

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 8811-0960		² OGRID Number 013837
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 005-64382	⁵ Pool Name Round Tank; San Andres	⁶ Pool Code 52770
⁷ Property Code 322478	⁸ Property Name Cranbrook 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
J	36	15S	28E		1770	South	1650	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
G	25	15S	28E		1324	North	1646	East	Chaves
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3/27/2024	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 2/17/2024	²² Ready Date 3/27/2024	²³ TD 9968' /TVD 2975'	²⁴ PBTD 9943'/ TVD 2975'	²⁵ Perforations 3286' - 9880' TVD 2950' - 2975'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	290'	350 sx		
12 1/4"	9 5/8"	1498'	535 sx		
8 3/4"	7" & 5 1/2"	9968'	2345 sx		

V. Well Test Data

³¹ Date New Oil 4/8/2024	³² Gas Delivery Date 4/7/2024	³³ Test Date 4/8/2024	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 98	³⁹ Water 1070	⁴⁰ Gas 25		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: PATRICIA MARTINEZ		
Title: Regulatory Technician I			Title: PETROLEUM SPECIALIST		
E-mail Address: delilah@mec.com			Approval Date: 5/22/2024		
Date: 4/11/2024		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 30-005-64382	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 322478	⁵ Property Name CRANBROOK STATE COM	
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	
		⁶ Well Number 2H
		⁹ Elevation 3609.6

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
J	36	15 S	28 E		1770	SOUTH	1650	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
G	25	15 S	28 E		1324	NORTH	1646	EAST	CHAVES

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
240			

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.

	CRANBROOK STATE COM 2H EL. = 3609.6 GEODETTIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION N. = 716810.13 E. = 618420.10 LAT. = 32.9702650°N LONG. = 104.0819878°W KICK OFF POINT 1792' FSL, 1660' FEL N. = 716832.66 E. = 618410.22 LAT. = 32.9703270°N LONG. = 104.0820198°W FIRST TAKE POINT (PPP 1) 2461' FSL, 1650' FEL N. = 717501.30 E. = 618413.37 LAT. = 32.9721648°N LONG. = 104.0820043°W LAST TAKE POINT 1781' FSL, 1653' FEL N. = 723722.84 E. = 618399.41 LAT. = 32.9892650°N LONG. = 104.0820014°W BOTTOM OF HOLE 1324' FSL, 1646' FEL N. = 724179.71 E. = 618399.06 LAT. = 32.9905208°N LONG. = 104.0819990°W PPP 2 2605' FSL, 1647' FEL N. = 717645.00 E. = 618414.79 LAT. = 32.9725597°N LONG. = 104.0819986°W PPP 3 0' FSL, 1626' FEL N. = 720254.28 E. = 618409.12 LAT. = 32.9797315°N LONG. = 104.0819967°W PPP 4 2630' FSL, 1664' FEL N. = 722883.10 E. = 618399.71 LAT. = 32.9869570°N LONG. = 104.0820069°W CORNER COORDINATES TABLE NAD 83 NMSP EAST <table border="1"> <tr><td>A - N. = 725530.56</td><td>E. = 614752.22</td></tr> <tr><td>B - N. = 725510.60</td><td>E. = 617389.06</td></tr> <tr><td>C - N. = 725490.64</td><td>E. = 620025.90</td></tr> <tr><td>D - N. = 722892.47</td><td>E. = 620063.79</td></tr> <tr><td>E - N. = 720257.54</td><td>E. = 620034.47</td></tr> <tr><td>F - N. = 717646.76</td><td>E. = 620061.21</td></tr> <tr><td>G - N. = 715035.98</td><td>E. = 620087.96</td></tr> <tr><td>H - N. = 715043.31</td><td>E. = 617442.63</td></tr> <tr><td>I - N. = 715038.00</td><td>E. = 614803.13</td></tr> <tr><td>J - N. = 717641.13</td><td>E. = 614789.47</td></tr> <tr><td>K - N. = 720240.47</td><td>E. = 614777.92</td></tr> <tr><td>L - N. = 722885.75</td><td>E. = 614763.15</td></tr> <tr><td>M - N. = 720252.26</td><td>E. = 617405.42</td></tr> </table> LEGEND --- SECTION LINE --- QUARTER LINE --- LEASE LINE --- WELL PATH	A - N. = 725530.56	E. = 614752.22	B - N. = 725510.60	E. = 617389.06	C - N. = 725490.64	E. = 620025.90	D - N. = 722892.47	E. = 620063.79	E - N. = 720257.54	E. = 620034.47	F - N. = 717646.76	E. = 620061.21	G - N. = 715035.98	E. = 620087.96	H - N. = 715043.31	E. = 617442.63	I - N. = 715038.00	E. = 614803.13	J - N. = 717641.13	E. = 614789.47	K - N. = 720240.47	E. = 614777.92	L - N. = 722885.75	E. = 614763.15	M - N. = 720252.26	E. = 617405.42	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> 4/2/2024 Signature _____ Date _____ Delilah Flores Printed Name _____ delilah@mec.com E-mail Address _____
	A - N. = 725530.56	E. = 614752.22																										
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M - N. = 720252.26	E. = 617405.42																											
	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. MARCH 29, 2024 Date of Survey _____ Signature and Seal of Professional Surveyor: Certificate Number: LS 12797																											

Intent ☐ As Drilled ☒

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: CRANBROOK STATE COM	Well Number 2H

Kick Off Point (KOP)

UL J	Section 36	Township 15S	Range 28E	Lot	Feet 1792	From N/S SOUTH	Feet 1660	From E/W EAST	County CHAVES
Latitude 32.9703270					Longitude 104.0820198				NAD 83

First Take Point (FTP)

UL J	Section 36	Township 15S	Range 28E	Lot	Feet 2461	From N/S SOUTH	Feet 1650	From E/W EAST	County CHAVES
Latitude 32.9721648					Longitude 104.0820043				NAD 83

Last Take Point (LTP)

UL G	Section 25	Township 15S	Range 28E	Lot	Feet 1781	From N/S NORTH	Feet 1653	From E/W EAST	County CHAVES
Latitude 32.9892650					Longitude 104.0820014				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 36-T15S-R28E

Cranbrook State Com 2H

Wellbore #1

Survey: Survey #1

Standard Survey Report

29 February, 2024



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com 2H
Project:	Chaves County	TVD Reference:	3609.6+17.5 @ 3627.10usft
Site:	Sec 36-T15S-R28E	MD Reference:	3609.6+17.5 @ 3627.10usft
Well:	Cranbrook 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	Cranbrook State Com 2H					
Well Position	+N/-S	0.00 usft	Northing:	716,810.13 usft	Latitude:	32.970265
	+E/-W	0.00 usft	Easting:	618,420.10 usft	Longitude:	-104.081988
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,609.60 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/04/24	6.53	60.57	47,636.75693589

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	359.81	

Survey Program	Date	02/29/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.00	9,968.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
181.00	0.50	331.00	181.00	0.69	-0.38	0.69	0.28	0.28	0.00	
1st MWD Survey										
290.00	1.70	336.00	289.98	2.58	-1.27	2.59	1.10	1.10	4.59	
371.00	1.60	355.50	370.94	4.81	-1.85	4.81	0.70	-0.12	24.07	
462.00	1.80	357.70	461.90	7.50	-2.01	7.51	0.23	0.22	2.42	
552.00	2.00	3.90	551.85	10.48	-1.96	10.49	0.32	0.22	6.89	
643.00	1.80	4.80	642.80	13.49	-1.73	13.50	0.22	-0.22	0.99	
735.00	1.90	1.20	734.76	16.46	-1.58	16.46	0.17	0.11	-3.91	
824.00	2.00	9.39	823.70	19.46	-1.29	19.47	0.33	0.11	9.20	
914.00	2.20	5.39	913.64	22.73	-0.87	22.73	0.28	0.22	-4.44	

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com 2H
Project:	Chaves County	TVD Reference:	3609.6+17.5 @ 3627.10usft
Site:	Sec 36-T15S-R28E	MD Reference:	3609.6+17.5 @ 3627.10usft
Well:	Cranbrook 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)
1,018.00	1.30	337.39	1,017.60	25.81	-1.14	25.81	1.17	-0.87	-26.92
1,203.00	0.70	296.39	1,202.57	28.25	-2.96	28.26	0.49	-0.32	-22.16
1,261.00	0.80	320.39	1,260.56	28.72	-3.53	28.73	0.56	0.17	41.38
1,424.00	0.40	345.39	1,423.55	30.14	-4.40	30.16	0.29	-0.25	15.34
1,545.00	0.60	286.80	1,544.55	30.74	-5.12	30.75	0.43	0.17	-48.42
1,636.00	1.50	192.20	1,635.54	29.71	-5.82	29.73	1.82	0.99	-103.96
1,726.00	1.90	191.50	1,725.50	27.10	-6.37	27.12	0.45	0.44	-0.78
1,817.00	1.80	197.70	1,816.45	24.26	-7.10	24.28	0.25	-0.11	6.81
1,907.00	1.60	200.90	1,906.41	21.74	-7.98	21.76	0.25	-0.22	3.56
1,999.00	1.60	204.80	1,998.38	19.37	-8.98	19.40	0.12	0.00	4.24
2,090.00	0.40	274.70	2,089.36	18.24	-9.83	18.28	1.66	-1.32	76.81
2,185.00	2.00	0.90	2,184.34	19.93	-10.13	19.96	2.12	1.68	90.74
2,232.00	4.40	7.70	2,231.27	22.54	-9.88	22.57	5.16	5.11	14.47
2,280.00	7.40	7.00	2,279.01	27.43	-9.26	27.46	6.25	6.25	-1.46
2,327.00	10.60	3.00	2,325.42	34.75	-8.66	34.78	6.93	6.81	-8.51
2,374.00	14.20	1.70	2,371.32	44.83	-8.26	44.86	7.68	7.66	-2.77
2,421.00	19.00	0.80	2,416.35	58.25	-7.98	58.28	10.23	10.21	-1.91
2,468.00	22.60	359.90	2,460.28	74.94	-7.89	74.97	7.69	7.66	-1.91
2,515.00	25.90	359.80	2,503.12	94.24	-7.95	94.27	7.02	7.02	-0.21
2,563.00	29.40	0.00	2,545.63	116.51	-7.98	116.54	7.29	7.29	0.42
2,610.00	33.10	0.70	2,585.81	140.89	-7.83	140.92	7.91	7.87	1.49
2,657.00	37.60	359.90	2,624.13	168.08	-7.69	168.10	9.62	9.57	-1.70
2,703.00	41.60	358.90	2,659.57	197.39	-8.01	197.42	8.81	8.70	-2.17
2,752.00	45.20	359.00	2,695.17	231.05	-8.63	231.07	7.35	7.35	0.20
2,806.00	50.60	0.20	2,731.36	271.10	-8.89	271.12	10.13	10.00	2.22
2,853.00	55.00	0.80	2,759.77	308.52	-8.56	308.55	9.42	9.36	1.28
2,868.00	55.30	0.70	2,768.34	320.83	-8.40	320.86	2.07	2.00	-0.67
2,898.00	55.80	0.60	2,785.31	345.57	-8.11	345.59	1.69	1.67	-0.33
2,928.00	56.10	0.40	2,802.11	370.42	-7.90	370.45	1.14	1.00	-0.67
2,958.00	56.70	359.60	2,818.71	395.41	-7.90	395.43	2.99	2.00	-2.67
2,988.00	57.10	359.40	2,835.09	420.54	-8.12	420.57	1.45	1.33	-0.67
3,018.00	57.50	359.10	2,851.30	445.78	-8.45	445.81	1.58	1.33	-1.00
3,038.00	57.80	359.70	2,862.00	462.68	-8.63	462.70	2.95	1.50	3.00
3,053.00	58.60	359.10	2,869.90	475.43	-8.76	475.45	6.32	5.33	-4.00
3,081.00	60.80	0.20	2,884.03	499.60	-8.90	499.63	8.56	7.86	3.93
3,129.00	65.10	0.60	2,905.85	542.34	-8.60	542.36	8.99	8.96	0.83
3,176.00	69.80	0.60	2,923.87	585.73	-8.15	585.75	10.00	10.00	0.00
3,223.00	73.20	0.80	2,938.78	630.29	-7.60	630.31	7.25	7.23	0.43
3,270.00	76.70	0.80	2,950.99	675.67	-6.97	675.69	7.45	7.45	0.00
3,318.00	80.70	0.90	2,960.39	722.72	-6.27	722.74	8.34	8.33	0.21
3,365.00	84.20	0.60	2,966.56	769.30	-5.66	769.32	7.47	7.45	-0.64
3,421.00	89.00	0.10	2,969.88	825.19	-5.32	825.20	8.62	8.57	-0.89
3,517.00	90.40	0.00	2,970.39	921.18	-5.24	921.19	1.46	1.46	-0.10

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com 2H
Project:	Chaves County	TVD Reference:	3609.6+17.5 @ 3627.10usft
Site:	Sec 36-T15S-R28E	MD Reference:	3609.6+17.5 @ 3627.10usft
Well:	Cranbrook 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)
3,611.00	90.90	359.70	2,969.32	1,015.18	-5.48	1,015.19	0.62	0.53	-0.32
3,706.00	89.90	359.90	2,968.66	1,110.17	-5.81	1,110.18	1.07	-1.05	0.21
3,801.00	90.50	359.40	2,968.33	1,205.17	-6.40	1,205.18	0.82	0.63	-0.53
3,895.00	89.30	359.90	2,968.49	1,299.16	-6.97	1,299.18	1.38	-1.28	0.53
3,989.00	89.90	359.70	2,969.15	1,393.16	-7.30	1,393.18	0.67	0.64	-0.21
4,084.00	90.60	359.50	2,968.73	1,488.16	-7.96	1,488.18	0.77	0.74	-0.21
4,179.00	89.30	359.60	2,968.81	1,583.15	-8.71	1,583.17	1.37	-1.37	0.11
4,273.00	89.90	359.30	2,969.47	1,677.14	-9.61	1,677.17	0.71	0.64	-0.32
4,368.00	90.50	359.50	2,969.14	1,772.14	-10.60	1,772.16	0.67	0.63	0.21
4,463.00	88.90	359.90	2,969.64	1,867.13	-11.10	1,867.16	1.74	-1.68	0.42
4,557.00	89.20	0.20	2,971.20	1,961.12	-11.02	1,961.15	0.45	0.32	0.32
4,651.00	89.70	0.30	2,972.10	2,055.11	-10.61	2,055.14	0.54	0.53	0.11
4,746.00	90.00	0.30	2,972.35	2,150.11	-10.11	2,150.13	0.32	0.32	0.00
4,841.00	90.30	0.60	2,972.10	2,245.11	-9.37	2,245.13	0.45	0.32	0.32
4,936.00	90.30	358.80	2,971.60	2,340.10	-9.86	2,340.12	1.89	0.00	-1.89
4,994.00	90.90	359.60	2,970.99	2,398.09	-10.67	2,398.11	1.72	1.03	1.38
5,089.00	90.00	359.10	2,970.25	2,493.08	-11.75	2,493.11	1.08	-0.95	-0.53
5,184.00	90.30	358.60	2,970.00	2,588.06	-13.66	2,588.09	0.61	0.32	-0.53
5,278.00	91.20	357.80	2,968.77	2,682.01	-16.61	2,682.05	1.28	0.96	-0.85
5,373.00	90.50	359.50	2,967.36	2,776.97	-18.85	2,777.01	1.94	-0.74	1.79
5,468.00	89.50	0.80	2,967.36	2,871.96	-18.60	2,872.01	1.73	-1.05	1.37
5,563.00	90.50	0.60	2,967.36	2,966.95	-17.44	2,967.00	1.07	1.05	-0.21
5,659.00	89.30	1.10	2,967.53	3,062.94	-16.01	3,062.98	1.35	-1.25	0.52
5,753.00	89.80	1.00	2,968.26	3,156.92	-14.29	3,156.95	0.54	0.53	-0.11
5,847.00	90.30	0.80	2,968.18	3,250.91	-12.81	3,250.93	0.57	0.53	-0.21
5,942.00	90.70	1.10	2,967.35	3,345.89	-11.24	3,345.91	0.53	0.42	0.32
6,037.00	89.20	359.20	2,967.44	3,440.89	-10.99	3,440.90	2.55	-1.58	-2.00
6,132.00	89.50	359.30	2,968.51	3,535.87	-12.23	3,535.89	0.33	0.32	0.11
6,226.00	90.10	359.40	2,968.84	3,629.86	-13.30	3,629.89	0.65	0.64	0.11
6,321.00	90.40	359.40	2,968.43	3,724.86	-14.30	3,724.88	0.32	0.32	0.00
6,415.00	89.00	359.90	2,968.92	3,818.85	-14.87	3,818.88	1.58	-1.49	0.53
6,510.00	89.50	359.90	2,970.16	3,913.84	-15.04	3,913.87	0.53	0.53	0.00
6,604.00	90.10	359.90	2,970.49	4,007.84	-15.20	4,007.87	0.64	0.64	0.00
6,699.00	90.50	359.90	2,969.99	4,102.84	-15.37	4,102.87	0.42	0.42	0.00
6,794.00	88.80	0.40	2,970.57	4,197.83	-15.12	4,197.86	1.87	-1.79	0.53
6,889.00	89.20	0.00	2,972.23	4,292.82	-14.79	4,292.84	0.60	0.42	-0.42
6,984.00	89.60	0.90	2,973.23	4,387.81	-14.04	4,387.83	1.04	0.42	0.95
7,078.00	90.20	1.10	2,973.39	4,481.80	-12.40	4,481.81	0.67	0.64	0.21
7,173.00	90.50	1.80	2,972.81	4,576.76	-9.99	4,576.77	0.80	0.32	0.74
7,267.00	89.10	1.00	2,973.14	4,670.73	-7.70	4,670.73	1.72	-1.49	-0.85
7,362.00	89.00	359.40	2,974.71	4,765.71	-7.37	4,765.71	1.69	-0.11	-1.68
7,457.00	89.60	359.30	2,975.87	4,860.70	-8.44	4,860.70	0.64	0.63	-0.11
7,551.00	90.00	359.60	2,976.20	4,954.69	-9.35	4,954.70	0.53	0.43	0.32

Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com 2H
Project:	Chaves County	TVD Reference:	3609.6+17.5 @ 3627.10usft
Site:	Sec 36-T15S-R28E	MD Reference:	3609.6+17.5 @ 3627.10usft
Well:	Cranbrook 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)	
7,646.00	90.30	359.90	2,975.95	5,049.69	-9.76	5,049.70	0.45	0.32	0.32	
7,740.00	90.80	359.80	2,975.05	5,143.69	-10.01	5,143.69	0.54	0.53	-0.11	
7,835.00	91.20	0.10	2,973.39	5,238.67	-10.09	5,238.68	0.53	0.42	0.32	
7,930.00	90.10	359.70	2,972.32	5,333.67	-10.26	5,333.67	1.23	-1.16	-0.42	
8,024.00	90.60	359.50	2,971.74	5,427.66	-10.91	5,427.67	0.57	0.53	-0.21	
8,118.00	90.00	358.40	2,971.25	5,521.64	-12.63	5,521.65	1.33	-0.64	-1.17	
8,213.00	90.40	358.30	2,970.92	5,616.60	-15.37	5,616.62	0.43	0.42	-0.11	
8,308.00	89.20	358.80	2,971.25	5,711.57	-17.77	5,711.60	1.37	-1.26	0.53	
8,399.00	89.40	359.50	2,972.36	5,802.55	-19.12	5,802.58	0.80	0.22	0.77	
8,490.00	89.60	359.70	2,973.16	5,893.55	-19.76	5,893.58	0.31	0.22	0.22	
8,581.00	89.80	359.60	2,973.63	5,984.54	-20.32	5,984.58	0.25	0.22	-0.11	
8,671.00	90.30	0.30	2,973.55	6,074.54	-20.39	6,074.58	0.96	0.56	0.78	
8,762.00	90.90	359.80	2,972.60	6,165.54	-20.31	6,165.57	0.86	0.66	-0.55	
8,852.00	89.10	359.70	2,972.60	6,255.53	-20.71	6,255.57	2.00	-2.00	-0.11	
8,944.00	89.50	0.00	2,973.72	6,347.52	-20.95	6,347.56	0.54	0.43	0.33	
9,035.00	90.00	359.60	2,974.12	6,438.52	-21.27	6,438.56	0.70	0.55	-0.44	
9,130.00	90.30	359.90	2,973.87	6,533.52	-21.68	6,533.56	0.45	0.32	0.32	
9,225.00	90.50	0.20	2,973.21	6,628.52	-21.60	6,628.55	0.38	0.21	0.32	
9,320.00	90.90	0.00	2,972.05	6,723.51	-21.43	6,723.55	0.47	0.42	-0.21	
9,415.00	89.10	0.50	2,972.05	6,818.51	-21.02	6,818.54	1.97	-1.89	0.53	
9,509.00	89.30	359.90	2,973.36	6,912.50	-20.69	6,912.53	0.67	0.21	-0.64	
9,604.00	89.80	359.90	2,974.11	7,007.49	-20.85	7,007.52	0.53	0.53	0.00	
9,699.00	89.90	0.00	2,974.36	7,102.49	-20.94	7,102.52	0.15	0.11	0.11	
9,794.00	89.70	359.80	2,974.69	7,197.49	-21.10	7,197.52	0.30	-0.21	-0.21	
9,888.00	89.70	0.10	2,975.18	7,291.49	-21.19	7,291.52	0.32	0.00	0.32	
Last MWD Survey 9888 MD/2975.18 TVD 7291.49 N -21.19 W N: 724101.6 E: 618398.9										
9,968.00	89.70	0.10	2,975.60	7,371.49	-21.05	7,371.52	0.00	0.00	0.00	
PTB 9968 MD/2975.60 TVD 7371.49 N -21.05 W N: 724181.6 E: 618399.0										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
181.00	181.00	0.69	-0.38	1st MWD Survey	
9,888.00	2,975.18	7,291.49	-21.19	Last MWD Survey 9888 MD/2975.18 TVD 7291.49 N -21.19 W N: 724101.6 E: 618398.9	
9,968.00	2,975.60	7,371.49	-21.05	PTB 9968 MD/2975.60 TVD 7371.49 N -21.05 W N: 724181.6 E: 618399.0	

Checked By: _____ Approved By: _____ Date: _____

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-005-64382
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cranbrook State Com
8. Well Number 2H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres
4. Well Location Unit Letter <u>J</u> : <u>1770</u> feet from the <u>South</u> line and <u>1650</u> feet from the <u>East</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.) 3609'

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

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

3/17/2024 - 3/28/2024

Perforated 3286' - 9880' w/ 864 holes. Frac w/ 1103 bbls 15% Acid, 11,333 bbls SW, 135,256 bbls 20# xlink, 861,970# 100 Mesh, 973,880# 30/50 White, 4,841,480# 20/40 White, 384,240# 20/40 Resin. RIH w/ 92 jts of 3 1/2" J-55 tbg @ 2967'; Rotor sub 102 M 1200 Stator.

Spud Date:

Rig Release Date:

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

SIGNATURE Delilah Flores TITLE Regulatory Technician I DATE 4/11/2024

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. 30-005-64382		
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.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____								5. Lease Name or Unit Agreement Name Cranbrook State Com		
								6. Well Number: 2H		
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:	J	36	15S	28E		1770	South	1650	East	Chaves
BH:	G	25	15S	28E		1324	North	1646	East	Chaves
13. Date Spudded 2/17/2024	14. Date T.D. Reached 2/27/2024		15. Date Rig Released 2/29/2024			16. Date Completed (Ready to Produce) 3/27/2024		17. Elevations (DF and RKB, RT, GR, etc.) 3609.6' GR		
18. Total Measured Depth of Well 9968' / TVD 2975'			19. Plug Back Measured Depth 9943' / TVD 2975'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Submitted		
22. Producing Interval(s), of this completion - Top, Bottom, Name 3286' - 9880' - 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"		54.5#		290'		17 1/2'		350 sx		
9 5/8"		36#		1498'		12 1/4"		535 sx		
7" & 5 1/2"		26# & 17#		9968'		8 3/4"		2345 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						3 1/2"	2967'			
26. Perforation record (interval, size, and number) 3286' - 9880', .41, 864 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3286' - 9880'		1103 bbls 15% Acid, 11,333 bbls SW, 135,256 bbls		
						20# xlink, 861,970# 100 Mesh, 973,880# 30/50 White,				
						4,841,480# 20/40 White, 384,240# 20/40 Resin				
28. PRODUCTION										
Date First Production 4/8/2024		Production Method (Flowing, gas lift, pumping - Size and type pump) Rotor Sub 102 M 1200 Stator				Well Status (Prod. or Shut-in) Producing				
Date of Test 4/8/2024	Hours Tested 24 hr	Choke Size	Prod'n For Test Period	Oil - Bbl 98	Gas - MCF 25	Water - Bbl. 1070	Gas - Oil Ratio 256			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 98	Gas - MCF 25	Water - Bbl. 1070	Oil Gravity - API - (Corr.) 36				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold								30. Test Witnessed By Jerry Sherrell		
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date: 3/28/2024		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Delilah Flores</i>			Printed Name		Title			Date		
E-mail Address delilah@mec.com			Delilah Flores		Regulatory Technician I			4/11/2024		

INSTRUCTIONS

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.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 364'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 597'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates 610'	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 840'	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1338'	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1745'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 2100'	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	

OIL OR GAS
SANDS OR ZONES

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

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.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	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 333003

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 333003
	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 333003

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 333003
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	C-102 -Future submittal should depict HSU.	5/22/2024