

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address <div>Mack Energy Corporation P.O. Box 960 Artesia, NM 88210</div>		<sup>2</sup> OGRID Number 013837
		<sup>3</sup> Reason for Filing Code/ Effective Date NW
<sup>4</sup> API Number 30 - 0 05-64307	<sup>5</sup> Pool Name Round Tank; San Andres	<sup>6</sup> Pool Code 52770
<sup>7</sup> Property Code 320519	<sup>8</sup> Property Name Hamilton Federal Com	<sup>9</sup> Well Number 1H

II. <sup>10</sup> Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	15	15S	29E		383	South	598	West	Chaves, NM

<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	15S	29E		2	South	329	West	Chaves, NM
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 10/14/2019	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
278421	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

<sup>21</sup> Spud Date 8/3/2019	<sup>22</sup> Ready Date 10/4/2019	<sup>23</sup> TD 8750	<sup>24</sup> PBTD 8701	<sup>25</sup> Perforations 3699-8650	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17 1/2"	13 3/8" J-55	220'	425		
12 1/4"	9 5/8" LT&C	1200'	465		
8 3/4"	7" & 5 1/2" HCP-110	8750'	1925		
	2 7/8 & 3 1/2" J-55 (tubing)	2456'			

V. Well Test Data

<sup>31</sup> Date New Oil 10/16/2019	<sup>32</sup> Gas Delivery Date 10/14/2019	<sup>33</sup> Test Date 10/16/2019	<sup>34</sup> Test Length 24 hours	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil 14	<sup>39</sup> Water 2224	<sup>40</sup> Gas 26		<sup>41</sup> Test Method pumping
<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Deana Weaver</i>			<div>OIL CONSERVATION DIVISION</div> <div>Approved by:</div> <div>Title:</div> <div>Approval Date:</div> <div><i>M.E.C. is currently in NON-COMPLIANCE regarding the 5.9 rule, for INACTIVE WELLS. Please refer to NMAC Rule-19.15.5.9 via OCD WEBSITE RULES. Your prompt attention is needed for status updates regarding Financial Assurance for 2 wells. Re-submit your paperwork attached once your company is in compliance.</i></div>		
Printed name: Deana Weaver					
Title: Production Clerk					
E-mail Address: dweaver@mec.com					
Date: 5/22/2020		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

<sup>1</sup> API Number 30-005-64307	<sup>2</sup> Pool Code 52770	<sup>3</sup> Pool Name Round Tank; San Andres
<sup>4</sup> Property Code 320519	<sup>5</sup> Property Name HAMILTON FEDERAL COM	
<sup>7</sup> OGRID No. 13837	<sup>8</sup> Operator Name MACK ENERGY CORPORATION	<sup>6</sup> Well Number 1H  <sup>9</sup> Elevation 3863.7

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	15 S	29 E		383	SOUTH	598	WEST	CHAVES

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	15 S	29 E		2	SOUTH	329	WEST	CHAVES

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
160			

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.

<p>NW CORNER SEC. 15 LAT. = 33.0232846°N LONG. = 104.0248543°W NMSP EAST (FT) N = 736146.75 E = 635885.28</p> <p>W Q CORNER SEC. 15 LAT. = 33.0160243°N LONG. = 104.0248725°W NMSP EAST (FT) N = 733505.21 E = 635887.45</p> <p>SW CORNER SEC. 15 LAT. = 33.0086425°N LONG. = 104.0249569°W NMSP EAST (FT) N = 730819.43 E = 635869.46</p> <p>W Q CORNER SEC. 22 LAT. = 33.0012599°N LONG. = 104.0247523°W NMSP EAST (FT) N = 728133.59 E = 635940.04</p> <p>SW CORNER SEC. 22 LAT. = 32.9939935°N LONG. = 104.0247493°W NMSP EAST (FT) N = 725489.88 E = 635948.72</p>		<p>N Q CORNER SEC. 15 LAT. = 33.0232830°N LONG. = 104.0162387°W NMSP EAST (FT) N = 736153.99 E = 638525.95</p> <p>HAMILTON FEDERAL COM 1H ELEV. = 3863.7' LAT. = 33.0097108°N (NAD83) LONG. = 104.0229943°W NMSP EAST (FT) N = 731209.87 E = 636469.94</p> <p>S Q CORNER SEC. 15 LAT. = 33.0087116°N LONG. = 104.0163901°W NMSP EAST (FT) N = 730852.37 E = 638495.53</p> <p>S Q CORNER SEC. 22 LAT. = 32.9939871°N LONG. = 104.0162451°W NMSP EAST (FT) N = 725495.33 E = 638556.12</p>		<p>NE CORNER SEC. 15 LAT. = 33.0232118°N LONG. = 104.0076016°W NMSP EAST (FT) N = 736136.21 E = 641173.28</p> <p>E Q CORNER SEC. 15 LAT. = 33.0158685°N LONG. = 104.0077346°W NMSP EAST (FT) N = 733484.36 E = 641140.79</p> <p>SE CORNER SEC. 15 LAT. = 33.0087818°N LONG. = 104.0078257°W NMSP EAST (FT) N = 730885.92 E = 641120.85</p> <p>E Q CORNER SEC. 22 LAT. = 33.0015079°N LONG. = 104.0077509°W NMSP EAST (FT) N = 728239.54 E = 641151.97</p> <p>SE CORNER SEC. 22 LAT. = 32.9942030°N LONG. = 104.0076851°W NMSP EAST (FT) N = 725581.88 E = 641180.37</p>	
<p>SURFACE LOCATION &amp; KOP FTP S89°16'53"W 2626.96 FT S89°16'05"W 2626.21 FT</p> <p>FIRST TAKE POINT 127' FNL, 358' FWL LAT. = 33.0063030°N LONG. = 104.0237799°W</p> <p>LAST TAKE POINT 100' FSL, 330' FWL LAT. = 32.9942675°N LONG. = 104.0236727°W</p> <p>BOTTOM OF HOLE LAT. = 32.9939982°N LONG. = 104.0236776°W NMSP EAST (FT) N = 725492.58 E = 636277.31</p> <p>LTP BOTTOM OF HOLE S89°52'49"W 2608.08 FT S88°06'39"W 2626.35 FT</p>		<p><sup>17</sup> 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. Deana Weaver 10/22/19 Signature Date Deana Weaver Printed Name dweaver@mec.com E-mail Address</p> <p><sup>18</sup> 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 11, 2019 Date of Survey Signature and Seal of Professional Surveyor Certificate Number F101000000 JARAMILLO, N.S. 42397 Professional No. 5311C</p>			

Intent ☐ As Drilled ☒

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: HAMILTON FEDERAL COM	Well Number 1H

Kick Off Point (KOP)

UL M	Section 15	Township 15S	Range 29E	Lot	Feet 323	From N/S SOUTH	Feet 598	From E/W WEST	County CHAVES
Latitude 33.0097108					Longitude 104.0229943			NAD 83	

First Take Point (FTP)

UL D	Section 22	Township 15S	Range 29E	Lot	Feet 127	From N/S NORTH	Feet 358	From E/W WEST	County CHAVES
Latitude 33.0083030					Longitude 104.0237799			NAD 83	

Last Take Point (LTP)

UL M	Section 22	Township 15S	Range 29E	Lot	Feet 100	From N/S SOUTH	Feet 330	From E/W WEST	County CHAVES
Latitude 32.9942675					Longitude 104.0236727			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 15-T15S-R29E

Hamilton Federal Com #1H

Wellbore #1

Survey: Survey #1

## **Standard Survey Report**

15 August, 2019



**Microsoft**  
Survey Report

<b>Company:</b>	Mack Energy	<b>Local Co-ordinate Reference:</b>	Well Hamilton Federal Com #1H
<b>Project:</b>	Chaves County	<b>TVD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Site:</b>	Sec 15-T15S-R29E	<b>MD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Well:</b>	Hamilton Federal Com #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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 15-T15S-R29E			
Site Position:		Northing:	731,209.87 usft	Latitude:	33.009711
From:	Map	Easting:	636,469.94 usft	Longitude:	-104.022995
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	Hamilton Federal Com #1H					
Well Position	+N/-S	0.00 usft	Northing:	731,209.87 usft	Latitude:	33.009711
	+E/-W	0.00 usft	Easting:	636,469.94 usft	Longitude:	-104.022995
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,863.70 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	07/15/19	7.00	60.68	48,136.34560560

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	181.92	

Survey Program		Date	08/15/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
162.00	8,750.00	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
162.00	0.40	121.00	162.00	-0.29	0.48	0.27	0.25	0.25	0.00
1st MWD Survey									
180.00	0.40	102.80	180.00	-0.34	0.60	0.32	0.70	0.00	-101.11
248.00	0.70	98.50	248.00	-0.45	1.24	0.41	0.45	0.44	-6.32
307.00	1.00	103.80	306.99	-0.63	2.10	0.56	0.53	0.51	8.98
395.00	1.60	92.40	394.97	-0.86	4.07	0.73	0.74	0.68	-12.95
485.00	1.50	98.90	484.93	-1.10	6.49	0.88	0.22	-0.11	7.22
576.00	1.30	98.10	575.91	-1.43	8.69	1.14	0.22	-0.22	-0.88
665.00	0.80	90.50	664.89	-1.57	10.31	1.23	0.58	-0.56	-8.54
752.00	1.00	84.30	751.88	-1.50	11.67	1.11	0.26	0.23	-7.13



**Microsoft**  
Survey Report

<b>Company:</b>	Mack Energy	<b>Local Co-ordinate Reference:</b>	Well Hamilton Federal Com #1H
<b>Project:</b>	Chaves County	<b>TVD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Site:</b>	Sec 15-T15S-R29E	<b>MD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Well:</b>	Hamilton Federal Com #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
847.00	1.70	80.00	846.85	-1.18	13.89	0.71	0.74	0.74	-4.53
942.00	1.00	89.90	941.83	-0.93	16.10	0.39	0.77	-0.74	10.42
1,038.00	0.10	58.20	1,037.82	-0.89	17.01	0.32	0.95	-0.94	-33.02
1,140.00	0.30	242.50	1,139.82	-0.96	16.85	0.40	0.39	0.20	-172.25
1,241.00	0.26	285.27	1,240.82	-1.02	16.39	0.47	0.21	-0.04	42.35
1,336.00	0.26	256.09	1,335.82	-1.02	15.98	0.48	0.14	0.00	-30.72
1,431.00	0.48	266.72	1,430.82	-1.09	15.37	0.58	0.24	0.23	11.19
1,526.00	0.70	257.05	1,525.81	-1.25	14.41	0.76	0.25	0.23	-10.18
1,622.00	0.83	254.07	1,621.80	-1.57	13.17	1.13	0.14	0.14	-3.10
1,717.00	0.35	241.50	1,716.80	-1.90	12.25	1.49	0.52	-0.51	-13.23
1,812.00	0.48	254.77	1,811.79	-2.14	11.61	1.75	0.17	0.14	13.97
1,907.00	0.48	256.97	1,906.79	-2.33	10.84	1.97	0.02	0.00	2.32
2,002.00	0.57	240.71	2,001.79	-2.65	10.04	2.32	0.18	0.09	-17.12
2,097.00	0.97	284.48	2,096.78	-2.68	8.85	2.39	0.72	0.42	46.07
2,192.00	1.10	298.10	2,191.76	-2.05	7.27	1.81	0.29	0.14	14.34
2,288.00	1.05	290.98	2,287.75	-1.30	5.63	1.12	0.15	-0.05	-7.42
2,383.00	0.88	291.60	2,382.73	-0.72	4.14	0.59	0.18	-0.18	0.65
2,478.00	1.05	283.77	2,477.72	-0.25	2.62	0.16	0.23	0.18	-8.24
2,513.00	1.58	244.49	2,512.71	-0.38	1.87	0.32	2.90	1.51	-112.23
2,573.00	4.92	223.22	2,572.61	-2.61	-0.64	2.63	5.82	5.57	-35.45
2,620.00	9.32	221.28	2,619.23	-6.94	-4.53	7.09	9.37	9.36	-4.13
2,668.00	13.49	216.45	2,666.28	-14.37	-10.42	14.71	8.90	8.69	-10.06
2,715.00	17.14	211.44	2,711.60	-24.69	-17.30	25.26	8.25	7.77	-10.66
2,763.00	19.02	205.73	2,757.23	-37.78	-24.38	38.57	5.38	3.92	-11.90
2,810.00	21.84	204.32	2,801.27	-52.64	-31.31	53.66	6.09	6.00	-3.00
2,858.00	24.52	203.18	2,845.39	-69.94	-38.91	71.20	5.66	5.58	-2.37
2,905.00	27.69	203.18	2,887.59	-88.95	-47.05	90.47	6.74	6.74	0.00
2,953.00	30.67	205.73	2,929.50	-110.24	-56.75	112.07	6.73	6.21	5.31
3,000.00	34.89	205.81	2,969.01	-133.15	-67.82	135.34	8.98	8.98	0.17
3,049.00	39.81	205.64	3,007.95	-159.92	-80.71	162.53	10.04	10.04	-0.35
3,096.00	44.43	206.34	3,042.80	-188.24	-94.53	191.30	9.88	9.83	1.49
3,144.00	47.94	207.04	3,076.03	-219.18	-110.09	222.74	7.39	7.31	1.46
3,191.00	50.63	208.63	3,106.68	-250.67	-126.73	254.77	6.27	5.72	3.38
3,226.00	52.87	207.48	3,128.35	-274.93	-139.65	279.44	6.90	6.40	-3.29
3,236.00	53.04	207.13	3,134.37	-282.02	-143.31	286.65	3.27	1.70	-3.50
3,246.00	53.31	207.31	3,140.37	-289.14	-146.98	293.89	3.06	2.70	1.80
3,256.00	53.35	206.78	3,146.34	-296.28	-150.62	301.15	4.27	0.40	-5.30
3,266.00	53.44	206.96	3,152.30	-303.44	-154.25	308.43	1.70	0.90	1.80
3,276.00	53.70	206.96	3,158.24	-310.61	-157.90	315.72	2.60	2.60	0.00
3,286.00	53.79	206.52	3,164.16	-317.82	-161.53	323.04	3.66	0.90	-4.40
3,296.00	53.88	206.43	3,170.06	-325.04	-165.13	330.38	1.16	0.90	-0.90
3,306.00	54.10	206.43	3,175.94	-332.29	-168.73	337.74	2.20	2.20	0.00
3,316.00	54.18	206.25	3,181.79	-339.55	-172.32	345.12	1.66	0.80	-1.80





**Microsoft**  
Survey Report

<b>Company:</b>	Mack Energy	<b>Local Co-ordinate Reference:</b>	Well Hamilton Federal Com #1H
<b>Project:</b>	Chaves County	<b>TVD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Site:</b>	Sec 15-T15S-R29E	<b>MD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Well:</b>	Hamilton Federal Com #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
3,326.00	54.32	206.34	3,187.64	-346.83	-175.92	352.51	1.58	1.40	0.90	
3,336.00	54.45	205.90	3,193.46	-354.12	-179.50	359.93	3.81	1.30	-4.40	
3,346.00	54.45	205.29	3,199.27	-361.46	-183.01	367.38	4.96	0.00	-6.10	
3,356.00	54.67	205.64	3,205.07	-368.82	-186.51	374.85	3.60	2.20	3.50	
3,366.00	54.49	205.37	3,210.87	-376.17	-190.02	382.32	2.84	-1.80	-2.70	
3,376.00	54.89	205.37	3,216.65	-383.55	-193.52	389.80	4.00	4.00	0.00	
3,379.00	54.93	205.27	3,218.37	-385.77	-194.57	392.06	2.86	1.18	-3.19	
Cross Lease Line 3379' MD/3218.37 TVD -385.77 S -194.57 W N: 730824.1 E: 636275.3										
3,387.00	55.02	205.02	3,222.96	-391.70	-197.35	398.08	2.86	1.18	-3.18	
3,398.00	55.90	204.23	3,229.20	-399.93	-201.13	406.43	9.95	8.00	-7.18	
3,429.00	58.05	200.98	3,246.10	-423.92	-211.11	430.75	11.20	6.94	-10.48	
3,476.00	62.53	198.08	3,269.39	-462.39	-224.73	469.64	10.93	9.53	-6.17	
3,503.81	65.20	196.17	3,281.64	-486.25	-232.07	493.73	11.41	9.59	-6.88	
FTP 3503.81 MD/3281.64 TVD -486.25 S -232.07 W N: 730723.6 E: 636237.8										
3,524.00	67.15	194.83	3,289.80	-504.04	-237.01	511.69	11.41	9.67	-6.62	
3,531.01	67.68	194.47	3,292.49	-510.31	-238.64	518.00	8.99	7.62	-5.17	
FTP Hamilton Federal Com #1H Plan #2										
3,533.92	67.91	194.32	3,293.59	-512.92	-239.31	520.63	8.99	7.63	-5.14	
FTP Hamilton Federal Com #1H										
3,620.00	74.53	190.08	3,321.30	-592.52	-256.46	600.76	8.99	7.69	-4.92	
3,667.00	79.23	187.97	3,331.97	-637.71	-263.63	646.17	10.91	10.00	-4.49	
3,715.00	84.55	184.46	3,338.74	-684.93	-268.76	693.53	13.24	11.08	-7.31	
3,769.00	86.84	183.58	3,342.79	-738.64	-272.54	747.34	4.54	4.24	-1.63	
3,832.00	87.41	183.23	3,345.95	-801.45	-276.27	810.24	1.06	0.90	-0.56	
3,895.00	90.53	178.74	3,347.08	-864.40	-277.36	873.19	8.68	4.95	-7.13	
3,916.00	90.40	178.90	3,346.91	-885.40	-276.92	894.16	0.98	-0.62	0.76	
4,011.00	91.30	176.70	3,345.50	-980.31	-273.28	988.90	2.50	0.95	-2.32	
4,107.00	90.20	175.40	3,344.25	-1,076.07	-266.66	1,084.39	1.77	-1.15	-1.35	
4,202.00	88.90	175.20	3,344.99	-1,170.75	-258.88	1,178.75	1.38	-1.37	-0.21	
4,297.00	89.60	176.90	3,346.24	-1,265.51	-252.34	1,273.24	1.94	0.74	1.79	
4,392.00	90.00	179.00	3,346.57	-1,360.44	-248.94	1,368.01	2.25	0.42	2.21	
4,487.00	91.70	178.80	3,345.16	-1,455.41	-247.12	1,462.86	1.80	1.79	-0.21	
4,582.00	90.40	178.30	3,343.42	-1,550.36	-244.71	1,557.68	1.47	-1.37	-0.53	
4,677.00	89.50	178.00	3,343.50	-1,645.31	-241.65	1,652.47	1.00	-0.95	-0.32	
4,772.00	90.00	178.70	3,343.91	-1,740.27	-238.91	1,747.29	0.91	0.53	0.74	
4,868.00	89.90	177.60	3,344.00	-1,836.22	-235.81	1,843.08	1.15	-0.10	-1.15	
4,963.00	88.50	178.30	3,345.33	-1,931.15	-232.41	1,937.84	1.65	-1.47	0.74	
5,058.00	89.60	177.90	3,346.90	-2,026.08	-229.26	2,032.61	1.23	1.16	-0.42	
5,153.00	91.00	176.50	3,346.40	-2,120.96	-224.62	2,127.28	2.08	1.47	-1.47	
5,248.00	90.50	178.10	3,345.16	-2,215.84	-220.15	2,221.96	1.76	-0.53	1.68	
5,343.00	89.70	179.90	3,344.99	-2,310.82	-218.49	2,316.84	2.07	-0.84	1.89	
5,439.00	91.00	179.70	3,344.41	-2,406.82	-218.16	2,412.77	1.37	1.35	-0.21	
5,534.00	90.20	180.90	3,343.41	-2,501.81	-218.65	2,507.72	1.52	-0.84	1.26	
5,629.00	89.60	179.50	3,343.58	-2,596.81	-218.99	2,602.68	1.60	-0.63	-1.47	



**Microsoft**  
Survey Report

<b>Company:</b>	Mack Energy	<b>Local Co-ordinate Reference:</b>	Well Hamilton Federal Com #1H
<b>Project:</b>	Chaves County	<b>TVD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Site:</b>	Sec 15-T15S-R29E	<b>MD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Well:</b>	Hamilton Federal Com #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
5,724.00	89.60	177.80	3,344.24	-2,691.77	-216.75	2,697.52	1.79	0.00	-1.79
5,819.00	89.40	177.20	3,345.07	-2,786.68	-212.60	2,792.23	0.67	-0.21	-0.63
5,914.00	89.80	178.30	3,345.73	-2,881.60	-208.87	2,886.97	1.23	0.42	1.16
6,009.00	90.10	179.30	3,345.82	-2,976.58	-206.88	2,981.83	1.10	0.32	1.05
6,105.00	89.70	179.00	3,345.98	-3,072.57	-205.46	3,077.72	0.52	-0.42	-0.31
6,200.00	90.00	178.70	3,346.23	-3,167.55	-203.55	3,172.58	0.45	0.32	-0.32
6,295.00	89.40	178.70	3,346.73	-3,262.52	-201.40	3,267.43	0.63	-0.63	0.00
6,391.00	89.10	179.30	3,347.99	-3,358.50	-199.72	3,363.30	0.70	-0.31	0.62
6,486.00	90.20	180.10	3,348.57	-3,453.49	-199.23	3,458.22	1.43	1.16	0.84
6,581.00	90.10	179.70	3,348.32	-3,548.49	-199.06	3,553.17	0.43	-0.11	-0.42
6,677.00	89.30	180.40	3,348.82	-3,644.49	-199.14	3,649.11	1.11	-0.83	0.73
6,772.00	90.60	180.10	3,348.90	-3,739.49	-199.56	3,744.07	1.40	1.37	-0.32
6,867.00	90.60	180.70	3,347.91	-3,834.48	-200.22	3,839.03	0.63	0.00	0.63
6,962.00	90.20	180.20	3,347.25	-3,929.47	-200.97	3,934.00	0.67	-0.42	-0.53
7,057.00	89.70	178.70	3,347.33	-4,024.47	-200.06	4,028.91	1.66	-0.53	-1.58
7,152.00	89.20	179.10	3,348.24	-4,119.44	-198.23	4,123.77	0.67	-0.53	0.42
7,247.00	90.90	178.90	3,348.16	-4,214.43	-196.57	4,218.64	1.80	1.79	-0.21
7,342.00	90.70	179.40	3,346.83	-4,309.41	-195.16	4,313.52	0.57	-0.21	0.53
7,438.00	90.50	180.50	3,345.83	-4,405.40	-195.08	4,409.46	1.16	-0.21	1.15
7,533.00	90.10	180.40	3,345.33	-4,500.40	-195.83	4,504.43	0.43	-0.42	-0.11
7,628.00	89.70	181.00	3,345.49	-4,595.39	-196.99	4,599.40	0.76	-0.42	0.63
7,724.00	89.90	180.00	3,345.83	-4,691.38	-197.83	4,695.37	1.06	0.21	-1.04
7,818.00	89.50	180.00	3,346.32	-4,785.38	-197.83	4,789.32	0.43	-0.43	0.00
7,913.00	90.00	180.30	3,346.74	-4,880.38	-198.07	4,884.27	0.61	0.53	0.32
8,009.00	89.70	179.50	3,346.99	-4,976.38	-197.91	4,980.21	0.89	-0.31	-0.83
8,104.00	88.90	179.60	3,348.15	-5,071.37	-197.16	5,075.12	0.85	-0.84	0.11
8,199.00	89.90	179.70	3,349.14	-5,166.36	-196.58	5,170.04	1.06	1.05	0.11
8,294.00	90.10	179.70	3,349.14	-5,261.36	-196.08	5,264.97	0.21	0.21	0.00
8,389.00	90.50	178.80	3,348.65	-5,356.35	-194.84	5,359.87	1.04	0.42	-0.95
8,485.00	89.50	178.30	3,348.65	-5,452.31	-192.41	5,455.70	1.16	-1.04	-0.52
8,580.00	89.90	180.20	3,349.14	-5,547.30	-191.17	5,550.59	2.04	0.42	2.00
8,652.02	89.90	180.20	3,349.27	-5,619.32	-191.42	5,622.58	0.00	0.00	0.00
LTP Hamilton Federal Com #1H Plan #2									
8,652.03	89.90	180.20	3,349.27	-5,619.33	-191.42	5,622.59	0.00	0.00	0.00
LTP 8652.03 MD/3349.27 TVD -5619.33 S -191.42 W N: 725590.5 E: 636278.5									
8,652.04	89.90	180.20	3,349.27	-5,619.34	-191.42	5,622.59	0.00	0.00	0.00
LTP Hamilton Federal Com #1H									
8,675.00	89.90	180.20	3,349.31	-5,642.30	-191.50	5,645.55	0.00	0.00	0.00
8,701.00	90.30	181.00	3,349.26	-5,668.30	-191.77	5,671.54	3.44	1.54	3.08
Last MWD Survey 8701 MD/3349.26 TVD -5668.3 S -191.77 W N: 725541.5 E: 636278.1									
8,750.00	90.30	181.00	3,349.01	-5,717.29	-192.63	5,720.53	0.00	0.00	0.00
PTB 8750 MD/3349.01 TVD -5717.29 S -192.63 W N: 725492.5 E: 636277.3 - BHL Hamilton Federal Com #1H - BHL Hamilton Federal Com #									



**Microsoft**  
Survey Report

<b>Company:</b>	Mack Energy	<b>Local Co-ordinate Reference:</b>	Well Hamilton Federal Com #1H
<b>Project:</b>	Chaves County	<b>TVD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Site:</b>	Sec 15-T15S-R29E	<b>MD Reference:</b>	3863.7 + 13 @ 3876.70usft
<b>Well:</b>	Hamilton Federal Com #1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.15 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
162.00	162.00	-0.29	0.48	1st MWD Survey
3,379.00	3,218.37	-385.77	-194.57	Cross Lease Line 3379' MD/3218.37 TVD -385.77 S -194.57 W N: 730824.1 E:
3,503.81	3,281.64	-486.25	-232.07	FTP 3503.81 MD/3281.64 TVD -486.25 S -232.07 W N: 730723.6 E: 636237.8
8,652.03	3,349.27	-5,619.33	-191.42	LTP 8652.03 MD/3349.27 TVD -5619.33 S -191.42 W N: 725590.5 E: 636278.5
8,701.00	3,349.26	-5,668.30	-191.77	Last MWD Survey 8701 MD/3349.26 TVD -5668.3 S -191.77 W N: 725541.5 E:
8,750.00	3,349.01	-5,717.29	-192.63	PTB 8750 MD/3349.01 TVD -5717.29 S -192.63 W N: 725492.5 E: 636277.3

Checked By: _____	Approved By: _____	Date: _____
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMNM16348

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv. Other _____						6. If Indian, Allottee or Tribe Name	
						7. Unit or CA Agreement Name and No.	
2. Name of Operator                                      Contact: JACKIE LATHAN <b>MEWBOURNE OIL COMPANY</b> E-Mail: jlathan@mewbourne.com						8. Lease Name and Well No. <b>ARMSTRONG 26/23 W1EE FED COM 1H</b>	
3. Address   P O BOX 5270 HOBBS, NM 88241				3a. Phone No. (include area code) Ph: 575-393-5905		9. API Well No. <b>30-015-46307-00-S1</b>	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 26 T25S R31E Mer NMP At surface   SWNW 2500FNL 900FWL 32.101692 N Lat, 103.754486 W Lon Sec 26 T25S R31E Mer NMP At top prod interval reported below   SWNW 2978FNL 840FWL 32.101559 N Lat, 103.754681 W Lon Sec 23 T25S R31E Mer NMP At total depth   NWNW 1409FNL 838FWL 32.122192 N Lat, 103.754135 W Lon						10. Field and Pool, or Exploratory <b>PURPLE SAGE-WOLFCAMP (GAS)</b>	
						11. Sec., T., R., M., or Block and Survey or Area    Sec 26 T25S R31E Mer NMP	
						12. County or Parish <b>EDDY</b>	13. State <b>NM</b>
14. Date Spudded 10/31/2019		15. Date T.D. Reached 11/21/2019		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/23/2020		17. Elevations (DF, KB, RT, GL)* <b>3329 GL</b>	
18. Total Depth:		<b>MD</b>	<b>18355</b>	19. Plug Back T.D.:		<b>MD</b>	<b>18305</b>
<b>TVD</b>		<b>12108</b>		<b>TVD</b>		<b>12108</b>	
20. Depth Bridge Plug Set:				<b>MD</b>			
<b>TVD</b>							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CCL GR CNL&amp;CBL</b>						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

23. Casing and Liner Record *(Report all strings set in well)*[illegible]

## 24. Tubing Record

[illegible]

## 25. Producing Intervals

Lithology and Core Data			Well Completion Details			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11656	18355	12176 TO 18297	0.380	1836	OPEN
B)						
C)						
D)						



## 26. Perforation Record

Lithology and Core Data			Well Completion Details			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11656	18355	12176 TO 18297	0.380	1836	OPEN
B)						
C)						
D)						



## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12176 TO 18297	13,464,706 GALS SLICKWATER CARRYING 12,364,968# LOCAL 100 MESH SAND

## 28. Production - Interval A

Date First Produced 04/23/2020	Test Date 04/27/2020	Hours Tested 24	Test Production 	Oil BBL 435.0	Gas MCF 2378.0	Water BBL 2513.0	Oil Gravity Corr. API	Gas Gravity	Production Method FLOWS FROM WELL
Choke Size 22/64	Tbg. Press. Flwg. SI	Csg. Press. 3150.0	24 Hr. Rate 	Oil BBL 435	Gas MCF 2378	Water BBL 2513	Gas:Oil Ratio 5467	Well Status PGW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

**ELECTRONIC SUBMISSION #514102 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**

SUBMISSION #514102 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
 \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
**SOLD**

30. Summary of Porous Zones (Include Aquifers):  Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.	31. Formation (Log) Markers
--	-----------------------------

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WOLFCAMP	11656	18355	OIL & GAS	RUSTLER TOP SALT RAMSEY BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING WOLFCAMP	795 1162 4030 4274 5303 6926 8109 11656

32. Additional remarks (include plugging procedure):  
 Logs will be sent by mail.

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #514102 Verified by the BLM Well Information System.**  
**For MEWBOURNE OIL COMPANY, sent to the Carlsbad**  
**Committed to AFMSS for processing by VIOLETA BURKE on 05/28/2020 (20VB0267SE)**

Name(*please print*) RUBY CABALLERO Title CLERK

Signature \_\_\_\_\_ (Electronic Submission) Date 05/05/2020

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



## Revisions to Operator-Submitted EC Data for Well Completion #514102

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM16348	NMNM16348
Agreement:		
Operator:	MEWBOURNE OIL COMPANY PO BOX 5270 HOBBS, NM 88241 Ph: 575-393-5905	MEWBOURNE OIL COMPANY P O BOX 5270 HOBBS, NM 88241 Ph: 575.393.5905
Admin Contact:	JACKIE LATHAN REGULATORY E-Mail: jlathan@mewbourne.com  Ph: 575-393-5905	JACKIE LATHAN REGULATORY E-Mail: jlathan@mewbourne.com  Ph: 575-393-5905
Tech Contact:	RUBY CABALLERO REGULATORY E-Mail: rcaballero@mewbourne.com  Ph: 575-393-5905 Ext: 5032	RUBY CABALLERO CLERK E-Mail: rojeda@mewbourne.com  Ph: 575-393-5905
Well Name: Number:	ARMSTRONG 26/23 W1EE FED COM 1H	ARMSTRONG 26/23 W1EE FED COM 1H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 26 T25S R31E Mer SWNW 2500FNL 900FWL	NM EDDY Sec 26 T25S R31E Mer NMP SWNW 2500FNL 900FWL 32.101692 N Lat, 103.754486 W Lon
Field/Pool:	PURPLE SAGE; WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Logs Run:	CCL/GR/CNL & CBL	CCL GR CNL&CBL
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:	WOLFCAMP	WOLFCAMP
Markers:	RUSTLER T/SALT B/SALT BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING WOLFCAMP	RUSTLER TOP SALT RAMSEY BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING WOLFCAMP