

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 05-64384	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 3H

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	650	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
M	26	16S	28E		3	South	329	West	Chaves
¹² Lse Code F	¹³ Producing Method P Code	¹⁴ Gas Connection Date 10/31/2023	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 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 7/23/2023	²² Ready Date 10/16/2023	²³ TD 8703'	²⁴ PBDT 8655.93'	²⁵ Perforations 3529-8600'	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"	1,197'	420sx		
8 3/4"	5 1/2" & 7"	8703'	2180sx		
	3 1/2" tubing	2958'			

V. Well Test Data

³¹ Date New Oil 11/1/2023	³² Gas Delivery Date 10/31/2023	³³ Test Date 11/3/2023	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 35	³⁹ Water 1736	⁴⁰ Gas 1		⁴¹ Test Method Pump
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: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory Tech II			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: dweaver@mec.com			Approval Date: <i>5/16/2024</i>		
Date: 11/1/2023		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 30-005-64384	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 3H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3618.4

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	650	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
M	26	15 S	28 E		3	SOUTH	329	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.

M RED DEER FEDERAL COM 3H ELEV. = 3618.4' LAT. = 32.9965993°N (NAD83) LONG. = 104.1090537°W NMSP EAST (FT) N = 726372.48 E = 610099.08 KICK OFF POINT 785' FSL, 626' FWL LAT. = 32.9965323°N LONG. = 104.1091327°W N = 726348.08 E = 610074.91 FIRST TAKE POINT 108' FSL, 314' FWL LAT. = 32.9940949°N LONG. = 104.1101484°W N = 725460.61 E = 609765.39 LAST TAKE POINT 106' FSL, 328' FWL LAT. = 32.9801646°N LONG. = 104.1101566°W N = 720392.38 E = 609773.63 BOTTOM OF HOLE LAT. = 32.9798815°N LONG. = 104.1101600°W NMSP EAST (FT) N = 720289.41 E = 609772.80 SECTION CORNER LAT. = 32.9944104°N LONG. = 104.111759°W NMSP EAST (FT) N = 725574.73 E = 609450.13 W/4 CORNER SEC. 23 LAT. = 33.0016535°N LONG. = 104.111680°W NMSP EAST (FT) N = 728209.99 E = 609446.99 N/4 CORNER SEC. 23 LAT. = 33.0088472°N LONG. = 104.1025336°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. = 104.0938669°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. = 104.0938384°W NMSP EAST (FT) N = 720240.47 E = 614777.92 S/4 CORNER SEC. 26 LAT. = 32.9798978°N LONG. = 104.1024299°W NMSP EAST (FT) N = 720227.61 E = 612143.37 SW CORNER SEC. 26 LAT. = 32.9798966°N LONG. = 104.1112325°W NMSP EAST (FT) N = 720294.20 E = 609443.93 W/4 CORNER SEC. 26 LAT. = 32.9871538°N LONG. = 104.1110964°W NMSP EAST (FT) N = 722934.64 E = 609480.07 QUARTER CORNER LAT. = 32.9942540°N LONG. = 104.1023574°W NMSP EAST (FT) N = 725523.66 E = 612153.96 SURFACE LOCATION KOP 810' AS-DRILLED FTP 2705.02 FT LTP 329' FEET FROM THE 810' FEET FROM THE 329'	
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> 11/1/2023 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. OCTOBER 30, 2023 Date of Survey _____ <i>ALIMON F. JARAMILLO</i> Signature and Seal of Professional Surveyor: _____ Certificate Number: 12797 ALIMON F. JARAMILLO, L.S. 12797 PROFESSIONAL SURVEYOR NO. 9441	

Intent ☐ As Drilled ☒

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: RED DEER FEDERAL COM	Well Number 3H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	23	15S	28E		785	SOUTH	626	WEST	CHAVES
Latitude 32.9965323					Longitude 104.1091327				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	26	15S	28E		108	NORTH	314	WEST	CHAVES
Latitude 32.9940949					Longitude 104.1101484				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	26	15S	28E		106	SOUTH	328	WEST	CHAVES
Latitude 32.9801646					Longitude 104.1101566				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 3H

Plan #1

Survey: Survey #1

Standard Survey Report

08 August, 2023



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 3H
Project:	Chaves County	TVD Reference:	3618.4+17.6 @ 3636.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.4+17.6 @ 3636.00usft
Well:	Red Deer Federal Com 3H	North Reference:	Grid
Wellbore:	Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	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 3H					
Well Position	+N/-S	0.00 usft	Northing:	726,372.48 usft	Latitude:	32.996599
	+E/-W	0.00 usft	Easting:	610,099.08 usft	Longitude:	-104.109054
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,618.40 usft

Wellbore	Plan #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/27/23	6.60	60.60	47,703.51773389

Design	Surveys				
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	183.06	

Survey Program	Date	08/08/23			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
94.00	8,703.00	Survey #1 (Plan #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	
94.00	0.40	255.52	94.00	-0.08	-0.32	0.10	0.43	0.43	0.00	
1st MWD Survey										
200.00	0.50	118.52	200.00	-0.40	-0.27	0.41	0.79	0.09	-129.25	
311.00	1.60	281.00	310.99	-0.33	-1.37	0.40	1.88	0.99	146.38	
403.00	1.50	270.80	402.95	-0.07	-3.83	0.27	0.32	-0.11	-11.09	
495.00	0.70	173.00	494.94	-0.61	-4.97	0.87	1.89	-0.87	-106.30	
586.00	1.70	148.60	585.92	-2.31	-4.19	2.53	1.21	1.10	-26.81	
681.00	1.50	138.30	680.88	-4.45	-2.63	4.58	0.37	-0.21	-10.84	
776.00	1.40	137.00	775.85	-6.22	-1.01	6.27	0.11	-0.11	-1.37	
870.00	1.40	142.40	869.82	-7.97	0.47	7.94	0.14	0.00	5.74	

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 3H
Project:	Chaves County	TVD Reference:	3618.4+17.6 @ 3636.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.4+17.6 @ 3636.00usft
Well:	Red Deer Federal Com 3H	North Reference:	Grid
Wellbore:	Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	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)
964.00	0.20	150.40	963.81	-9.02	1.25	8.94	1.28	-1.28	8.51
1,059.00	0.20	321.30	1,058.81	-9.04	1.23	8.96	0.42	0.00	179.89
1,125.00	0.30	260.30	1,124.81	-8.98	0.99	8.91	0.41	0.15	-92.42
1,256.00	0.40	25.00	1,255.81	-8.62	0.84	8.56	0.47	0.08	95.19
1,350.00	0.70	47.50	1,349.81	-7.94	1.40	7.85	0.39	0.32	23.94
1,444.00	0.50	82.60	1,443.80	-7.50	2.23	7.37	0.44	-0.21	37.34
1,539.00	0.40	82.90	1,538.80	-7.40	2.97	7.23	0.11	-0.11	0.32
1,633.00	1.70	243.00	1,632.79	-7.99	2.06	7.87	2.21	1.38	170.32
Tie-On Survey									
1,741.00	3.10	245.50	1,740.69	-9.93	-2.03	10.03	1.30	1.30	2.31
1,836.00	3.50	240.50	1,835.53	-12.43	-6.89	12.78	0.52	0.42	-5.26
1,930.00	4.00	235.80	1,929.33	-15.68	-12.10	16.30	0.62	0.53	-5.00
2,025.00	4.50	235.40	2,024.07	-19.66	-17.91	20.59	0.53	0.53	-0.42
2,120.00	5.00	230.50	2,118.74	-24.41	-24.17	25.66	0.68	0.53	-5.16
2,167.00	5.60	220.90	2,165.54	-27.45	-27.25	28.86	2.27	1.28	-20.43
2,214.00	6.90	210.00	2,212.27	-31.62	-30.16	33.19	3.73	2.77	-23.19
2,246.00	8.30	207.00	2,243.98	-35.35	-32.17	37.01	4.55	4.37	-9.37
2,278.00	10.20	206.30	2,275.57	-39.95	-34.48	41.73	5.95	5.94	-2.19
2,309.00	12.20	206.30	2,305.97	-45.34	-37.15	47.26	6.45	6.45	0.00
2,341.00	14.60	206.50	2,337.10	-51.98	-40.44	54.07	7.50	7.50	0.62
2,372.00	16.90	206.70	2,366.93	-59.51	-44.21	61.78	7.42	7.42	0.65
2,403.00	18.50	208.30	2,396.47	-67.86	-48.57	70.36	5.39	5.16	5.16
2,485.00	26.70	206.30	2,472.11	-95.88	-62.92	99.10	10.04	10.00	-2.44
2,550.00	33.00	205.40	2,528.45	-124.99	-77.00	128.92	9.72	9.69	-1.38
2,579.00	35.40	205.50	2,552.44	-139.71	-84.00	144.00	8.28	8.28	0.34
2,626.00	38.60	207.00	2,589.97	-165.07	-96.52	169.98	7.07	6.81	3.19
2,674.00	42.50	207.10	2,626.44	-192.85	-110.71	198.49	8.13	8.12	0.21
2,721.00	46.50	207.00	2,659.95	-222.19	-125.69	228.58	8.51	8.51	-0.21
2,769.00	51.20	207.10	2,691.53	-254.37	-142.12	261.59	9.79	9.79	0.21
2,810.00	54.20	207.20	2,716.37	-283.38	-157.01	291.36	7.32	7.32	0.24
2,825.00	54.90	207.10	2,725.07	-294.26	-162.58	302.52	4.70	4.67	-0.67
2,855.00	56.30	207.10	2,742.02	-316.29	-173.86	325.12	4.67	4.67	0.00
2,885.00	57.60	207.20	2,758.38	-338.67	-185.33	348.08	4.34	4.33	0.33
2,915.00	58.70	207.00	2,774.21	-361.35	-196.94	371.35	3.71	3.67	-0.67
2,945.00	59.60	207.00	2,789.59	-384.30	-208.63	394.89	3.00	3.00	0.00
2,975.00	60.20	207.00	2,804.64	-407.43	-220.42	418.61	2.00	2.00	0.00
3,005.00	61.00	206.80	2,819.37	-430.73	-232.24	442.52	2.73	2.67	-0.67
3,052.00	62.20	206.10	2,841.72	-467.75	-250.65	480.46	2.87	2.55	-1.49
3,099.00	65.00	204.10	2,862.62	-505.87	-268.50	519.48	7.07	5.96	-4.26
3,147.00	67.30	200.50	2,882.03	-546.48	-285.14	560.92	8.37	4.79	-7.50
3,194.00	68.00	195.80	2,899.91	-587.77	-298.68	602.88	9.37	1.49	-10.00
3,241.00	69.10	191.80	2,917.10	-630.24	-309.10	645.85	8.26	2.34	-8.51
3,288.00	74.20	189.60	2,931.90	-674.06	-317.37	690.04	11.72	10.85	-4.68

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 3H
Project:	Chaves County	TVD Reference:	3618.4+17.6 @ 3636.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.4+17.6 @ 3636.00usft
Well:	Red Deer Federal Com 3H	North Reference:	Grid
Wellbore:	Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	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)	
3,336.00	80.00	188.70	2,942.61	-720.24	-324.80	736.55	12.22	12.08	-1.87	
3,383.00	84.50	186.20	2,948.95	-766.40	-330.83	782.97	10.93	9.57	-5.32	
3,431.00	88.30	182.50	2,951.96	-814.15	-334.46	830.84	11.04	7.92	-7.71	
3,481.00	91.60	178.60	2,952.00	-864.13	-334.94	880.78	10.22	6.60	-7.80	
3,565.00	90.40	178.60	2,950.54	-948.09	-332.89	964.51	1.43	-1.43	0.00	
3,629.00	89.00	178.10	2,950.87	-1,012.06	-331.05	1,028.29	2.32	-2.19	-0.78	
3,723.00	87.70	178.50	2,953.58	-1,105.98	-328.26	1,121.93	1.45	-1.38	0.43	
3,818.00	88.00	178.70	2,957.14	-1,200.89	-325.94	1,216.57	0.38	0.32	0.21	
3,912.00	89.20	179.40	2,959.44	-1,294.84	-324.38	1,310.31	1.48	1.28	0.74	
4,007.00	89.80	180.20	2,960.27	-1,389.84	-324.05	1,405.15	1.05	0.63	0.84	
4,101.00	88.80	178.80	2,961.42	-1,483.82	-323.23	1,498.96	1.83	-1.06	-1.49	
4,196.00	89.30	178.30	2,962.99	-1,578.78	-320.83	1,593.65	0.74	0.53	-0.53	
4,291.00	90.10	179.30	2,963.49	-1,673.75	-318.84	1,688.39	1.35	0.84	1.05	
4,385.00	88.00	178.10	2,965.05	-1,767.71	-316.71	1,782.10	2.57	-2.23	-1.28	
4,480.00	88.40	178.70	2,968.03	-1,862.63	-314.05	1,876.73	0.76	0.42	0.63	
4,575.00	88.70	179.40	2,970.44	-1,957.58	-312.48	1,971.47	0.80	0.32	0.74	
4,669.00	89.40	179.40	2,972.00	-2,051.56	-311.50	2,065.27	0.74	0.74	0.00	
4,764.00	90.10	179.10	2,972.41	-2,146.55	-310.25	2,160.05	0.80	0.74	-0.32	
4,858.00	88.00	179.10	2,973.97	-2,240.52	-308.78	2,253.81	2.23	-2.23	0.00	
4,953.00	88.60	178.70	2,976.79	-2,335.46	-306.95	2,348.52	0.76	0.63	-0.42	
5,009.00	89.00	178.50	2,977.96	-2,391.43	-305.58	2,404.34	0.80	0.71	-0.36	
5,103.00	89.80	179.20	2,978.94	-2,485.41	-303.70	2,498.08	1.13	0.85	0.74	
5,198.00	90.30	179.10	2,978.86	-2,580.40	-302.29	2,592.86	0.54	0.53	-0.11	
5,292.00	91.00	179.60	2,977.80	-2,674.38	-301.22	2,686.65	0.92	0.74	0.53	
5,387.00	89.00	179.80	2,977.80	-2,769.38	-300.73	2,781.48	2.12	-2.11	0.21	
5,482.00	89.10	179.80	2,979.37	-2,864.37	-300.39	2,876.32	0.11	0.11	0.00	
5,577.00	89.40	180.30	2,980.61	-2,959.36	-300.48	2,971.18	0.61	0.32	0.53	
5,671.00	90.10	179.40	2,981.02	-3,053.35	-300.23	3,065.03	1.21	0.74	-0.96	
5,766.00	90.40	180.20	2,980.61	-3,148.35	-299.90	3,159.87	0.90	0.32	0.84	
5,861.00	88.70	180.00	2,981.36	-3,243.34	-300.06	3,254.74	1.80	-1.79	-0.21	
5,955.00	88.90	179.40	2,983.32	-3,337.32	-299.57	3,348.56	0.67	0.21	-0.64	
6,050.00	89.30	179.60	2,984.82	-3,432.31	-298.74	3,443.36	0.47	0.42	0.21	
6,144.00	89.70	180.60	2,985.64	-3,526.30	-298.91	3,537.23	1.15	0.43	1.06	
6,239.00	90.30	181.30	2,985.64	-3,621.29	-300.48	3,632.16	0.97	0.63	0.74	
6,333.00	89.50	179.80	2,985.80	-3,715.28	-301.39	3,726.07	1.81	-0.85	-1.60	
6,428.00	89.20	179.90	2,986.88	-3,810.27	-301.14	3,820.92	0.33	-0.32	0.11	
6,522.00	89.70	180.30	2,987.78	-3,904.27	-301.30	3,914.79	0.68	0.53	0.43	
6,617.00	91.00	180.10	2,987.20	-3,999.26	-301.63	4,009.66	1.38	1.37	-0.21	
6,711.00	90.90	182.20	2,985.64	-4,093.23	-303.52	4,103.59	2.24	-0.11	2.23	
6,806.00	88.40	182.20	2,986.22	-4,188.15	-307.16	4,198.57	2.63	-2.63	0.00	
6,900.00	87.60	181.00	2,989.50	-4,282.05	-309.79	4,292.48	1.53	-0.85	-1.28	
6,995.00	88.50	179.70	2,992.74	-4,376.99	-310.37	4,387.32	1.66	0.95	-1.37	
7,090.00	89.50	178.70	2,994.39	-4,471.96	-309.04	4,482.09	1.49	1.05	-1.05	

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Red Deer Federal Com 3H
Project:	Chaves County	TVD Reference:	3618.4+17.6 @ 3636.00usft
Site:	Sec 23 T15S R28E	MD Reference:	3618.4+17.6 @ 3636.00usft
Well:	Red Deer Federal Com 3H	North Reference:	Grid
Wellbore:	Plan #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	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)
7,184.00	90.10	179.70	2,994.72	-4,565.95	-307.73	4,575.87	1.24	0.64	1.06
7,279.00	90.90	179.40	2,993.89	-4,660.95	-306.98	4,670.69	0.90	0.84	-0.32
7,374.00	89.30	179.90	2,993.73	-4,755.94	-306.40	4,765.52	1.76	-1.68	0.53
7,468.00	89.80	180.80	2,994.47	-4,849.93	-306.98	4,859.41	1.10	0.53	0.96
7,563.00	90.80	180.90	2,993.97	-4,944.92	-308.39	4,954.33	1.06	1.05	0.11
7,658.00	91.80	181.70	2,991.81	-5,039.87	-310.54	5,049.26	1.35	1.05	0.84
7,752.00	90.20	182.10	2,990.17	-5,133.80	-313.66	5,143.23	1.75	-1.70	0.43
7,847.00	89.40	180.70	2,990.50	-5,228.77	-315.98	5,238.18	1.70	-0.84	-1.47
7,941.00	90.20	180.40	2,990.83	-5,322.76	-316.88	5,332.09	0.91	0.85	-0.32
8,036.00	90.90	180.20	2,989.92	-5,417.76	-317.38	5,426.98	0.77	0.74	-0.21
8,131.00	89.40	181.50	2,989.67	-5,512.74	-318.79	5,521.90	2.09	-1.58	1.37
8,225.00	90.10	180.40	2,990.08	-5,606.73	-320.35	5,615.83	1.39	0.74	-1.17
8,320.00	91.30	181.60	2,988.92	-5,701.70	-322.00	5,710.76	1.79	1.26	1.26
8,415.00	89.80	180.80	2,988.01	-5,796.67	-323.99	5,805.70	1.79	-1.58	-0.84
8,510.00	89.00	180.20	2,989.00	-5,891.66	-324.82	5,900.60	1.05	-0.84	-0.63
8,604.00	89.90	180.70	2,989.91	-5,985.65	-325.56	5,994.50	1.10	0.96	0.53
8,644.00	90.40	180.40	2,989.80	-6,025.65	-325.94	6,034.46	1.46	1.25	-0.75
Last MWD Survey 8644 MD/2989.80 TVD -6025.65 S -325.94 W N: 720346.8 E: 609773.1									
8,703.00	90.40	180.40	2,989.39	-6,084.65	-326.36	6,093.39	0.00	0.00	0.00
PTB 8703 MD/2989.39 TVD -6084.65 S -326.36 W N: 720287.8 E: 609772.7									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
94.00	94.00	-0.08	-0.32	1st MWD Survey
1,633.00	1,632.79	-7.99	2.06	Tie-On Survey
8,644.00	2,989.80	-6,025.65	-325.94	Last MWD Survey 8644 MD/2989.80 TVD -6025.65 S -325.94 W N: 720346.8 E: 609773.1
8,703.00	2,989.39	-6,084.65	-326.36	PTB 8703 MD/2989.39 TVD -6084.65 S -326.36 W N: 720287.8 E: 609772.7

Checked By: _____	Approved By: _____	Date: _____
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Submit 1 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. 30-005-64384
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-0132939
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>M</u> : <u>810</u> feet from the <u>South</u> line and <u>650</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>		8. Well Number 3H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3618.4' GR		9. OGRID Number 013837
		10. Pool name or Wildcat Round Tank; San Andres #52770

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.

10/1-16/2023 Perforated 3529-8600' w/ 672 holes. Frac w/ 39.972.42bbls 15% Acid, 8551.3bbls Slickwater 98,615bbls 20# Crosslink, 424,290# 100 Mesh, 749,870# 30/50 WI White, 3,603,720# WI White, 637,530# 20/40 Super LC. RIH w/ 89jts 3 1/2" J-55 tubing @ 2958', 102m 1200 Stator @ 2997'.

Spud Date:

7/23/2023

Rig Release Date:

8/7/2023

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

SIGNATURE Deana Weaver TITLE Regulatory Tech II DATE 11/1/2023

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										
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: 3H		
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 #52770				
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	650	West	Chaves
BH:	M	26	15S	28E		3	South	329	West	Chaves
13. Date Spudded 7/23/2023	14. Date T.D. Reached 8/5/2023		15. Date Rig Released 8/7/2023		16. Date Completed (Ready to Produce) 10/16/2023			17. Elevations (DF and RKB, RT, GR, etc.) 3618.4' GR		
18. Total Measured Depth of Well 8703'			19. Plug Back Measured Depth 8655.93'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3529-8600' Round Tank; San Andres #52770										
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#		1,197'		12 1/4"		420sx		
7"		26#		5551-8703'		8 3/4"		360sx		
5 1/2"		17#		0-5551		8 3/4"		1820sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD					
					SIZE	DEPTH SET	PACKER SET			
					3 1/2"	2958'	2997'			
26. Perforation record (interval, size, and number) 3529-8600', 0.41, 672 holes					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					3529-8600'		39,972.42bbls 15% Acid, 8551.3bbls Slickwater, 98,615bbls			
							20# Crosslink, 424.290# 100 Mesh, 749.870# 30/50 WI White, 3,603,720# 20/40 WI White, 637,530# 20/40 Spuper LC			
28. PRODUCTION										
Date First Production 10/31/2023		Production Method (Flowing, gas lift, pumping - Size and type pump) 102m 1200 Stator @ 2997'				Well Status (Prod. or Shut-in) Producing				
Date of Test 11/3/2023	Hours Tested 24hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 35	Gas - MCF 1	Water - Bbl. 1736	Gas - Oil Ratio 28			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 35	Gas - MCF 1	Water - Bbl. 1736	Oil Gravity - API - (Corr.) 37.0				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By Jerry W. 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: 8/7/2023			
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 Deana Weaver			Printed Name Deana Weaver		Title Regulatory Tech II			Date 11/1/2023		
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 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



Mack Energy
Project: Chaves County
Site: Sec 23 T15S R28E
Well: Red Deer Federal Com 3H
Wellbore: Plan #1
Plan: Plan #1 (Red Deer Federal Com 3H/Plan #1)

WELL DETAILS: Red Deer Federal Com 3H
Ground Elevation: 3618.40
RKB Elevation: 3618.4+17.6 @ 3636.00usft
Rig Name:
Northing 726372.48 Easting 610099.08 Latitude 32.996599 Longitude -104.109054

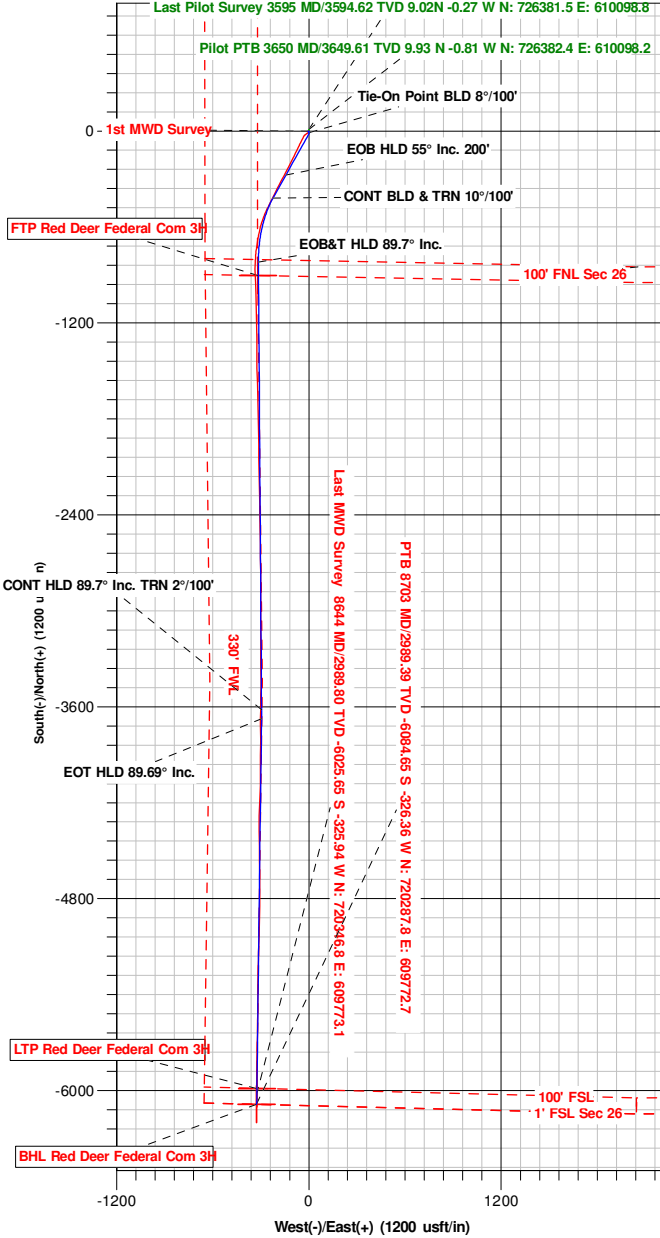
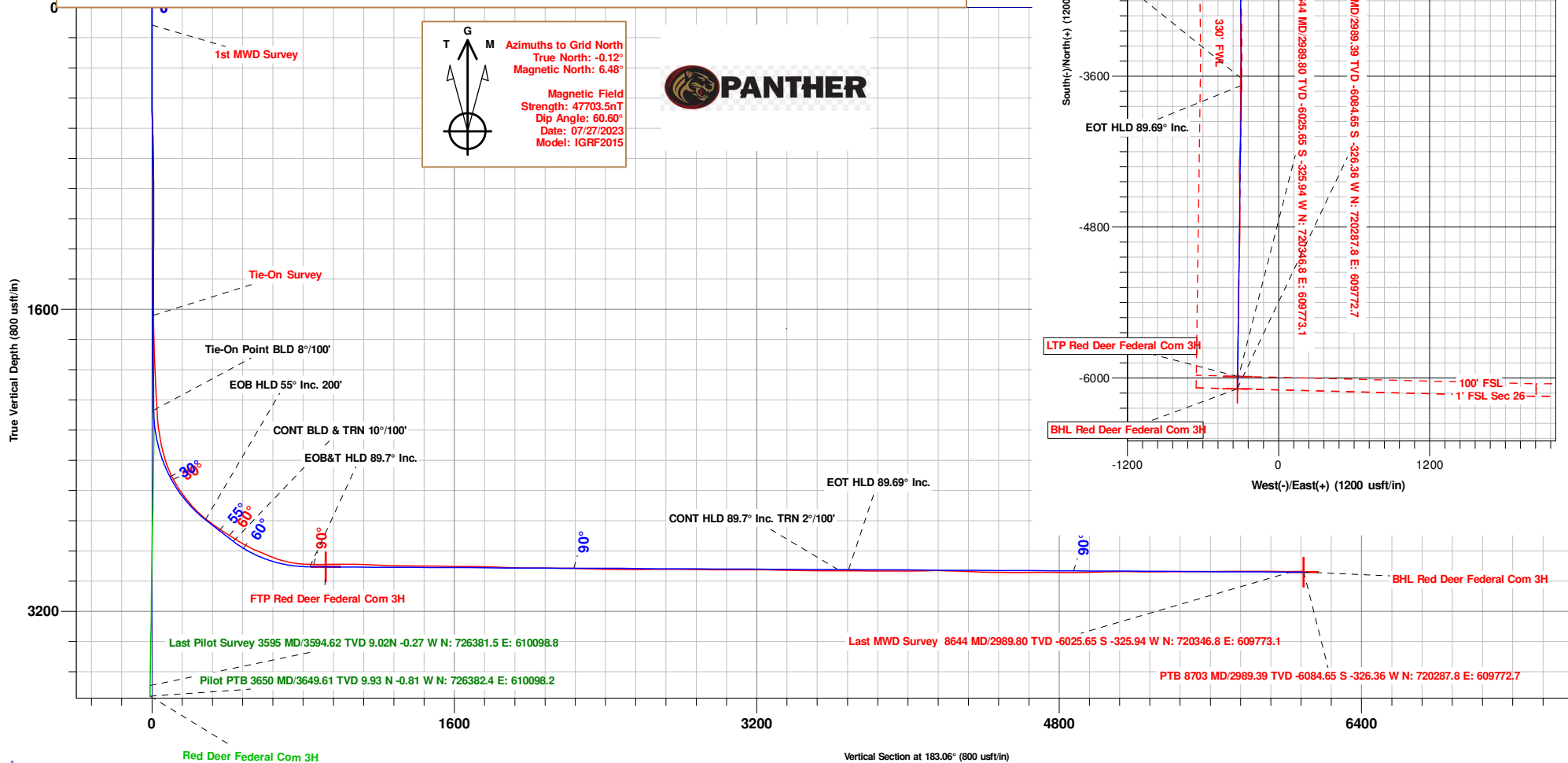
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP Red Deer Federal Com 3H	0.00	-5986.45	-323.95	720386.03	609775.13	32.980147	-104.110152
FTP Red Deer Federal Com 3H	2965.00	-904.00	-317.81	725468.48	609781.27	32.994116	-104.110097
BHL Red Deer Federal Com 3H	2993.00	-6085.42	-325.31	720287.06	609773.77	32.979875	-104.110157

- plan misses target center by 2992.42usft at 8610.19usft MD (2992.38 TVD, -5970.26 N, -323.87 E)
- plan misses target center by 3.91usft at 3543.58usft MD (2965.45 TVD, -903.97 N, -313.92 E)
- plan hits target center

Section Details

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
2135.47	0.53	209.78	2135.25	-9.67	4.95	0.00	0.00	9.39
2816.40	55.00	209.10	2715.36	-276.48	-143.60	8.00	-0.69	283.75
3016.40	55.00	209.10	2830.07	-419.63	-223.27	0.00	0.00	430.95
3459.19	89.70	179.60	2965.00	-819.58	-314.51	10.00	-44.85	835.20
6259.19	89.70	179.60	2979.66	-3619.48	-294.97	0.00	0.00	3630.06
6315.08	89.69	180.72	2979.96	-3675.36	-295.12	2.00	90.51	3685.87
8725.36	89.69	180.72	2993.00	-6085.42	-325.31	0.00	0.00	6094.11



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 282850

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 282850
	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 282850

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 282850
	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.	5/16/2024