
2,360.00	17.20	0.20	2,353.00	117.17	16.96	116.78	6.10	5.94	-5.00
2,391.00	18.70	357.10	2,382.50	126.72	16.73	126.33	5.74	4.84	-10.00
2,423.00	20.70	354.20	2,412.62	137.47	15.90	137.10	6.95	6.25	-9.06
2,454.00	22.80	353.10	2,441.41	148.88	14.62	148.54	6.90	6.77	-3.55
2,486.00	25.10	350.90	2,470.66	161.74	12.80	161.43	7.71	7.19	-6.87
2,517.00	27.40	348.70	2,498.46	175.23	10.36	174.97	8.05	7.42	-7.10
2,549.00	30.00	347.40	2,526.52	190.26	7.17	190.07	8.36	8.12	-4.06
2,581.00	33.10	347.80	2,553.79	206.61	3.58	206.49	9.71	9.69	1.25
2,612.00	35.60	349.10	2,579.38	223.75	0.09	223.70	8.40	8.06	4.19
2,644.00	38.30	348.80	2,604.95	242.63	-3.60	242.65	8.46	8.44	-0.94
2,676.00	41.10	348.40	2,629.57	262.66	-7.64	262.77	8.79	8.75	-1.25
2,707.00	43.50	347.00	2,652.50	283.04	-12.09	283.24	8.32	7.74	-4.52
2,738.00	46.70	346.80	2,674.38	304.43	-17.07	304.72	10.33	10.32	-0.65
2,770.00	49.30	346.20	2,695.79	327.55	-22.62	327.96	8.24	8.12	-1.87
2,802.00	52.20	346.30	2,716.03	351.62	-28.51	352.14	9.07	9.06	0.31
2,833.00	54.30	346.30	2,734.58	375.75	-34.40	376.39	6.77	6.77	0.00
2,842.00	54.70	346.20	2,739.81	382.86	-36.14	383.55	4.54	4.44	-1.11
2,852.00	55.00	346.40	2,745.56	390.81	-38.07	391.53	3.42	3.00	2.00
2,862.00	55.30	346.50	2,751.28	398.79	-40.00	399.55	3.11	3.00	1.00
2,872.00	55.60	346.60	2,756.95	406.80	-41.91	407.60	3.11	3.00	1.00
2,882.00	55.80	346.60	2,762.59	414.83	-43.83	415.67	2.00	2.00	0.00
2,892.00	56.00	346.60	2,768.19	422.89	-45.75	423.77	2.00	2.00	0.00
2,902.00	56.20	346.70	2,773.77	430.96	-47.66	431.88	2.17	2.00	1.00
2,912.00	56.50	346.80	2,779.31	439.07	-49.57	440.02	3.11	3.00	1.00
2,922.00	56.70	346.70	2,784.82	447.19	-51.48	448.19	2.17	2.00	-1.00
2,932.00	57.10	346.80	2,790.28	455.35	-53.40	456.38	4.09	4.00	1.00
2,942.00	57.40	346.90	2,795.69	463.54	-55.32	464.61	3.12	3.00	1.00
2,952.00	57.70	347.00	2,801.05	471.76	-57.22	472.87	3.12	3.00	1.00
2,962.00	58.00	347.00	2,806.37	480.01	-59.13	481.16	3.00	3.00	0.00
2,972.00	58.20	347.00	2,811.66	488.28	-61.04	489.47	2.00	2.00	0.00
2,982.00	58.50	346.90	2,816.90	496.57	-62.96	497.80	3.12	3.00	-1.00
2,992.00	58.90	346.90	2,822.10	504.89	-64.90	506.16	4.00	4.00	0.00

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 1H
Project:	Chaves County	TVD Reference:	3587.3+18 @ 3605.30usft
Site:	Sec 35-T15S-R28E	MD Reference:	3587.3+18 @ 3605.30usft
Well:	Red Deer Federal Com 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)
3,002.00	59.10	346.90	2,827.25	513.24	-66.84	514.55	2.00	2.00	0.00
3,012.00	59.40	346.90	2,832.36	521.61	-68.79	522.96	3.00	3.00	0.00
3,022.00	59.70	347.00	2,837.43	530.01	-70.73	531.40	3.12	3.00	1.00
3,032.00	60.10	347.10	2,842.45	538.44	-72.67	539.87	4.09	4.00	1.00
3,042.00	60.70	347.10	2,847.39	546.92	-74.61	548.38	6.00	6.00	0.00
3,055.00	62.00	347.40	2,853.62	558.04	-77.13	559.56	10.20	10.00	2.31
3,086.00	65.50	347.90	2,867.33	585.20	-83.07	586.84	11.38	11.29	1.61
3,118.00	69.10	349.10	2,879.67	614.12	-88.95	615.88	11.77	11.25	3.75
3,149.00	71.20	350.10	2,890.20	642.80	-94.22	644.66	7.42	6.77	3.23
3,181.00	72.80	350.50	2,900.09	672.80	-99.34	674.76	5.14	5.00	1.25
3,213.00	74.20	350.90	2,909.18	703.08	-104.30	705.14	4.54	4.37	1.25
3,244.00	75.20	352.10	2,917.36	732.65	-108.72	734.80	4.93	3.23	3.87
3,276.00	75.90	354.70	2,925.34	763.43	-112.28	765.65	8.17	2.19	8.12
3,308.00	77.50	356.20	2,932.71	794.47	-114.75	796.73	6.77	5.00	4.69
3,339.00	79.90	357.40	2,938.78	824.82	-116.44	827.11	8.62	7.74	3.87
3,403.00	86.70	359.50	2,946.24	888.32	-118.15	890.63	11.11	10.62	3.28
3,428.13	87.33	359.66	2,947.55	913.41	-118.34	915.72	2.60	2.52	0.63
Cross 100' FSL 3428.13 MD/2947.55 TVD 913.41 N -118.34W N: 720369.7 E: 610451.6									
3,530.00	89.90	0.30	2,950.01	1,015.24	-118.37	1,017.53	2.60	2.52	0.63
3,632.00	91.00	0.80	2,949.21	1,117.23	-117.40	1,119.48	1.18	1.08	0.49
3,759.00	91.10	359.30	2,946.88	1,244.21	-117.28	1,246.42	1.18	0.08	-1.18
3,822.00	91.60	359.50	2,945.40	1,307.19	-117.94	1,309.40	0.85	0.79	0.32
3,949.00	91.00	358.70	2,942.52	1,434.14	-119.94	1,436.37	0.79	-0.47	-0.63
4,075.00	90.20	358.90	2,941.20	1,560.10	-122.58	1,562.36	0.65	-0.63	0.16
4,138.00	90.60	358.80	2,940.76	1,623.09	-123.84	1,625.36	0.65	0.63	-0.16
4,202.00	90.70	358.80	2,940.03	1,687.07	-125.18	1,689.35	0.16	0.16	0.00
4,266.00	90.90	359.00	2,939.14	1,751.05	-126.41	1,753.35	0.44	0.31	0.31
4,392.00	89.80	359.30	2,938.37	1,877.03	-128.28	1,879.34	0.90	-0.87	0.24
4,455.00	90.50	359.30	2,938.20	1,940.03	-129.05	1,942.34	1.11	1.11	0.00
4,519.00	90.70	359.40	2,937.53	2,004.02	-129.78	2,006.33	0.35	0.31	0.16
4,582.00	90.80	359.60	2,936.71	2,067.01	-130.33	2,069.32	0.35	0.16	0.32
4,645.00	91.00	359.50	2,935.72	2,130.00	-130.82	2,132.31	0.35	0.32	-0.16
4,772.00	89.70	359.30	2,934.94	2,256.99	-132.15	2,259.29	1.04	-1.02	-0.16
4,835.00	90.00	359.30	2,935.11	2,319.99	-132.92	2,322.29	0.48	0.48	0.00
4,899.00	90.30	359.20	2,934.94	2,383.98	-133.76	2,386.29	0.49	0.47	-0.16
4,962.00	90.50	359.00	2,934.50	2,446.97	-134.75	2,449.28	0.45	0.32	-0.32
5,025.00	90.60	359.10	2,933.90	2,509.96	-135.79	2,512.28	0.22	0.16	0.16
5,151.00	90.40	359.80	2,932.80	2,635.95	-137.00	2,638.27	0.58	-0.16	0.56
5,278.00	91.10	0.00	2,931.13	2,762.94	-137.22	2,765.23	0.57	0.55	0.16
5,405.00	90.00	1.00	2,929.91	2,889.92	-136.11	2,892.16	1.17	-0.87	0.79
5,531.00	90.40	1.20	2,929.47	3,015.90	-133.70	3,018.06	0.35	0.32	0.16
5,658.00	90.80	1.30	2,928.14	3,142.86	-130.92	3,144.93	0.32	0.31	0.08
5,784.00	89.70	1.00	2,927.59	3,268.83	-128.40	3,270.82	0.90	-0.87	-0.24

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 1H
Project:	Chaves County	TVD Reference:	3587.3+18 @ 3605.30usft
Site:	Sec 35-T15S-R28E	MD Reference:	3587.3+18 @ 3605.30usft
Well:	Red Deer Federal Com 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)	
5,910.00	89.70	1.20	2,928.25	3,394.81	-125.98	3,396.72	0.16	0.00	0.16	
6,037.00	89.40	0.00	2,929.25	3,521.79	-124.65	3,523.65	0.97	-0.24	-0.94	
6,164.00	89.90	359.30	2,930.03	3,648.79	-125.42	3,650.63	0.68	0.39	-0.55	
6,291.00	89.80	359.50	2,930.36	3,775.78	-126.75	3,777.62	0.18	-0.08	0.16	
6,415.00	90.10	359.00	2,930.47	3,899.77	-128.38	3,901.62	0.47	0.24	-0.40	
6,541.00	90.10	359.10	2,930.25	4,025.75	-130.47	4,027.62	0.08	0.00	0.08	
6,668.00	90.80	359.30	2,929.25	4,152.73	-132.24	4,154.61	0.57	0.55	0.16	
6,795.00	90.30	359.80	2,928.03	4,279.72	-133.24	4,281.59	0.56	-0.39	0.39	
6,921.00	91.30	359.40	2,926.27	4,405.71	-134.12	4,407.56	0.85	0.79	-0.32	
7,048.00	90.80	359.80	2,923.95	4,532.68	-135.00	4,534.53	0.50	-0.39	0.31	
7,174.00	90.50	359.90	2,922.52	4,658.67	-135.33	4,660.50	0.25	-0.24	0.08	
7,301.00	90.20	0.40	2,921.74	4,785.67	-135.00	4,787.46	0.46	-0.24	0.39	
7,427.00	90.50	0.20	2,920.97	4,911.67	-134.34	4,913.41	0.29	0.24	-0.16	
7,553.00	91.00	359.10	2,919.32	5,037.65	-135.11	5,039.38	0.96	0.40	-0.87	
7,616.00	90.80	359.40	2,918.33	5,100.64	-135.93	5,102.37	0.57	-0.32	0.48	
7,680.00	90.50	359.40	2,917.61	5,164.63	-136.60	5,166.37	0.47	-0.47	0.00	
7,743.00	90.30	359.50	2,917.17	5,227.62	-137.21	5,229.36	0.35	-0.32	0.16	
7,806.00	90.00	359.60	2,917.00	5,290.62	-137.70	5,292.35	0.50	-0.48	0.16	
7,869.00	89.90	0.00	2,917.06	5,353.62	-137.92	5,355.34	0.65	-0.16	0.63	
7,996.00	90.40	0.10	2,916.72	5,480.62	-137.81	5,482.31	0.40	0.39	0.08	
8,122.00	89.90	0.80	2,916.39	5,606.61	-136.82	5,608.26	0.68	-0.40	0.56	
8,249.00	90.90	1.00	2,915.51	5,733.59	-134.83	5,735.17	0.80	0.79	0.16	
8,312.00	90.50	0.70	2,914.74	5,796.58	-133.89	5,798.12	0.79	-0.63	-0.48	
8,439.00	90.90	1.60	2,913.19	5,923.55	-131.34	5,925.00	0.78	0.31	0.71	
8,502.00	90.90	1.50	2,912.20	5,986.52	-129.64	5,987.92	0.16	0.00	-0.16	
8,515.17	90.74	1.50	2,912.01	5,999.68	-129.30	6,001.07	1.21	-1.21	0.00	
Cross 100' FNL 8515.17 MD/2912.01 TVD 5999.68 N -129.30 W N: 725456.0 E: 610440.6										
8,560.00	90.20	1.50	2,911.64	6,044.49	-128.12	6,045.85	1.21	-1.21	0.00	
Last MWD Survey 8560MD/2911.64 TVD 6044.49 N -128.12 W N: 725500.8 E: 610441.8										
8,614.00	90.20	1.50	2,911.45	6,098.47	-126.71	6,099.79	0.00	0.00	0.00	
PTB 8614 MD/2911.45 TVD 6098.47 N -126.71 W N: 725554.8 E: 610443.2										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
130.00	129.99	1.24	0.17	1st MWD Survey	
3,428.13	2,947.55	913.41	-118.34	Cross 100' FSL 3428.13 MD/2947.55 TVD 913.41 N -118.34W N: 720369.7 E: 610440.6	
8,515.17	2,912.01	5,999.68	-129.30	Cross 100' FNL 8515.17 MD/2912.01 TVD 5999.68 N -129.30 W N: 725456.0 E: 610440.6	
8,560.00	2,911.64	6,044.49	-128.12	Last MWD Survey 8560MD/2911.64 TVD 6044.49 N -128.12 W N: 725500.8 E: 610441.8	
8,614.00	2,911.45	6,098.47	-126.71	PTB 8614 MD/2911.45 TVD 6098.47 N -126.71 W N: 725554.8 E: 610443.2	

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

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. 30-005-64323
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. NMNM-132939
3. Address of Operator P.O. Box 960, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Red Deer Federal Com
4. Well Location Unit Letter <u>D</u> : <u>810</u> feet from the <u>North</u> line and <u>1115</u> feet from the <u>West</u> line Section <u>35</u> Township <u>15S</u> Range <u>28E</u> NMPM County <u>Chaves</u>		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3587.3' 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:		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.

4/13-21/2022 Perforated 3429-8514' w/ 672 holes. Frac w/ 1,367.06bbbls 15% Acid, 14,201bbbls Slickwater, 87,746bbbls 20# Crosslink, 448,830# 100 Mesh, 770,160# 30/50 Brown, 3,962,200# 20/40 White, 679,980# 20/40 Resin. RIH w/ 88jts 3 1/2" J-55 tbg @ 2,920', Stator-123M900 HN70 @ 2969'.

Spud Date:

1/8/2022

Rig Release Date:

1/28/2022

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

SIGNATURE Deana Weaver TITLE Regulatory Technician II DATE 5/18/2022

Type or print name Deana Weaver E-mail address: dweaver@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								1. WELL API NO. 30-005-64323		
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)								2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN		
								3. State Oil & Gas Lease No. NMMN-132939		
5. Lease Name or Unit Agreement Name Red Deer Federal 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 88210								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:	D	35	15S	28E		810	North	1115	West	Chaves
BH:	D	26	15S	28E		3	North	993	West	Chaves
13. Date Spudded 1/8/2022	14. Date T.D. Reached 1/28/2022		15. Date Rig Released 1/28/2022			16. Date Completed (Ready to Produce) 4/21/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3587.3' GR		
18. Total Measured Depth of Well 8614'			19. Plug Back Measured Depth 8566'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3429-8514' 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"		340sx		
9 5/8"		36		1218'		12 1/4"		350sx		
7"		26		3093'		8 3/4		215		
5 1/2"		17		8614'		8 3/4		1560		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET		
						3 1/2"	2920			
26. Perforation record (interval, size, and number) 3429-8514', .41, 672 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3429-8514'		1367.06bbls 15% Acid, 14.201bbls Slickwater, 87.746bbls 20# Crosslink, 448,830# 100 Mesh, 770,160# 30/50 Brown, 3,962,200# 20/40 White, 679,980 20/40 Resin		
28. PRODUCTION										
Date First Production 5/18/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Stator-123M900 HN70 @ 2969'				Well Status (Prod. or Shut-in) Producing				
Date of Test 5/18/2022	Hours Tested 24hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 43	Gas - MCF 38	Water - Bbl. 1794	Gas - Oil Ratio 883			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 43	Gas - MCF 38	Water - Bbl. 1794	Oil Gravity - API - (Corr.) 36.9				
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: 1/28/2022		
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>Deana Weaver</i>		Printed Name Deana Weaver		Title Regulatory Technician II		Date _____				
E-mail Address dweaver@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 510	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 739	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1227	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1626	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1948	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.....

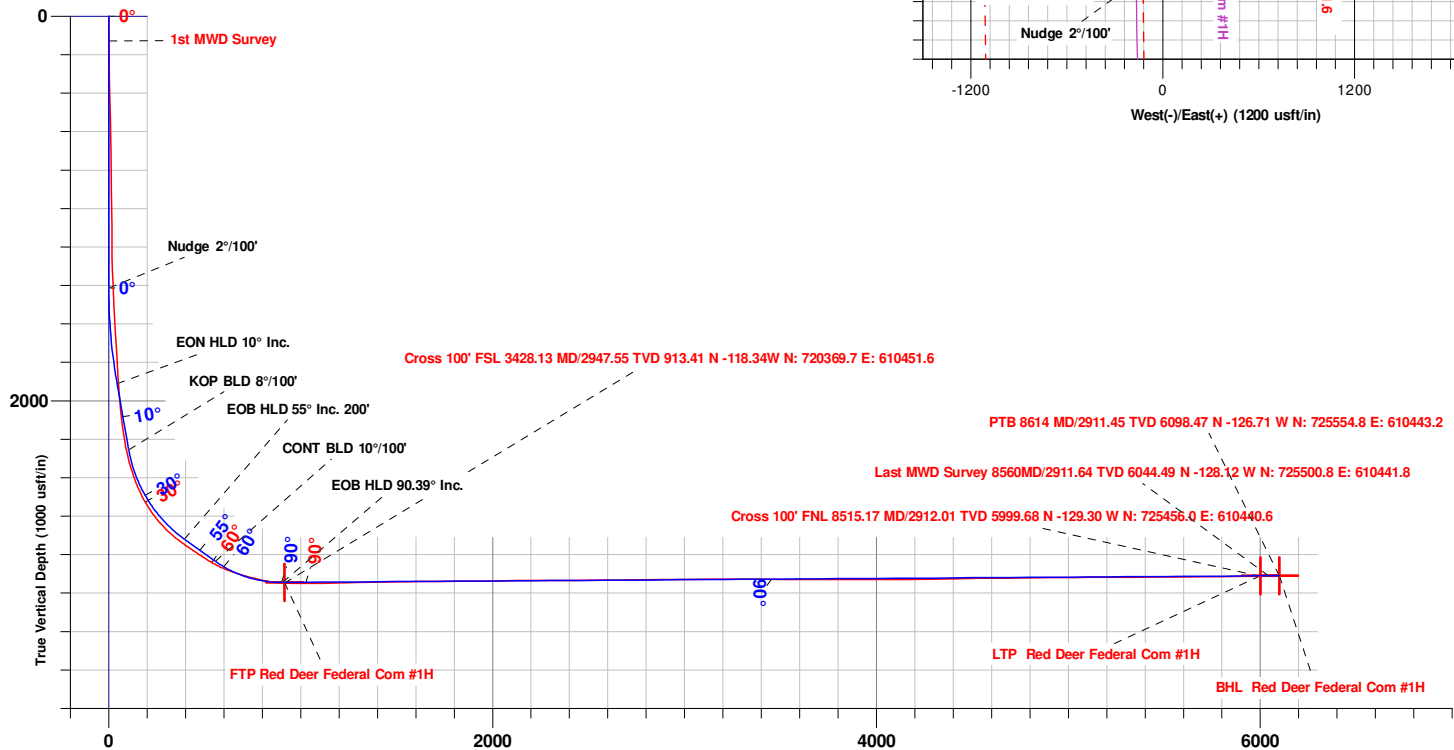
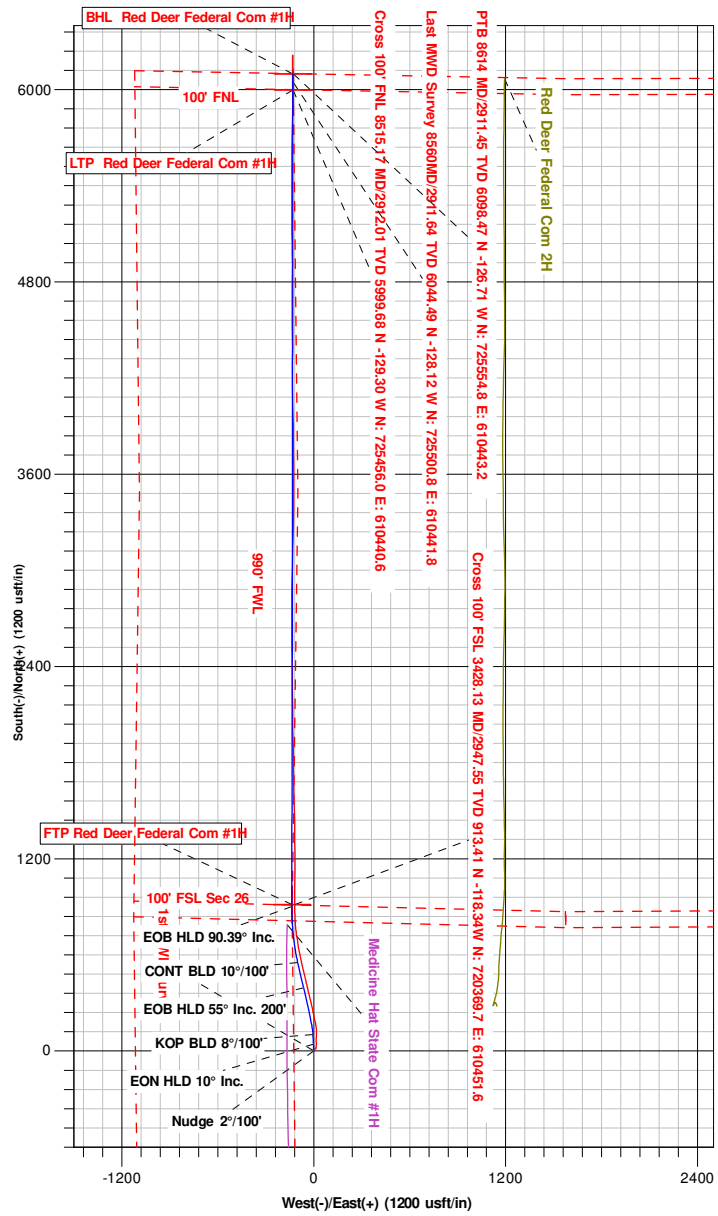
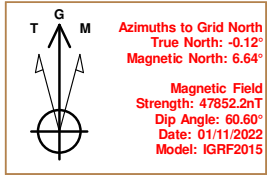
From	To	Thickness In Feet	Lithology

Project: Chavez County
Site: Sec 35-T15S-R28E
Well: Red Deer Federal Com 1H
Wellbore: Wellbore #1
Plan: Plan #4 (Red Deer Federal Com 1H/Wellbore #1)

WELL DETAILS: Red Deer Federal Com 1H
Ground Elevation: 3587.30
RKB Elevation: 3587.3+18 @ 3605.30ust
Rig Name:
Northing 719456.35 Easting 610569.99 Latitude 32.977587 Longitude -104.107566

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL Red Deer Federal Com #1H	2910.00	6098.70	-129.82	725555.05	610440.17	32.994351	-104.107947
LTP Red Deer Federal Com #1H	2910.67	5999.68	-128.70	725456.03	610441.29	32.994078	-104.107944
FTP Red Deer Federal Com #1H	2944.93	913.41	-136.25	720369.76	610434.81	32.980099	-104.108001
plan misses target center by 1.29ust at 8500.00ust MD (2910.67 TVD, 5999.34 N, -129.94 E)							
plan misses target center by 1.06ust at 3413.95ust MD (2944.93 TVD, 913.41 N, -136.24 E)							

Section Details								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1413.21	0.00	0.00	1413.21	0.00	0.00	0.00	0.00	0.00
1913.21	10.00	357.60	1910.67	43.48	-1.82	2.00	357.60	43.51
2263.21	10.00	357.60	2255.36	104.21	-4.37	0.00	0.00	104.28
2828.27	55.00	346.76	2720.01	393.69	-62.47	8.00	-12.54	394.93
3028.27	55.00	346.76	2834.72	553.16	-100.00	0.00	0.00	555.16
3403.36	90.39	0.07	2945.00	902.82	-136.25	10.00	22.22	905.51
8599.36	90.39	0.07	2910.00	6098.70	-129.82	0.00	0.00	6100.08



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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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 108143

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 108143
	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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 108143

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 108143
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	11/3/2022