

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-104
Revised August 1, 2011Oil 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 - 005-64360	⁵ Pool Name Round Tank; San Andres	⁶ Pool Code 52770
⁷ Property Code 322478	⁸ Property Name Cranbrook State 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
J	36	15S	28E		1637	South	2310	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
B	25	15S	28E		1311	North	2310	East	Chaves
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 8/28/2021	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 4/27/2021	²² Ready Date 8/28/2021	²³ TD 10,036' / 2860' TVD	²⁴ PBTB 9987' / 2860' TVD	²⁵ Perforations 3286'-9930' 2911' - 2859' TVD	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	210'	210 sx		
12 1/4"	9 5/8"	1204'	665 sx		
8 3/4"	7", 5 1/2"	10,036'	2031 sx		

V. Well Test Data

³¹ Date New Oil 8/29/2021	³² Gas Delivery Date 8/28/2021	³³ Test Date 8/31/2021	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size 64	³⁸ Oil	³⁹ Water 2006	⁴⁰ Gas 26		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: Leonard R. Lowe		
Title: Regulatory Technician I			Title: Engineer		
E-mail Address: dellilah@mec.com			Approval Date: 11/19/21		
Date: 9/3/2021	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 30-005-64360	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 322478	⁵ Property Name CRANBROOK STATE COM	⁶ Well Number 1H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3602.4

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
J	36	15 S	28 E		1637	SOUTH	2310	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
B	25	15 S	28 E		1311	NORTH	2310	EAST	CHAVES
¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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. 25 LAT. = 32.9942570°N LONG. = 104.0938829°W NMSP EAST (FT) N = 725530.56 E = 614752.22 W/4 CORNER SEC. 25 LAT. = 32.9869876°N LONG. = 104.0938669°W NMSP EAST (FT) N = 722885.75 E = 614763.15 NW CORNER SEC. 36 LAT. = 32.9797168°N LONG. = 104.0938384°W NMSP EAST (FT) N = 720240.47 E = 614777.92 W/4 CORNER SEC. 36 LAT. = 32.9725723°N LONG. = 104.0938200°W NMSP EAST (FT) N = 717641.13 E = 614789.47 SW CORNER SEC. 36 LAT. = 32.9654174°N LONG. = 104.0937948°W NMSP EAST (FT) N = 715038.00 E = 614803.13		S89°33'59"E 2637.60 FT S89°33'59"E 2637.60 FT AS-DRILLED BOTTOM OF HOLE LAT. = 32.9905726°N LONG. = 104.0841672°W NMSP EAST (FT) N = 724197.00 E = 617734.20 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83. N89°44'34"E 2628.21 FT N89°53'06"E 2629.74 FT N/4 CORNER SEC. 36 LAT. = 32.9797325°N LONG. = 104.0852699°W NMSP EAST (FT) N = 720252.26 E = 617405.42 NW CORNER SEC. 36 LAT. = 32.9797296°N LONG. = 104.0766964°W NMSP EAST (FT) N = 720257.54 E = 620034.47 SE CORNER SEC. 36 LAT. = 32.9653776°N LONG. = 104.0765635°W NMSP EAST (FT) N = 715035.98 E = 620087.96		NE CORNER SEC. 25 LAT. = 32.9941131°N LONG. = 104.0766827°W NMSP EAST (FT) N = 725490.64 E = 620025.90 E/4 CORNER SEC. 25 LAT. = 32.9869717°N LONG. = 104.0765798°W NMSP EAST (FT) N = 722892.47 E = 620063.79 AS-DRILLED LAST TAKE POINT 1417' FNL, 2312' FEL LAT. = 32.9902813°N LONG. = 104.0841687°W NMSP EAST (FT) N = 724091.00 E = 617734.00 AS-DRILLED FIRST TAKE POINT 2410' FSL, 2317' FEL LAT. = 32.9720268°N LONG. = 104.0841821°W NMSP EAST (FT) N = 717449.51 E = 617745.61		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> 9/1/2021 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. JULY 28, 2021 Date of Survey <i>William F. Jaramilla</i> Signature and Seal of Professional Surveyor Certificate Number: WILLIAM F. JARAMILLA, L.S. 12797 NO. 6320F	
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Intent ☐ As Drilled ☒

API #

Operator Name:

MACK ENERGY CORPORATION

Property Name:

CRANBROOK STATE COM

Well Number

1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	36	15S	28E		1637	SOUTH	2310	EAST	CHAVES
Latitude					Longitude				NAD
32.9699089					104.0841358				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	36	15S	28E		2410	SOUTH	2317	EAST	CHAVES
Latitude					Longitude				NAD
32.9720268					104.0841821				83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	25	15S	28E		1417	NORTH	2312	EAST	CHAVES
Latitude					Longitude				NAD
32.9902813					104.0841687				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 #

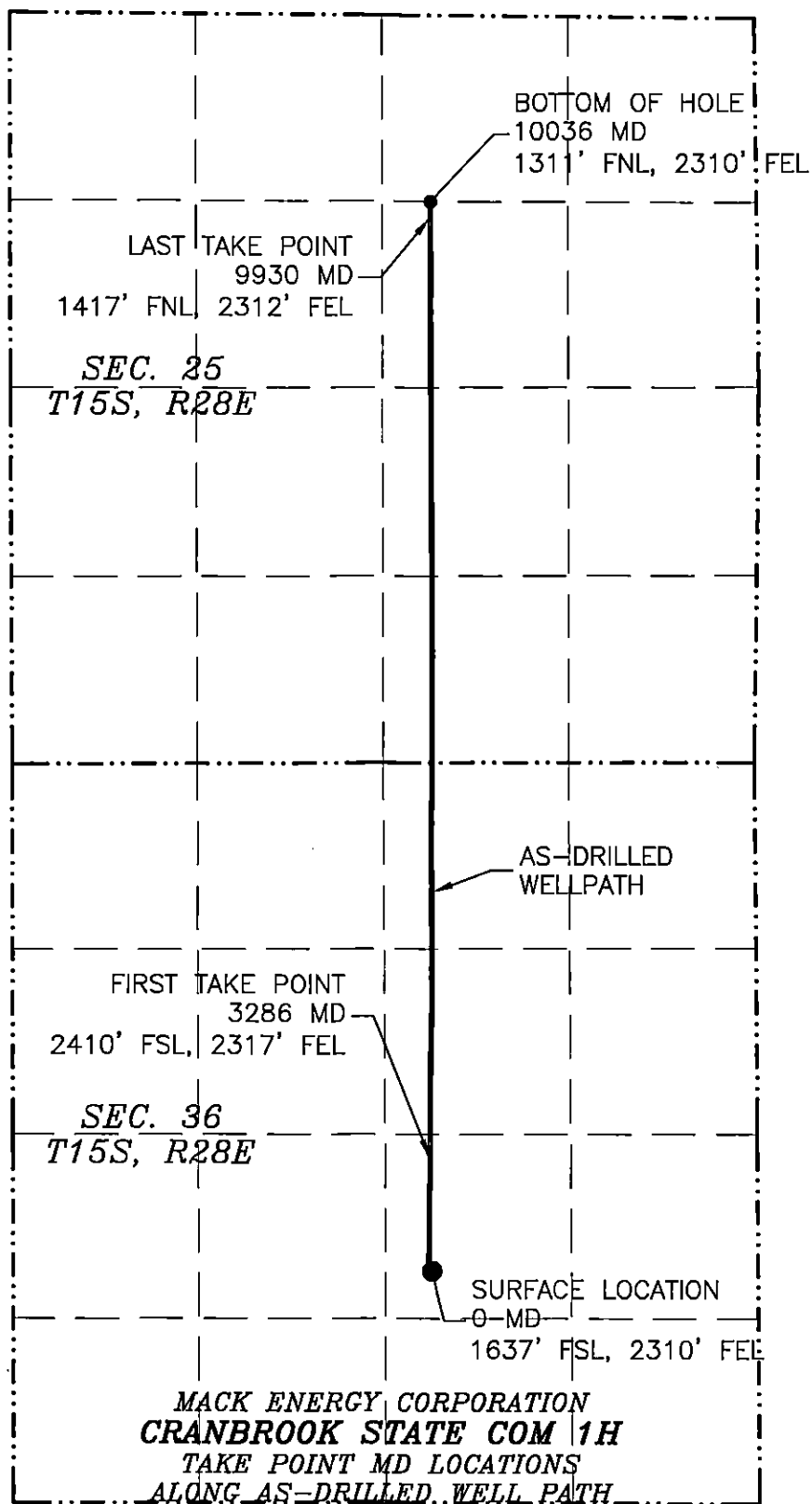
Operator Name:

Property Name:

Well Number

KZ 06/29/2018

PLAN VIEW



NOT TO SCALE

MACK ENERGY CORPORATION
CRANBROOK STATE COM 1H
 TAKE POINT MD LOCATIONS
 ALONG AS-DRILLED WELL PATH

JULY 28, 2021

SURVEY NO. 6320F

MADRON SURVEYING, INC.

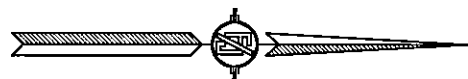
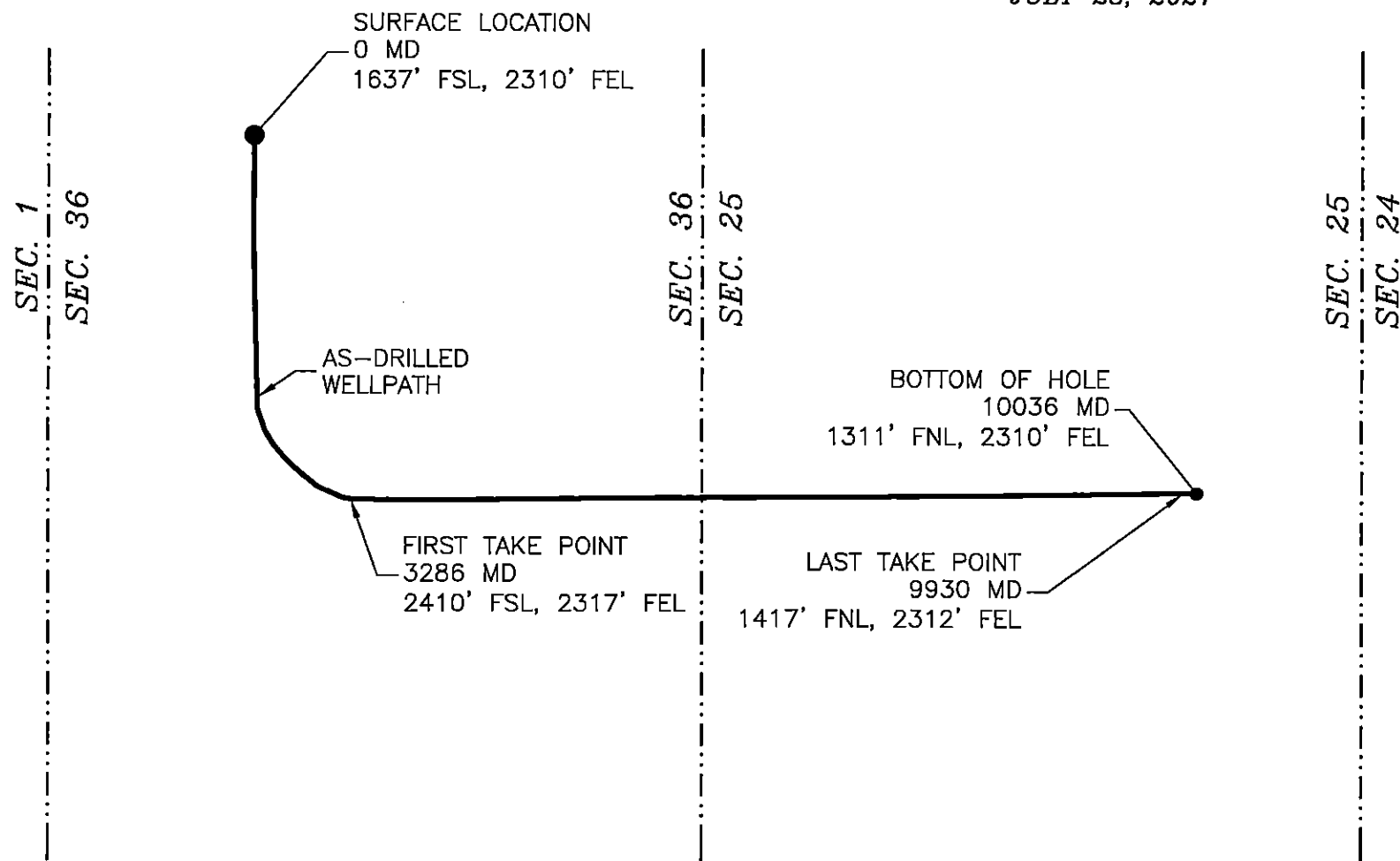
301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

PROFILE VIEW

MACK ENERGY CORPORATION
CRANBROOK STATE COM 1H
TAKE POINT MD LOCATIONS
ALONG AS-DRILLED WELL PATH

JULY 28, 2021



NOT TO SCALE

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 6320F



Mack Energy

Chaves County

Sec 36-T15S-R28E

Cranbrook State Com #1H

Lateral

Survey: Survey #1

Standard Survey Report

17 May, 2021





Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com #1H
Project:	Chaves County	TVD Reference:	3602.4+18 @ 3620.40usft
Site:	Sec 36-T15S-R28E	MD Reference:	3602.4+18 @ 3620.40usft
Well:	Cranbrook State Com #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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 #1H					
Well Position	+N/-S	0.00 usft	Northing:	716,679.03 usft	Latitude:	32.969909
	+E/-W	0.00 usft	Easting:	617,761.63 usft	Longitude:	-104.084136
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,602.40 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/02/21	6.83	60.61	47,922.15079179

Design	Lateral				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	1,278.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.80	

Survey Program		Date	05/17/21	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
151.00	1,278.00	Survey #1 (Pilot)	MWD	MWD - Standard
1,342.00	10,036.00	Survey #1 (Lateral)	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)	
1,278.00	2.55	338.22	1,277.75	4.22	3.57	4.21	0.00	0.00	0.00	
1,342.00	1.32	341.04	1,341.71	6.24	2.80	6.23	1.93	-1.92	4.41	
1st Lateral Survey										
1,369.00	1.71	315.64	1,368.70	6.83	2.42	6.82	2.84	1.44	-94.07	
1,380.00	1.93	306.85	1,379.69	7.05	2.16	7.05	3.23	2.00	-79.91	
1,390.00	2.42	304.65	1,389.69	7.28	1.85	7.27	4.97	4.90	-22.00	
1,400.00	2.73	302.28	1,399.68	7.52	1.47	7.52	3.28	3.10	-23.70	
1,410.00	3.03	300.52	1,409.66	7.78	1.04	7.78	3.13	3.00	-17.60	
1,423.00	3.74	300.08	1,422.64	8.17	0.38	8.17	5.47	5.46	-3.38	
1,432.00	4.18	297.62	1,431.62	8.47	-0.16	8.47	5.24	4.89	-27.33	



Microsoft
Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com #1H
Project:	Chaves County	TVD Reference:	3602.4+18 @ 3620.40usft
Site:	Sec 36-T15S-R28E	MD Reference:	3602.4+18 @ 3620.40usft
Well:	Cranbrook State Com #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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)
1,496.00	6.81	302.45	1,495.32	11.59	-5.43	11.61	4.17	4.11	7.55
1,559.00	6.73	284.70	1,557.89	14.53	-12.16	14.57	3.31	-0.13	-28.17
1,622.00	4.66	298.85	1,620.58	16.70	-17.97	16.76	3.95	-3.29	22.46
1,686.00	2.42	304.65	1,684.45	18.72	-21.36	18.80	3.54	-3.50	9.06
1,749.00	1.23	303.68	1,747.42	19.86	-23.02	19.94	1.89	-1.89	-1.54
1,812.00	0.48	317.92	1,810.41	20.43	-23.76	20.51	1.23	-1.19	22.60
1,876.00	0.18	71.65	1,874.41	20.66	-23.84	20.74	0.90	-0.47	177.70
1,939.00	0.35	314.58	1,937.41	20.82	-23.88	20.91	0.73	0.27	-185.83
2,002.00	0.62	307.99	2,000.41	21.17	-24.29	21.25	0.44	0.43	-10.46
2,066.00	0.53	294.01	2,064.40	21.50	-24.83	21.59	0.26	-0.14	-21.84
2,129.00	0.92	345.87	2,127.40	22.11	-25.22	22.20	1.15	0.62	82.32
2,192.00	8.18	359.84	2,190.16	27.09	-25.36	27.18	11.57	11.52	22.17
2,271.00	17.89	1.51	2,267.03	44.88	-25.05	44.97	12.30	12.29	2.11
2,319.00	22.86	1.78	2,312.01	61.58	-24.57	61.67	10.36	10.35	0.56
2,351.00	25.36	1.95	2,341.22	74.65	-24.14	74.73	7.82	7.81	0.53
2,382.00	27.82	2.31	2,368.94	88.51	-23.63	88.59	7.95	7.94	1.16
2,414.00	29.58	2.48	2,397.01	103.86	-22.98	103.94	5.51	5.50	0.53
2,446.00	31.30	2.31	2,424.59	120.06	-22.31	120.14	5.38	5.37	-0.53
2,477.00	33.32	1.69	2,450.79	136.62	-21.73	136.70	6.60	6.52	-2.00
2,509.00	35.16	0.99	2,477.25	154.62	-21.31	154.69	5.88	5.75	-2.19
2,541.00	36.79	0.81	2,503.14	173.41	-21.02	173.49	5.10	5.09	-0.56
2,572.00	38.42	0.81	2,527.70	192.33	-20.75	192.40	5.26	5.26	0.00
2,604.00	40.31	0.90	2,552.44	212.62	-20.45	212.69	5.91	5.91	0.28
2,636.00	42.24	0.55	2,576.49	233.73	-20.18	233.80	6.07	6.03	-1.09
2,668.00	43.91	0.64	2,599.86	255.58	-19.95	255.65	5.22	5.22	0.28
2,699.00	45.45	0.46	2,621.90	277.38	-19.74	277.44	4.98	4.97	-0.58
2,717.00	46.29	0.46	2,634.44	290.30	-19.64	290.36	4.67	4.67	0.00
2,727.00	46.68	0.37	2,641.32	297.55	-19.59	297.61	3.95	3.90	-0.90
2,737.00	46.99	0.37	2,648.16	304.84	-19.54	304.91	3.10	3.10	0.00
2,747.00	47.38	0.28	2,654.96	312.18	-19.50	312.24	3.96	3.90	-0.90
2,757.00	47.74	0.28	2,661.71	319.56	-19.46	319.62	3.60	3.60	0.00
2,767.00	48.04	359.93	2,668.41	326.97	-19.45	327.04	3.97	3.00	-3.50
2,777.00	48.35	359.84	2,675.08	334.43	-19.46	334.50	3.17	3.10	-0.90
2,787.00	48.62	359.67	2,681.71	341.92	-19.50	341.98	2.99	2.70	-1.70
2,797.00	48.92	359.67	2,688.30	349.44	-19.54	349.50	3.00	3.00	0.00
2,807.00	49.19	359.58	2,694.85	356.99	-19.59	357.06	2.78	2.70	-0.90
2,817.00	49.45	359.49	2,701.37	364.57	-19.65	364.64	2.69	2.60	-0.90
2,827.00	49.67	359.76	2,707.86	372.18	-19.70	372.25	3.01	2.20	2.70
2,837.00	49.89	359.67	2,714.31	379.82	-19.74	379.89	2.30	2.20	-0.90
2,847.00	50.11	359.58	2,720.74	387.48	-19.79	387.55	2.31	2.20	-0.90
2,857.00	50.29	359.58	2,727.14	395.16	-19.85	395.23	1.80	1.80	0.00
2,867.00	50.51	359.49	2,733.52	402.87	-19.91	402.94	2.31	2.20	-0.90
2,877.00	50.68	359.41	2,739.87	410.59	-19.98	410.66	1.81	1.70	-0.80



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com #1H
Project:	Chaves County	TVD Reference:	3602.4+18 @ 3620.40usft
Site:	Sec 36-T15S-R28E	MD Reference:	3602.4+18 @ 3620.40usft
Well:	Cranbrook State Com #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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)
2,887.00	50.99	359.23	2,746.18	418.35	-20.07	418.42	3.40	3.10	-1.80
2,897.00	51.12	359.32	2,752.47	426.12	-20.17	426.19	1.48	1.30	0.90
2,907.00	51.34	359.32	2,758.73	433.92	-20.26	433.99	2.20	2.20	0.00
2,917.00	51.47	359.23	2,764.97	441.74	-20.36	441.80	1.48	1.30	-0.90
2,927.00	51.69	359.23	2,771.18	449.57	-20.47	449.64	2.20	2.20	0.00
2,937.00	51.96	359.14	2,777.36	457.43	-20.58	457.50	2.79	2.70	-0.90
2,947.00	52.09	359.23	2,783.51	465.31	-20.69	465.38	1.48	1.30	0.90
2,957.00	52.22	359.49	2,789.65	473.21	-20.78	473.28	2.43	1.30	2.60
2,967.00	52.40	359.41	2,795.76	481.12	-20.86	481.19	1.91	1.80	-0.80
2,977.00	52.62	359.41	2,801.85	489.06	-20.94	489.13	2.20	2.20	0.00
2,987.00	52.84	359.41	2,807.91	497.01	-21.02	497.08	2.20	2.20	0.00
2,997.00	53.01	359.41	2,813.93	504.99	-21.10	505.06	1.70	1.70	0.00
3,007.00	53.27	359.49	2,819.93	512.99	-21.18	513.06	2.68	2.60	0.80
3,015.00	53.71	359.93	2,824.69	519.42	-21.21	519.49	7.06	5.50	5.50
3,079.00	61.89	1.87	2,858.77	573.52	-20.32	573.59	13.04	12.78	3.03
3,142.00	70.46	1.69	2,884.20	631.07	-18.54	631.13	13.61	13.60	-0.29
3,205.00	75.03	0.81	2,902.88	691.20	-17.23	691.26	7.38	7.25	-1.40
3,242.00	78.20	1.60	2,911.44	727.19	-16.47	727.24	8.82	8.57	2.14
3,306.00	81.10	359.49	2,922.94	790.13	-15.88	790.18	5.57	4.53	-3.30
3,388.00	84.48	0.11	2,933.23	871.47	-16.16	871.52	4.19	4.12	0.76
3,432.00	87.16	1.34	2,936.44	915.34	-15.60	915.39	6.70	6.09	2.80
3,496.00	89.58	1.16	2,938.26	979.30	-14.21	979.34	3.79	3.78	-0.28
3,559.00	90.51	0.37	2,938.21	1,042.29	-13.37	1,042.33	1.94	1.48	-1.25
3,623.00	91.47	359.58	2,937.10	1,106.28	-13.40	1,106.32	1.94	1.50	-1.23
3,686.00	91.60	359.14	2,935.42	1,169.25	-14.10	1,169.30	0.73	0.21	-0.70
3,749.00	92.18	359.41	2,933.34	1,232.21	-14.90	1,232.26	1.02	0.92	0.43
3,813.00	92.70	359.93	2,930.61	1,296.16	-15.26	1,296.20	1.15	0.81	0.81
3,876.00	90.99	0.37	2,928.58	1,359.12	-15.10	1,359.16	2.80	-2.71	0.70
3,939.00	91.43	0.64	2,927.25	1,422.10	-14.54	1,422.15	0.82	0.70	0.43
4,003.00	91.65	1.08	2,925.53	1,486.07	-13.58	1,486.11	0.77	0.34	0.69
4,066.00	90.59	1.34	2,924.30	1,549.05	-12.25	1,549.08	1.73	-1.68	0.41
4,129.00	90.68	1.34	2,923.60	1,612.02	-10.78	1,612.05	0.14	0.14	0.00
4,192.00	90.99	1.34	2,922.69	1,675.00	-9.31	1,675.02	0.49	0.49	0.00
4,256.00	90.02	0.81	2,922.12	1,738.99	-8.11	1,739.00	1.73	-1.52	-0.83
4,319.00	89.93	0.28	2,922.15	1,801.98	-7.51	1,802.00	0.85	-0.14	-0.84
4,382.00	90.37	0.28	2,921.98	1,864.98	-7.20	1,865.00	0.70	0.70	0.00
4,445.00	90.29	0.11	2,921.62	1,927.98	-6.98	1,927.99	0.30	-0.13	-0.27
4,508.00	90.68	0.20	2,921.09	1,990.98	-6.81	1,990.99	0.64	0.62	0.14
4,571.00	91.16	0.46	2,920.08	2,053.97	-6.45	2,053.98	0.87	0.76	0.41
4,635.00	91.47	0.90	2,918.61	2,117.95	-5.69	2,117.95	0.84	0.48	0.69
4,698.00	90.42	0.28	2,917.57	2,180.93	-5.04	2,180.94	1.94	-1.67	-0.98
4,761.00	91.25	0.37	2,916.65	2,243.93	-4.69	2,243.93	1.33	1.32	0.14
4,825.00	90.68	0.11	2,915.57	2,307.92	-4.42	2,307.92	0.98	-0.89	-0.41



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com #1H
Project:	Chaves County	TVD Reference:	3602.4+18 @ 3620.40usft
Site:	Sec 36-T15S-R28E	MD Reference:	3602.4+18 @ 3620.40usft
Well:	Cranbrook State Com #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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)
4,888.00	90.81	359.67	2,914.75	2,370.91	-4.54	2,370.91	0.73	0.21	-0.70
4,952.00	91.16	0.20	2,913.65	2,434.90	-4.61	2,434.90	0.99	0.55	0.83
5,015.00	91.43	359.93	2,912.23	2,497.88	-4.54	2,497.88	0.61	0.43	-0.43
5,078.00	91.21	359.49	2,910.78	2,560.87	-4.86	2,560.87	0.78	-0.35	-0.70
5,141.00	90.90	359.32	2,909.62	2,623.85	-5.51	2,623.85	0.56	-0.49	-0.27
5,205.00	90.73	359.14	2,908.71	2,687.84	-6.37	2,687.85	0.39	-0.27	-0.28
5,267.00	91.25	359.05	2,907.64	2,749.82	-7.35	2,749.83	0.85	0.84	-0.15
5,331.00	90.64	359.23	2,906.58	2,813.81	-8.31	2,813.82	0.99	-0.95	0.28
5,394.00	89.98	358.79	2,906.24	2,876.80	-9.40	2,876.81	1.26	-1.05	-0.70
5,457.00	90.24	358.88	2,906.12	2,939.78	-10.68	2,939.80	0.44	0.41	0.14
5,520.00	90.81	359.32	2,905.54	3,002.77	-11.67	3,002.79	1.14	0.90	0.70
5,583.00	90.29	359.23	2,904.94	3,065.76	-12.47	3,065.79	0.84	-0.83	-0.14
5,647.00	89.45	359.41	2,905.08	3,129.76	-13.23	3,129.78	1.34	-1.31	0.28
5,710.00	89.67	359.58	2,905.57	3,192.75	-13.78	3,192.78	0.44	0.35	0.27
5,774.00	89.98	359.76	2,905.76	3,256.75	-14.15	3,256.78	0.56	0.48	0.28
5,837.00	90.15	359.84	2,905.69	3,319.75	-14.37	3,319.78	0.30	0.27	0.13
5,900.00	90.51	359.93	2,905.33	3,382.75	-14.50	3,382.78	0.59	0.57	0.14
5,963.00	90.64	0.37	2,904.70	3,445.75	-14.33	3,445.78	0.73	0.21	0.70
6,027.00	90.59	359.84	2,904.01	3,509.74	-14.22	3,509.77	0.83	-0.08	-0.83
6,090.00	90.73	0.37	2,903.28	3,572.74	-14.10	3,572.77	0.87	0.22	0.84
6,153.00	91.34	0.64	2,902.15	3,635.72	-13.55	3,635.75	1.06	0.97	0.43
6,217.00	92.00	0.72	2,900.28	3,699.69	-12.79	3,699.71	1.04	1.03	0.12
6,343.00	91.56	1.43	2,896.37	3,825.61	-10.42	3,825.62	0.66	-0.35	0.56
6,470.00	89.85	0.64	2,894.80	3,952.57	-8.13	3,952.58	1.48	-1.35	-0.62
6,533.00	89.27	0.20	2,895.29	4,015.57	-7.67	4,015.57	1.16	-0.92	-0.70
6,660.00	89.36	0.02	2,896.81	4,142.56	-7.42	4,142.56	0.16	0.07	-0.14
6,723.00	89.98	359.41	2,897.17	4,205.56	-7.74	4,205.56	1.38	0.98	-0.97
6,786.00	90.11	359.32	2,897.12	4,268.55	-8.44	4,268.56	0.25	0.21	-0.14
6,849.00	90.55	359.93	2,896.76	4,331.55	-8.85	4,331.55	1.19	0.70	0.97
6,913.00	90.64	0.02	2,896.09	4,395.55	-8.88	4,395.55	0.20	0.14	0.14
6,976.00	90.37	359.41	2,895.54	4,458.54	-9.19	4,458.55	1.06	-0.43	-0.97
7,040.00	89.98	358.79	2,895.34	4,522.53	-10.19	4,522.54	1.14	-0.61	-0.97
7,103.00	90.11	359.14	2,895.29	4,585.52	-11.33	4,585.54	0.59	0.21	0.56
7,230.00	90.68	359.76	2,894.42	4,712.51	-12.55	4,712.53	0.66	0.45	0.49
7,293.00	90.90	0.20	2,893.55	4,775.51	-12.57	4,775.52	0.78	0.35	0.70
7,356.00	91.38	0.28	2,892.29	4,838.49	-12.31	4,838.51	0.77	0.76	0.13
7,419.00	90.11	358.97	2,891.47	4,901.49	-12.72	4,901.50	2.90	-2.02	-2.08
7,483.00	90.37	358.79	2,891.21	4,965.47	-13.97	4,965.49	0.49	0.41	-0.28
7,546.00	90.51	359.05	2,890.72	5,028.46	-15.16	5,028.48	0.47	0.22	0.41
7,609.00	90.37	359.41	2,890.24	5,091.45	-16.01	5,091.48	0.61	-0.22	0.57
7,672.00	90.64	359.67	2,889.68	5,154.45	-16.51	5,154.47	0.59	0.43	0.41
7,736.00	90.64	0.11	2,888.97	5,218.44	-16.64	5,218.47	0.69	0.00	0.69
7,799.00	90.86	0.11	2,888.14	5,281.44	-16.52	5,281.46	0.35	0.35	0.00
7,862.00	90.77	0.28	2,887.25	5,344.43	-16.30	5,344.45	0.31	-0.14	0.27



Microsoft Survey Report



Company:	Mack Energy	Local Co-ordinate Reference:	Well Cranbrook State Com #1H
Project:	Chaves County	TVD Reference:	3602.4+18 @ 3620.40usft
Site:	Sec 36-T15S-R28E	MD Reference:	3602.4+18 @ 3620.40usft
Well:	Cranbrook State Com #1H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	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)
7,926.00	90.64	0.37	2,886.46	5,408.42	-15.94	5,408.45	0.25	-0.20	0.14
7,989.00	90.81	0.55	2,885.66	5,471.42	-15.43	5,471.44	0.39	0.27	0.29
8,115.00	89.93	359.49	2,884.85	5,597.41	-15.39	5,597.43	1.09	-0.70	-0.84
8,179.00	89.63	359.41	2,885.10	5,661.41	-16.00	5,661.43	0.49	-0.47	-0.12
8,305.00	90.33	358.70	2,885.14	5,787.39	-18.08	5,787.42	0.79	0.56	-0.56
8,368.00	90.73	358.70	2,884.56	5,850.37	-19.51	5,850.40	0.63	0.63	0.00
8,432.00	91.12	359.23	2,883.52	5,914.35	-20.67	5,914.39	1.03	0.61	0.83
8,495.00	90.95	359.32	2,882.39	5,977.34	-21.46	5,977.37	0.31	-0.27	0.14
8,558.00	91.08	359.41	2,881.27	6,040.32	-22.16	6,040.36	0.25	0.21	0.14
8,621.00	90.77	359.14	2,880.25	6,103.31	-22.96	6,103.35	0.65	-0.49	-0.43
8,685.00	90.81	359.41	2,879.37	6,167.30	-23.77	6,167.34	0.43	0.06	0.42
8,748.00	90.90	359.41	2,878.43	6,230.29	-24.42	6,230.33	0.14	0.14	0.00
8,811.00	91.34	0.02	2,877.20	6,293.27	-24.73	6,293.32	1.19	0.70	0.97
8,874.00	91.82	359.93	2,875.46	6,356.25	-24.76	6,356.30	0.78	0.76	-0.14
8,938.00	91.74	359.58	2,873.47	6,420.22	-25.03	6,420.27	0.56	-0.12	-0.55
9,001.00	90.37	359.14	2,872.31	6,483.20	-25.73	6,483.25	2.28	-2.17	-0.70
9,064.00	90.55	358.88	2,871.81	6,546.19	-26.82	6,546.24	0.50	0.29	-0.41
9,167.00	90.81	359.14	2,870.59	6,649.17	-28.60	6,649.23	0.36	0.25	0.25
9,230.00	91.25	359.32	2,869.45	6,712.15	-29.45	6,712.21	0.75	0.70	0.29
9,293.00	92.00	359.58	2,867.67	6,775.12	-30.05	6,775.19	1.26	1.19	0.41
9,357.00	92.18	0.28	2,865.33	6,839.08	-30.13	6,839.14	1.13	0.28	1.09
9,420.00	90.81	0.46	2,863.69	6,902.06	-29.72	6,902.12	2.19	-2.17	0.29
9,483.00	91.30	0.55	2,862.53	6,965.04	-29.17	6,965.10	0.79	0.78	0.14
9,547.00	91.52	0.55	2,860.95	7,029.02	-28.56	7,029.08	0.34	0.34	0.00
9,610.00	90.11	0.37	2,860.06	7,092.01	-28.05	7,092.06	2.26	-2.24	-0.29
9,673.00	90.68	0.55	2,859.62	7,155.01	-27.54	7,155.06	0.95	0.90	0.29
9,736.00	90.64	0.11	2,858.90	7,218.00	-27.18	7,218.05	0.70	-0.06	-0.70
9,863.00	89.32	359.67	2,858.94	7,345.00	-27.42	7,345.05	1.10	-1.04	-0.35
9,925.00	89.63	359.93	2,859.51	7,406.99	-27.64	7,407.05	0.65	0.50	0.42
9,982.00	89.93	0.20	2,859.73	7,463.99	-27.58	7,464.04	0.71	0.53	0.47
Last Lateral Survey 9982 MD/2859.73 TVD 7463.99 N -27.58 W N: 724143.0 E: 617734.0									
10,036.00	89.93	0.20	2,859.80	7,517.99	-27.39	7,518.04	0.00	0.00	0.00
PTB 10036 MD/2859.80 TVD 7517.99 N -27.39 W N: 724197.0 E: 617734.2									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,342.00	1,341.71	6.24	2.80	1st Lateral Survey
9,982.00	2,859.73	7,463.99	-27.58	Last Lateral Survey 9982 MD/2859.73 TVD 7463.99 N -27.58 W N: 724143.0 E: 617734.0
10,036.00	2,859.80	7,517.99	-27.39	PTB 10036 MD/2859.80 TVD 7517.99 N -27.39 W N: 724197.0 E: 617734.2

Checked By: _____ Approved By: _____ Date: _____

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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-005-64360
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 1H
9. OGRID Number 013837
10. Pool name or Wildcat Round Tank; San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3602

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 J : 1637 feet from the South line and 2310 feet from the East line Section 25 Township 15S Range 28E NMPM County Chaves	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3602	

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: ☒	

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.

7/10/2021-8/4/2021 perforated 3286'-9930' w/ 840 holes. Frac w/ 3628 bbls 15% HCL Acid, 12,153 bbls SW, 139,304 bbls 20# xlink, 709,780# 100 mesh, 975,189# 30/50 AZ, 4,718,020# 20/40 WI, 811,563# 20/40 RC. RIH w/ 63 jts of 3 1/2 J-55 tbg @ 2038', rotor sub, 123 M 900 Stater @ 2128'.

Spud Date:

4/27/2021

Rig Release Date:

5/17/2021

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 9/1/2021

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. 30-005-64360		
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 Cranbrook State Com		
								6. Well Number: 1H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator Mack Energy Corporation							9. OGRID 013837			
10. Address of Operator P.O. Box 960 Artesia, NM 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		1637	South	2310	East	Chaves
BH:	B	25	15S	28E		1311	North	2310	East	Chaves
13. Date Spudded 4/27/2021	14. Date T.D. Reached 5/15/2021		15. Date Rig Released 5/17/2021			16. Date Completed (Ready to Produce) 8/28/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3602'		
18. Total Measured Depth of Well 10,036 / 2860' TVD			19. Plug Back Measured Depth 9987' / 2860' TVD			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' - 9930' 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#		210'		17 1/2"		210 sx		
9 5/8"		36#		1204'		9 5/8"		665 sx		
7", 5 1/2"		26#, 17#		10,036'		8 3/4"		2031 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) 3286' - 9930', .41, 840 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						3286'-9930'		3628 bbls 15% Acid, 12,153 bbls SW, 139,304 bbls		
								20# xlink, 709,780# 100 Mesh, 975,189# 30/50 AZ, 4,718,020#		
								20/40 WI, 811,563 20/40 RC		
28. PRODUCTION										
Date First Production 8/29/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) pumping - subpump 123 M 900 Stater				Well Status (Prod. or Shut-in) Producing				
Date of Test 8/31/2021	Hours Tested 24 hrs	Choke Size	Prod'n For Test Period	Oil - Bbl 64	Gas - MCF 26	Water - Bbl. 2006	Gas - Oil Ratio 1664			
Flow Tubing Press.	Casing Pressure 24 hrs	Calculated 24-Hour Rate	Oil - Bbl. 64	Gas - MCF 26	Water - Bbl. 2006	Oil Gravity - API - (Corr.) 37.6				
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		Title			Date		
E-mail Address delilah@mec.com			Delilah Flores		Regulatory Technician I			9/3/2021		

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 366'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 430'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates 611'	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 1742'	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	

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 46380

ACKNOWLEDGMENTS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 46380
	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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CONDITIONS

Action 46380

CONDITIONS

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	Action Number: 46380
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	11/19/2021