

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

NMOCD-REC'D: 09/04/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46689	² Pool Code 98220	³ Pool Name Burton Flat; Upper Wolfcamp (Oil)
⁴ Property Code 32723	⁵ Property Name NORMANDY 31/32 WOMP FED COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 3231'

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
3	31	20S	29E		2520	SOUTH	365	WEST	EDDY

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
P	32	20S	29E		440	SOUTH	100	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
319.78			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

¹⁶ CORNER DATA NAD 83 GRID - NM EAST GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 556465.5 - E: 606584.7 LAT: 32.5296041° N LONG: 104.1216245° W BOTTOM HOLE N: 554394.9 - E: 616668.6 LAT: 32.5238531° N LONG: 104.0889207° W A: FOUND BRASS CAP "1916" N: 553945.7 - E: 606194.2 B: FOUND BRASS CAP "1916" N: 556598.0 - E: 606221.2 C: FOUND 1/2" REBAR N: 559255.8 - E: 606249.5 D: FOUND 1/2" IRON PIPE N: 559244.3 - E: 608824.5 E: FOUND BRASS CAP "1916" N: 559237.1 - E: 611463.8 F: FOUND BRASS CAP "1916" N: 559237.0 - E: 614109.7 G: FOUND BRASS CAP "1916" N: 559235.2 - E: 616755.6 H: FOUND BRASS CAP "1916" N: 553954.9 - E: 616769.8 I: FOUND BRASS CAP "1916" N: 553956.4 - E: 614121.2 J: FOUND BRASS CAP "1916" N: 553952.5 - E: 611478.5 K: FOUND BRASS CAP "1916" N: 553949.1 - E: 608836.9 L: FOUND BRASS CAP "1916" N: 556595.1 - E: 611471.1	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: <u>Jackie Lathan</u> Date: <u>09/04/2020</u> Printed Name: <u>Jackie Lathan</u> E-mail Address: <u>jlathan@mewbourne.com</u> 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: <u>06-28-2019</u> Signature and Seal of Professional Surveyor: Certificate Number: <u>19680</u>
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RRC-Job No: LS19060718



Mewbourne Normandy 31_32 WOMP Fed Com 1H MWD 0ft to 19892ft MD

Survey Geodetic Report

(Def Survey)



Report Date: April 29, 2020 - 09:06 AM
Client: Mewbourne
Field: NM Eddy County (NAD 83)
Structure / Slot: Mewbourne Normandy 31_32 WOMP Fed Com 1H / New Slot
Well: Normandy 31_32 WOMP Fed Com 1H
Borehole: Normandy 31_32 WOMP Fed Com 1H
UWI / API#: Unknown / Unknown
Survey Name: Mewbourne Normandy 31_32 WOMP Fed Com 1H MWD 0ft to 19892ft MD
Survey Date: March 26, 2020
Tort / AHD / DDI / ERD Ratio: 357.430 ° / 12159.739 ft / 6.956 / 1.272
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 31' 46.57487", W 104° 7' 17.84876"
Location Grid N/E Y/X: N 556465.500 ftUS, E 606584.700 ftUS
CRS Grid Convergence Angle: 0.1138 °
Grid Scale Factor: 0.99991397
Version / Patch: 2.10.810.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 101.640 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3259.000 ft above MSL
Seabed / Ground Elevation: 3231.000 ft above MSL
Magnetic Declination: 7.108 °
Total Gravity Field Strength: 998.4959mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47883.020 nT
Magnetic Dip Angle: 60.241 °
Declination Date: March 26, 2020
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1138 °
Total Corr Mag North->Grid 6.9943 °
North:
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	290.97M
Location	135.00	1.60	290.97	134.98	-1.86	0.67	-1.76	1.88	290.97	1.19	313.97M
	188.00	1.70	313.97	187.96	-3.25	1.49	-3.02	3.36	296.21	1.25	120.97M
	368.00	2.40	120.97	367.92	-1.95	1.40	-1.71	2.21	309.36	2.26	234.97M
	467.00	1.40	234.97	466.88	-0.60	-0.72	-0.76	1.05	226.64	2.72	169.97M
	635.00	0.40	169.97	634.86	-1.65	-2.26	-2.15	3.12	223.52	0.87	162.97M
	723.00	1.30	162.97	722.85	-1.06	-3.52	-1.80	3.96	207.14	1.03	178.97M
	816.00	0.30	178.97	815.84	-0.50	-4.77	-1.49	5.00	197.35	1.09	111.97M
	913.00	1.30	111.97	912.83	0.64	-5.44	-0.47	5.46	184.90	1.25	92.97M
	1007.00	1.40	92.97	1006.81	2.82	-5.90	1.67	6.13	164.19	0.49	65.97M
	1099.00	2.30	65.97	1098.76	5.44	-5.20	4.48	6.87	139.29	1.34	47.97M
	1195.00	1.70	47.97	1194.70	7.84	-3.47	7.30	8.08	115.41	0.90	54.97M
	1314.00	1.80	54.97	1313.65	10.17	-1.21	10.14	10.21	96.82	0.20	54.99M
13-3/8" Casing	1353.00	2.18	54.99	1352.62	11.10	-0.43	11.25	11.25	92.21	0.97	55.02M
First SLB	1414.00	2.77	55.02	1413.57	12.91	1.08	13.40	13.45	85.41	0.97	99.34M
Survey	1510.00	1.79	99.34	1509.49	16.00	2.16	16.78	16.92	82.66	2.03	150.31M
	1602.00	3.26	150.31	1601.41	19.17	-0.34	19.50	19.50	91.01	2.77	166.91M
	1696.00	4.80	166.91	1695.18	22.58	-6.50	21.71	22.66	106.66	2.04	180.76M
	1790.00	7.06	180.76	1788.68	25.31	-16.11	22.53	27.69	125.56	2.83	188.77M
	1884.00	9.22	188.77	1881.73	26.78	-29.33	21.30	36.25	144.01	2.59	33.96R
	1979.00	10.41	193.10	1975.34	26.94	-45.21	18.20	48.73	158.08	1.47	12.65R
	2073.00	11.18	193.99	2067.67	26.35	-62.32	14.07	63.89	167.28	0.84	18.18L
	2167.00	11.70	193.15	2159.80	25.73	-80.45	9.70	81.03	173.13	0.58	3.9L
	2261.00	12.46	192.91	2251.72	25.25	-99.61	5.26	99.75	176.98	0.81	2.82R
	2355.00	13.35	193.10	2343.35	24.75	-120.07	0.54	120.07	179.74	0.95	124.74R
	2449.00	12.71	197.54	2434.93	23.41	-140.50	-5.04	140.59	182.05	1.26	167.84R
	2543.00	11.06	199.40	2526.91	21.13	-158.86	-11.15	159.25	184.02	1.80	119.85R
	2637.00	10.98	200.14	2619.18	18.59	-175.77	-17.23	176.61	185.60	0.17	20.69L
	2731.00	11.60	198.98	2711.36	16.06	-193.11	-23.38	194.52	186.90	0.70	6.12R
	2825.00	12.38	199.37	2803.31	13.50	-211.56	-29.80	213.65	188.02	0.83	3.09L
	2920.00	13.41	199.13	2895.91	10.69	-231.57	-36.79	234.48	189.03	1.09	10.72R
	2992.00	14.16	199.71	2965.83	8.37	-247.75	-42.50	251.37	189.73	1.06	13.57L
9-5/8" Casing	3037.00	14.40	199.48	3009.44	6.83	-258.21	-46.22	262.31	190.15	0.55	13.35L
	3120.00	14.84	199.07	3089.76	4.05	-277.98	-53.13	283.02	190.82	0.55	27.14R
	3215.00	14.85	199.09	3181.59	0.90	-300.99	-61.09	307.12	191.47	0.01	120.22L
	3309.00	14.72	198.20	3272.47	-2.03	-323.71	-68.76	330.94	191.99	0.28	115.04R
	3403.00	14.68	198.54	3363.40	-4.83	-346.35	-76.27	354.65	192.42	0.10	105.6L
	3497.00	14.58	197.05	3454.35	-7.37	-368.96	-83.53	378.29	192.76	0.41	24.77L
	3592.00	14.95	196.39	3546.21	-9.51	-392.14	-90.49	402.45	192.99	0.43	5.93R
	3686.00	15.05	196.43	3637.01	-11.54	-415.48	-97.37	426.74	193.19	0.11	152.94L
	3780.00	14.66	195.64	3727.87	-13.39	-438.64	-104.03	450.81	193.34	0.47	48.01R
	3874.00	14.78	196.16	3818.78	-15.16	-461.61	-110.57	474.67	193.47	0.19	13.99L
	3969.00	15.03	195.92	3910.59	-17.03	-485.10	-117.32	499.08	193.60	0.27	16.02L
	4063.00	15.13	195.81	4001.35	-18.84	-508.62	-124.01	523.52	193.70	0.11	50.64R
	4158.00	15.39	196.99	4093.00	-20.91	-532.61	-131.07	548.50	193.83	0.43	162.61R
	4252.00	15.14	197.29	4183.68	-23.28	-556.26	-138.36	573.20	193.97	0.28	58.82R
	4346.00	15.22	197.79	4274.40	-25.81	-579.72	-145.78	597.77	194.12	0.16	LS
	4440.00	14.93	197.79	4365.17	-28.43	-603.00	-153.25	622.17	194.26	0.31	55.62R
	4535.00	15.05	198.46	4456.94	-31.21	-626.36	-160.89	646.69	194.41	0.22	117.47R
	4630.00	14.87	199.84	4548.72	-34.41	-649.52	-168.94	671.13	194.58	0.42	42.05L
	4724.00	15.02	199.32	4639.54	-37.76	-672.36	-177.06	695.28	194.75	0.21	51.13R
	4818.00	15.13	199.84	4730.30	-41.14	-695.39	-185.25	719.65	194.92	0.19	141.46L
	4913.00	15.01	199.47	4822.03	-44.58	-718.66	-193.56	744.27	195.07	0.16	58.71R
	5007.00	15.06	199.91	4912.81	-48.00	-741.63	-201.78	768.59	195.22	0.14	37.76L
	5101.00	15.24	199.44	5003.54	-51.44	-764.78	-210.06	793.10	195.36	0.21	167.39R
	5196.00	15.02	199.63	5095.25	-54.84	-788.14	-218.35	817.83	195.48	0.24	166.98R
	5290.00	14.81	199.82	5186.08	-58.24	-810.92	-226.51	841.96	195.61	0.23	126.33L
	5384.00	14.73	199.39	5276.98	-61.56	-833.49	-234.56	865.87	195.72	0.14	44.3L
	5479.00	14.87	198.86	5368.82	-64.73	-856.42	-242.51	890.09	195.81	0.21	175.89L
	5573.00	14.09	198.63	5459.84	-67.63	-878.68	-250.06	913.57	195.89	0.83	174.22L
	5667.00	13.58	198.41	5551.11	-70.33	-899.99	-257.20	936.02	195.95	0.55	160.13L
	5762.00	12.64	196.85	5643.63	-72.59	-920.52	-263.74	957.56	195.99	1.06	150.89L
	5856.00	11.42	193.36	5735.57	-73.80	-939.42	-268.87	977.14	195.97	1.51	52.18L
	5950.00	12.38	187.91	5827.55	-73.42	-958.46	-272.40	996.42	195.87	1.57	88.01L
	6045.00	12.43	184.34	5920.33	-71.46	-978.74	-274.58	1016.53	195.67	0.81	177.33L
	6139.00	11.57	184.14	6012.28	-68.95	-998.23	-276.03	1035.69	195.46	1.78L	
	6233.00	12.55	184.00	6104.20	-66.36	-1017.82	-277.42	1054.95	195.25	1.04	153.09R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6328.00	12.09	185.12	6197.01	-63.86	-1038.02	-279.03	1074.87	195.05	0.55	134.11L
	6423.00	11.28	180.67	6290.05	-80.96	-1057.23	-280.02	1093.68	194.84	1.27	31.07L
	6518.00	11.70	179.43	6383.14	-57.15	-1076.15	-280.04	1111.99	194.59	0.51	1.6L
	6613.00	13.84	179.18	6475.79	-52.66	-1087.14	-279.78	1132.25	194.31	2.25	150.84R
	6707.00	13.47	180.07	6567.13	-48.04	-1119.33	-279.63	1153.73	194.03	0.45	100.39L
	6802.00	13.35	176.71	6659.54	-43.00	-1141.35	-279.01	1174.96	193.74	0.83	146.56L
	6897.00	12.51	174.11	6752.13	-37.07	-1162.53	-277.33	1195.15	193.42	1.08	152.84R
	6993.00	11.62	176.40	6846.01	-31.40	-1182.52	-275.66	1214.23	193.12	1.05	165.4R
	7087.00	10.69	177.71	6938.24	-26.81	-1200.68	-274.71	1231.71	192.89	1.03	75.06R
	7182.00	11.38	187.68	7031.49	-24.04	-1218.78	-275.61	1249.55	192.74	2.13	59.74R
	7276.00	12.06	192.87	7123.53	-23.61	-1237.54	-279.04	1268.61	192.71	1.33	125.29R
	7370.00	11.91	193.91	7215.48	-24.21	-1256.53	-283.56	1288.13	192.72	0.28	173.63L
	7465.00	9.87	192.58	7308.76	-24.73	-1274.00	-287.69	1306.07	192.72	2.16	159.88L
	7559.00	8.82	190.05	7401.52	-24.66	-1288.96	-290.70	1321.33	192.71	1.20	5.72R
	7654.00	11.97	191.57	7494.95	-24.45	-1305.78	-293.95	1338.46	192.69	3.33	121.3R
	7748.00	11.79	193.05	7586.93	-24.67	-1324.69	-298.07	1357.81	192.68	0.38	173.93L
	7842.00	10.31	192.17	7679.19	-24.99	-1342.27	-302.01	1375.82	192.68	1.58	158.73R
	7937.00	8.75	196.22	7772.87	-25.64	-1357.52	-305.83	1391.54	192.70	1.79	68.04L
	8031.00	9.24	189.58	7865.72	-25.94	-1371.82	-309.08	1406.21	192.70	1.22	174.54R
	8125.00	8.40	190.13	7958.61	-25.49	-1386.02	-311.54	1420.61	192.67	0.90	168.95L
	8219.00	6.36	186.51	8051.82	-24.84	-1397.96	-313.34	1432.64	192.63	2.22	168.59M
	8314.00	4.24	168.59	8146.42	-23.00	-1406.63	-313.24	1441.08	192.55	2.81	180.16M
	8408.00	5.29	180.16	8240.10	-20.77	-1414.37	-312.57	1448.49	192.46	1.51	190.28M
	8503.00	5.59	190.28	8334.67	-19.79	-1423.30	-313.40	1457.40	192.42	1.06	192.63M
	8597.00	5.59	192.63	8428.22	-19.76	-1432.27	-315.22	1466.55	192.41	0.24	191.07M
	8691.00	4.38	191.07	8521.87	-19.81	-1440.26	-316.91	1474.72	192.41	1.30	127.02M
	8785.00	1.81	127.02	8615.74	-18.43	-1444.68	-316.42	1478.93	192.35	4.19	88.74M
	8880.00	2.62	88.74	8710.67	-14.96	-1445.54	-313.05	1479.05	192.22	1.73	92.82M
	8912.00	2.22	92.82	8742.65	-13.63	-1445.55	-311.70	1478.77	192.17	1.36	69.76M
	8959.00	2.57	69.76	8789.61	-11.84	-1445.23	-309.80	1478.06	192.10	2.16	57.4M
	9006.00	4.98	57.40	8836.50	-9.48	-1443.77	-307.09	1476.07	192.01	5.38	111.23M
	9100.00	16.35	111.23	8928.88	6.57	-1446.37	-291.24	1475.40	191.38	14.88	45.47R
	9195.00	23.89	127.97	9018.09	37.06	-1463.09	-263.55	1486.64	190.21	9.91	19.85R
	9289.00	32.36	133.58	9100.93	75.55	-1492.20	-230.26	1509.86	188.77	9.43	19.2R
	9383.00	42.98	138.91	9175.25	122.54	-1533.82	-190.85	1545.65	187.09	11.81	1.45R
	9478.00	55.87	139.30	9236.91	179.68	-1588.27	-143.73	1594.76	185.17	13.57	4.74L
	9572.00	69.81	138.06	9279.72	246.30	-1650.89	-88.61	1653.27	183.07	14.87	29.17L
	9666.00	80.66	132.03	9303.66	322.06	-1715.02	-24.45	1715.19	180.82	13.11	60.4L
	9722.00	84.50	125.34	9310.90	371.51	-1749.69	18.89	1749.79	179.38	13.69	54.85L
7" Casing	9790.00	86.32	122.75	9316.34	434.16	-1787.63	75.03	1789.20	177.60	4.65	54.65L
	9814.00	86.97	121.84	9317.74	456.58	-1800.43	95.29	1802.95	176.97	4.65	85.49L
	9909.00	87.11	120.08	9322.65	546.11	-1849.23	176.64	1857.65	174.54	1.86	76.1L
	10003.00	87.38	118.99	9327.17	635.46	-1895.52	258.33	1913.04	172.24	1.19	75.49L
	10097.00	87.87	117.10	9331.06	725.55	-1939.67	341.21	1969.46	170.02	2.08	108.54L
	10192.00	86.63	113.38	9335.62	817.76	-1980.13	427.03	2025.65	167.83	4.12	94.09L
	10286.00	86.35	109.34	9341.38	910.22	-2014.29	514.39	2078.94	165.67	4.30	79.82L
	10380.00	87.18	104.77	9346.69	1003.62	-2041.81	604.09	2129.30	163.52	4.93	61.92L
	10475.00	89.62	100.21	9349.34	1098.54	-2062.34	696.77	2176.86	161.33	5.44	73.77L
	10569.00	90.93	95.71	9348.89	1192.32	-2075.35	789.84	2220.57	159.16	4.99	113.79L
	10664.00	89.17	91.72	9348.80	1286.39	-2081.51	884.62	2261.68	156.98	4.59	42.86L
	10758.00	90.28	90.69	9349.26	1378.83	-2083.48	978.59	2301.86	154.84	1.61	121.76L
	10853.00	89.24	89.01	9349.65	1471.82	-2083.23	1073.59	2343.60	152.74	2.08	8.39R
	10947.00	91.07	89.28	9349.40	1563.59	-2081.83	1167.57	2386.89	150.71	1.97	90R
	11041.00	91.07	89.89	9347.64	1655.50	-2081.15	1261.55	2433.66	148.78	0.85	178.83L
	11136.00	89.11	89.85	9347.49	1748.50	-2080.94	1356.55	2484.05	146.90	2.06	178.83L
	11231.00	86.66	89.80	9351.00	1841.42	-2080.65	1451.48	2536.90	145.10	2.58	140.42L
	11324.00	85.90	89.17	9357.03	1932.14	-2079.81	1544.27	2590.44	143.41	1.06	33.23L
	11419.00	86.83	88.56	9363.06	2024.60	-2077.93	1639.06	2648.57	141.73	1.17	0.16R
	11514.00	90.34	88.57	9365.40	2117.10	-2075.56	1733.99	2704.56	140.12	3.69	83.34L
	11608.00	90.41	87.97	9364.79	2208.55	-2072.72	1827.94	2763.61	138.59	0.64	134.27L
	11703.00	88.49	86.00	9365.70	2300.44	-2067.72	1922.80	2823.58	137.08	2.90	176.91L
	11797.00	87.38	85.94	9369.09	2390.89	-2061.12	2016.50	2883.49	135.63	1.18	159.9L
	11891.00	83.28	84.43	9376.74	2480.72	-2053.26	2109.84	2944.03	134.22	4.65	15.91R
	11986.00	88.69	85.97	9383.39	2571.58	-2045.34	2204.24	3007.00	132.86	5.92	30.69R
	12080.00	90.83	87.24	9383.78	2662.35	-2039.77	2298.06	3072.75	131.59	2.65	14.16R
	12175.00	91.86	87.50	9381.55	2754.39	-2035.41	2392.94	3141.51	130.38	1.12	169.88R
	12269.00	89.45	87.93	9380.48	2845.62	-2031.67	2486.85	3211.24	129.25	2.60	41.04R
	12364.00	92.24	90.36	9379.08	2938.34	-2030.25	2581.81	3284.46	128.18	3.89	24.28R
	12458.00	92.86	90.64	9374.89	3030.48	-2031.07	2675.71	3358.27	127.20	0.72	98.06R
	12647.00	92.41	93.79	9366.20	3216.71	-2038.37	2864.35	3515.60	125.44	1.68	166.07R
	12742.00	87.73	94.95	9366.09	3310.91	-2045.60	2959.04	3597.28	124.66	5.08	158.46R
	12836.00	86.87	95.29	9370.52	3404.20	-2053.98	3052.56	3679.26	123.94	0.98	94.96R
	12913.00	86.73	96.92	9374.81	3480.72	-2062.16	3129.00	3747.42	123.39	2.12	62.45L
	13009.00	87.45	95.54	9379.69	3576.17	-2072.56	3224.31	3832.98	122.73	1.62	97.22L
	13104.00	87.01	92.02	9384.28	3670.15	-2078.82	3318.98	3916.26	122.06	3.73	52.78L
	13198.00	87.80	90.98	9388.54	3762.58	-2081.27	3412.85	3997.40	121.38	1.39	79.56L
	13293.00	87.87	90.60	9392.13	3855.82	-2082.58	3507.77	4079.41	120.70	0.41	14.38L
	13387.00	89.04	90.30	9394.66	3948.00	-2083.32	3601.73	4160.85	120.05	1.28	131.2L
	13482.00	88.69	89.90	9396.54	4041.06	-2083.49	3696.71	4243.42	119.41	0.56	30.22R
	13670.00	89.72	90.50	9399.15	4225.30	-2084.14	3884.69	4408.46	118.21	0.63	135.66R
	13764.00	89.28	90.93	9399.97	4317.59	-2085.32	3978.68	4492.04	117.66	0.65	48.37L
	13954.00	89.52	90.66	9401.96	4504.19	-2087.95	4168.65	4662.32	116.60	0.19	97.67L
	14048.00	89.31	89.10	9402.92	4596.21	-2087.76	4262.64	4746.46	116.09	1.67	95.97R
	14237.00	89.14	90.73	9405.48	4781.24	-2087.48	4451.62	4916.75	115.12	0.87	95.91L
	14332.00	89.11	90.44	9406.93	4874.47	-2088.45	4546.60	5003.32	114.67	0.31	45R
	14426.00	89.14	90.47	9408.36	4966.67	-2089.19	4640.59	5089.18	114.24	0.05	HS
	14521.00	89.35	90.47	9409.61	5059.86	-2089.97	4735.58	5176.26	113.81	0.22	90R
	14616.00	89.35	90.48	9410.69	5153.06	-2090.76	4830.57	5263.62	113.40	0.01	135.84L
	14710.00	89.00	90.14	9412.05	5245.22	-2091.27	4924.56	5350.20	113.01	0.52	47.6R
	14805.00	89.21	90.37	9413.53	5338.34	-2091.69	5019.54	5437.92	112.62	0.33	66.71R
	14899.00	89.52	91.09	9414.57	5430.63	-2092.89	5113.53	5525.25	112.26	0.83	122.31L
	14994.00	88.97	90.22	9415.82	5523.88	-2093.97	5208.51	5613.67	111.90	1.08	163.4L
	15089.00	87.83	89.88	9418.48	5616.91	-2094.06	5303.48	5701.92	111.55	1.25	8

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	16036.00	90.76	88.47	9439.79	6540.19	-2075.40	6249.98	6585.56	108.37	2.04	179.18L
	16131.00	87.97	88.43	9440.84	6632.66	-2072.83	6344.93	6674.94	108.09	2.94	176.58R
	16225.00	86.80	88.50	9445.13	6724.09	-2070.31	6438.80	6763.46	107.82	1.25	12.67L
	16414.00	88.49	88.12	9452.90	6907.84	-2064.74	6627.55	6941.73	107.30	0.92	50.79R
	16509.00	88.80	88.50	9455.14	7000.25	-2061.94	6722.48	7031.60	107.05	0.52	101.89L
	16603.00	88.76	88.31	9457.14	7091.74	-2059.33	6816.42	7120.71	106.81	0.21	1.72R
	16698.00	89.76	88.34	9458.37	7184.17	-2056.55	6911.37	7210.86	106.57	1.05	179.5L
	16792.00	88.62	88.33	9459.70	7275.64	-2053.82	7005.32	7300.19	106.34	1.21	9.31R
	16887.00	90.45	88.63	9460.47	7368.14	-2051.30	7100.28	7390.66	106.11	1.95	164.96R
	16981.00	88.18	89.24	9461.60	7459.82	-2049.55	7194.25	7480.51	105.90	2.50	62.27R
	17076.00	88.69	90.21	9464.19	7552.74	-2049.10	7289.22	7571.75	105.70	1.15	171.87R
	17171.00	88.62	90.22	9466.42	7645.83	-2049.45	7384.19	7663.32	105.51	0.07	39.98R
	17265.00	88.93	90.48	9468.43	7737.99	-2050.03	7478.17	7754.07	105.33	0.43	107.66L
	17360.00	88.86	90.26	9470.26	7831.14	-2050.64	7573.15	7845.87	105.15	0.24	158.38R
	17454.00	88.28	90.49	9472.61	7923.30	-2051.26	7667.11	7936.77	104.98	0.66	22.13R
	17549.00	88.87	90.73	9474.97	8016.52	-2052.27	7762.08	8028.80	104.81	0.67	80.89L
	17643.00	89.00	89.92	9476.72	8108.67	-2052.80	7856.06	8119.83	104.64	0.87	165.72R
	17738.00	88.45	90.06	9478.83	8201.69	-2052.78	7951.04	8211.75	104.48	0.60	20.37L
	17833.00	88.80	89.93	9481.11	8294.71	-2052.78	8046.01	8303.74	104.31	0.39	22.24L
	17927.00	91.27	88.92	9481.05	8386.57	-2051.83	8140.00	8394.61	104.15	2.84	114.35L
	18021.00	90.21	86.58	9479.84	8477.81	-2048.14	8233.91	8484.82	103.97	2.73	154.93L
	18117.00	86.90	85.03	9482.26	8570.12	-2041.12	8329.60	8576.04	103.77	3.81	164.96R
	18210.00	82.69	86.17	9490.69	8659.11	-2034.02	8421.92	8664.07	103.58	4.89	132.83R
	18252.00	81.40	87.58	9496.51	8699.33	-2031.75	8463.46	8703.91	103.50	4.53	162.38R
	18301.00	81.12	87.67	9503.95	8746.32	-2029.74	8511.85	8750.51	103.41	0.60	15.07R
	18393.00	87.97	89.51	9512.69	8835.48	-2027.50	8603.34	8839.02	103.26	7.71	40.14R
	18486.00	90.83	91.92	9513.67	8926.78	-2028.66	8696.31	8929.80	103.13	4.02	57.84R
	18578.00	91.27	92.62	9511.98	9017.53	-2032.30	8788.23	9020.15	103.02	0.90	90R
	18670.00	91.27	93.37	9509.94	9108.47	-2037.11	8880.08	9110.74	102.92	0.82	156.98R
	18763.00	90.14	93.85	9508.80	9200.54	-2042.96	8972.88	9202.52	102.83	1.32	171.32R
	18855.00	88.83	94.05	9509.63	9291.71	-2049.30	9064.66	9293.42	102.74	1.44	52.42R
	18947.00	89.90	95.44	9510.65	9383.04	-2056.91	9156.33	9384.53	102.66	1.91	162.34L
	19039.00	88.55	95.01	9511.89	9474.45	-2065.29	9247.94	9475.75	102.59	1.54	163.72L
	19131.00	87.25	94.63	9515.26	9565.74	-2073.01	9339.55	9566.85	102.51	1.47	145.16L
	19224.00	86.49	94.10	9520.34	9657.85	-2080.08	9432.14	9658.78	102.44	1.00	2.77L
	19316.00	87.11	94.07	9525.47	9748.91	-2086.62	9523.77	9749.67	102.36	0.67	58.24R
	19408.00	87.76	95.12	9529.59	9840.12	-2093.99	9615.38	9840.74	102.29	1.34	134.12R
	19500.00	87.45	95.44	9533.44	9931.47	-2102.45	9706.91	9931.98	102.22	0.48	158.46R
	19593.00	86.59	95.78	9538.27	10023.83	-2111.52	9799.33	10024.25	102.16	0.99	149.59L
	19685.00	86.25	95.58	9544.02	10115.16	-2120.61	9890.70	10115.48	102.10	0.43	120.11R
	19777.00	85.73	96.48	9550.45	10206.49	-2130.25	9981.97	10206.75	102.05	1.13	172.68L
	19845.00	84.80	96.36	9556.06	10273.98	-2137.83	10049.31	10274.19	102.01	1.38	HS
Last Survey Proj to Bit	19892.00	84.80	96.36	9560.32	10320.58	-2143.02	10095.83	10320.77	101.98	0.00	

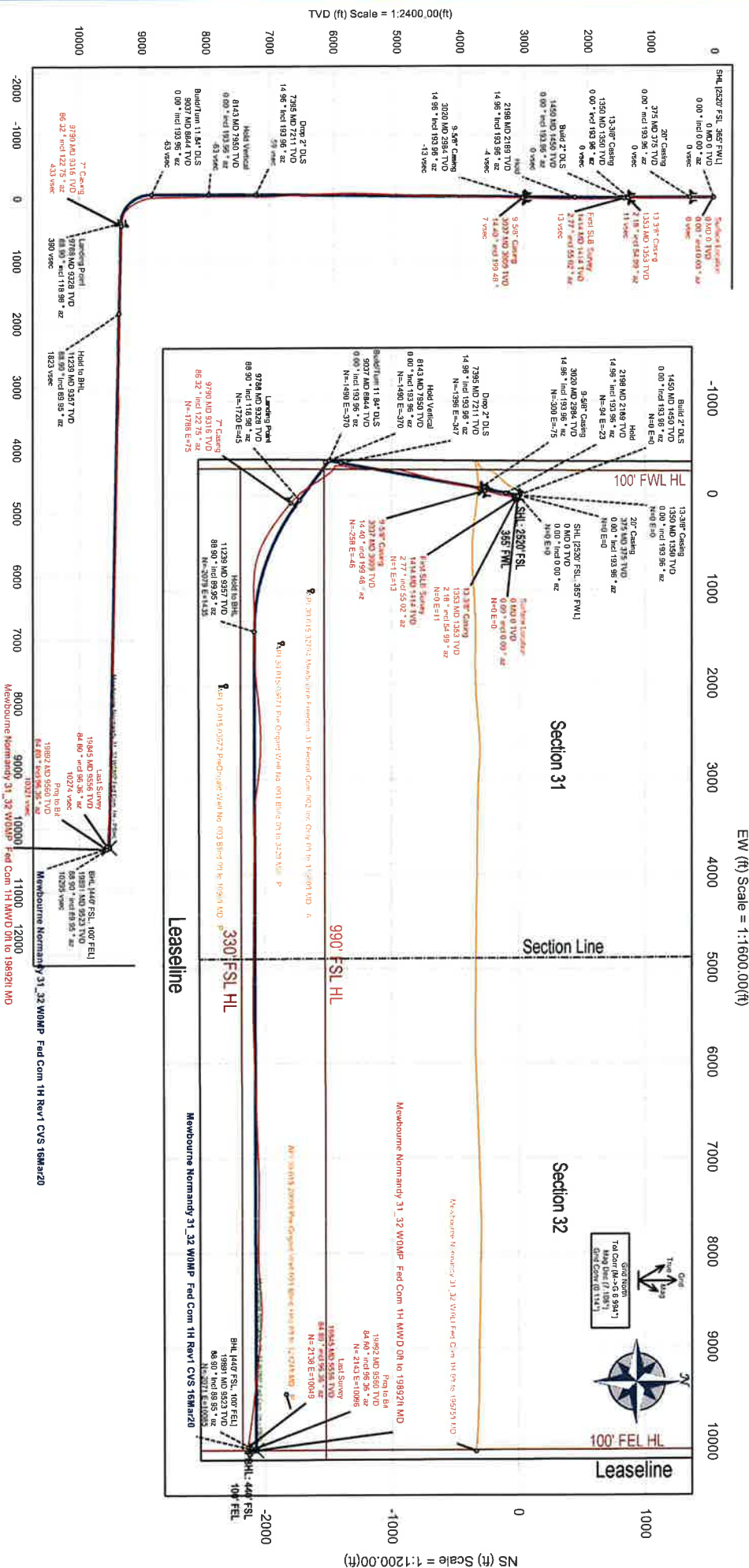
Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/98.425	17.500	13.375	NAL_MWD-NON_SLB-Depth Only	Normandy 31_32 WOMP Fed Com 1H / Mewbourne Normandy 31_32 WOMP Fed Com 1H Normandy 31_32 WOMP Fed
	1	28.000	28.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB-Depth Only	Com 1H / Mewbourne Normandy 31_32 WOMP Fed Com 1H Normandy 31_32 WOMP Fed
	1	28.000	1353.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB	Com 1H / Mewbourne Normandy Normandy 31_32 WOMP Fed
	1	1353.000	3037.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG	Com 1H / Mewbourne Normandy Normandy 31_32 WOMP Fed
	1	3037.000	9790.000	Act Stns	8.750	7.000	NAL_MWD_1.0_DEG	Com 1H / Mewbourne Normandy Normandy 31_32 WOMP Fed
	1	9790.000	19892.000	Act Stns	6.125	4.500	NAL_MWD_1.0_DEG	Com 1H / Mewbourne Normandy

Mewbourne

Critical Point	Critical Points							
	MD	INCL	AZIM	TYD	VEEC	NP+PS ⁽¹⁾	EP+PW ⁽²⁾	DLS
SHL [2520° FSL, 365° FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20° Casing	375.00	0.00	193.96	375.00	0.00	0.00	0.00	0.00
13-3/8" Casing	1350.00	0.00	193.96	1350.00	0.00	0.00	0.00	0.00
Build 2° DLS	1450.00	0.00	193.96	1450.00	0.00	0.00	0.00	0.00
Hold	2197.77	14.96	193.96	2189.31	-3.99	-94.17	-23.41	2.00
9-5/8" Casing	3020.00	14.96	193.96	2963.69	-12.72	-300.09	-74.61	0.00
Drop 2° DLS	7395.21	14.96	193.96	7210.69	-59.19	-1385.83	-347.04	0.00
Hold Vertical	8142.98	0.00	193.96	7950.00	-63.18	-1490.00	-370.45	2.00
Build/Turn 11.84° DLS	9037.02	0.00	193.96	8844.04	-63.18	-1490.00	-370.45	0.00
Landing Point	9780.05	88.90	18.98	9328.00	389.91	-1720.00	44.86	11.84
Hold to BHL	11239.23	88.90	88.95	9366.52	1823.55	-2078.51	1434.80	2.00
BHL [440° FSL, 100° FEL]	19890.83	88.90	89.95	9523.00	10295.20	-2070.78	10084.79	0.00



Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

May 4, 2020

MEWBOURNE OIL COMPANY
PO Box 5270
Hobbs, NM 88240

Re:

S31, T20S, R29E Eddy, NM
N 32.52976041 W -104.1216245

CLIENT: MEWBOURNE OIL COMPANY
WELL: Normandy 31/32 W0MP Fed Com 1H
FIELD: Red Hills

RIG: Patterson 574
COUNTY: Eddy
API NO: 30-015-46689
JOB NO: 20MLE0587

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Alexander Camacho FS	Normandy 31/32 W0MP Fed Com 1H Original Hole	1414.00 Ft to 19845.00 Ft	March 6, 2020 to March 25, 2020	TelePacer SlimPulse

Schlumberger Drilling and Measurements

Drilling Group

Geo Market Area: South West Texas Basin

7220 W I-H 20

Midland, Texas 79706

Phone : (432) 742-5400 (Main)

Fax : (432) 742-5606 (Shared)

Well Reference:

S31, T20S, R29E Eddy, NM

N 32.52976041 W -104.1216245

Schlumberger

I, Alexander Camacho certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 06, 2020 through March 25, 2020, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 1414.00 feet to a depth of 19845.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of MEWBOURNE OIL COMPANY for the Normandy 31/32 WOMP Fed Com 1H Well (Original Hole) API No. 30-015-46689 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By

Alexander Camacho

FS

Alexander Camacho

Subscribed and Sworn to before me this 4 day of May (month) 2020 (yr)

My Commission expires:

6-14-23

Jean-Paul Langlois

Notary Public

(signature)

Courtois Oklahoma

(County State)

