

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		² OGRID Number 013837	
		³ Reason for Filing Code/ Effective Date	
⁴ API Number 30 - 0 05-64352	⁵ Pool Name Round Tank; San Andres		⁶ Pool Code 52770
⁷ Property Code 328306	⁸ Property Name Powell River 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
P	14	15S	29E		602	South	990	East	Chaves

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	15S	29E		2	South	993	East	Chaves
¹² Lse Code F	¹³ Producing Method Code P		¹⁴ Gas Connection Date		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 7/20/2021	²² Ready Date 6/28/2021	²³ TD 9025'/3501 TVD	²⁴ PBTD 8976'-3501' TVD	²⁵ Perforations 3831'-8917/3497'-3501 TVD	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	252'		417 sx
12 1/4"		9 5/8"	1230'		848 sx
8 3/4"		7" & 5 1/2"	9025"		1240 sx

V. Well Test Data

³¹ Date New Oil 7/14/2021	³² Gas Delivery Date 7/17/2021	³³ Test Date 7/18/2021	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 91	³⁹ Water 1620	⁴⁰ Gas 46		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: Delilah Flores			OIL CONSERVATION DIVISION		
Printed name: Delilah Flores			Approved by: KURT SIMMONS		
Title: Regulatory Technician I			Title: NMOCD, SANTA FE		
E-mail Address: delilah@mec.com			Approval Date: 09/21/2021		
Date: 7/19/2021		Phone: 575-748-1288			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1,
2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-64352	² Pool Code 52270	³ Pool Name Round Tank; San Andres
⁴ Property Code 328308	⁵ Property Name POWELL RIVER FEDERAL COM	⁶ Well Number 1H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3920.2

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	15 S	29 E		602	SOUTH	990	EAST	CHAVES

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	15 S	29 E		2	SOUTH	993	EAST	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.

NW CORNER SEC. 14 LAT. = 33.0232118°N LONG. = 104.0076016°W NMSP EAST (FT) N = 736138.21 E = 641173.28 W/4 CORNER SEC. 14 LAT. = 33.0158685°N LONG. = 104.0077346°W NMSP EAST (FT) N = 733464.36 E = 641140.79 SW CORNER SEC. 14 LAT. = 33.0087818°N LONG. = 104.0078257°W NMSP EAST (FT) N = 730885.92 E = 641120.85 W/4 CORNER SEC. 23 LAT. = 33.0015079°N LONG. = 104.0077509°W NMSP EAST (FT) N = 728239.54 E = 641151.97 SW CORNER SEC. 23 LAT. = 32.9942030°N LONG. = 104.0076851°W NMSP EAST (FT) N = 725581.86 E = 641180.37		N/4 CORNER SEC. 14 LAT. = 33.0232517°N LONG. = 103.9989893°W NMSP EAST (FT) N = 736159.01 E = 643812.88 ELEV. = 3920.2' LAT. = 33.0104187°N (NAD83) LONG. = 103.9938205°W NMSP EAST (FT) N = 731495.07 E = 645412.20 S/4 CORNER SEC. 14 LAT. = 33.0087732°N LONG. = 103.9992221°W NMSP EAST (FT) N = 730891.08 E = 643758.27 AS-DILLED LAST TAKE POINT 110' FSL, 982' FEL LAT. = 32.9945040°N LONG. = 103.9938264°W NMSP EAST (FT) N = 725704.81 E = 645429.08 AS-DILLED BOTTOM OF HOLE LAT. = 32.9942074°N LONG. = 103.9938284°W NMSP EAST (FT) N = 725596.90 E = 645428.80 S/4 CORNER SEC. 23 LAT. = 32.9942016°N LONG. = 103.9991564°W NMSP EAST (FT) N = 725589.58 E = 643795.24		NE CORNER SEC. 14 LAT. = 33.0233053°N LONG. = 103.9903629°W NMSP EAST (FT) N = 736187.02 E = 646456.81 E/4 CORNER SEC. 14 LAT. = 33.0160343°N LONG. = 103.9904947°W NMSP EAST (FT) N = 733541.50 E = 646425.03 SE CORNER SEC. 14 LAT. = 33.0087592°N LONG. = 103.9906199°W NMSP EAST (FT) N = 730894.48 E = 646395.26 AS-DILLED FIRST TAKE POINT 173' PNL, 998' FEL LAT. = 33.0082926°N LONG. = 103.9938548°W NMSP EAST (FT) N = 730721.48 E = 103.9938548 E/4 CORNER SEC. 23 LAT. = 33.0014847°N LONG. = 103.9906184°W NMSP EAST (FT) N = 728247.79 E = 646404.36 SE CORNER SEC. 23 LAT. = 32.9942011°N LONG. = 103.9906126°W NMSP EAST (FT) N = 725597.82 E = 646414.79		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Delilah Flores</i> 7/19/2021 Signature Date Delilah Flores Printed Name delilah@mec.com E-mail Address
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JUNE 28, 2021 Date of Survey <i>WILMON F. JARAMILA</i> Signature and Seal of Professional Surveyor Certificate Number: WILMON F. JARAMILA, PLS 12797 SURVEY NO. 7815A						

Intent ☐ As Drilled ☒

API #

Operator Name:	Property Name:	Well Number
MACK ENERGY CORPORATION	POWELL RIVER FEDERAL COM	1H

Kick Off Point (KOP)

UL P	Section 14	Township 15S	Range 29E	Lot	Feet 602	From N/S SOUTH	Feet 990	From E/W EAST	County CHAVES
Latitude 33.0104187					Longitude 103.9938205			NAD 83	

First Take Point (FTP)

UL A	Section 23	Township 15S	Range 29E	Lot	Feet 173	From N/S NORTH	Feet 998	From E/W EAST	County CHAVES
Latitude 33.0082926					Longitude 103.9938548			NAD 83	

Last Take Point (LTP)

UL P	Section 23	Township 15S	Range 29E	Lot	Feet 110	From N/S SOUTH	Feet 992	From E/W EAST	County CHAVES
Latitude 32.9938264					Longitude 103.9938264			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 14-T15S-R29E

Powell River Federal Com #1H

Wellbore #1

Survey: Survey #2

Standard Survey Report

03 May, 2021



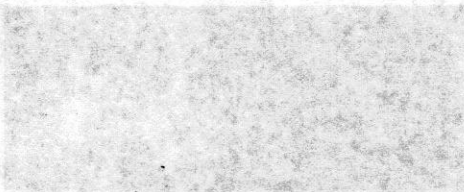


Black Energy
Chavez County
See 14-152-1205
Powell River Federal Court
Wellborn

Survey Survey 12

Standard Survey Report

03/15/2021





Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Powell River Federal Com #1H
Project:	Chaves County	TVD Reference:	3920.2+16 @ 3936.20usft
Site:	Sec 14-T15S-R29E	MD Reference:	3920.2+16 @ 3936.20usft
Well:	Powell River 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 14-T15S-R29E											
Site Position:			Northing:			731,495.07 usft			Latitude:			33.010419					
From:			Map			Easting:			645,412.20 usft			Longitude:			-103.993821		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.18 °		

Well	Powell River Federal Com #1H					
Well Position	+N/-S	0.00 usft	Northing:	731,495.07 usft	Latitude:	33.010419
	+E/-W	0.00 usft	Easting:	645,412.20 usft	Longitude:	-103.993821
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,920.20 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/13/21	6.80	60.66	47,958.40457635

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.88	

Survey Program		Date	05/03/21		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
157.00	202.00	Inviticus (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)
202.00	1.00	253.84	201.99	-0.63	-1.88	0.63	0.00	0.00	0.00
318.00	1.10	250.20	317.97	-1.29	-3.90	1.28	0.10	0.09	-3.14
1st MWD Survey									
441.00	1.60	242.60	440.93	-2.48	-6.53	2.46	0.43	0.41	-6.18
626.00	2.50	239.00	625.81	-5.75	-12.28	5.72	0.49	0.49	-1.95
813.00	2.10	216.70	812.67	-10.59	-17.83	10.55	0.52	-0.21	-11.93
998.00	1.30	195.90	997.58	-15.33	-20.43	15.29	0.54	-0.43	-11.24
1,194.00	1.60	191.20	1,193.52	-20.15	-21.57	20.11	0.16	0.15	-2.40
1,386.00	1.50	153.80	1,385.46	-25.04	-20.98	24.99	0.52	-0.05	-19.48
1,572.00	0.60	12.70	1,571.44	-26.27	-19.69	26.23	1.08	-0.48	-75.86
1,757.00	0.10	356.20	1,756.43	-25.16	-19.49	25.12	0.27	-0.27	-8.92



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Powell River Federal Com #1H
Project:	Chaves County	TVD Reference:	3920.2+16 @ 3936.20usft
Site:	Sec 14-T15S-R29E	MD Reference:	3920.2+16 @ 3936.20usft
Well:	Powell River 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)
1,943.00	0.10	329.30	1,942.43	-24.86	-19.58	24.82	0.03	0.00	-14.46
2,128.00	0.20	124.50	2,127.43	-24.91	-19.40	24.87	0.16	0.05	83.89
2,314.00	0.70	160.80	2,313.43	-26.16	-18.76	26.12	0.30	0.27	19.52
2,500.00	0.50	156.40	2,499.42	-27.98	-18.06	27.94	0.11	-0.11	-2.37
2,687.00	0.70	178.70	2,686.41	-29.87	-17.70	29.83	0.16	0.11	11.93
2,718.00	2.30	180.60	2,717.40	-30.68	-17.71	30.64	5.16	5.16	6.13
2,749.00	4.30	173.50	2,748.34	-32.46	-17.58	32.42	6.57	6.45	-22.90
2,780.00	5.90	172.90	2,779.22	-35.19	-17.25	35.16	5.16	5.16	-1.94
2,811.00	7.30	175.90	2,810.01	-38.74	-16.92	38.70	4.65	4.52	9.68
2,842.00	10.00	180.10	2,840.66	-43.40	-16.78	43.36	8.94	8.71	13.55
2,904.00	16.60	182.70	2,900.96	-57.64	-17.21	57.61	10.69	10.65	4.19
2,935.00	19.20	181.20	2,930.46	-67.16	-17.52	67.13	8.52	8.39	-4.84
2,966.00	20.70	179.20	2,959.60	-77.74	-17.55	77.70	5.32	4.84	-6.45
2,997.00	22.30	178.50	2,988.44	-89.10	-17.32	89.06	5.23	5.16	-2.26
3,028.00	24.40	178.30	3,016.90	-101.38	-16.98	101.34	6.78	6.77	-0.65
3,059.00	26.40	177.00	3,044.90	-114.66	-16.43	114.63	6.70	6.45	-4.19
3,090.00	28.10	175.30	3,072.46	-128.82	-15.47	128.79	6.03	5.48	-5.48
3,120.00	30.70	173.90	3,098.60	-143.48	-14.08	143.45	8.96	8.67	-4.67
3,151.00	33.90	175.70	3,124.80	-159.98	-12.59	159.95	10.78	10.32	5.81
3,182.00	36.10	176.90	3,150.19	-177.72	-11.44	177.69	7.44	7.10	3.87
3,213.00	38.70	178.10	3,174.81	-196.53	-10.63	196.50	8.71	8.39	3.87
3,244.00	40.00	180.50	3,198.79	-216.18	-10.39	216.15	6.46	4.19	7.74
3,306.00	45.80	179.10	3,244.19	-258.36	-10.22	258.34	9.48	9.35	-2.26
3,369.00	50.00	180.50	3,286.41	-305.09	-10.07	305.07	6.87	6.67	2.22
3,379.00	50.30	180.60	3,292.82	-312.77	-10.15	312.75	3.10	3.00	1.00
3,389.00	50.60	180.50	3,299.19	-320.48	-10.22	320.46	3.10	3.00	-1.00
3,399.00	50.80	180.50	3,305.52	-328.22	-10.29	328.20	2.00	2.00	0.00
3,409.00	51.00	180.50	3,311.83	-335.98	-10.36	335.96	2.00	2.00	0.00
3,419.00	51.30	180.40	3,318.10	-343.77	-10.42	343.74	3.10	3.00	-1.00
3,430.00	51.40	179.80	3,324.97	-352.36	-10.43	352.33	4.36	0.91	-5.45
3,440.00	51.70	179.90	3,331.19	-360.19	-10.41	360.17	3.10	3.00	1.00
3,451.00	52.00	179.80	3,337.99	-368.84	-10.39	368.82	2.82	2.73	-0.91
3,462.00	52.30	179.80	3,344.74	-377.52	-10.36	377.50	2.73	2.73	0.00
3,472.00	52.50	179.80	3,350.84	-385.45	-10.33	385.42	2.00	2.00	0.00
3,482.00	52.70	179.80	3,356.91	-393.39	-10.30	393.37	2.00	2.00	0.00
3,493.00	52.90	179.80	3,363.56	-402.15	-10.27	402.13	1.82	1.82	0.00
3,503.00	53.20	179.80	3,369.57	-410.15	-10.25	410.12	3.00	3.00	0.00
3,513.00	53.50	179.60	3,375.54	-418.17	-10.20	418.14	3.40	3.00	-2.00
3,524.00	53.80	179.50	3,382.06	-427.03	-10.13	427.00	2.82	2.73	-0.91
3,534.00	54.20	179.50	3,387.94	-435.12	-10.06	435.09	4.00	4.00	0.00
3,544.00	54.80	179.40	3,393.75	-443.26	-9.99	443.24	6.05	6.00	-1.00
3,554.00	55.20	179.40	3,399.48	-451.45	-9.90	451.43	4.00	4.00	0.00
3,586.00	57.90	180.00	3,417.12	-478.15	-9.76	478.12	8.58	8.44	1.87



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Powell River Federal Com #1H
Project:	Chaves County	TVD Reference:	3920.2+16 @ 3936.20usft
Site:	Sec 14-T15S-R29E	MD Reference:	3920.2+16 @ 3936.20usft
Well:	Powell River 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)
3,618.00	60.10	179.90	3,433.60	-505.57	-9.74	505.55	6.88	6.87	-0.31
3,649.00	62.70	180.30	3,448.44	-532.79	-9.79	532.77	8.46	8.39	1.29
3,680.00	65.30	180.10	3,462.03	-560.65	-9.88	560.63	8.41	8.39	-0.65
3,742.00	72.70	179.30	3,484.23	-618.49	-9.57	618.47	12.00	11.94	-1.29
3,803.00	82.10	178.80	3,497.52	-677.94	-8.58	677.92	15.43	15.41	-0.82
3,865.00	89.30	179.00	3,502.17	-739.72	-7.39	739.70	11.62	11.61	0.32
4,052.00	92.50	178.90	3,499.23	-926.64	-3.97	926.63	1.71	1.71	-0.05
4,224.00	91.20	181.10	3,493.68	-1,098.54	-3.97	1,098.52	1.49	-0.76	1.28
4,348.00	88.80	179.80	3,493.68	-1,222.52	-4.94	1,222.51	2.20	-1.94	-1.05
4,472.00	88.90	180.30	3,496.17	-1,346.49	-5.05	1,346.48	0.41	0.08	0.40
4,596.00	88.80	181.00	3,498.65	-1,470.46	-6.46	1,470.44	0.57	-0.08	0.56
4,720.00	89.10	181.10	3,500.93	-1,594.42	-8.73	1,594.40	0.26	0.24	0.08
4,844.00	88.70	179.70	3,503.31	-1,718.39	-9.60	1,718.36	1.17	-0.32	-1.13
4,967.00	89.30	180.10	3,505.45	-1,841.37	-9.38	1,841.34	0.59	0.49	0.33
5,091.00	90.30	178.30	3,505.89	-1,965.35	-7.65	1,965.33	1.66	0.81	-1.45
5,214.00	91.10	178.80	3,504.38	-2,088.30	-4.54	2,088.29	0.77	0.65	0.41
5,338.00	91.60	178.40	3,501.46	-2,212.23	-1.51	2,212.22	0.52	0.40	-0.32
5,462.00	89.90	181.00	3,499.84	-2,336.20	-0.86	2,336.19	2.50	-1.37	2.10
5,586.00	90.80	181.00	3,499.08	-2,460.18	-3.02	2,460.17	0.73	0.73	0.00
5,710.00	88.90	181.60	3,499.41	-2,584.14	-5.84	2,584.12	1.61	-1.53	0.48
5,834.00	88.40	179.70	3,502.33	-2,708.09	-7.24	2,708.07	1.58	-0.40	-1.53
5,957.00	89.80	176.90	3,504.26	-2,831.01	-3.60	2,830.99	2.54	1.14	-2.28
6,081.00	90.90	176.50	3,503.50	-2,954.80	3.54	2,954.80	0.94	0.89	-0.32
6,205.00	89.80	179.20	3,502.75	-3,078.69	8.19	3,078.70	2.35	-0.89	2.18
6,266.00	89.70	179.90	3,503.01	-3,139.69	8.67	3,139.70	1.16	-0.16	1.15
6,390.00	90.50	180.40	3,502.80	-3,263.69	8.35	3,263.70	0.76	0.65	0.40
6,530.00	90.50	181.50	3,501.57	-3,403.66	6.03	3,403.67	0.79	0.00	0.79
6,654.00	89.80	181.00	3,501.25	-3,527.63	3.32	3,527.63	0.69	-0.56	-0.40
6,777.00	89.60	179.80	3,501.89	-3,650.62	2.46	3,650.62	0.99	-0.16	-0.98
6,901.00	90.10	180.70	3,502.22	-3,774.62	1.92	3,774.62	0.83	0.40	0.73
7,025.00	90.40	182.20	3,501.68	-3,898.58	-1.22	3,898.56	1.23	0.24	1.21
7,149.00	90.20	181.20	3,501.03	-4,022.52	-4.89	4,022.50	0.82	-0.16	-0.81
7,272.00	89.80	179.80	3,501.03	-4,145.51	-5.97	4,145.49	1.18	-0.33	-1.14
7,395.00	89.50	180.70	3,501.78	-4,268.51	-6.50	4,268.48	0.77	-0.24	0.73
7,518.00	90.20	179.40	3,502.10	-4,391.50	-6.61	4,391.48	1.20	0.57	-1.06
7,642.00	89.60	178.00	3,502.32	-4,515.47	-3.80	4,515.45	1.23	-0.48	-1.13
7,766.00	89.60	179.00	3,503.18	-4,639.42	-0.55	4,639.41	0.81	0.00	0.81
7,889.00	89.70	179.60	3,503.93	-4,762.41	0.95	4,762.40	0.49	0.08	0.49
8,013.00	89.80	178.80	3,504.48	-4,886.39	2.68	4,886.39	0.65	0.08	-0.65
8,137.00	90.20	179.40	3,504.48	-5,010.38	4.63	5,010.37	0.58	0.32	0.48
8,260.00	90.90	179.10	3,503.29	-5,133.36	6.24	5,133.36	0.62	0.57	-0.24
8,367.00	89.50	178.00	3,502.92	-5,240.32	8.95	5,240.33	1.66	-1.31	-1.03
8,491.00	89.80	178.70	3,503.68	-5,364.27	12.52	5,364.28	0.61	0.24	0.56



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Powell River Federal Com #1H
Project:	Chaves County	TVD Reference:	3920.2+16 @ 3936.20usft
Site:	Sec 14-T15S-R29E	MD Reference:	3920.2+16 @ 3936.20usft
Well:	Powell River 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)
8,615.00	89.80	179.10	3,504.11	-5,488.24	14.90	5,488.26	0.32	0.00	0.32
8,739.00	90.20	179.60	3,504.11	-5,612.23	16.30	5,612.25	0.52	0.32	0.40
8,863.00	90.70	179.90	3,503.14	-5,736.23	16.85	5,736.25	0.47	0.40	0.24
8,969.00	91.20	180.20	3,501.38	-5,842.21	16.75	5,842.23	0.55	0.47	0.28
Last MWD Survey 8969 MD/3501.38 TVD -5842.21 S 16.75 E N: 725652.8 E: 645428.9									
9,025.00	91.20	180.20	3,500.21	-5,898.20	16.56	5,898.22	0.00	0.00	0.00
PTB 9025 MD/3500.21 TVD -5898.20 S 16.56 E N: 725596.8 E: 645428.7									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
318.00	317.97	-1.29	-3.90	1st MWD Survey
8,969.00	3,501.38	-5,842.21	16.75	Last MWD Survey 8969 MD/3501.38 TVD -5842.21 S 16.75 E N: 725652.8 E: 6
9,025.00	3,500.21	-5,898.20	16.56	PTB 9025 MD/3500.21 TVD -5898.20 S 16.56 E N: 725596.8 E: 645428.7

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. 30-005-64352
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Powell River Federal Com
8. Well Number 1H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3920' GR

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 P. O. Box 960 Artesia, NM 88211-0960	
4. Well Location Unit Letter <u>P</u> : <u>602</u> feet from the <u>South</u> line and <u>990</u> feet from the <u>East</u> line Section <u>14</u> Township <u>15S</u> Range <u>29E</u> NMPM County <u>Chaves</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3920' GR	

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

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

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

6/24/2021 Ran Cement Bong Log - TOC @ 1800' from surface
 6/3 - 6/15/2021 Perforated 3831' - 8917' w/ 648 holes. Frac w/ 3356 bbls 15% Acid HCL, 8355 SW,
 1056493 xlink, 430950# 100 Mesh, 717520# 30/50 WI, 3609020# 20/40 W, 684020# 20/40 SLC.
 RIH w/ 81 jts 3 1/2" J-55 tbg @ 2634.6' Sub 123M900 Stator @ 2667.78

Spud Date:

4/20/2021

Rig Release Date:

5/3/2021

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

SIGNATURE Delilah Flores TITLE Regulatory Technician I DATE 7/19/2021

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								1. WELL API NO. 30-005-64352		
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.		
5. Lease Name or Unit Agreement Name Powell River 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 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:	P	14	15S	29E		602	South	990	East	Chaves
BH:	P	23	15S	29E		2	South	993	East	Chaves
13. Date Spudded 4/20/2021	14. Date T.D. Reached 5/2/2021		15. Date Rig Released 5/3/2021			16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		
18. Total Measured Depth of Well 9025'			19. Plug Back Measured Depth 8976'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3831'-8917' 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#		252'		17 1/2"		417 sx		
9 5/8"		36#		1230'		12 1/4"		848 sx		
7" & 5 1/2"		26# & 17#		9025'		8 3/4"		1240 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 3831'-8917', .42, 648 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3831'-8917'		3356 bbls 15% Acid HCL, 8355 SW, 105649# xlink		
								4309050# 100 Mesh, 717520# 30/50 WI, 3609020#		
								20/40 W, 684020# 20/40 SLC		
28. PRODUCTION										
Date First Production 7/14/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Sub123 M900Stator				Well Status (Prod. or Shut-in) Producing				
Date of Test	Hours Tested 24 hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 91	Gas - MCF 46	Water - Bbl. 1620	Gas - Oil Ratio 4186			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 91	Gas - MCF 46	Water - Bbl. 1620	Oil Gravity - API - (Corr.) 34.7				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold								30. Test Witnessed By Robert Chase		
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date: 5/3/2021		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Delilah Flores</i>			Printed Name Delilah Flores		Title Regulatory Technician I			Date 7/19/2021		
E-mail Address delilah@mec.com										

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

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy <u>270</u>	T. Canyon	T. Ojo Alamo	T. Penn A "
T. Salt <u>404</u>	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt <u>1010</u>	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates <u>1155</u>	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers <u>1395</u>	T. Devonian	T. Cliff House	T. Leadville
T. Queen <u>1882</u>	T. Silurian	T. Menefee	T. Madison
T. Grayburg <u>2270</u>	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres <u>2574</u>	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

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 37088

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 37088
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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

CONDITIONS

Action 37088

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 37088
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/21/2021