



**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUL 26 2018

RECEIVED

March 23, 2018

**New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505**

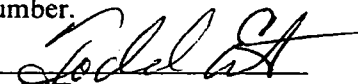
Attn: Jackie Lathan

**Re: Mewbourne Oil Company
Whitesnake 20 21 W0BC Fee #002H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44559**

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Keith Broussard	Original Hole	445ft. to 14,329ft.	02-06-18 to 02-22-18	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Whitesnake 20 21 W0BC Fee #2H\M181024

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163**



March 23, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of February 06, 2018, through February 22, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 445 feet to a depth of 14,329 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Whitesnake 20 21 W0BC Fee #002H well, API # 30-015-44559 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 20-21-23S-28E Whitesnake 20-21 W0BC
Well: Whitesnake 20-21 W0BC Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Whitesnake 20-21 W0BC Fee 2H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project		Eddy County, N.M. Nad (83)				
Map System:	US State Plane 1983		System Datum:	Mean Sea Level		
Geo Datum:	North American Datum 1983					
Map Zone:	New Mexico Eastern Zone					
Site						
Section 20-21-23S-28E Whitesnake 20-21 W0BC Fee 2H						
Site Position:		Northing:	471,612.40 usft	Latitude:	32° 17' 46.825 N	
From:	Map	Easting:	610,033.40 usft	Longitude:	104° 6' 39.626 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 "	
Well						
Whitesnake 20-21 W0BC Fee 2H						
Well Position	+N/-S	0.0 usft	Northing:	471,612.40 usft	Latitude:	32° 17' 46.825 N
	+E/-W	0.0 usft	Easting:	610,033.40 usft	Longitude:	104° 6' 39.626 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,049.0 usft	
Wellbore						
Original Hole						
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	1/3/2018	7.15	60.04	47,869.68617244	
Design						
Original Hole						
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)		
	0.0	0.0	0.0	342.62		
Survey Program						
Date 2/22/2018						
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
100.0	14,400.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination		



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
100.0	0.25	159.54	100.0	-0.2	0.1	0.2	159.54
200.0	0.32	154.13	200.0	-0.7	0.3	0.7	157.43
300.0	0.12	58.22	300.0	-0.9	0.5	1.0	150.46
342.0	0.16	176.39	342.0	-0.9	0.5	1.0	149.45
445.0	0.50	325.60	445.0	-0.7	0.3	0.7	157.04
504.0	0.60	326.60	504.0	-0.2	0.0	0.2	189.96
563.0	0.50	336.40	563.0	0.3	-0.3	0.4	314.31
624.0	0.60	339.10	624.0	0.8	-0.5	1.0	327.93
682.0	0.70	348.70	682.0	1.5	-0.7	1.6	334.41
743.0	0.60	0.60	743.0	2.2	-0.8	2.3	340.24
841.0	0.70	351.70	841.0	3.3	-0.9	3.4	345.30
936.0	1.00	339.40	936.0	4.6	-1.2	4.8	345.05
1,031.0	1.30	334.30	1,030.9	6.4	-2.0	6.7	342.62
1,127.0	0.40	275.10	1,126.9	7.4	-2.8	7.9	339.22
1,222.0	0.60	207.50	1,221.9	7.0	-3.4	7.7	334.25
1,317.0	0.90	190.10	1,316.9	5.8	-3.7	6.9	327.27
1,412.0	1.00	191.10	1,411.9	4.2	-4.0	5.8	316.59
1,507.0	1.10	197.90	1,506.9	2.6	-4.4	5.1	299.88
1,602.0	1.10	187.70	1,601.9	0.8	-4.8	4.9	279.18
1,698.0	1.60	158.30	1,697.9	-1.4	-4.5	4.7	252.93
1,793.0	1.70	95.60	1,792.8	-2.7	-2.6	3.8	223.28
1,890.0	0.70	61.20	1,889.8	-2.6	-0.6	2.7	193.70
1,985.0	0.80	80.80	1,984.8	-2.2	0.5	2.3	166.55
2,080.0	1.70	103.70	2,079.8	-2.4	2.6	3.5	133.72
2,175.0	1.10	104.00	2,174.7	-3.0	4.8	5.7	121.93
2,271.0	0.40	254.80	2,270.7	-3.3	5.4	6.3	121.59



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2,365.0	1.40	272.90	2,364.7	-3.3	3.9	5.1	130.43
2,389.0	1.40	270.80	2,388.7	-3.3	3.3	4.7	134.89
2,464.0	1.80	263.80	2,463.7	-3.4	1.2	3.6	160.11
2,559.0	1.20	14.90	2,558.7	-2.6	0.0	2.6	179.70
2,654.0	2.90	47.40	2,653.8	0.0	2.0	2.0	91.17
2,749.0	3.30	49.70	2,748.5	3.4	5.9	6.8	60.36
2,844.0	3.10	44.00	2,843.3	7.0	9.8	12.0	54.48
2,939.0	3.10	45.10	2,938.2	10.6	13.4	17.1	51.50
3,034.0	3.10	51.70	3,033.0	14.0	17.2	22.2	50.79
3,129.0	3.50	50.00	3,127.9	17.5	21.4	27.7	50.79
3,224.0	3.70	48.70	3,222.7	21.4	26.0	33.6	50.53
3,318.0	3.00	37.00	3,316.5	25.3	29.7	39.1	49.54
3,413.0	2.90	37.50	3,411.4	29.2	32.7	43.9	48.18
3,508.0	3.70	36.00	3,506.2	33.6	35.9	49.2	46.91
3,603.0	3.80	34.40	3,601.0	38.7	39.5	55.3	45.60
3,699.0	3.90	35.70	3,696.8	44.0	43.2	61.7	44.51
3,793.0	3.80	28.70	3,790.6	49.3	46.6	67.8	43.38
3,886.0	3.60	40.40	3,885.4	54.3	50.0	73.9	42.64
3,983.0	3.30	42.80	3,980.2	58.6	53.8	79.6	42.56
4,077.0	3.50	45.40	4,074.1	62.6	57.7	85.2	42.66
4,172.0	3.60	50.40	4,168.9	66.6	62.1	91.0	43.00
4,267.0	3.70	38.50	4,263.7	70.9	66.3	97.0	43.09
4,363.0	4.00	33.60	4,359.5	76.1	70.1	103.4	42.65
4,457.0	3.50	32.40	4,453.3	81.2	73.4	109.5	42.11
4,551.0	3.30	36.90	4,547.1	85.8	76.6	115.0	41.75
4,646.0	2.80	36.70	4,642.0	89.9	79.6	120.0	41.54
4,741.0	3.30	31.30	4,736.9	94.0	82.4	125.0	41.23



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4,837.0	3.20	33.70	4,832.7	98.6	85.3	130.4	40.86
4,931.0	2.60	29.50	4,926.6	102.7	87.8	135.1	40.54
5,026.0	4.20	35.90	5,021.4	107.4	90.9	140.7	40.26
5,120.0	4.00	38.80	5,115.2	112.7	95.0	147.4	40.13
5,214.0	3.60	40.30	5,209.0	117.5	99.0	153.6	40.10
5,308.0	3.40	39.50	5,302.8	121.9	102.7	159.4	40.10
5,404.0	3.30	40.30	5,398.6	126.2	106.3	165.0	40.09
5,499.0	3.00	39.90	5,493.5	130.2	109.6	170.2	40.09
5,593.0	3.30	35.10	5,587.3	134.3	112.7	175.4	40.01
5,688.0	3.30	38.10	5,682.2	138.7	116.0	180.8	39.91
5,783.0	3.20	41.10	5,777.0	142.9	119.4	186.2	39.90
5,878.0	3.00	43.60	5,871.9	146.7	122.9	191.3	39.96
5,972.0	3.50	34.70	5,965.7	150.8	126.2	196.7	39.93
6,067.0	3.30	23.00	6,060.6	155.7	128.9	202.2	39.63
6,161.0	3.80	13.00	6,154.4	161.2	130.7	207.5	39.03
6,256.0	3.70	20.70	6,249.2	167.2	132.5	213.3	38.40
6,351.0	3.70	31.80	6,344.0	172.6	135.2	219.3	38.07
6,446.0	3.60	38.20	6,438.8	177.6	138.7	225.3	37.98
6,541.0	2.90	39.70	6,533.6	181.8	142.0	230.7	38.00
6,636.0	1.80	26.50	6,628.6	185.0	144.2	234.5	37.95
6,731.0	1.80	42.00	6,723.5	187.4	145.9	237.5	37.90
6,826.0	2.40	39.40	6,818.5	190.0	148.2	241.0	37.94
6,920.0	3.80	36.60	6,912.3	194.1	151.3	246.1	37.93
7,015.0	3.60	23.80	7,007.1	199.3	154.3	252.1	37.75
7,110.0	3.50	37.90	7,101.9	204.3	157.3	257.9	37.59
7,204.0	3.10	31.00	7,195.8	208.8	160.4	263.3	37.53
7,299.0	3.90	36.00	7,290.6	213.6	163.6	269.1	37.45



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7,395.0	3.70	49.80	7,386.4	218.2	167.9	275.4	37.57
7,489.0	3.40	42.60	7,480.2	222.3	172.1	281.1	37.75
7,584.0	3.70	41.40	7,575.0	226.6	176.0	287.0	37.84
7,678.0	3.90	35.70	7,668.8	231.5	179.9	293.2	37.85
7,773.0	4.40	50.10	7,763.6	236.5	184.6	300.0	37.98
7,867.0	3.00	45.20	7,857.4	240.5	189.1	305.9	38.18
7,962.0	2.50	47.50	7,952.3	243.7	192.4	310.5	38.30
8,057.0	1.90	41.30	8,047.2	246.2	195.0	314.1	38.37
8,152.0	1.10	44.00	8,142.2	248.1	196.6	316.6	38.40
8,247.0	0.30	0.60	8,237.2	249.0	197.3	317.7	38.39
8,342.0	0.60	356.60	8,332.2	249.7	197.3	318.2	38.30
8,437.0	0.80	103.40	8,427.2	250.1	197.9	318.9	38.35
8,532.0	1.60	107.60	8,522.1	249.5	199.8	319.6	38.68
8,626.0	1.80	125.80	8,616.1	248.3	202.2	320.2	39.17
8,719.0	1.40	103.00	8,709.1	247.1	204.5	320.8	39.61
8,814.0	1.20	117.70	8,804.0	246.4	206.5	321.5	39.97
8,909.0	1.20	123.20	8,899.0	245.4	208.2	321.9	40.32
8,909.9	1.21	122.23	8,899.9	245.4	208.3	321.9	40.32
B. B. Whitesnake 20-21 W0BC Fee 2H							
8,966.0	2.50	91.50	8,956.0	245.1	210.0	322.7	40.59
8,998.0	8.30	79.10	8,987.8	245.5	213.0	325.0	40.94
9,030.0	14.00	77.30	9,019.2	246.8	219.0	329.9	41.59
9,062.0	17.40	77.90	9,050.0	248.6	227.5	337.0	42.46
9,093.0	20.40	78.70	9,079.3	250.6	237.3	345.2	43.43
9,125.0	23.40	81.00	9,109.0	252.7	249.0	354.8	44.58
9,157.0	26.80	83.00	9,138.0	254.6	262.5	365.7	45.87
9,189.0	30.20	84.90	9,166.1	256.2	277.7	377.8	47.30



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9,220.0	33.30	89.30	9,192.5	257.0	293.9	390.4	48.84
9,252.0	37.20	91.10	9,218.6	256.9	312.4	404.5	50.57
9,283.0	40.80	91.20	9,242.7	256.5	331.9	419.5	52.30
9,315.0	43.90	90.60	9,266.3	256.2	353.5	436.5	54.06
9,347.0	47.40	89.60	9,288.7	256.2	376.3	455.2	55.76
9,378.0	50.50	89.00	9,309.1	256.4	399.7	474.9	57.32
9,410.0	53.20	89.60	9,328.8	256.8	424.9	496.4	58.85
9,441.0	56.30	90.90	9,346.7	256.6	450.2	518.2	60.31
9,473.0	58.70	92.50	9,363.9	255.8	477.2	541.4	61.80
9,505.0	61.30	93.40	9,379.9	254.4	504.8	565.3	63.25
9,510.4	61.88	93.44	9,382.5	254.1	509.6	569.5	63.50
LP Whitesnake 20-21 W0BC Fee 2H							
9,536.0	64.60	93.60	9,394.0	252.7	532.4	589.3	64.61
9,568.0	68.40	92.70	9,406.8	251.1	561.7	615.3	65.91
9,599.0	72.20	91.30	9,417.2	250.1	590.8	641.6	67.06
9,623.0	76.20	91.00	9,423.7	249.6	613.9	662.7	67.87
9,696.0	86.10	94.80	9,435.0	246.0	685.9	728.6	70.27
9,728.0	90.70	94.50	9,435.9	243.4	717.7	757.9	71.27
9,759.0	92.50	94.10	9,435.0	241.0	748.6	786.5	72.15
9,791.0	92.90	94.00	9,433.5	238.8	780.5	816.2	72.99
9,823.0	88.60	91.50	9,433.1	237.2	812.5	846.4	73.72
9,854.0	88.80	91.50	9,433.8	236.4	843.4	876.0	74.34
9,886.0	86.90	90.30	9,435.0	235.9	875.4	906.7	74.92
9,917.0	87.20	90.40	9,436.6	235.7	906.4	936.5	75.42
9,949.0	87.70	90.70	9,438.0	235.4	938.3	967.4	75.91
9,980.0	89.40	91.40	9,438.8	234.9	969.3	997.4	76.38
10,012.0	89.60	91.30	9,439.1	234.1	1,001.3	1,028.3	76.84



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,043.0	88.40	90.50	9,439.6	233.6	1,032.3	1,058.4	77.25
10,075.0	87.10	90.80	9,440.9	233.3	1,064.3	1,089.5	77.64
10,106.0	88.70	91.30	9,442.0	232.7	1,095.3	1,119.7	78.01
10,138.0	89.10	91.80	9,442.6	231.8	1,127.2	1,150.8	78.38
10,169.0	89.10	91.80	9,443.1	230.9	1,158.2	1,181.0	78.73
10,201.0	86.30	91.50	9,444.4	229.9	1,190.2	1,212.2	79.07
10,232.0	86.50	92.00	9,446.3	229.0	1,221.1	1,242.4	79.38
10,264.0	84.40	92.40	9,448.9	227.8	1,253.0	1,273.5	79.70
10,327.0	84.10	91.90	9,455.2	225.4	1,315.6	1,334.8	80.28
10,421.0	87.50	91.90	9,462.1	222.3	1,409.3	1,426.7	81.04
10,516.0	86.90	91.80	9,466.7	219.2	1,504.1	1,520.0	81.71
10,611.0	90.90	92.20	9,468.5	215.9	1,599.0	1,613.5	82.31
10,705.0	88.60	88.60	9,468.9	215.3	1,693.0	1,706.6	82.75
10,800.0	88.50	88.00	9,471.3	218.1	1,787.9	1,801.2	83.05
10,894.0	86.20	87.90	9,475.7	221.5	1,881.8	1,894.8	83.29
10,989.0	85.50	88.10	9,482.6	224.8	1,976.5	1,989.2	83.51
11,085.0	88.30	89.00	9,487.7	227.2	2,072.3	2,084.7	83.74
11,180.0	88.30	89.40	9,490.6	228.5	2,167.2	2,179.2	83.98
11,275.0	86.20	90.30	9,495.1	228.8	2,262.1	2,273.6	84.23
11,369.0	88.20	91.30	9,499.7	227.4	2,356.0	2,366.9	84.49
11,465.0	89.00	90.70	9,502.1	225.8	2,451.9	2,462.3	84.74
11,560.0	89.20	91.70	9,503.6	223.8	2,546.9	2,556.7	84.98
11,656.0	90.90	91.70	9,503.5	220.9	2,642.9	2,652.1	85.22
11,750.0	88.90	90.90	9,503.6	218.8	2,738.8	2,745.6	85.43
11,845.0	89.10	90.50	9,505.3	217.6	2,831.8	2,840.2	85.61
11,940.0	88.90	90.60	9,506.9	216.7	2,926.8	2,934.8	85.76
12,036.0	88.00	91.10	9,509.5	215.3	3,022.7	3,030.4	85.93



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 20-21-23S-28E Whitesnake 20-21 W0BC
Well: Whitesnake 20-21 W0BC Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Whitesnake 20-21 W0BC Fee 2H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,090.5	87.77	91.33	9,511.6	214.2	3,077.2	3,084.6	86.02
Point WS W0BC							
12,131.0	87.60	91.50	9,513.2	213.2	3,117.6	3,124.9	86.09
12,226.0	88.20	91.10	9,516.7	211.0	3,212.6	3,219.5	86.24
12,321.0	88.30	91.10	9,519.6	209.2	3,307.5	3,314.1	86.38
12,415.0	89.30	91.90	9,521.5	206.7	3,401.4	3,407.7	86.52
12,511.0	83.60	89.60	9,527.5	205.5	3,497.2	3,503.2	86.64
12,607.0	89.40	87.80	9,533.3	207.6	3,593.0	3,599.0	86.69
12,701.0	88.20	89.10	9,535.3	210.2	3,686.9	3,692.9	86.74
12,797.0	88.30	89.50	9,538.2	211.3	3,782.8	3,788.7	86.80
12,892.0	87.40	89.70	9,541.8	212.0	3,877.8	3,883.6	86.87
12,986.0	87.30	90.20	9,546.2	212.1	3,971.7	3,977.3	86.94
13,080.0	88.80	89.50	9,549.4	212.3	4,065.6	4,071.2	87.01
13,176.0	86.90	88.50	9,553.0	214.0	4,161.5	4,167.0	87.06
13,270.0	86.10	87.70	9,558.7	217.1	4,255.3	4,260.8	87.08
13,365.0	92.00	92.70	9,560.3	216.8	4,350.2	4,355.6	87.15
13,459.0	87.20	90.40	9,560.9	214.2	4,444.1	4,449.3	87.24
13,553.0	86.20	89.20	9,566.3	214.6	4,538.0	4,543.1	87.29
13,648.0	87.40	88.80	9,571.6	216.2	4,632.8	4,637.9	87.33
13,838.0	91.20	89.60	9,574.0	218.9	4,822.8	4,827.7	87.40
13,933.0	91.20	89.80	9,572.0	219.4	4,917.7	4,922.6	87.45
14,028.0	92.00	90.40	9,569.3	219.2	5,012.7	5,017.5	87.50
14,122.0	87.20	88.50	9,570.0	220.1	5,106.7	5,111.4	87.53
14,217.0	89.20	87.80	9,573.0	223.2	5,201.5	5,206.3	87.54
14,311.0	88.10	86.70	9,575.2	227.7	5,295.4	5,300.3	87.54
14,329.0	87.80	86.70	9,575.8	228.7	5,313.4	5,318.3	87.54



Microsoft
MWD Surveys



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Well: Whitesnake 20-21 W0BC Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Whitesnake 20-21 W0BC Fee 2H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (")
14,400.0	87.80	86.70	9,578.5	232.8	5,384.2	5,389.2	87.52

14400' MD Projected to Bit - PBHL Whitesnake 20-21 W0BC Fee 2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,400.0	9,578.5	232.8	5,384.2	14400' MD Projected to Bit