

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

State of New Mexico
Energy, Minerals & Natural Resources

NMOCD-REC'D: 8/25/2020 Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88210		² OGRID Number 013837
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 005-64307	⁵ Pool Name Round Tank; San Andres	⁶ Pool Code 52770
⁷ Property Code 320519	⁸ Property Name Hamilton Federal Com	⁹ Well Number 1H

II. ¹⁰ Surface Location

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

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
M	22	15S	29E		2	South	329	West	Chaves, NM
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/14/2019	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
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

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
8/3/2019	10/4/2019	8750	8701	3699-8650	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ 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

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
10/16/2019	10/14/2019	10/16/2019	24 hours		
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
14		2224	26	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: *Deana Weaver*

Printed name:
Deana Weaver

Title:
Production Clerk

E-mail Address:
dweaver@mec.com

Date: 5/22/2020
Phone: 575-748-1288

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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.

DENIED

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

¹⁰ Surface Location

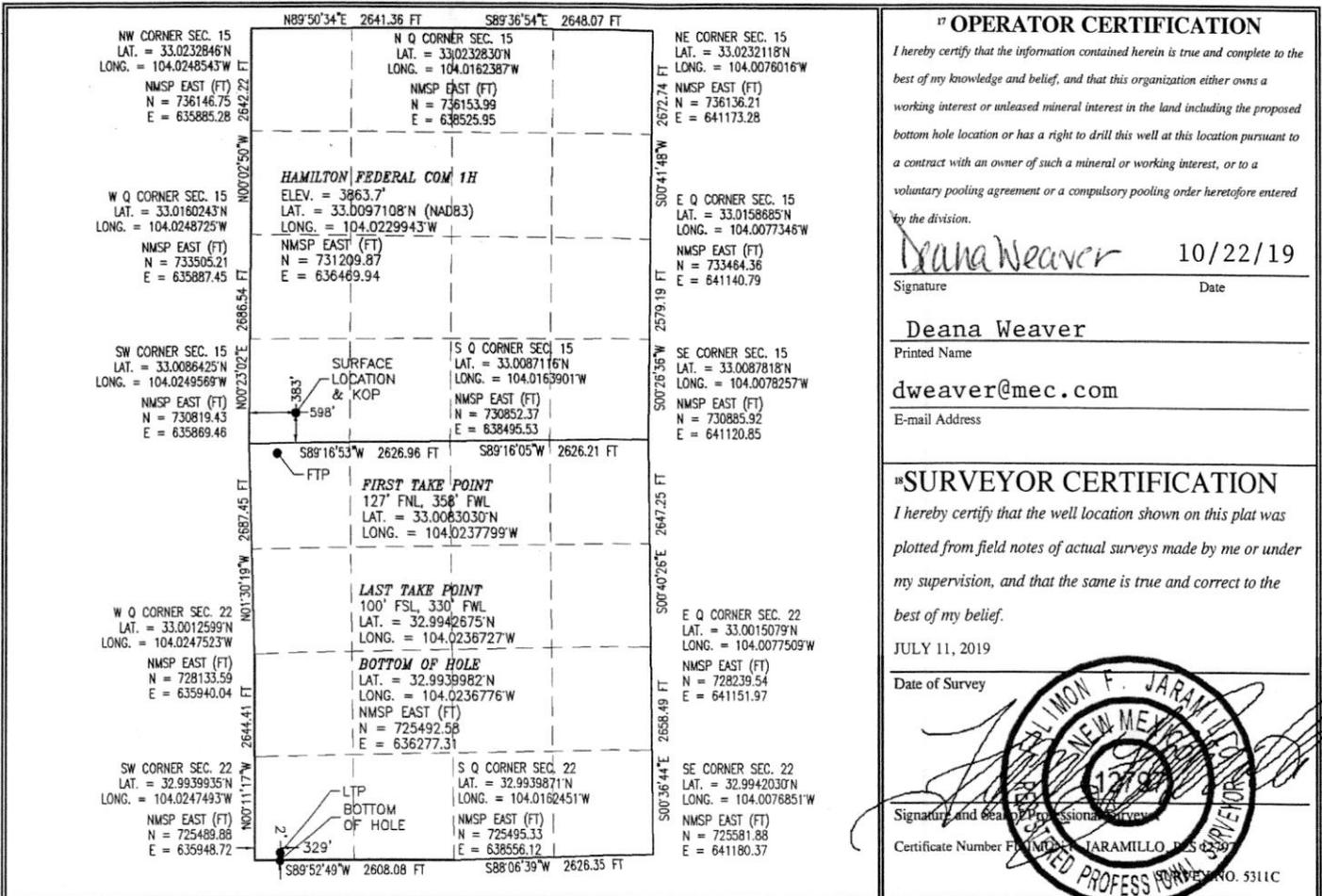
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	15 S	29 E		383	SOUTH	598	WEST	CHAVES

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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.

Signature: Deana Weaver Date: 10/22/19

Printed Name: Deana Weaver

E-mail Address: dweaver@mec.com

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.

Date of Survey: JULY 11, 2019

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 1279 JARAMILLO, N.M. 87501
Professional Surveyor License No. 5311C

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

Mack Energy

Chaves County

Sec 15-T15S-R29E

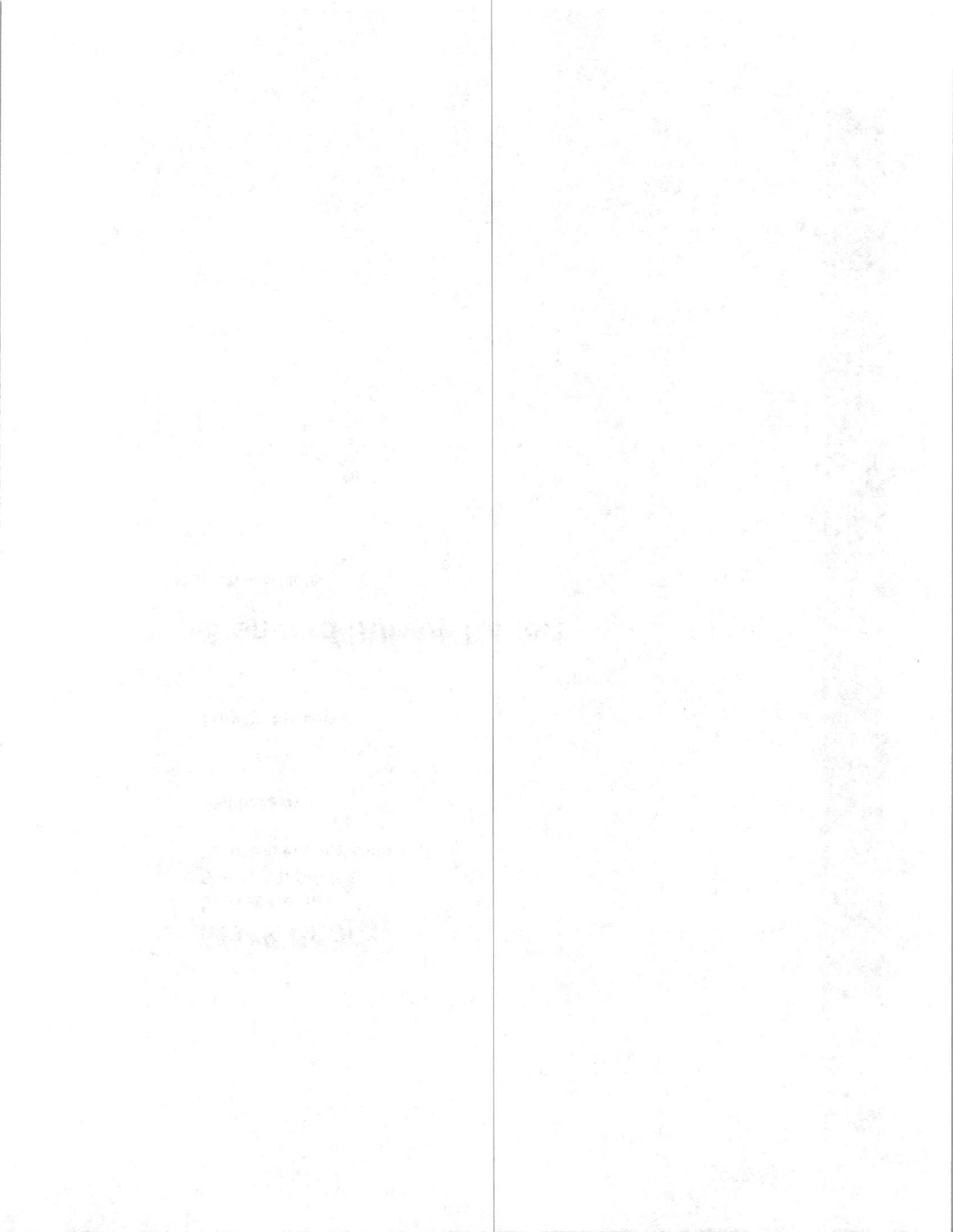
Hamilton Federal Com #1H

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 August, 2019



Microsoft
Survey Report

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

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

Site	Sec 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	

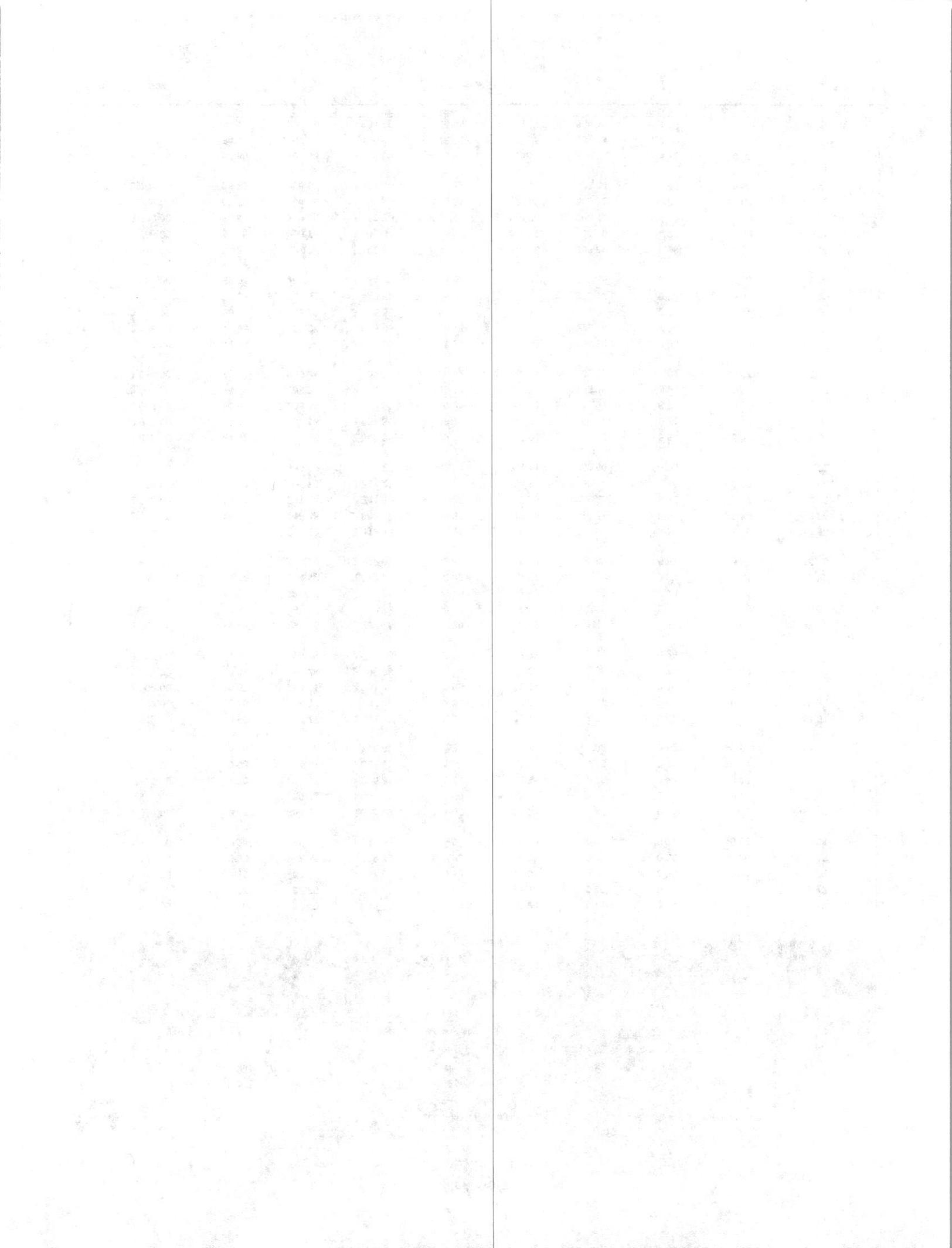
Survey Program	Date	08/15/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
162.00	8,750.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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

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

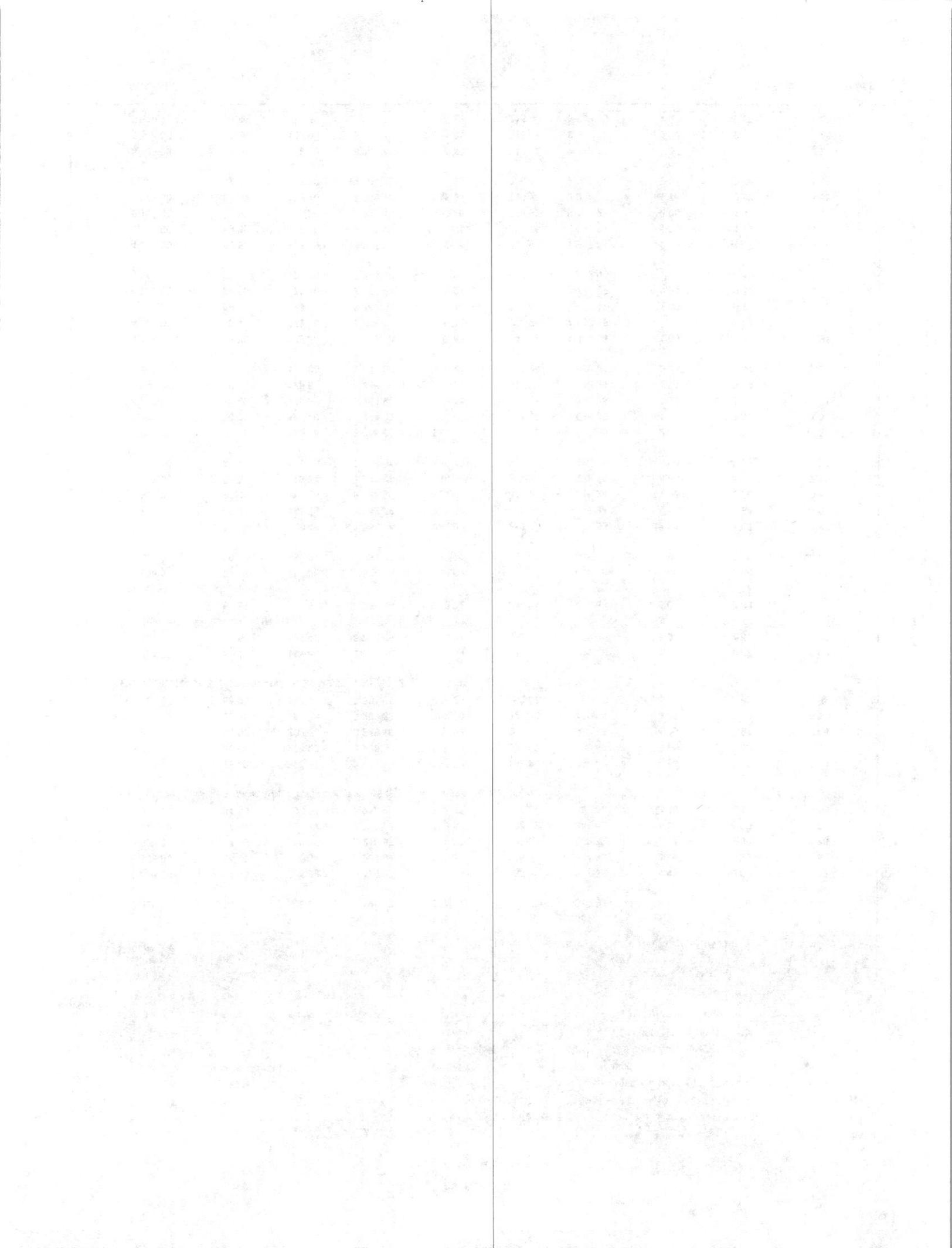
Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
847.00	1.70	80.00	846.85	-1.18	13.89	0.71	0.74	0.74	-4.53	
942.00	1.00	89.90	941.83	-0.93	16.10	0.39	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

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

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,326.00	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	

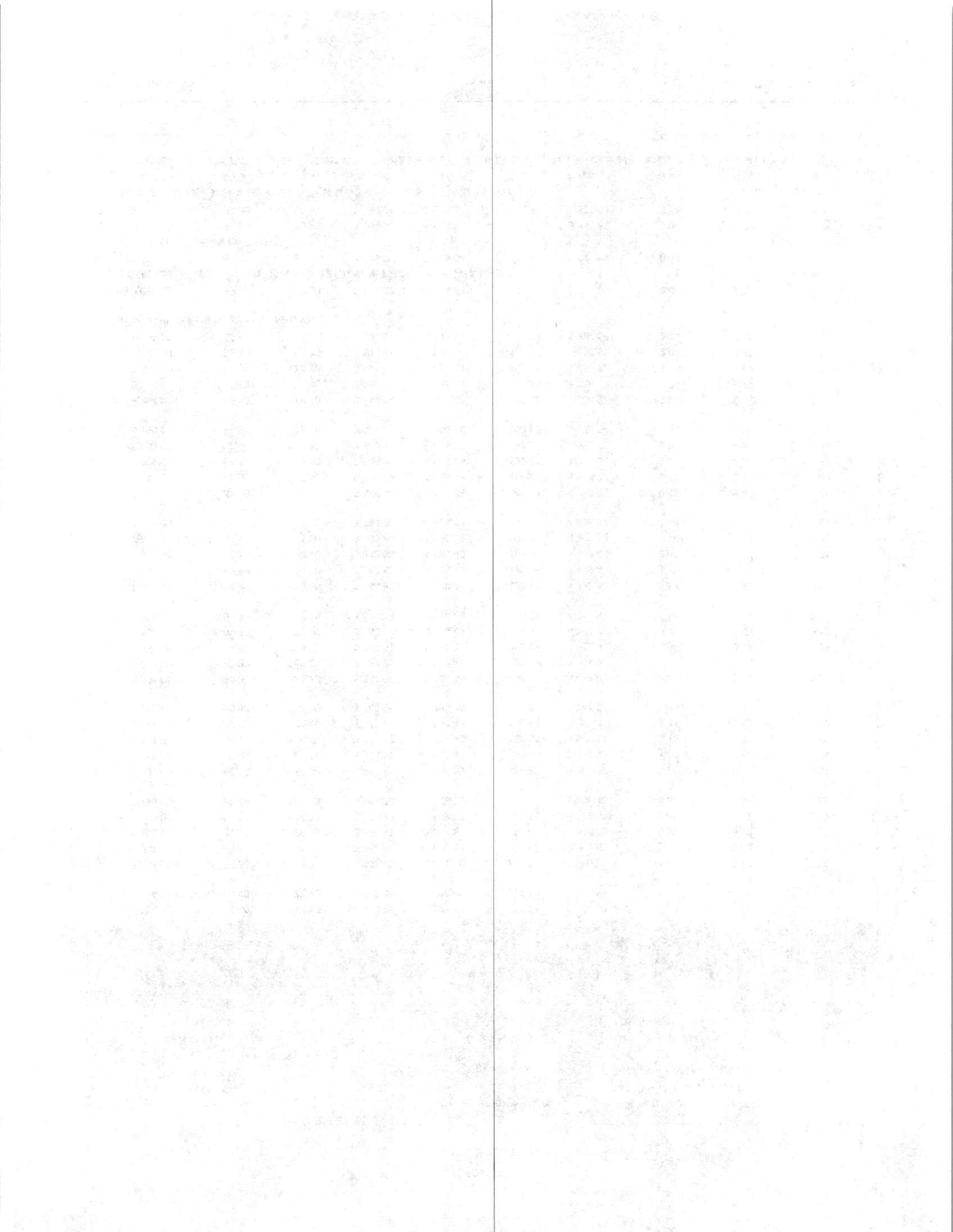


Microsoft
Survey Report

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

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
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

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

Survey 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: _____

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 Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No. _____

2. Name of Operator **MEWBOURNE OIL COMPANY** Contact: JACKIE LATHAN
 E-Mail: jlathan@mewbourne.com

8. Lease Name and Well No.
ARMSTRONG 26/23 W1EE FED COM 1H

3. Address **P O BOX 5270** 3a. Phone No. (include area code)
HOBBS, NM 88241 Ph: 575-393-5905

9. API Well No.
30-015-46307-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **Sec 26 T25S R31E Mer NMP**
SWNW 2500FNL 900FWL 32.101692 N Lat, 103.754486 W Lon
 At top prod interval reported below **Sec 26 T25S R31E Mer NMP**
SWNW 2978FNL 840FWL 32.101559 N Lat, 103.754681 W Lon
 At total depth **Sec 23 T25S R31E Mer NMP**
NWNW 1409FNL 838FWL 32.122192 N Lat, 103.754135 W Lon

10. Field and Pool, or Exploratory
PURPLE SAGE-WOLFCAMP (GAS)

11. Sec., T., R., M., or Block and Survey
or Area **Sec 26 T25S R31E Mer NMP**

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
10/31/2019

15. Date T.D. Reached
11/21/2019

16. Date Completed
 D & A Ready to Prod.
04/23/2020

17. Elevations (DF, KB, RT, GL)*
3329 GL

18. Total Depth: MD 18355 TVD 12108

19. Plug Back T.D.: MD 18305 TVD 12108

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CCL GR CNL&CBL

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	975		850	249	0	
12.250	9.625 HCL80	40.0	0	4258		1075	345	0	
8.750	7.000 HCP110	29.0	0	12315		925	401	4058	
6.125	4.500 HCP110	13.5	11466	18354		425	188	0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

26. Perforation Record

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

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

ELECTRONIC 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.

**** REVISED ** REVISED ****

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:	NM	NM
County:	EDDY	EDDY
S/T/R:	Sec 26 T25S R31E Mer	Sec 26 T25S R31E Mer NMP
Surf Loc:	SWNW 2500FNL 900FWL	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