

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: 09/03/2020

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 30-015-46692		² Pool Code 98315		³ Pool Name Burton Flat; Wolfcamp (Oil)	
⁴ Property Code 327125		⁵ Property Name NORMANDY 31/32 WOLI FED COM			⁶ Well Number 1H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3232'

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		2579	SOUTH	355	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
I	32	20S	29E		2181	SOUTH	86	EAST	EDDY

¹² Dedicated Acres 319.28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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: 556524.6 - E: 606575.1 LAT: 32.5297667° N LONG: 104.1216554° W BOTTOM HOLE N: 556154.4 - E: 616663.9 LAT: 32.5286898° N LONG: 104.0889230° W		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>09/02/2020</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. 06-28-2019 Date of Survey Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>19680</u>		19 RRC-Job No: LS19060717	



Borehole:

Normandy 31_32 WOLI Fed Com 1H

Well:

Normandy 31_32 WOLI Fed Com 1H

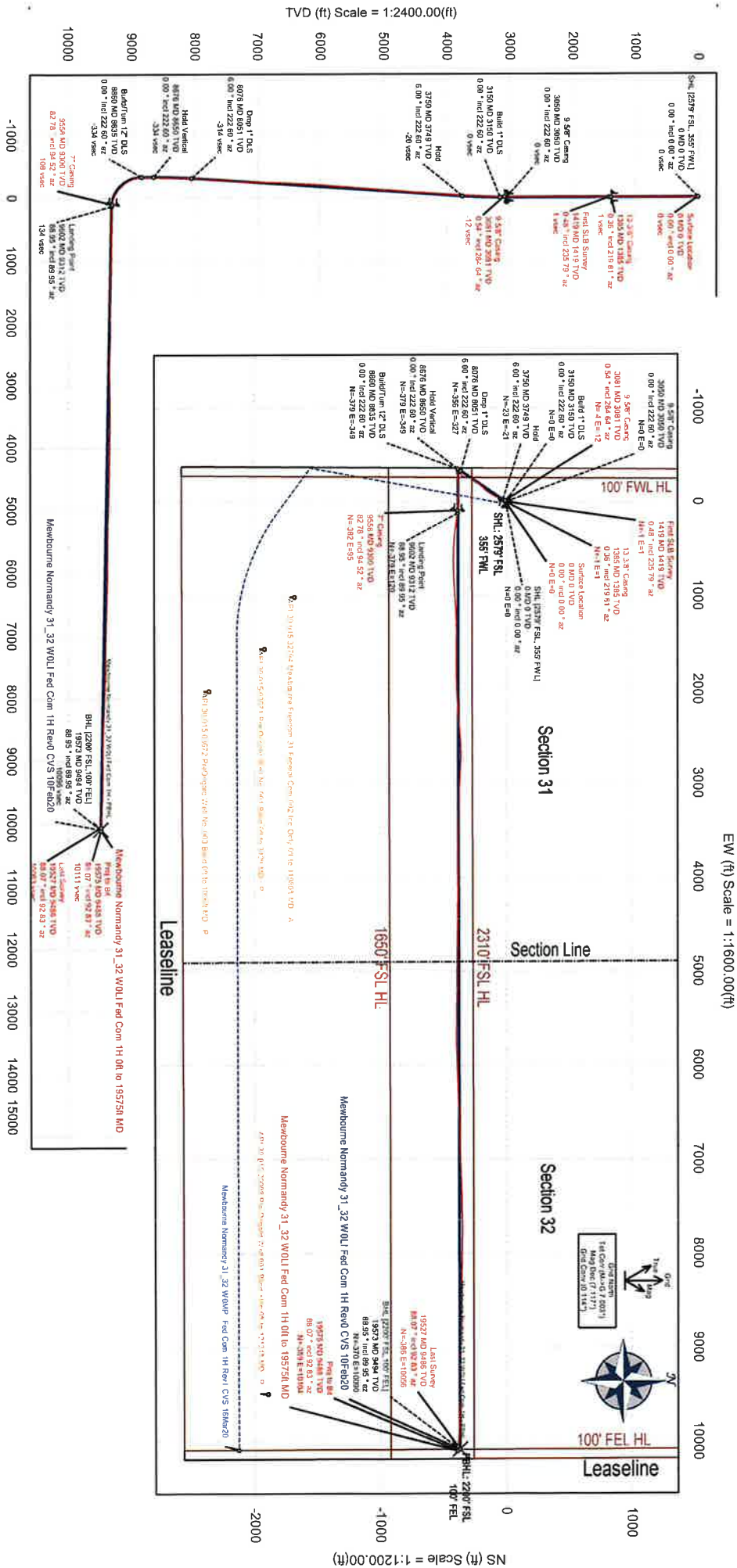
Field:

NM Eddy County (NAD 83)

Structure:

Mewbourne Normandy 31_32 WOLI Fed Com 1H

Gravity & Magnetic Parameters				Surface Location			Miscellaneous		
Model: HDOM 2019	Dip: 60.245°	Date: 25-Feb-2020	Gravty F.S.: 998.498mgal (9.80665 Gauss)	Lat: N 32 31 47.16	Long: W 104 7 17.96	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Northings: 556924.8NUS	Grid Conv: 0.99991366	TVD Ref: RMG(326ft above MSL)
MagDec: 7.117°	F.S.: 47891.918mT								New Slot
									Sit: Membourne Normandy 31_32 WHLL Fed Com 1H RwyD CVS 10FceBZ0
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS	
SHL [2579' FSL, 365' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9-5lb Casing	3050.00	0.00	222.60	3050.00	0.00	0.00	0.00	0.00	
Buidl 1" DLS	3150.00	0.00	222.60	3150.00	0.00	0.00	0.00	0.00	
Hold	3750.00	6.00	222.60	3748.91	-20.38	-23.11	-21.24	1.00	
Drop 1" DLS	6075.89	6.00	222.60	8061.09	-314.01	-365.98	-327.29	0.00	
Hold Vertical	8675.89	0.00	222.60	8650.00	-334.39	-379.08	-348.53	1.00	
Buidl/Turn 12" DLS	8860.50	0.00	222.60	8834.61	-334.39	-379.08	-348.53	0.00	
Landing Point	9601.78	88.95	89.95	9312.00	134.02	-376.69	120.22	12.00	
BHL [2200' FSL, 100' FEEL]	19572.92	88.95	89.95	9494.00	10096.48	-370.23	10089.69	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)



April 6, 2020

MEWBOURNE OIL COMPANY
PO Box 5270
Hobbs, NM 88240

SEC 31, T20S, R29E, Eddy NM
N 32.5297667 W -104.1216554

Re:

CLIENT: MEWBOURNE OIL COMPANY
WELL: Normandy 31/32 W0LI Fed Com 1H
FIELD: RED HILLS / BONE SPRING

RIG: Patterson # 560
COUNTY: Eddy
API NO: 30-015-46692
JOB NO: 20MLE0586

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 W0LI Fed Com 1H Original Hole	1419.00 Ft to 19527.00 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)

Schlumberger

Well Reference:

SEC 31, T20S, R29E, Eddy NM

N 32.5297667 W -104.1216554

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 1419.00 feet to a depth of 19527.00 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 WOLI Fed Com 1H Well (Original Hole) API No. 30-015-46692 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 6 day of April (month) 2020 (yr)

My Commission expires:

6/14/23

Jean-Paul Langlois

(signature)

Notary Public

Constance Velazquez

(County State)



Mewbourne Normandy 31_32 WOLI Fed Com 1H 0ft to 19575ft MD Survey



Geodetic Report

(Def Survey)

Report Date: March 27, 2020 - 04:03 PM
Client: Mewbourne
Field: NM Eddy County (NAD 83)
Structure / Slot: Mewbourne Normandy 31_32 WOLI Fed Com 1H / New Slot
Well: Normandy 31_32 WOLI Fed Com 1H
Borehole: Normandy 31_32 WOLI Fed Com 1H
UWI / API#: Unknown / Unknown
Survey Name: Mewbourne Normandy 31_32 WOLI Fed Com 1H 0ft to 19575ft MD
Survey Date: February 25, 2020
Tort / AHD / DDI / ERD Ratio: 258.418 ° / 11031.568 ft / 6.770 / 1.163
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 31' 47.15989", W 104° 7' 17.95953"
Location Grid N/E Y/X: N 556524.600 ftUS, E 606575.100 ftUS
CRS Grid Convergence Angle: 0.1138 °
Grid Scale Factor: 0.99991396
Version / Patch: 2.10.810.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 92.100 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3260.000 ft above MSL
Seabed / Ground Elevation: 3232.000 ft above MSL
Magnetic Declination: 7.117 °
Total Gravity Field Strength: 998.4959mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47891.918 nT
Magnetic Dip Angle: 60.245 °
Declination Date: February 25, 2020
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1138 °
Total Corr Mag North->Grid North: 7.0028 °
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	208.98M
Location	179.00	0.50	208.98	179.00	-0.35	-0.68	-0.38	0.78	208.98	0.28	269.98M
	349.00	1.10	269.98	348.98	-2.32	-1.33	-2.37	2.72	240.65	0.57	272.98M
	443.00	1.30	272.98	442.96	-4.29	-1.28	-4.34	4.52	253.59	0.22	283.98M
	575.00	0.40	283.98	574.95	-6.24	-1.09	-6.28	6.37	260.17	0.69	84.98M
	664.00	0.80	84.98	663.94	-5.92	-0.86	-5.96	6.04	260.86	1.33	85.98M
	814.00	0.70	85.98	813.93	-3.97	-0.80	-4.00	4.08	258.66	0.07	74.98M
	914.00	0.90	74.98	913.92	-2.61	-0.56	-2.64	2.69	258.08	0.25	96.98M
	1008.00	0.70	96.98	1007.91	-1.34	-0.44	-1.35	1.42	252.18	0.39	95.98M
	1098.00	0.70	95.98	1097.91	-0.24	-0.56	-0.26	0.62	205.04	0.01	56.98M
	1191.00	0.60	56.98	1190.90	0.72	-0.35	0.71	0.79	116.38	0.48	140.98M
	1284.00	0.40	140.98	1283.90	1.34	-0.34	1.32	1.37	104.40	0.74	219.81M
13-3/8" Casing	1385.00	0.36	219.81	1384.90	1.37	-0.86	1.34	1.59	122.70	0.48	235.79M
First SLB	1419.00	0.48	235.79	1418.90	1.19	-1.02	1.15	1.54	131.59	0.48	242.55M
Survey	1513.00	0.62	242.55	1512.89	0.43	-1.48	0.38	1.53	165.72	0.16	242.99M
	1607.00	0.83	242.99	1606.88	-0.61	-2.02	-0.68	2.14	198.60	0.22	246.21M
	1701.00	0.57	246.21	1700.88	-1.62	-2.52	-1.72	3.05	214.23	0.28	242.26M
	1889.00	0.64	242.26	1888.87	-3.37	-3.39	-3.50	4.87	225.94	0.04	243.41M
	1984.00	0.64	243.41	1983.86	-4.30	-3.87	-4.44	5.89	228.94	0.01	265M
	2078.00	0.48	265.00	2077.86	-5.15	-4.14	-5.31	6.73	232.03	0.28	179.2M
	2172.00	0.46	179.20	2171.85	-5.52	-4.55	-5.69	7.29	231.35	0.68	259.6M
	2266.00	0.46	259.60	2265.85	-5.87	-5.00	-6.06	7.85	230.48	0.63	252.04M
	2360.00	0.48	252.04	2359.85	-6.61	-5.19	-6.80	8.56	232.68	0.07	269.33M
	2454.00	0.38	269.33	2453.85	-7.29	-5.31	-7.49	9.18	234.66	0.17	271.01M
	2548.00	0.40	271.01	2547.84	-7.93	-5.31	-8.13	9.71	236.85	0.02	289.71M
	2642.00	0.56	289.71	2641.84	-8.70	-5.15	-8.89	10.28	239.92	0.24	294.13M
	2736.00	0.58	294.13	2735.84	-9.58	-4.80	-9.76	10.87	243.81	0.05	283.87M
	2831.00	0.40	283.87	2830.83	-10.35	-4.52	-10.52	11.45	246.73	0.21	294.52M
	2925.00	0.41	294.52	2924.83	-10.98	-4.31	-11.14	11.95	248.87	0.08	287.68M
	3018.00	0.50	287.68	3017.83	-11.68	-4.04	-11.83	12.50	251.13	0.11	284.64M
9-5/8" Casing	3081.00	0.54	284.64	3080.82	-12.23	-3.89	-12.38	12.98	252.68	0.08	283.11M
	3117.00	0.57	283.11	3116.82	-12.58	-3.80	-12.72	13.28	253.36	0.08	210.05M
	3211.00	1.09	210.05	3210.81	-13.45	-4.47	-13.63	14.34	251.84	1.14	203.18M
	3306.00	4.95	203.18	3305.66	-15.35	-9.02	-15.69	18.10	240.11	4.07	203.82M
	3399.00	6.28	203.82	3398.22	-18.68	-17.36	-19.33	25.98	228.06	1.43	203.76M
	3494.00	6.62	203.76	3492.61	-22.62	-27.13	-23.63	35.98	221.06	0.36	204.71M
	3588.00	6.78	204.71	3585.97	-26.76	-27.13	-28.13	46.58	217.15	0.21	206.79M
	3682.00	6.79	205.79	3679.31	-31.21	-47.13	-32.96	57.51	214.97	0.26	207.8M
	3777.00	6.84	207.80	3773.64	-36.01	-57.15	-38.13	68.70	213.71	0.14	210.24M
	3871.00	7.09	210.24	3866.95	-41.17	-67.11	-43.66	80.06	213.05	0.41	212.33M
	3966.00	7.10	212.33	3961.22	-46.89	-77.14	-49.75	91.79	212.82	0.27	214.44M
	4060.00	7.06	214.44	4054.51	-52.91	-86.81	-56.13	103.37	212.88	0.28	215.17M
	4154.00	6.99	215.17	4147.80	-59.12	-96.25	-62.69	114.86	213.08	0.12	218.87M
	4248.00	6.73	218.87	4241.13	-65.54	-105.21	-69.44	126.06	213.42	0.55	219.9M
	4343.00	6.60	219.90	4335.49	-72.22	-113.73	-76.43	137.03	213.90	0.19	221.02M
	4437.00	6.41	221.02	4428.88	-78.82	-121.84	-83.34	147.62	214.37	0.24	221.94M
	4531.00	6.45	221.94	4522.29	-85.50	-129.72	-90.32	158.07	214.85	0.12	223.59M
	4626.00	6.46	223.59	4616.69	-92.46	-137.56	-97.57	168.65	215.35	0.20	225.17M
	4720.00	6.46	225.17	4710.09	-99.58	-145.12	-104.96	179.10	215.88	0.19	226.56M
	4815.00	6.37	226.56	4804.50	-106.92	-152.51	-112.58	189.56	216.43	0.19	228.26M
	4909.00	6.38	228.26	4897.91	-114.34	-159.58	-120.26	199.82	217.00	0.20	229.61M
	5003.00	6.42	229.61	4991.33	-121.98	-166.46	-128.16	210.08	217.59	0.17	231.29M
	5098.00	6.30	231.29	5085.74	-129.84	-173.16	-136.28	220.35	218.20	0.23	231.05M
	5192.00	6.26	231.05	5179.18	-137.61	-179.61	-144.29	230.39	218.78	0.05	233.11M
	5286.00	6.10	233.11	5272.63	-145.35	-185.83	-152.27	240.24	219.33	0.29	232.14M
	5381.00	6.04	232.14	5367.10	-153.11	-191.92	-160.25	250.03	219.86	0.13	234.29M
	5475.00	5.60	234.29	5460.62	-160.52	-197.64	-167.88	259.31	220.35	0.52	235.3M
	5570.00	5.69	235.30	5555.16	-167.96	-203.02	-175.51	268.37	220.84	0.14	238.5M
	5664.00	5.23	238.50	5648.73	-175.26	-207.91	-183.00	276.98	221.35	0.59	230.77M
	5758.00	5.64	230.77	5742.31	-182.29	-213.07	-190.23	285.64	221.76	0.89	228.52M
	5852.00	6.46	228.52	5835.78	-189.59	-219.50	-197.77	295.45	222.02	0.91	232.87M
	5947.00	5.96	232.87	5930.23	-197.28	-226.02	-205.70	305.61	222.31	0.72	231.11M
	6041.00	5.44	231.11	6023.76	-204.43	-231.76	-213.06	314.81	222.59	0.58	219.44M
	6135.00	5.47	219.44	6117.34	-210.51	-238.02	-219.38	323.70	222.67	1.18	214.83M
	6230.00	5.89	214.83	6211.87	-215.89	-245.51	-225.04	333.05	222.51	0.65	222.71M
	6324.00	5.52	222.71	6305.41	-221.44	-252.80	-230.86	342.35	222.40	0.92	217.06M
	6419.00	4.66	217.06	6400.03	-226.63	-259.23	-236.29	350.76	222.35	1.05	209.46M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6514.00	6.14	209.46	6494.61	-231.17	-266.74	-241.11	359.56	222.11	1.73	204.73M
	6609.00	6.55	204.73	6589.03	-235.59	-276.08	-245.88	369.70	221.69	0.70	199.44M
	6704.00	6.39	199.44	6683.42	-239.25	-285.99	-249.90	379.79	221.15	0.65	196.94M
	6799.00	6.34	196.94	6777.84	-242.17	-295.99	-253.19	389.51	220.54	0.30	195.57M
	6894.00	5.87	195.57	6872.30	-244.65	-305.69	-256.02	398.74	219.95	0.52	196.47M
	6989.00	5.56	196.47	6966.83	-246.92	-314.78	-258.63	407.40	219.41	0.34	200.68M
	7084.00	5.74	200.68	7061.37	-249.58	-323.64	-261.61	416.15	218.95	0.48	194.55M
	7179.00	4.91	194.55	7155.96	-251.97	-332.02	-264.31	424.38	218.52	1.06	223.09M
	7273.00	6.15	223.09	7249.53	-256.14	-339.59	-268.76	433.08	218.36	3.17	232.23M
	7367.00	6.44	232.23	7342.97	-263.49	-346.50	-276.37	443.22	218.58	1.11	240.46M
	7462.00	6.03	240.46	7437.41	-271.83	-352.22	-284.92	453.04	218.97	1.03	240.52M
	7556.00	5.01	240.52	7530.97	-279.53	-356.68	-292.79	461.46	219.38	1.09	233.18M
	7650.00	4.37	233.18	7624.66	-285.81	-360.84	-299.23	468.77	219.67	0.93	243.48M
	7745.00	3.31	243.48	7719.44	-291.03	-364.24	-304.58	474.80	219.90	1.33	248.87M
	7839.00	4.92	248.87	7813.20	-297.12	-366.90	-310.77	480.83	220.27	1.76	258.2M
	7933.00	5.90	258.20	7906.78	-305.51	-369.34	-319.26	488.20	220.84	1.40	272.22M
	8027.00	4.59	272.22	8000.39	-313.96	-370.18	-327.75	494.43	221.52	1.94	232.88M
	8116.00	3.09	232.88	8089.20	-319.39	-371.49	-333.22	499.04	221.89	3.31	216.8M
	8210.00	6.30	216.80	8182.88	-324.29	-377.15	-338.33	506.67	221.89	3.66	207.64M
	8305.00	6.85	207.64	8277.26	-329.70	-386.35	-344.08	517.36	221.69	1.24	193.71M
	8399.00	4.78	193.71	8370.77	-332.90	-395.12	-347.61	526.26	221.34	2.65	1.73M
	8494.00	1.13	1.73	8465.68	-333.70	-398.03	-348.52	529.05	221.21	6.20	8.47M
	8588.00	0.99	8.47	8559.66	-333.62	-398.30	-348.38	527.66	221.32	0.20	349.3M
	8682.00	0.68	349.30	8653.65	-333.65	-394.95	-348.36	526.63	221.41	0.44	285.26M
	8772.00	0.64	285.26	8743.65	-334.26	-394.29	-348.94	526.53	221.51	0.78	269.93M
	8814.00	0.68	269.93	8785.65	-334.74	-394.23	-349.42	526.80	221.55	0.43	85.61M
	8908.00	9.40	85.61	8879.25	-327.65	-393.64	-342.31	521.66	221.01	10.72	6.32L
	9002.00	21.56	81.98	8969.68	-302.93	-390.63	-317.46	503.36	219.10	12.97	3.21L
	9096.00	30.95	80.96	9053.88	-262.12	-384.41	-276.39	473.46	215.72	10.00	11.59R
	9191.00	41.24	84.13	9130.55	-206.99	-377.35	-220.96	437.29	210.35	11.01	20.19R
	9285.00	51.46	88.86	9195.37	-139.40	-373.44	-153.19	403.64	202.30	11.46	18.82R
	9380.00	61.15	92.59	9248.02	-60.50	-374.59	-74.27	381.88	191.21	10.71	3.41L
	9474.00	73.83	91.81	9283.94	26.17	-377.88	12.33	378.09	178.13	13.51	0.51L
	9495.00	77.13	91.78	9289.20	46.49	-378.52	32.64	379.93	175.07	15.71	25.78R
7" Casing	9558.00	82.78	94.52	9300.19	108.48	-381.94	94.55	393.47	166.10	9.93	25.3R
	9599.00	86.46	96.26	9304.03	149.23	-385.78	135.18	408.77	160.69	9.93	51.32L
	9694.00	87.14	95.41	9309.34	243.88	-395.42	229.54	457.21	149.86	1.14	49.29L
	9788.00	87.94	94.48	9313.37	337.67	-403.51	323.10	516.93	141.31	1.30	18.91L
	9883.00	90.48	93.61	9314.66	432.60	-410.21	417.85	585.55	134.47	2.83	114.87L
	9977.00	89.59	91.69	9314.62	526.59	-414.56	511.74	658.59	129.01	2.25	53.44L
	10071.00	90.48	90.49	9314.57	620.57	-416.35	605.72	735.01	124.50	1.59	112.88L
	10166.00	89.83	88.95	9314.31	715.49	-415.88	700.72	814.84	120.69	1.76	85.6L
	10260.00	89.86	88.56	9314.56	809.33	-413.84	794.69	895.99	117.51	0.42	149.89L
	10355.00	85.97	86.30	9318.02	903.92	-409.59	889.51	979.28	114.72	4.73	41.57R
	10449.00	87.39	87.56	9323.46	997.38	-404.56	983.22	1063.19	112.37	2.02	165.98R
	10544.00	86.87	87.69	9328.22	1091.97	-400.63	1078.01	1150.05	110.39	0.56	27.11R
	10638.00	87.69	88.11	9332.68	1185.61	-397.19	1171.84	1237.33	108.72	0.98	167.48L
	10733.00	87.42	88.05	9336.73	1280.29	-394.01	1266.70	1326.57	107.28	0.29	28.11R
	10827.00	90.83	89.87	9338.17	1374.12	-392.30	1360.66	1416.09	106.08	4.11	148.35R
	10922.00	90.10	90.32	9337.40	1469.06	-392.46	1455.66	1507.63	105.09	0.90	164.74L
	11016.00	89.66	90.20	9337.60	1563.01	-392.89	1549.65	1598.68	104.23	0.49	162.18R
	11112.00	89.38	90.29	9338.40	1658.96	-393.30	1645.65	1692.00	103.44	0.31	1.52L
	11206.00	91.27	90.24	9337.87	1752.90	-393.73	1739.64	1783.64	102.75	2.01	135.82L
	11301.00	90.21	89.21	9336.64	1847.81	-393.28	1834.63	1876.31	102.10	1.56	4.92L
	11396.00	92.30	89.03	9334.56	1942.65	-391.82	1929.59	1968.97	101.48	2.21	145.67L
	11490.00	91.07	88.19	9331.79	2036.44	-389.54	2023.52	2060.67	100.90	1.58	153.88L
	11585.00	89.52	87.43	9331.31	2131.17	-385.91	2118.45	2153.31	100.32	1.82	128.97L
	11679.00	88.97	86.75	9332.54	2224.80	-381.14	2212.32	2244.91	99.77	0.93	165.39L
	11773.00	88.28	86.57	9334.80	2318.35	-375.66	2306.13	2336.53	99.25	0.76	64.98L
	11867.00	88.49	86.12	9337.45	2411.84	-369.67	2399.90	2428.21	98.76	0.53	159.38R
	11962.00	87.11	86.64	9341.10	2506.29	-363.68	2494.64	2521.01	98.29	1.55	44.88R
	12057.00	89.17	88.69	9344.18	2600.95	-359.81	2589.50	2614.38	97.91	3.06	160.34L
	12136.00	87.66	88.15	9346.36	2679.75	-357.63	2668.44	2692.30	97.63	2.03	83.73R
	12163.00	87.87	90.05	9347.42	2706.69	-357.21	2695.41	2718.98	97.55	7.07	36.29R
	12257.00	91.14	92.45	9348.23	2800.66	-359.26	2789.37	2812.41	97.34	4.31	92.49L
	12352.00	91.13	92.22	9346.35	2895.64	-363.13	2884.27	2907.04	97.18	0.24	89.02R
	12452.00	91.14	92.81	9344.37	2995.62	-367.52	2984.15	3006.70	97.02	0.59	110.06L
	12541.00	90.72	91.66	9342.92	3084.60	-370.99	3073.07	3095.38	96.88	1.38	102.13L
	12636.00	90.52	90.73	9341.89	3179.58	-372.97	3168.04	3189.92	96.71	1.00	161.88L
	12731.00	89.97	90.55	9341.49	3274.55	-374.03	3263.04	3284.40	96.54	0.61	90R
	12825.00	89.97	91.01	9341.54	3368.53	-375.31	3357.03	3377.94	96.38	0.49	80.98L
	12920.00	90.07	90.38	9341.50	3463.50	-376.46	3452.02	3472.49	96.22	0.67	98.13R
	13015.00	90.03	90.66	9341.42	3558.46	-377.33	3547.02	3567.03	96.07	0.30	28.61R
	13109.00	90.14	90.72	9341.28	3652.43	-378.46	3641.01	3660.63	95.93	0.13	127.27L
	13204.00	89.79	90.26	9341.34	3747.39	-379.27	3736.01	3755.21	95.80	0.61	169.38L
	13299.00	89.31	90.17	9342.09	3842.34	-379.63	3831.00	3849.76	95.66	0.51	147.27L
	13393.00	89.17	90.08	9343.33	3936.28	-379.83	3924.99	3943.33	95.53	0.18	94.19R
	13488.00	89.11	90.90	9344.76	4031.23	-380.64	4019.98	4037.96	95.41	0.87	132.8L
	13583.00	88.86	90.63	9346.44	4126.19	-381.91	4114.95	4132.64	95.30	0.39	147.66R
	13677.00	88.56	90.82	9348.56	4220.13	-383.10	4208.92	4226.32	95.20	0.38	175.92R
	13772.00	88.14	90.85	9351.29	4315.07	-384.48	4303.87	4321.01	95.10	0.44	14.82L
	13867.00	89.69	90.44	9353.09	4410.02	-385.55	4398.85	4415.71	95.01	1.69	174.88L
	13961.00	88.35	90.32	9354.70	4503.96	-386.18	4492.83	4509.40	94.91	1.43	20.92R
	14056.00	88.69	90.45	9357.15	4598.89	-386.82	4587.80	4604.07	94.82	0.38	127.76R
	14151.00	88.45	90.76	9359.52	4693.83	-387.82	4682.76	4698.79	94.73	0.41	48.17L
	14246.00	88.62	90.57	9361.95	4788.77	-388.92	4777.72	4793.53	94.65	0.27	119.49L
	14340.00	88.49	90.34	9364.32	4882.70	-389.67	4871.69	4887.25	94.57	0.28	16.39R
	14435.00	88.66	90.39	9366.69	4977.62	-390.27	4966.66	4981.97	94.49	0.19	LS
	14530.00	88.59	90.39	9368.97	5072.55	-390.92	5061.63	5076.70	94.42	0.07	149.62L
	14624.00	86.70	89.28	9372.83	5166.40	-390.65	5155.54	5170.32	94.33	2.33	30.03R
	14719.00	89.21	90.73	9376.22	5261.26	-390.66	5250.47	5264.99	94.26	3.05	68.05R
	14814.00	89.48	91.40	9377.30	5356.24	-392.42	5345.45	5359.83	94.20	0.76	79.9L
	14908.00	89.66	90.39	9378.01	5450.21	-393.89	5439.43	5453.68	94.14	1.09	155.9L
	15003.00	88.52	89.88	9379.52	5545.14	-394.11	5534.42	5548.44	94.07	1.31	18.71R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	15665.00	88.69	88.58	9386.50	6206.14	-384.28	6196.22	6208.12	93.55	0.91	145.9R
	15760.00	88.38	88.79	9388.93	6300.94	-382.10	6291.16	6302.75	93.48	0.39	46.78L
	15854.00	88.69	88.46	9391.33	6394.73	-379.85	6385.10	6396.39	93.40	0.48	145.9R
	15949.00	88.38	88.67	9393.76	6489.52	-377.47	6480.04	6491.03	93.33	0.39	36.6L
	16044.00	88.73	88.41	9396.16	6584.31	-375.05	6574.98	6585.67	93.26	0.46	131.2R
	16138.00	88.52	88.65	9398.41	6678.10	-372.64	6668.92	6679.33	93.20	0.34	99.47L
	16233.00	88.49	88.47	9400.89	6772.89	-370.25	6763.86	6773.99	93.13	0.19	2.86L
	16328.00	88.69	88.46	9403.23	6867.67	-367.71	6858.80	6868.65	93.07	0.21	126.13R
	16422.00	88.42	88.83	9405.60	6961.46	-365.49	6952.74	6962.34	93.01	0.49	141.86L
	16517.00	88.28	88.72	9408.34	7056.27	-363.46	7047.68	7057.05	92.95	0.19	48.53L
	16611.00	88.66	88.29	9410.84	7150.05	-361.00	7141.61	7150.73	92.89	0.61	LS
	16706.00	88.59	88.29	9413.12	7244.81	-358.17	7236.54	7245.40	92.83	0.07	152.36L
	16800.00	88.38	88.18	9415.61	7338.56	-355.28	7330.47	7339.07	92.77	0.25	35.21R
	16895.00	90.62	89.76	9416.44	7433.41	-353.57	7425.44	7433.85	92.73	2.89	160.56L
	16989.00	90.45	89.70	9415.56	7527.32	-353.13	7519.43	7527.72	92.69	0.19	160.02L
	17032.00	88.69	89.06	9415.88	7570.27	-352.66	7562.43	7570.65	92.67	4.36	127.43L
	17084.00	88.04	88.21	9417.37	7622.16	-351.42	7614.39	7622.50	92.64	2.06	81.94R
	17178.00	88.28	89.90	9420.39	7715.97	-349.87	7708.33	7716.26	92.60	1.81	119.76R
	17273.00	88.04	90.32	9423.44	7810.86	-350.06	7803.28	7811.13	92.57	0.51	133.29R
	17368.00	87.56	90.83	9427.08	7905.76	-351.01	7898.20	7906.00	92.54	0.74	35.52L
	17462.00	87.77	90.68	9430.91	7999.66	-352.25	7992.12	7999.87	92.52	0.27	11.3L
	17557.00	88.07	90.62	9434.36	8094.56	-353.32	8087.05	8094.76	92.50	0.32	167.81R
	17651.00	87.70	90.70	9437.83	8188.47	-354.40	8180.98	8188.65	92.48	0.40	63.42L
	17746.00	87.73	90.64	9441.62	8283.36	-355.51	8275.89	8283.53	92.46	0.07	45.9L
	17840.00	88.04	90.32	9445.09	8377.26	-356.30	8369.83	8377.41	92.44	0.47	123.71R
	17935.00	87.90	90.53	9448.45	8472.16	-357.01	8464.76	8472.29	92.42	0.27	90R
	18029.00	87.90	90.57	9451.90	8566.06	-357.91	8558.70	8566.18	92.39	0.04	27.11R
	18124.00	88.31	90.78	9455.04	8660.98	-359.03	8653.64	8661.08	92.38	0.48	165.05R
	18218.00	86.59	91.24	9459.22	8754.87	-360.68	8747.53	8754.96	92.36	1.89	5.94L
	18313.00	89.62	90.93	9462.36	8849.79	-362.48	8842.45	8849.87	92.35	3.21	20.23L
	18407.00	90.38	90.65	9462.36	8943.77	-363.77	8936.44	8943.84	92.33	0.86	147.85L
	18501.00	90.03	90.43	9462.02	9037.73	-364.66	9030.43	9037.79	92.31	0.44	29.95L
	18596.00	90.62	90.09	9461.49	9132.68	-365.09	9125.43	9132.73	92.29	0.72	148.62R
	18691.00	89.62	90.70	9461.29	9227.63	-365.75	9220.43	9227.68	92.27	1.23	153.44L
	18786.00	89.00	90.39	9462.43	9322.59	-366.65	9315.41	9322.63	92.25	0.73	4.97L
	18880.00	89.69	90.33	9463.51	9416.54	-367.24	9409.40	9416.57	92.24	0.74	171.44R
	18975.00	88.76	90.47	9464.79	9511.49	-367.90	9504.39	9511.51	92.22	0.99	142.64R
	19070.00	87.70	91.28	9467.72	9606.42	-369.35	9599.33	9606.44	92.20	1.40	139.43R
	19165.00	87.56	91.40	9471.65	9701.33	-371.57	9694.23	9701.35	92.20	0.19	36.68R
	19259.00	88.07	91.78	9475.24	9795.26	-374.18	9788.12	9795.27	92.19	0.68	119.59R
	19448.00	87.35	93.05	9482.79	9984.10	-382.14	9976.80	9984.11	92.19	0.77	16.98L
	19527.00	88.07	92.83	9485.95	10063.03	-386.19	10055.63	10063.04	92.20	0.95	HS
Last Survey Proj to Bit	19575.00	88.07	92.83	9487.56	10111.00	-388.55	10103.54	10111.01	92.20	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 WOLI Fed Com 1H / Mewbourne Normandy
	1	28.000	28.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB-Depth Only	31_32 WOLI Fed Com 1H Off to Normandy 31_32 WOLI Fed Com
	1	28.000	1385.000	Act Stns	17.500	13.375	NAL_MWD-NON_SLB	1H / Mewbourne Normandy 31_32 WOLI Fed Com 1H Off to Normandy 31_32 WOLI Fed Com
	1	1385.000	3081.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG	1H / Mewbourne Normandy Normandy 31_32 WOLI Fed Com
	1	3081.000	9558.000	Act Stns	8.500	7.000	NAL_MWD_1.0_DEG	1H / Mewbourne Normandy Normandy 31_32 WOLI Fed Com
	1	9558.000	19575.000	Act Stns	6.125	4.000	NAL_MWD_1.0_DEG	1H / Mewbourne Normandy