

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 NW	
⁴ API Number 30 - 0 05-64351	⁵ Pool Name Round Tank; San Andres		⁶ Pool Code 52770
⁷ Property Code 322158	⁸ Property Name Duncan State Com		⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	36	15S	28E		1980	North	990	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
L	24	15S	28E		1318	South	988	West	Chaves
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/1/2021	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
278471	Holly Marketing & Refining Co. LLC P.O. Box 1600 Artesia, NM 88211-1600	O
036788	DCP Midstream 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

²¹ Spud Date 5/6/2021	²² Ready Date 10/1/2021	²³ TD 11,156' / 2892' TVD	²⁴ PBTD 11,106' / 2893' TVD	²⁵ Perforations 3330'-11050' 2924' - 2893' TVD	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	504'		550 sx
12 1/4"		9 5/8'	1500'		600 sx
8 3/4"		5 1/2 & 7'	11,156'		1590 sx

V. Well Test Data

³¹ Date New Oil 10/7/2021	³² Gas Delivery Date 10/1/2021	³³ Test Date 10/8/2021	³⁴ Test Length 24 hrs.	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 96	³⁹ Water 1219	⁴⁰ Gas 43		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: John Garcia		
Title: Regulatory Technician I			Title: Engineer		
E-mail Address: delilah@mec.com			Approval Date: 1/6/23		
Date: 10/11/2021		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 30-005-64351	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code	⁵ Property Name DUNCAN STATE COM	⁶ Well Number 2H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3582.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	36	15S	28E		1980	NORTH	990	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
L	24	15S	28E		1319	SOUTH	1075	WEST	CHAVES

¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Delilah Flores</u> 10/11/2021 Signature Date <u>Delilah Flores</u> Printed Name <u>delilah@mec.com</u> 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. SEPTEMBER 8, 2021 Date of Survey <u>[Signature]</u> Signature and Seal of Professional Surveyor Certificate Number: <u>12797</u> SURVEY NO. 7966A
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Intent ☐ As Drilled ☒

API # 30-005-64351		
Operator Name: MACK ENERGY CORPORATION	Property Name: DUNCAN STATE COM	Well Number 2H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	36	15S	28E		1998	NORTH	1000	WEST	CHAVES
Latitude 32.9742325					Longitude 104.0905642				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	36	15S	28E		1226	NORTH	1001	WEST	CHAVES
Latitude 32.9763547					Longitude 104.0905674				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	24	15S	28E		1213	SOUTH	1075	WEST	CHAVES
Latitude 32.9975677					Longitude 104.0903903				NAD 83

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

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

PLAN VIEW

BOTTOM OF HOLE
11156 MD
1319' FSL, 1075' FWL

SEC. 24
T16S, R28E

LAST TAKE POINT
11050 MD
1213' FSL, 1075' FWL

AS-DRILLED
WELLPATH

SEC. 25
T16S, R28E

FIRST TAKE POINT
3330 MD
1226' FNL, 1001' FWL

SURFACE LOCATION
0 MD

1980' FNL, 990' FWL

KICK OFF POINT

2141 MD
1998' FNL, 1000' FWL

MAC K ENERGY CORPORATION
DUNCAN STATE COM 2H

SEC. 36
T16S, R28E

TAKE POINT MD LOCATIONS
SECTION 36, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.

CHAVES COUNTY, STATE OF NEW MEXICO



NOT TO SCALE

SEPTEMBER 8, 2021

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

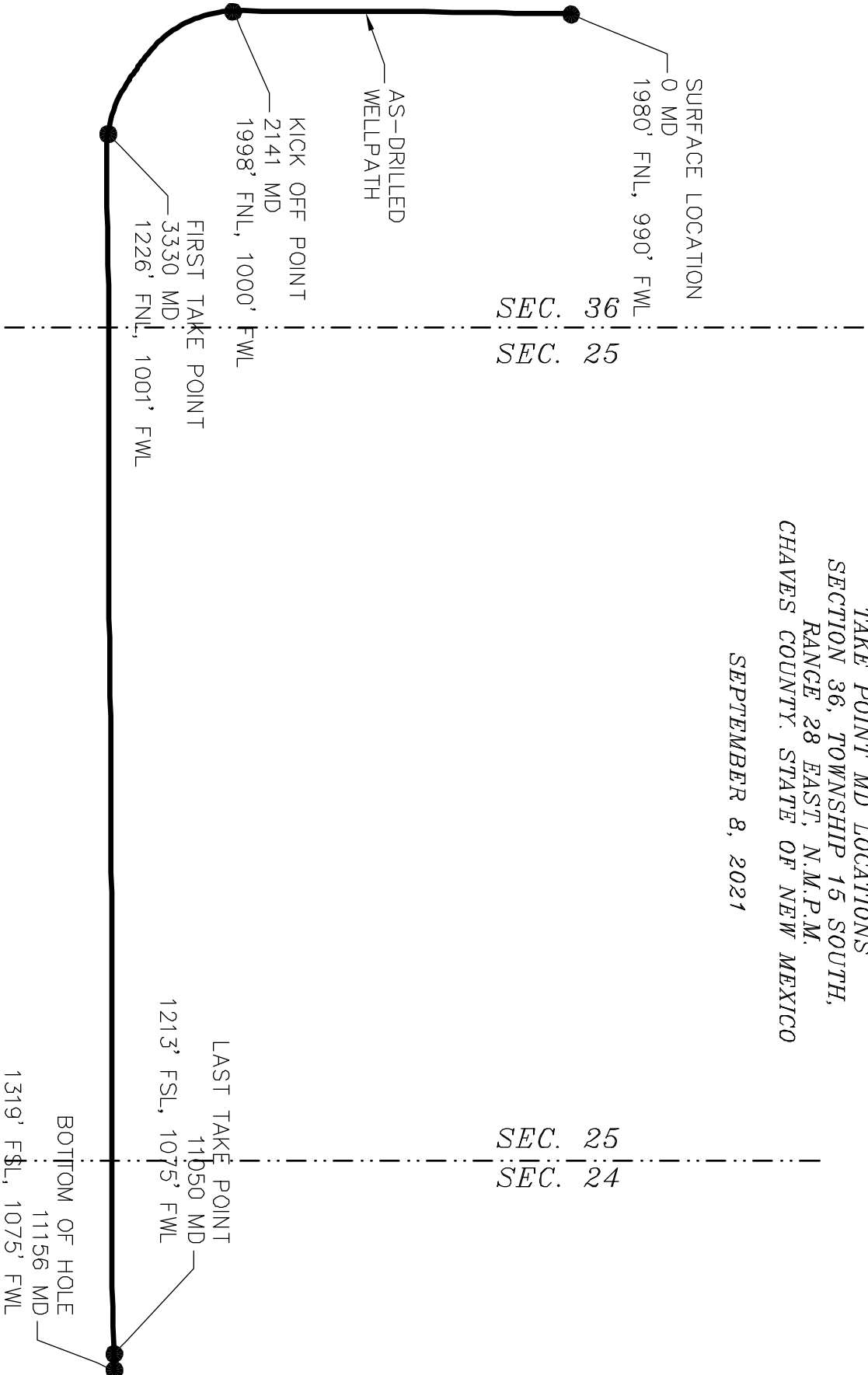
CARLSBAD, NEW MEXICO

SHEET: 1-2
SURVEY NO. 7966A

PROFILE VIEW

MACK ENERGY CORPORATION
DUNCAN STATE COM 2H
TAKE POINT MD LOCATIONS
SECTION 36, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

SEPTEMBER 8, 2021



NOT TO SCALE

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-5341

SHEET: 2-2 SURVEY NO. 79664



Mack Energy

Chaves County

Sec 36-T15S-R28E

Duncan State Com #2H

Wellbore #1

Survey: Survey #2

Standard Survey Report

20 May, 2021





Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Duncan State Com #2H
Project:	Chaves County	TVD Reference:	3582.7+16 @ 3598.70usft
Site:	Sec 36-T15S-R28E	MD Reference:	3582.7+16 @ 3598.70usft
Well:	Duncan State Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Project	Chaves County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 36-T15S-R28E			
Site Position:		Northing:	718,265.41 usft	Latitude:	32.974282
From:	Map	Easting:	615,776.50 usft	Longitude:	-104.090597
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well		Duncan State Com #2H				
Well Position	+N/-S	0.00 usft	Northing:	718,265.41 usft	Latitude:	32.974282
	+E/-W	0.00 usft	Easting:	615,776.50 usft	Longitude:	-104.090597
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,582.70 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/06/21	6.83	60.61	47,923.03997435

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	359.72	

Survey Program	Date	05/20/21			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
164.00	468.00	Inviticus (Wellbore #1)	MWD	MWD - Standard	
564.00	11,156.00	Survey #2 (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)	
468.00	1.50	176.88	467.94	-6.40	-2.93	-6.38	0.00	0.00	0.00	
564.00	1.20	180.50	563.91	-8.66	-2.87	-8.64	0.32	-0.31	3.77	
1st MWD Survey										
748.00	0.80	181.90	747.88	-11.87	-2.93	-11.85	0.22	-0.22	0.76	
933.00	0.30	175.90	932.87	-13.64	-2.94	-13.63	0.27	-0.27	-3.24	
1,057.00	0.40	60.00	1,056.87	-13.75	-2.54	-13.74	0.48	0.08	-93.47	
1,181.00	0.40	55.50	1,180.87	-13.29	-1.81	-13.28	0.03	0.00	-3.63	
1,304.00	0.90	94.00	1,303.86	-13.11	-0.49	-13.11	0.52	0.41	31.30	
1,429.00	0.60	97.40	1,428.85	-13.27	1.14	-13.27	0.24	-0.24	2.72	
1,464.00	0.70	86.00	1,463.85	-13.27	1.54	-13.28	0.47	0.29	-32.57	



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Duncan State Com #2H
Project:	Chaves County	TVD Reference:	3582.7+16 @ 3598.70usft
Site:	Sec 36-T15S-R28E	MD Reference:	3582.7+16 @ 3598.70usft
Well:	Duncan State Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,584.00	1.10	112.60	1,583.83	-13.67	3.33	-13.68	0.47	0.33	22.17	
1,707.00	1.10	131.60	1,706.81	-14.90	5.30	-14.93	0.30	0.00	15.45	
1,831.00	1.00	130.00	1,830.79	-16.39	7.02	-16.42	0.08	-0.08	-1.29	
1,955.00	0.80	129.20	1,954.77	-17.63	8.52	-17.67	0.16	-0.16	-0.65	
2,079.00	0.70	155.20	2,078.76	-18.87	9.51	-18.91	0.28	-0.08	20.97	
2,141.00	2.40	16.50	2,140.75	-17.97	10.04	-18.01	4.78	2.74	-223.71	
2,173.00	4.30	10.60	2,172.69	-16.14	10.45	-16.19	6.03	5.94	-18.44	
2,204.00	6.60	6.90	2,203.55	-13.23	10.88	-13.28	7.50	7.42	-11.94	
2,234.00	9.60	3.40	2,233.25	-9.02	11.23	-9.08	10.13	10.00	-11.67	
2,265.00	12.00	3.20	2,263.70	-3.22	11.57	-3.28	7.74	7.74	-0.65	
2,296.00	14.60	2.20	2,293.86	3.90	11.90	3.84	8.42	8.39	-3.23	
2,327.00	17.00	0.10	2,323.69	12.34	12.05	12.28	7.96	7.74	-6.77	
2,358.00	19.50	357.10	2,353.13	22.04	11.80	21.98	8.61	8.06	-9.68	
2,388.00	21.70	356.00	2,381.21	32.57	11.16	32.52	7.45	7.33	-3.67	
2,419.00	24.00	356.20	2,409.77	44.58	10.34	44.53	7.42	7.42	0.65	
2,450.00	26.60	357.30	2,437.80	57.81	9.60	57.76	8.52	8.39	3.55	
2,481.00	29.10	358.40	2,465.21	72.28	9.06	72.23	8.23	8.06	3.55	
2,512.00	31.10	359.60	2,492.02	87.82	8.79	87.78	6.74	6.45	3.87	
2,543.00	34.00	359.30	2,518.15	104.50	8.63	104.45	9.37	9.35	-0.97	
2,574.00	37.00	359.00	2,543.39	122.49	8.36	122.45	9.69	9.68	-0.97	
2,605.00	39.70	358.40	2,567.70	141.72	7.92	141.68	8.79	8.71	-1.94	
2,636.00	41.80	358.30	2,591.18	161.95	7.34	161.91	6.78	6.77	-0.32	
2,667.00	43.80	358.80	2,613.92	183.00	6.81	182.97	6.54	6.45	1.61	
2,698.00	46.10	359.20	2,635.86	204.90	6.43	204.87	7.48	7.42	1.29	
2,729.00	48.70	359.70	2,656.84	227.71	6.21	227.68	8.47	8.39	1.61	
2,760.00	51.10	0.00	2,676.81	251.43	6.15	251.39	7.78	7.74	0.97	
2,790.00	52.70	0.00	2,695.32	275.03	6.15	275.00	5.33	5.33	0.00	
2,800.00	52.90	0.00	2,701.37	283.00	6.15	282.97	2.00	2.00	0.00	
2,810.00	53.10	359.90	2,707.38	290.98	6.14	290.95	2.15	2.00	-1.00	
2,821.00	53.30	359.90	2,713.97	299.79	6.13	299.76	1.82	1.82	0.00	
2,831.00	53.70	0.10	2,719.92	307.83	6.13	307.80	4.31	4.00	2.00	
2,841.00	53.90	0.10	2,725.83	315.90	6.14	315.87	2.00	2.00	0.00	
2,852.00	54.10	0.10	2,732.29	324.80	6.16	324.77	1.82	1.82	0.00	
2,862.00	54.30	0.00	2,738.14	332.91	6.16	332.88	2.16	2.00	-1.00	
2,872.00	54.60	0.10	2,743.96	341.05	6.17	341.01	3.11	3.00	1.00	
2,883.00	54.70	359.90	2,750.32	350.02	6.17	349.98	1.74	0.91	-1.82	
2,893.00	54.80	359.80	2,756.09	358.18	6.15	358.15	1.29	1.00	-1.00	
2,903.00	55.10	359.80	2,761.84	366.37	6.12	366.34	3.00	3.00	0.00	
2,914.00	55.30	359.70	2,768.11	375.40	6.08	375.37	1.97	1.82	-0.91	
2,924.00	55.60	359.60	2,773.78	383.64	6.03	383.61	3.11	3.00	-1.00	
2,934.00	55.80	359.60	2,779.42	391.90	5.97	391.87	2.00	2.00	0.00	
2,944.00	55.90	359.70	2,785.03	400.18	5.92	400.14	1.30	1.00	1.00	
2,954.00	56.30	359.50	2,790.61	408.48	5.87	408.44	4.33	4.00	-2.00	



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Duncan State Com #2H
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Well:	Duncan State Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,964.00	56.80	359.40	2,796.12	416.82	5.79	416.79	5.07	5.00	-1.00	
2,975.00	57.50	359.50	2,802.09	426.06	5.70	426.03	6.41	6.36	0.91	
2,994.00	58.50	359.70	2,812.16	442.17	5.58	442.14	5.34	5.26	1.05	
3,025.00	59.60	0.10	2,828.10	468.76	5.54	468.73	3.72	3.55	1.29	
3,056.00	61.30	0.60	2,843.39	495.72	5.70	495.69	5.66	5.48	1.61	
3,087.00	62.70	0.60	2,857.94	523.09	5.99	523.06	4.52	4.52	0.00	
3,117.00	65.20	1.20	2,871.12	550.04	6.42	550.00	8.52	8.33	2.00	
3,148.00	68.10	1.40	2,883.40	578.49	7.06	578.45	9.37	9.35	0.65	
3,179.00	71.40	1.40	2,894.13	607.56	7.77	607.52	10.65	10.65	0.00	
3,210.00	74.00	359.90	2,903.35	637.15	8.10	637.11	9.58	8.39	-4.84	
3,241.00	76.10	359.50	2,911.34	667.10	7.95	667.06	6.89	6.77	-1.29	
3,272.00	77.60	359.20	2,918.40	697.29	7.60	697.24	4.93	4.84	-0.97	
3,303.00	78.30	359.80	2,924.87	727.60	7.34	727.56	2.95	2.26	1.94	
3,334.00	80.90	359.90	2,930.46	758.09	7.26	758.05	8.39	8.39	0.32	
3,365.00	83.80	0.10	2,934.59	788.81	7.26	788.77	9.38	9.35	0.65	
3,396.00	87.00	0.30	2,937.08	819.71	7.37	819.66	10.34	10.32	0.65	
3,427.00	89.40	359.80	2,938.05	850.69	7.40	850.64	7.91	7.74	-1.61	
3,551.00	90.30	359.50	2,938.37	974.69	6.64	974.64	0.77	0.73	-0.24	
3,675.00	90.80	359.50	2,937.18	1,098.67	5.56	1,098.63	0.40	0.40	0.00	
3,798.00	91.10	359.70	2,935.15	1,221.65	4.70	1,221.62	0.29	0.24	0.16	
3,922.00	91.30	0.20	2,932.55	1,345.63	4.59	1,345.59	0.43	0.16	0.40	
4,045.00	90.90	358.60	2,930.19	1,468.59	3.30	1,468.56	1.34	-0.33	-1.30	
4,169.00	91.10	359.10	2,928.02	1,592.55	0.81	1,592.53	0.43	0.16	0.40	
4,293.00	90.60	357.60	2,926.18	1,716.48	-2.76	1,716.47	1.27	-0.40	-1.21	
4,417.00	91.20	357.80	2,924.24	1,840.36	-7.73	1,840.38	0.51	0.48	0.16	
4,540.00	90.00	357.60	2,922.95	1,963.26	-12.67	1,963.29	0.99	-0.98	-0.16	
4,663.00	89.40	358.30	2,923.59	2,086.17	-17.07	2,086.23	0.75	-0.49	0.57	
4,787.00	89.50	358.60	2,924.78	2,210.12	-20.42	2,210.20	0.26	0.08	0.24	
4,911.00	90.10	358.60	2,925.21	2,334.08	-23.45	2,334.17	0.48	0.48	0.00	
5,035.00	90.80	359.50	2,924.24	2,458.06	-25.51	2,458.16	0.92	0.56	0.73	
5,158.00	91.10	359.80	2,922.20	2,581.04	-26.26	2,581.14	0.34	0.24	0.24	
5,283.00	89.70	359.80	2,921.33	2,706.03	-26.69	2,706.13	1.12	-1.12	0.00	
5,406.00	90.00	0.80	2,921.65	2,829.03	-26.05	2,829.12	0.85	0.24	0.81	
5,530.00	90.20	1.60	2,921.43	2,953.00	-23.45	2,953.08	0.67	0.16	0.65	
5,654.00	89.80	2.10	2,921.43	3,076.94	-19.45	3,077.00	0.52	-0.32	0.40	
5,778.00	89.60	359.80	2,922.08	3,200.91	-17.40	3,200.96	1.86	-0.16	-1.85	
5,902.00	90.20	0.10	2,922.30	3,324.91	-17.50	3,324.96	0.54	0.48	0.24	
6,026.00	90.00	0.10	2,922.08	3,448.91	-17.29	3,448.95	0.16	-0.16	0.00	
6,150.00	89.90	0.50	2,922.19	3,572.91	-16.64	3,572.95	0.33	-0.08	0.32	
6,274.00	90.00	1.00	2,922.30	3,696.90	-15.01	3,696.93	0.41	0.08	0.40	
6,398.00	90.60	359.80	2,921.65	3,820.89	-14.15	3,820.91	1.08	0.48	-0.97	
6,522.00	90.40	0.50	2,920.57	3,944.88	-13.82	3,944.90	0.59	-0.16	0.56	
6,646.00	90.40	0.90	2,919.70	4,068.87	-12.31	4,068.88	0.32	0.00	0.32	



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Duncan State Com #2H
Project:	Chaves County	TVD Reference:	3582.7+16 @ 3598.70usft
Site:	Sec 36-T15S-R28E	MD Reference:	3582.7+16 @ 3598.70usft
Well:	Duncan State Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,769.00	91.10	358.30	2,918.09	4,191.84	-13.17	4,191.86	2.19	0.57	-2.11	
6,893.00	91.00	358.60	2,915.82	4,315.78	-16.52	4,315.81	0.25	-0.08	0.24	
7,017.00	91.10	359.20	2,913.55	4,439.73	-18.90	4,439.77	0.49	0.08	0.48	
7,140.00	89.90	358.10	2,912.47	4,562.69	-21.80	4,562.74	1.32	-0.98	-0.89	
7,265.00	90.20	358.50	2,912.37	4,687.64	-25.51	4,687.70	0.40	0.24	0.32	
7,388.00	90.30	359.00	2,911.83	4,810.61	-28.19	4,810.69	0.41	0.08	0.41	
7,512.00	90.30	359.40	2,911.18	4,934.59	-29.92	4,934.68	0.32	0.00	0.32	
7,636.00	90.10	359.50	2,910.75	5,058.58	-31.11	5,058.68	0.18	-0.16	0.08	
7,760.00	90.30	359.80	2,910.31	5,182.58	-31.87	5,182.67	0.29	0.16	0.24	
7,884.00	90.60	359.90	2,909.34	5,306.58	-32.19	5,306.67	0.26	0.24	0.08	
8,007.00	90.80	0.10	2,907.84	5,429.57	-32.19	5,429.66	0.23	0.16	0.16	
8,131.00	90.90	0.60	2,906.00	5,553.55	-31.44	5,553.64	0.41	0.08	0.40	
8,255.00	91.10	0.80	2,903.83	5,677.52	-29.92	5,677.60	0.23	0.16	0.16	
8,379.00	90.40	359.90	2,902.21	5,801.51	-29.16	5,801.58	0.92	-0.56	-0.73	
8,503.00	89.50	359.10	2,902.32	5,925.50	-30.25	5,925.58	0.97	-0.73	-0.65	
8,626.00	89.90	359.60	2,902.96	6,048.49	-31.64	6,048.57	0.52	0.33	0.41	
8,750.00	90.30	359.80	2,902.75	6,172.49	-32.29	6,172.57	0.36	0.32	0.16	
8,874.00	89.60	359.10	2,902.85	6,296.48	-33.48	6,296.57	0.80	-0.56	-0.56	
8,998.00	90.30	0.00	2,902.96	6,420.48	-34.46	6,420.57	0.92	0.56	0.73	
9,121.00	89.20	359.20	2,903.50	6,543.47	-35.31	6,543.56	1.11	-0.89	-0.65	
9,245.00	89.40	359.30	2,905.01	6,667.45	-36.94	6,667.55	0.18	0.16	0.08	
9,369.00	89.70	359.60	2,905.99	6,791.44	-38.13	6,791.54	0.34	0.24	0.24	
9,492.00	90.00	0.10	2,906.31	6,914.44	-38.45	6,914.54	0.47	0.24	0.41	
9,615.00	90.40	0.80	2,905.88	7,037.43	-37.48	7,037.53	0.66	0.33	0.57	
9,739.00	90.50	1.10	2,904.91	7,161.41	-35.43	7,161.50	0.26	0.08	0.24	
9,864.00	90.60	0.20	2,903.71	7,286.40	-34.01	7,286.47	0.72	0.08	-0.72	
9,990.00	90.80	0.50	2,902.17	7,412.38	-33.24	7,412.46	0.29	0.16	0.24	
10,117.00	89.60	359.10	2,901.72	7,539.38	-33.68	7,539.45	1.45	-0.94	-1.10	
10,244.00	89.30	358.90	2,902.94	7,666.35	-35.90	7,666.43	0.28	-0.24	-0.16	
10,371.00	89.20	359.30	2,904.61	7,793.32	-37.89	7,793.42	0.32	-0.08	0.31	
10,497.00	90.20	358.70	2,905.27	7,919.30	-40.09	7,919.40	0.93	0.79	-0.48	
10,625.00	91.20	359.10	2,903.70	8,047.27	-42.55	8,047.38	0.84	0.78	0.31	
10,751.00	91.30	359.40	2,900.95	8,173.23	-44.20	8,173.34	0.25	0.08	0.24	
10,878.00	92.00	0.30	2,897.30	8,300.17	-44.53	8,300.29	0.90	0.55	0.71	
11,006.00	90.50	0.20	2,894.50	8,428.13	-43.97	8,428.25	1.17	-1.17	-0.08	
11,097.00	91.00	0.40	2,893.31	8,519.13	-43.50	8,519.24	0.59	0.55	0.22	
Last MWD Survey 11097 MD/2893.31 TVD 8519.12 N -43.50 W N: 726784.5 E: 615733.0										
11,156.00	91.00	0.40	2,892.28	8,578.11	-43.09	8,578.22	0.00	0.00	0.00	
PTB 11156 MD/2892.28 TVD 8578.11 N -43.09 W N: 726843.5 E: 615733.4										



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Duncan State Com #2H
Project:	Chaves County	TVD Reference:	3582.7+16 @ 3598.70usft
Site:	Sec 36-T15S-R28E	MD Reference:	3582.7+16 @ 3598.70usft
Well:	Duncan State Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
564.00	563.91	-8.66	-2.87	1st MWD Survey
11,097.00	2,893.31	8,519.13	-43.50	Last MWD Survey 11097 MD/2893.31 TVD 8519.12 N -43.50 W N: 726784.5 E:
11,156.00	2,892.28	8,578.11	-43.09	PTB 11156 MD/2892.28 TVD 8578.11 N -43.09 W N: 726843.5 E: 615733.4

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. 30-005-64351
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Duncan State Com
8. Well Number 2H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3576' 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>E</u> : <u>1980</u> feet from the <u>North</u> line and <u>990</u> feet from the <u>West</u> line Section <u>36</u> Township <u>15S</u> Range <u>28E</u> NMPM County <u>Chaves</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3576' 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.

7/14/2021 - 8/18/2021 Perforated 3330' - 11050' w/ 978 holes. Frac w/ 4058.6 bbls 15% Acid, 12,167.1 SW, 152,959.9 bbls 20# xlink, 680,360# 100 Mesh, 1,135,140# 30/50 AZ, 5,607,260# 20/40 AZ, 1,015,300 # 20/40 RC.
 RIH w/62 jts of 3 1/2" J-55 tbg @ 2042', 123M1200 Stator @2090'.

Spud Date:

5/6/2021

Rig Release Date:

5/21/2021

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 10/11/2021

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																		
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 Duncan State Com 6. Well Number: 2H												
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 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:	E	36	15S	28E		1980	North	990	West	Chaves								
BH:	L	24	15S	28E		1318	South	988	West	Chaves								
13. Date Spudded 5/6/2021	14. Date T.D. Reached 5/19/2021		15. Date Rig Released 5/21/2021			16. Date Completed (Ready to Produce) 10/1/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3576' GR										
18. Total Measured Depth of Well 11,156'			19. Plug Back Measured Depth 11,106'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted										
22. Producing Interval(s), of this completion - Top, Bottom, Name 3330'-11050' 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#		504'		17 1/2"		550 sx										
9 5/8"		36#		1500'		12 1/4"		600 sx										
5 1/2" & 7"		17# & 26#		11,156'		8 3/4"		1590 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) 3330'-11050', .42, 978 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>3330'-11050'</td> <td>4058.6 bbls 15% Acid, 12,167.1 SW, 152,959.9 bbls</td> </tr> <tr> <td></td> <td>20# xlink, 680,360# 100 Mesh, 1,135,140# 30/50 AZ,</td> </tr> <tr> <td></td> <td>5,607,260# 20/40 AZ, 1,015,300# 20/40 RC</td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	3330'-11050'	4058.6 bbls 15% Acid, 12,167.1 SW, 152,959.9 bbls		20# xlink, 680,360# 100 Mesh, 1,135,140# 30/50 AZ,		5,607,260# 20/40 AZ, 1,015,300# 20/40 RC
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
3330'-11050'	4058.6 bbls 15% Acid, 12,167.1 SW, 152,959.9 bbls																	
	20# xlink, 680,360# 100 Mesh, 1,135,140# 30/50 AZ,																	
	5,607,260# 20/40 AZ, 1,015,300# 20/40 RC																	
28. PRODUCTION																		
Date First Production 10/1/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 123M1200 Stator				Well Status (Prod. or Shut-in) Producing												
Date of Test 10/8/2021	Hours Tested 24 hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 96	Gas - MCF 43	Water - Bbl. 1219		Gas - Oil Ratio 4128										
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 96	Gas - MCF 43	Water - Bbl. 1219		Oil Gravity - API - (Corr.) 35.7											
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:										
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 10/11/2021										
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	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 575'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 800'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1297'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1701'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 2034'	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 157022

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 157022
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 157022

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 157022
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	1/6/2023