

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

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 3/7/2018
⁴ API Number 30 - 0 15-43530	⁵ Pool Name Fren; Glorieta Yeso	⁶ Pool Code 26770
⁷ Property Code 322791	⁸ Property Name Partition 13 Fed NC	⁹ Well Number 5H

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
NENW	24	17S	31E		255	FNL	2590	FWL	Eddy

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
NENW	13	17S	31E		289	FNL	2291	FWL	Eddy

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3/7/2018	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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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 Panbrook Odessa, TX 79762	G

IV. Well Completion Data

²¹ Spud Date 1/19/2018	²² Ready Date 3/7/2018	²³ TD 10468	²⁴ PBTB 10466	²⁵ Perforations 6189-10245	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375 J55	720	690		
12.25	9.625 J55	1915	685		
8.5	7 L80	4723	585		
7.875	5.5 L80 2.875 tubing	4723-10466 4659 tubing			

V. Well Test Data

³¹ Date New Oil 3/7/2018	³² Gas Delivery Date 3/7/2018	³³ Test Date 3/18/2018	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
	393	1760	396		
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>Deana Weaver</i>			OIL CONSERVATION DIVISION		
Printed name: Deana Weaver			Approved by: KURT SIMMONS		
Title: Production Clerk			Title: NMOC, SANTA FE		
E-mail Address: dweaver@mec.com			Approval Date: 02/25/2021		
Date: 9/22/2020		Phone: 575-748-1288			

NMOCD Rec'd: 9/22/2020

DISTRICT I
1825 N. Frank Dr., Hobbs, NM 88240
Phone (505) 588-0111 Fax (505) 588-0770

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1800 Fax (505) 746-0720

DISTRICT III
1006 Rio Grasso Rd., Artesia, NM 87410
Phone (505) 834-4174 Fax (505) 834-3470

DISTRICT IV
1220 E. St. Francis Dr. Santa Fe, NM 87505
Phone (505) 476-5125 Fax (505) 476-5442

EMNRD-OCD ARTESIA NM OIL CONSERVATION
REC'D: 05/05/2020 ARTESIA DISTRICT
State of New Mexico
Energy, Minerals and Natural Resources Department
SEP 18 2017 Form C-102
Revised August 24, 2001

Submit one copy to appropriate District Office

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

AS-DRILLED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43530	Pool Code 26770	Pool Name FREN GLORIETA YESO
Property Code 08635	Property Name PARTITION 13 Federal NC	Well Number 5H
OGRD No. 013837	Operator Name Mack Energy Corporation	Elevation 3907

Surface Location

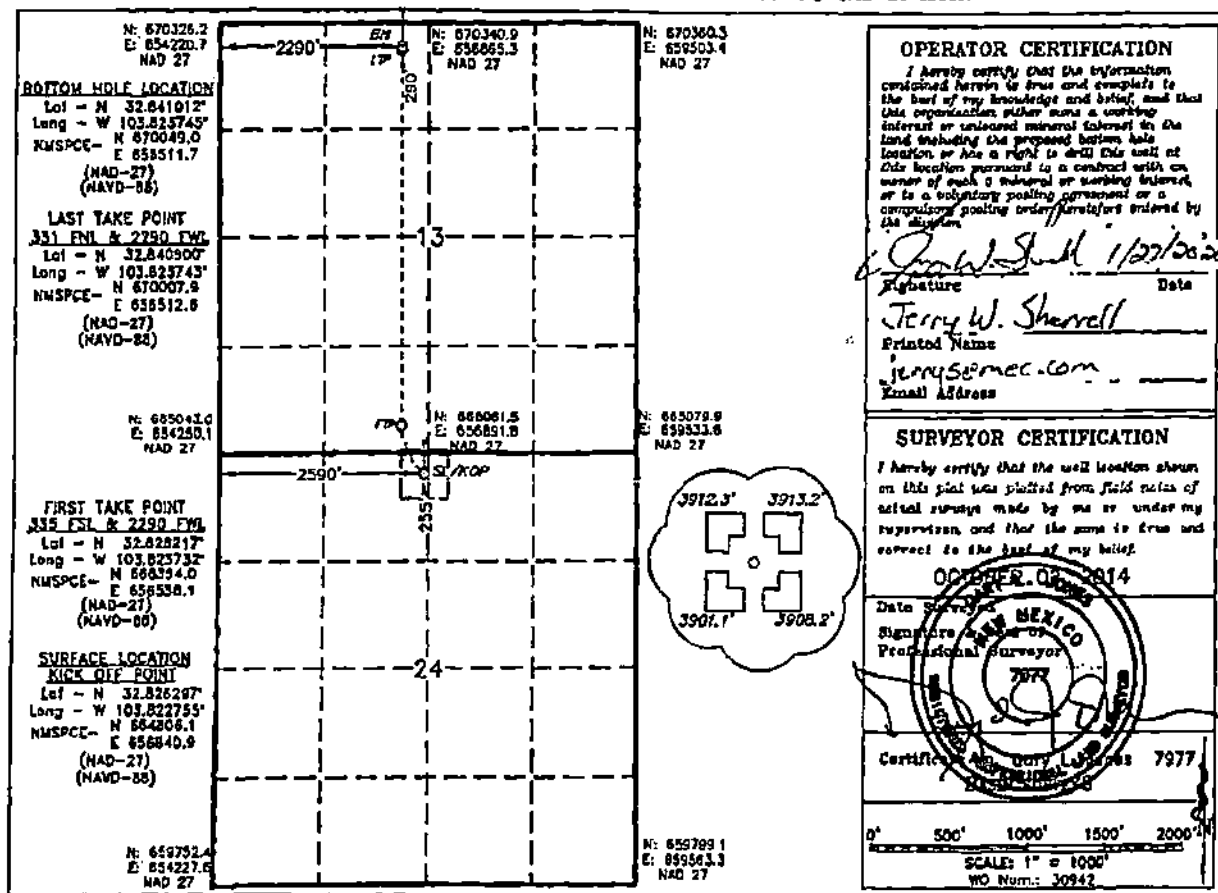
UL or lot No.	Section	Township	Range	Lot No.	FEET from the	SOUTH/NORTH LINE	FEET from the	East/WEST LINE	County
C	24	17 S	31 E		255	NORTH	2590	WEST	EDDY

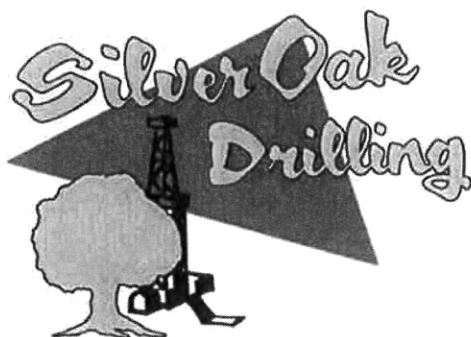
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot No.	FEET from the	SOUTH/NORTH LINE	FEET from the	East/WEST LINE	County
C	13	17 S	31 E		290	NORTH	2290	WEST	EDDY

Dedicated Acres	Joint or Inter	Consolidation Code	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





PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

February 12, 2018

Burnett Oil Co., Inc.
Burnett Plaza – Suite 1500
801 Cherry St
Fort Worth, TX 76102-6881

RE: Partition 13 Fed NC 5H
255' FNL & 2590' FWL
Sec. 31, T17S, R24E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

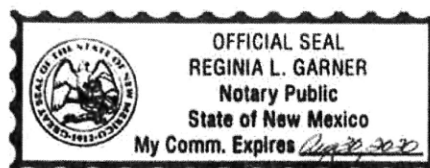
A handwritten signature in black ink, appearing to read "Chris Graham".

Chris Graham
Asst. Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 12th day of February, 2018.

A handwritten signature in black ink, appearing to read "Regina L. Garner".

Notary Public

Partition 13 Fed NC 5H				
Depth	Deviation	Direction	TVD	Horiz Disp
265	0.30	110.80		
453	0.40			
180	0.30	114.80		
645	0.20	123.80		
702	0.20	71.80		
755	0.60	57.80		
943	0.30	103.10		
1133	0.30	111.10		
1320	0.50	74.00		
1507	0.40	88.40		
1696	0.60	54.90		
1873	0.70	9.30		
2019	0.70	17.50		
2207	0.20	352.00		
2585	0.90	2529.00		
2774	0.90	2611.20		
2865	1.00	265.40		
3055	1.00	245.40		
3429	1.20	256.50		
3616	0.80	73.00		
3803	1.00	87.50		
3989	1.20	66.70		
4361	1.30	83.80		
4552	1.50	86.60		
4740	0.60	46.70	4739.00	
4787	2.20	351.80		
4833	4.40	341.90	4832.44	
4959	17.30	357.50		
5022	25.50	332.10		
5488	55.50	326.20		
5676	69.60	338.00		
5770	75.70	345.90		
5889	84.20	352.90		
5983	84.30	3533.00		
6077	84.40	353.70		
6175	90.60	355.90		
6269	90.70	0.90		
6364	89.10	1.80		
6551	89.30	0.30		
6738	89.30	1.00		
6832	89.50	1.50		
6926	89.70	0.02		

Depth	Deviation	Direction	TVD	Horiz Disp
7019	90.90	358.70		
7113	90.50	358.20		
7206	90.60	358.80		
7393	91.10	0.00		
7578	91.70	0.50		
7672	91.20	359.90		
7766	92.10	0.00		
7859	91.40	359.70		
7953	91.30	0.10	5482.00	2744.65
8047	89.80	0.30	5481.97	2838.44
8141	90.10	0.30	5482.05	2932.00
8233	90.80	0.50	5481.33	3024.00
8326	89.80	0.70	5480.85	3116.75
8420	90.00	1.20	5481.00	3210.40
8514	89.90	1.50	5481.00	3304.10
8608	90.20	1.60	5481.00	3397.72
8701	89.80	1.40	5481.00	3490.36
8795	89.40	1.70	5481.00	3583.97
8888	90.50	0.60	5481.75	3676.65
8981	91.00	1.20	5480.53	3769.36
9076	90.30	0.60	5479.45	3864.06
9171	91.00	0.00	5477.84	3958.98
9265	91.30	359.90	5476.00	4052.64
9359	91.10	359.70	5474.00	4146.45
9452	91.10	359.90	5472.00	4239.27
9545	89.90	358.80	5471.00	4332.14
9642	90.10	359.00	5471.40	4429.19
9735	90.20	359.50	5471.15	4522.08
9828	89.80	359.70	5471.15	4614.94
9921	89.90	0.00	5491.37	4707.97
10014	89.50	359.00	5471.88	4800.63
10107	90.50	358.70	5421.88	4893.54
10200	90.20	358.70		
10293	90.80	359.00		

EMNRD-OCD ARTESIA
REC'D: 05/05/2020

Burnett Oil Company, INC

Eddy County, NM

Sec.24, T.17 S., R. 31 E.

Partition 13 FED NC #5H

Wellbore #1

Survey: Survey #1

Standard Survey Report

08 February, 2018

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Partition 13 FED NC #5H
Project:	Eddy County, NM	TVD Reference:	KB=21.5 @ 3928.50ft
Site:	Sec.24, T.17 S., R. 31 E.	MD Reference:	KB=21.5 @ 3928.50ft
Well:	Partition 13 FED NC #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec.24, T.17 S., R. 31 E.		
Site Position:		Northing:	664,720.0000 usft
From:	Map	Easting:	655,241.7000 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.826382
		Longitude:	-103.827963
		Grid Convergence:	0.27 °

Well	Partition 13 FED NC #5H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32.826598
		Longitude:	-103.822756
		Ground Level:	3,907.00 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	1/9/2018	(°)
			7.06
			Dip Angle
			(°)
			60.57
			Field Strength
			(nT)
			48,207

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			356.41

Survey Program	Date 2/8/2018		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
755.00	10,468.00	Survey #1 (Wellbore #1)	MWD
			Description
			MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100usft)	(°/100usft)	(°/100usft)
702.00	0.20	72.00	701.99	-1.63	2.72	-1.80	0.00	0.00	0.00
755.00	0.60	57.80	754.99	-1.45	3.04	-1.64	0.77	0.75	-26.79
1st MWD Survey									
943.00	0.30	103.10	942.98	-1.04	4.36	-1.31	0.24	-0.16	24.10
1,133.00	0.30	111.10	1,132.98	-1.33	5.30	-1.66	0.02	0.00	4.21
1,320.00	0.50	74.00	1,319.98	-1.28	6.54	-1.69	0.17	0.11	-19.84
1,507.00	0.40	88.40	1,506.97	-1.04	7.98	-1.54	0.08	-0.05	7.70
1,696.00	0.60	54.90	1,695.96	-0.45	9.45	-1.04	0.18	0.11	-17.72
1,873.00	0.70	9.30	1,872.95	1.15	10.38	0.49	0.29	0.06	-25.76
2,019.00	0.70	17.50	2,018.94	2.88	10.80	2.20	0.07	0.00	5.62
2,207.00	0.20	352.00	2,206.94	4.30	11.10	3.59	0.28	-0.27	-13.56

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Partition 13 FED NC #5H
Project:	Eddy County, NM	TVD Reference:	KB=21.5 @ 3928.50ft
Site:	Sec.24, T.17 S., R. 31 E.	MD Reference:	KB=21.5 @ 3928.50ft
Well:	Partition 13 FED NC #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,395.00	0.40	269.70	2,394.93	4.62	10.39	3.96	0.22	0.11	-43.78
2,585.00	0.90	252.90	2,584.92	4.18	8.30	3.65	0.28	0.26	-8.84
2,774.00	0.90	241.20	2,773.90	3.03	5.58	2.67	0.10	0.00	-6.19
2,866.00	1.00	265.40	2,865.89	2.61	4.15	2.35	0.45	0.11	26.30
3,055.00	1.00	245.40	3,054.86	1.79	1.01	1.73	0.18	0.00	-10.58
3,241.00	1.30	244.30	3,240.82	0.20	-2.37	0.35	0.16	0.16	-0.59
3,429.00	1.20	256.50	3,428.78	-1.18	-6.20	-0.79	0.15	-0.05	6.49
3,616.00	0.80	73.00	3,615.77	-1.26	-6.86	-0.82	1.07	-0.21	94.39
3,803.00	1.00	87.50	3,802.74	-0.80	-3.98	-0.55	0.16	0.11	7.75
3,989.00	1.20	66.70	3,988.71	0.04	-0.57	0.07	0.24	0.11	-11.18
4,176.00	1.20	78.90	4,175.67	1.19	3.15	0.99	0.14	0.00	6.52
4,361.00	1.30	83.80	4,360.62	1.79	7.14	1.34	0.08	0.05	2.65
4,552.00	1.50	86.60	4,551.57	2.17	11.79	1.43	0.11	0.10	1.47
4,740.00	0.60	66.70	4,739.53	2.71	15.15	1.75	0.51	-0.48	-10.59
4,787.00	2.20	351.80	4,786.52	3.70	15.24	2.73	4.52	3.40	-159.36
4,833.00	4.40	341.90	4,832.44	6.25	14.57	5.32	4.92	4.78	-21.52
4,865.00	6.40	341.20	4,864.30	9.10	13.61	8.23	6.25	6.25	-2.19
4,887.00	8.40	344.90	4,886.11	11.82	12.80	10.99	9.34	9.09	16.82
4,912.00	11.40	345.00	4,910.74	15.97	11.68	15.20	12.00	12.00	0.40
4,959.00	17.30	337.50	4,956.26	26.92	7.80	26.38	13.14	12.55	-15.96
4,990.00	21.60	333.80	4,985.48	36.30	3.52	36.01	14.42	13.87	-11.94
5,022.00	25.50	332.10	5,014.81	47.68	-2.31	47.73	12.37	12.19	-5.31
5,067.00	30.50	332.50	5,054.53	66.38	-12.12	67.01	11.12	11.11	0.89
5,113.00	34.90	331.40	5,093.23	88.30	-23.82	89.62	9.65	9.57	-2.39
5,160.00	39.50	331.40	5,130.66	113.24	-37.41	115.36	9.79	9.79	0.00
5,206.00	43.00	328.50	5,165.24	139.47	-52.62	142.50	8.67	7.61	-6.30
5,253.00	47.00	326.90	5,198.47	167.55	-70.39	171.63	8.84	8.51	-3.40
5,300.00	51.60	326.60	5,229.11	197.34	-89.92	202.58	9.80	9.79	-0.64
5,330.00	54.40	326.40	5,247.16	217.31	-103.14	223.35	9.35	9.33	-0.67
5,394.00	55.60	326.40	5,283.87	260.98	-132.16	268.75	1.88	1.88	0.00
5,488.00	55.50	326.20	5,337.04	325.47	-175.16	335.80	0.21	-0.11	-0.21
5,535.00	57.10	326.70	5,363.12	358.05	-196.77	369.68	3.52	3.40	1.06
5,583.00	59.60	330.90	5,388.31	393.00	-217.91	405.88	9.09	5.21	8.75
5,630.00	64.90	334.00	5,410.20	429.87	-237.12	443.89	12.70	11.28	6.60
5,676.00	69.60	338.00	5,427.99	468.62	-254.34	483.63	12.99	10.22	8.70
5,723.00	72.80	341.00	5,443.13	510.28	-269.91	526.19	9.10	6.81	6.38
5,770.00	75.70	345.90	5,455.90	553.63	-282.77	570.26	11.78	6.17	10.43
5,801.00	78.24	348.34	5,462.89	583.07	-289.50	600.06	11.22	8.18	7.88
Cross 330' FSL 5801 MD/5462.89 TVD 583.07 N -289.5 W N: 665389.1 E: 656551.4									
5,803.00	78.40	348.50	5,463.29	584.99	-289.89	602.00	11.22	8.22	7.80
5,889.00	84.20	352.90	5,476.30	668.82	-303.60	686.54	8.43	6.74	5.12
5,983.00	84.30	353.30	5,485.72	761.67	-314.83	779.91	0.44	0.11	0.43
6,077.00	84.40	353.70	5,494.97	854.62	-325.42	873.33	0.44	0.11	0.43

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Partition 13 FED NC #5H
Project:	Eddy County, NM	TVD Reference:	KB=21.5 @ 3928.50ft
Site:	Sec.24, T.17 S., R. 31 E.	MD Reference:	KB=21.5 @ 3928.50ft
Well:	Partition 13 FED NC #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,175.00	90.60	355.90	5,499.25	952.07	-334.29	971.14	6.71	6.33	2.24
6,269.00	92.70	0.90	5,496.54	1,045.96	-336.91	1,065.01	5.77	2.23	5.32
6,364.00	89.10	1.80	5,495.05	1,140.90	-334.67	1,159.63	3.91	-3.79	0.95
6,457.00	89.00	2.30	5,496.59	1,233.83	-331.35	1,252.17	0.55	-0.11	0.54
6,551.00	89.30	0.30	5,497.98	1,327.79	-329.21	1,345.81	2.15	0.32	-2.13
6,644.00	89.60	0.70	5,498.88	1,420.78	-328.40	1,438.57	0.54	0.32	0.43
6,738.00	89.30	1.00	5,499.78	1,514.77	-327.01	1,532.28	0.45	-0.32	0.32
6,832.00	89.50	1.50	5,500.76	1,608.74	-324.96	1,625.94	0.57	0.21	0.53
6,926.00	89.70	0.20	5,501.42	1,702.72	-323.56	1,719.65	1.40	0.21	-1.38
7,019.00	90.90	358.70	5,500.93	1,795.71	-324.46	1,812.52	2.07	1.29	-1.61
7,113.00	90.50	358.20	5,499.78	1,889.67	-327.00	1,906.45	0.68	-0.43	-0.53
7,206.00	90.60	358.80	5,498.89	1,982.64	-329.43	1,999.38	0.65	0.11	0.65
7,299.00	90.00	359.00	5,498.40	2,075.62	-331.22	2,092.29	0.68	-0.65	0.22
7,393.00	91.10	0.00	5,497.50	2,169.61	-332.04	2,186.15	1.58	1.17	1.06
7,484.00	91.60	0.20	5,495.36	2,260.58	-331.88	2,276.93	0.59	0.55	0.22
7,578.00	91.70	0.50	5,492.65	2,354.54	-331.31	2,370.67	0.34	0.11	0.32
7,672.00	91.20	359.90	5,490.27	2,448.51	-330.98	2,464.44	0.83	-0.53	-0.64
7,766.00	92.10	0.00	5,487.57	2,542.47	-331.06	2,558.22	0.96	0.96	0.11
7,859.00	91.40	359.70	5,484.73	2,635.42	-331.30	2,651.01	0.82	-0.75	-0.32
7,953.00	91.30	0.10	5,482.51	2,729.40	-331.47	2,744.80	0.44	-0.11	0.43
8,047.00	89.80	0.30	5,481.61	2,823.39	-331.14	2,838.59	1.61	-1.60	0.21
8,141.00	90.10	0.30	5,481.69	2,917.39	-330.65	2,932.37	0.32	0.32	0.00
8,233.00	90.80	0.50	5,480.97	3,009.38	-330.00	3,024.15	0.79	0.76	0.22
8,326.00	89.80	0.70	5,480.48	3,102.37	-329.03	3,116.90	1.10	-1.08	0.22
8,420.00	90.00	1.20	5,480.64	3,196.36	-327.47	3,210.60	0.57	0.21	0.53
8,514.00	89.90	1.50	5,480.73	3,290.34	-325.26	3,304.25	0.34	-0.11	0.32
8,608.00	90.20	1.60	5,480.64	3,384.30	-322.71	3,397.87	0.34	0.32	0.11
8,701.00	89.90	1.40	5,480.56	3,477.27	-320.28	3,490.50	0.39	-0.32	-0.22
8,795.00	89.40	1.70	5,481.14	3,571.23	-317.74	3,584.12	0.62	-0.53	0.32
8,888.00	90.50	0.60	5,481.22	3,664.21	-315.87	3,676.80	1.67	1.18	-1.18
8,981.00	91.00	1.20	5,480.00	3,757.19	-314.41	3,769.51	0.84	0.54	0.65
9,076.00	90.30	0.60	5,478.92	3,852.17	-312.92	3,864.21	0.97	-0.74	-0.63
9,171.00	91.00	0.00	5,477.85	3,947.16	-312.42	3,958.98	0.97	0.74	-0.63
9,265.00	91.30	359.90	5,475.96	4,041.14	-312.50	4,052.78	0.34	0.32	-0.11
9,359.00	91.10	359.70	5,473.99	4,135.12	-312.83	4,146.60	0.30	-0.21	-0.21
9,452.00	91.10	359.90	5,472.21	4,228.10	-313.16	4,239.42	0.22	0.00	0.22
9,545.00	89.90	358.80	5,471.39	4,321.09	-314.21	4,332.29	1.75	-1.29	-1.18
9,642.00	90.10	359.00	5,471.39	4,418.07	-316.07	4,429.20	0.29	0.21	0.21
9,735.00	90.20	359.50	5,471.15	4,511.07	-317.29	4,522.08	0.55	0.11	0.54
9,828.00	89.80	359.70	5,471.15	4,604.06	-317.94	4,614.94	0.48	-0.43	0.22
9,921.00	89.90	0.00	5,471.39	4,697.06	-318.18	4,707.77	0.34	0.11	0.32
10,014.00	89.50	359.00	5,471.88	4,790.06	-318.99	4,800.63	1.16	-0.43	-1.08
10,107.00	90.50	358.70	5,471.88	4,883.04	-320.86	4,893.55	1.12	1.08	-0.32

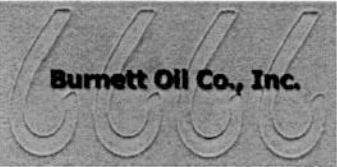
Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Partition 13 FED NC #5H
Project:	Eddy County, NM	TVD Reference:	KB=21.5 @ 3928.50ft
Site:	Sec.24, T.17 S., R. 31 E.	MD Reference:	KB=21.5 @ 3928.50ft
Well:	Partition 13 FED NC #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,200.00	90.20	358.70	5,471.31	4,976.01	-322.97	4,986.47	0.32	-0.32	0.00	
10,293.00	90.80	359.00	5,470.50	5,068.99	-324.84	5,079.38	0.72	0.65	0.32	
10,386.00	90.30	358.90	5,469.61	5,161.97	-326.54	5,172.28	0.55	-0.54	-0.11	
Last MWD Survey 10386 MD/5469.61 TVD 5161.97 N -326.54 W N: 669968.0 E: 656514.3										
10,427.00	90.30	358.90	5,469.39	5,202.96	-327.33	5,213.25	0.00	0.00	0.00	
Cross 330' FNL 10427 MD/5469.39 TVD 5202.96 N -327.33 W N: 670009.0 E: 656513.5										
10,468.00	90.30	358.90	5,469.18	5,243.95	-328.12	5,254.21	0.00	0.00	0.00	
PTB 10468 MD/5469.18 TVD 5243.95 N -328.12 W N: 670050.0 E: 656512.7										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
755.00	754.99	-1.45	3.04	1st MWD Survey	
5,801.00	5,462.89	583.07	-289.50	Cross 330' FSL 5801 MD/5462.89 TVD 583.07 N -289.5 W N: 665389.1 E: 656514.3	
10,386.00	5,469.61	5,161.97	-326.54	Last MWD Survey 10386 MD/5469.61 TVD 5161.97 N -326.54 W N: 669968.0 E: 656514.3	
10,427.00	5,469.39	5,202.96	-327.33	Cross 330' FNL 10427 MD/5469.39 TVD 5202.96 N -327.33 W N: 670009.0 E: 656513.5	
10,468.00	5,469.18	5,243.95	-328.12	PTB 10468 MD/5469.18 TVD 5243.95 N -328.12 W N: 670050.0 E: 656512.7	

Checked By: _____ Approved By: _____ Date: _____



Burnett Oil Co., Inc.

Burnett Oil Company, INC
 Project: Eddy County, NM
 Site: Sec.24, T.17 S., R. 31 E.
 Well: Partition 13 FED NC #5H
 Wellbore: Wellbore #1
 Plan: Plan #3 (10°/100'-200' TGT-12°/100') (Partition 13 FED NC #5H/Wellbore #1)

PROJECT DETAILS: Eddy County, NM
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid

T G M Azimuths to Grid North
 True North: -0.28°
 Magnetic North: 6.78°
 Magnetic Field
 Strength: 48206.6nT
 Dip Angle: 60.57°
 Date: 1/9/2018
 Model: IGRF2015

INTEGRITY
 DIRECTIONAL

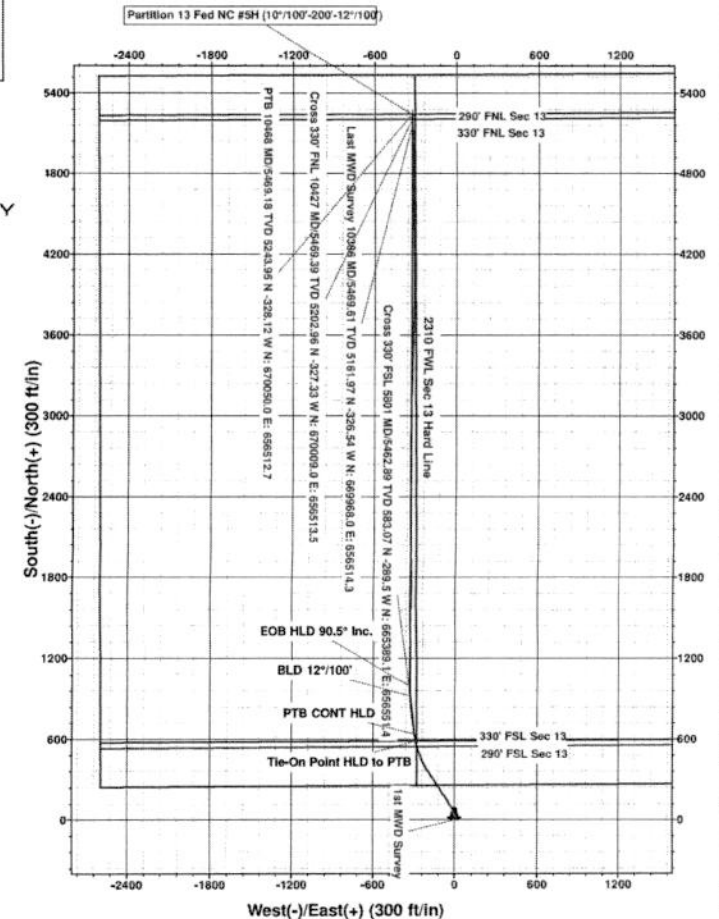
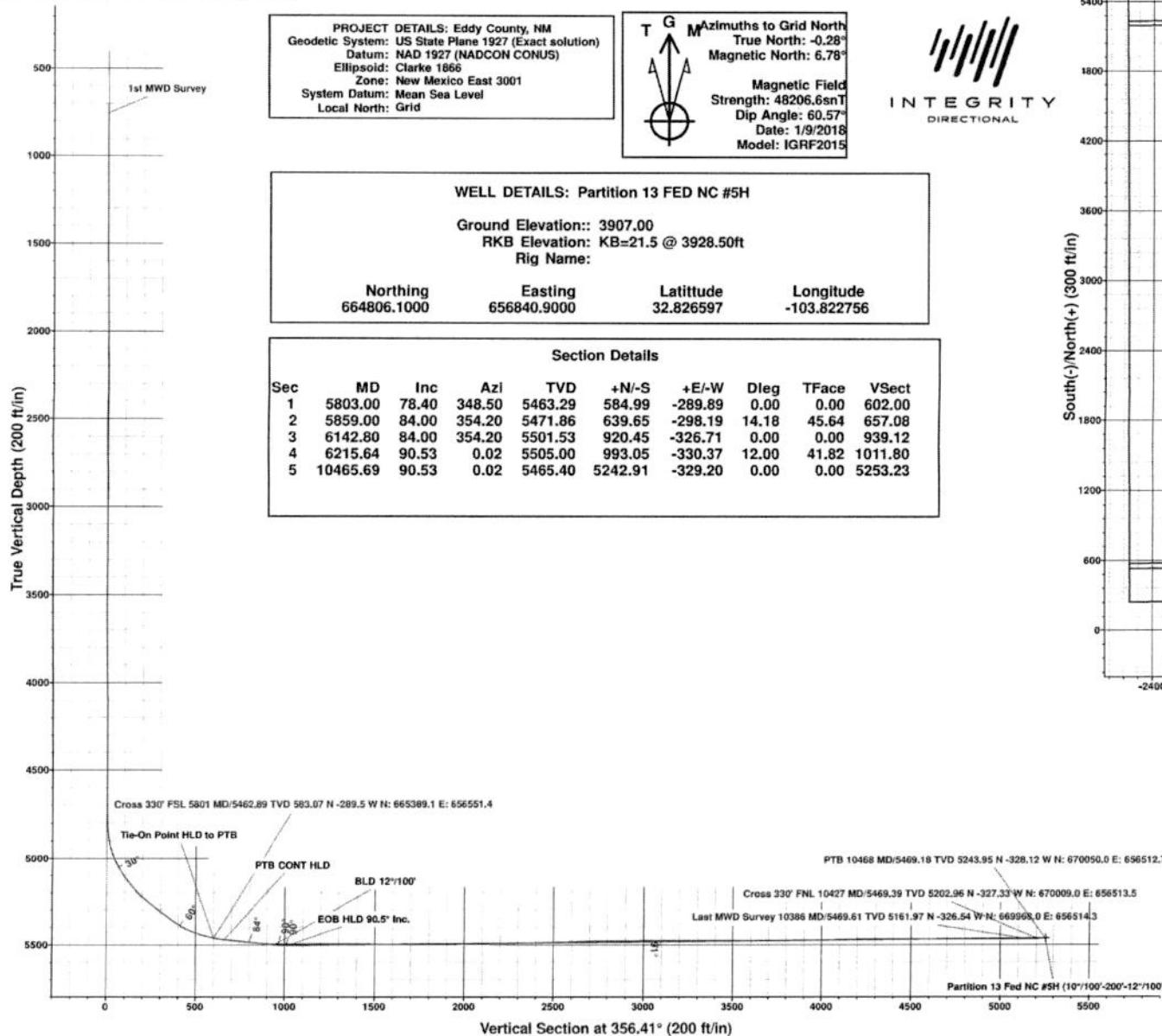
WELL DETAILS: Partition 13 FED NC #5H

Ground Elevation:: 3907.00
 RKB Elevation: KB=21.5 @ 3928.50ft
 Rig Name:

Northing	Easting	Latitude	Longitude
664806.1000	656840.9000	32.826597	-103.822756

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	5803.00	78.40	348.50	5463.29	584.99	-289.89	0.00	0.00	602.00
2	5859.00	84.00	354.20	5471.86	639.65	-298.19	14.18	45.64	657.08
3	6142.80	84.00	354.20	5501.53	920.45	-326.71	0.00	0.00	939.12
4	6215.64	90.53	0.02	5505.00	993.05	-330.37	12.00	41.82	1011.80
5	10465.69	90.53	0.02	5465.40	5242.91	-329.20	0.00	0.00	5253.23



Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD Rec'd: 9/22/2020

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029415B

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv. Other _____						6. If Indian, Allottee or Tribe Name	
						7. Unit or CA Agreement Name and No. NMNM138464	
2. Name of Operator Contact: DEANA WEAVER MACK ENERGY CORPORATION E-Mail: DWEAVER@MEC.COM						8. Lease Name and Well No. PARTITION 13 FEDERAL NC 5H	
3. Address P O BOX 960 ARTESIA, NM 88211-0960				3a. Phone No. (include area code) Ph: 575-748-1288		9. API Well No. 30-015-43530-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 24 T17S R31E Mer NMP At surface NENW 255FNL 2590FWL Sec 13 T17S R31E Mer NMP At top prod interval reported below SESW 330FSL 2325FWL Sec 13 T17S R31E Mer NMP At total depth NENW 289FNL 2291FWL						10. Field and Pool, or Exploratory FREN	
						UNKNOWN	
						11. Sec., T., R., M., or Block and Survey or Area Sec 24 T17S R31E Mer NMP	
						12. County or Parish 13. State EDDY NM	
14. Date Spudded 01/19/2018		15. Date T.D. Reached 02/09/2018		16. Date Completed ☐ D & A ☒ Ready to Prod. 03/07/2018		17. Elevations (DF, KB, RT, GL)* 3907 GL	
18. Total Depth:		MD TVD		10468 5469		19. Plug Back T.D.:	
		MD TVD		10466 5469		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NOLOGS-RECORDCL						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)

[illegible]

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4659							

25. Producing Intervals

20. Perforation Interval			20. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	5164	5253	6189 TO 10245			19 STAGES PACKER PLUG
B) YESO	5253					
C) GLORIETA YESO	6189	10245				
D)						

26. Perforation Record

20. Perforation Interval			20. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	5164	5253	6189 TO 10245			19 STAGES PACKER PLUG
B) YESO	5253					
C) GLORIETA YESO	6189	10245				
D)						

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

Depth Interval	Amount and Type of Material
6189 TO 10245	3407BBLS 15% ACID, 102,065BBLS SW, 1,330,368# 100 MESH, 1,326,197# WI 40/70, 757,969# 40/70 CRC

28. Production - Interval A

Date First Produced 03/07/2018	Test Date 03/18/2018	Hours Tested 24	Test Production 	Oil BBL 393.0	Gas MCF 396.0	Water BBL 1760.0	Oil Gravity Corr. API 38.3	Gas Gravity 0.80	Production Method ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL 393	Gas MCF 396	Water BBL 1760	Gas:Oil Ratio	Well Status POW	

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
03/07/2018	03/18/2018	24		393.0	396.0	1760.0	38.3	0.80	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. 205 SI	Csg. Press. 48.0	24 Hr. Rate 	Oil BBL 393	Gas MCF 396	Water BBL 1760	Gas:Oil Ratio	Well Status POW	

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

ELECTRONIC SUBMISSION #526909 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
RUSTLER	534	800	WATER	RUSTLER	534
SALADO	800	1962	WATER	SALADO	800
YATES	1962	2286	OIL/GAS	YATES	1962
SEVEN RIVERS	2286	2903	OIL/GAS	SEVEN RIVERS	2286
QUEEN	2903	3326	OIL/GAS	QUEEN	2903
GRAYBURG	3326	3658	OIL/GAS	GRAYBURG	3326
SAN ANDRES	3658	5164	OIL/GAS	SAN ANDRES	3658
GLORIETA	5164	5340	OIL/GAS	GLORIETA	5205

32. Additional remarks (include plugging procedure):

POROUS ZONE CONT- YESO 5253 OIL/GAS

RECORD CLEAN-UP

2/27-3/6/2018 Frac 19 stage Packer Plus System (6189.01-10,245.57) w/ 3407bbls 15% Acid, 102,065bbls SW, 1,330,368# 100 Mesh, 1,326,197# 40/70 WI, 757,969# 40/70 CRC. BHA as follows- 2 7/8" bull plug, 6jts 2 7/8" J-55 mud anchor (195.46'), cavins 7" D2716 (800-1600bbls/day flow rate). Summit 562 240 HP Motor, 2-summit, 513 BPBSL seals,

33. Circle enclosed attachments:

- Electrical/Mechanical Logs (1 full set req'd.)
- Geologic Report
- DST Report
- Directional Survey
- Sundry Notice for plugging and cement verification
- Core Analysis
- 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 #526909 Verified by the BLM Well Information System.

For MACK ENERGY CORPORATION, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER SANCHEZ on 09/21/2020 (20JAS0285SE)

Name (please print) DEANA WEAVERTitle PRODUCTION CLERK

Signature _____ (Electronic Submission)

Date 08/24/2020

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

Additional data for transaction #526909 that would not fit on the form

32. Additional remarks, continued

2-Summit gas separator, pump 2 summit 513 series 52 stage, pump 1 summit 513 series 104 stages (158 total stages, total length of pump is 76.15'), 143 jts 2 7/8" J-55 tubing (4640.31'), 149 total jts in the hole, bottom of MA @ 4937.32', desander @ 4741.36', intake @ 4698.86', end of tubing @ 4659.81' all depths are with a 19.5' KB.
3/7/2018 First day of production.

Revisions to Operator-Submitted EC Data for Well Completion #526909

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMLC029415B	NMLC029415B
Agreement:		NMNM138464 (NMNM138464)
Operator:	MACK ENERGY CORPORATION P.O. BOX 960 ARTESIA, NM 88210 Ph: 575-748-1288	MACK ENERGY CORPORATION P O BOX 960 ARTESIA, NM 88211-0960 Ph: 575.748.1288
Admin Contact:	DEANA WEAVER PRODUCTION CLERK E-Mail: DWEAVER@MEC.COM Ph: 575-748-1288	DEANA WEAVER PRODUCTION CLERK E-Mail: DWEAVER@MEC.COM Ph: 575-748-1288
Tech Contact:	DEANA WEAVER PRODUCTION CLERK E-Mail: DWEAVER@MEC.COM Ph: 575-748-1288	DEANA WEAVER PRODUCTION CLERK E-Mail: DWEAVER@MEC.COM Ph: 575-748-1288
Well Name: Number:	PARTITION 13 FEDERAL NC 5H	PARTITION 13 FEDERAL NC 5H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 24 T17S R31E Mer NENW 255FNL 2590FWL	NM EDDY Sec 24 T17S R31E Mer NMP NENW 255FNL 2590FWL
Field/Pool:	FREN GLORIETTA YESO	FREN
Logs Run:	NO LOGS- RECORD CLEAN UP	NOLOGS-RECORDCL
Producing Intervals - Formations:	GLORIETTA YESO	GLORIETTA YESO GLORIETTA YESO
Porous Zones:	RUSTLER SALADO YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETTA	RUSTLER SALADO YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETTA
Markers:	RUSTLER SALASO YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETTA	RUSTLER SALADO YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETTA

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 16893

CONDITIONS OF APPROVAL

Operator: MACK ENERGY CORP P.O. Box 960 11344 Lovington Hwy Artesia, NM88211-0960		OGRID: 13837	Action Number: 16893	Action Type: C-104C
OCD Reviewer ksimmons		Condition None		