



October 8, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 19 2018

RECEIVED

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

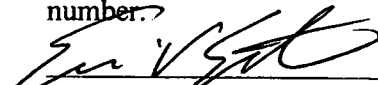
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Virgo 24-23 B2AD Federal Com #1H
Shugart; Bone Spring, North
Eddy County, New Mexico
API# 30-015-44579

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>
Dustin Doan	Original Hole	1,934ft. to 18,867ft.	07-05-18 to 08-04-18	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.


Eric 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\Virgo 24-23 B2AD Fed Com #1HM181093

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



October 8, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 5, 2018, through August 4, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,934 feet to a depth of 18,867 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 Virgo 24-23 B2AD Fed Com #1H, well API # **30-015-44579** 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.

Eric Estes

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 24/23- 18S-30E Virgo 23/24 B2AD Fed C
Well: Virgo 23/24 B2AD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Virgo 23/24 B2AD Fed Com #1H
TVD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
MD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		
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	Section 24/23- 18S-30E Virgo 23/24 B2AD Fed Com #1		
Site Position:		Northing:	632,739.30 usft
From:	Map	Easting:	628,021.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 44' 19.693 N
		Longitude:	103° 55' 1.142 W
		Grid Convergence:	0.23 °

Well	Virgo 23/24 B2AD Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	6/18/2018	(°)
			7.05
			Dip Angle
			(°)
			60.47
			Field Strength
			(nT)
			48,101.29936356

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			315.96



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Survey Program Date 8/6/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	1,807.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
1,934.0	18,930.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Tie-In
1,807.0	11.56	337.89	1,799.0	1,860.0	87.9	-85.0	122.3	315.96	
1,934.0	11.70	329.80	1,923.4	1,735.6	110.9	-96.3	146.9	319.02	
1,997.0	7.50	332.50	1,985.5	1,673.5	120.0	-101.4	157.1	319.80	
2,091.0	4.10	333.60	2,079.0	1,580.0	128.5	-105.7	166.4	320.55	
2,185.0	0.90	331.40	2,172.9	1,486.1	132.1	-107.6	170.4	320.85	
2,280.0	1.50	143.80	2,267.9	1,391.1	131.8	-107.2	169.9	320.87	
2,468.0	1.30	139.00	2,455.9	1,203.1	128.2	-104.4	165.3	320.85	
2,657.0	2.90	135.10	2,644.7	1,014.3	123.2	-99.6	158.4	321.05	
2,844.0	2.80	141.50	2,831.5	827.5	116.3	-93.4	149.1	321.23	
3,032.0	2.80	143.50	3,019.3	639.7	109.0	-87.8	140.0	321.14	
3,220.0	2.40	136.50	3,207.1	451.9	102.4	-82.4	131.5	321.20	
3,408.0	2.20	132.60	3,394.9	264.1	97.1	-77.0	124.0	321.60	
3,596.0	2.50	127.90	3,582.8	76.2	92.2	-71.1	116.4	322.35	
3,785.0	2.10	131.70	3,771.6	-112.8	87.3	-65.3	109.0	323.23	
3,973.0	2.40	137.30	3,959.5	-300.5	82.2	-60.0	101.8	323.85	
4,161.0	2.80	128.50	4,147.3	-488.3	76.4	-53.8	93.4	324.87	
4,349.0	2.90	127.60	4,335.0	-676.0	70.7	-46.4	84.5	326.70	
4,537.0	2.50	121.50	4,522.8	-863.8	65.6	-39.1	76.4	329.18	
4,725.0	4.50	120.60	4,710.5	-1,051.5	59.7	-29.3	66.5	333.86	
4,913.0	3.80	120.70	4,898.0	-1,239.0	52.8	-17.6	55.6	341.56	
5,101.0	3.60	115.30	5,085.6	-1,428.6	47.1	-6.9	47.6	351.66	



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,288.0	4.20	105.10	5,272.2	-1,613.2	42.8	5.0	43.1	6.69
5,476.0	4.10	103.10	5,459.7	-1,800.7	39.5	18.2	43.5	24.77
5,664.0	4.10	96.60	5,647.2	-1,988.2	37.2	31.4	48.7	40.22
5,852.0	5.10	99.60	5,834.6	-2,175.6	35.0	46.3	58.1	52.94
6,040.0	4.40	86.40	6,021.9	-2,362.9	34.1	61.8	70.5	61.13
6,227.0	4.50	88.40	6,208.4	-2,549.4	34.7	76.3	83.8	65.53
6,415.0	4.20	99.30	6,395.8	-2,736.8	33.8	90.4	96.6	69.50
6,602.0	3.30	89.00	6,582.4	-2,923.4	32.8	102.6	107.7	72.27
6,791.0	4.10	103.60	6,771.0	-3,112.0	31.3	114.6	118.8	74.72
6,980.0	4.50	107.80	6,959.5	-3,300.5	27.4	128.2	131.1	77.92
7,168.0	3.00	106.20	7,147.1	-3,488.1	23.8	140.0	142.0	80.34
7,357.0	3.60	119.30	7,335.8	-3,676.8	19.5	149.9	151.2	82.57
7,546.0	2.40	104.60	7,524.5	-3,865.5	15.6	158.9	159.7	84.38
7,735.0	2.20	128.20	7,713.4	-4,054.4	12.4	165.6	166.0	85.72
7,924.0	1.80	155.50	7,902.3	-4,243.3	7.5	169.7	169.8	87.49
8,113.0	1.60	147.50	8,091.2	-4,432.2	2.5	172.3	172.3	89.16
8,121.9	1.66	147.83	8,100.1	-4,441.1	2.3	172.4	172.5	89.23
B.B. Virgo 24/23 B2AD Fed Com #1H								
8,145.0	1.80	148.60	8,123.2	-4,464.2	1.7	172.8	172.8	89.43
8,200.0	1.80	157.20	8,178.1	-4,519.1	0.2	173.6	173.6	89.94
8,231.0	4.40	220.70	8,209.1	-4,550.1	-1.2	173.0	173.0	90.39
8,262.0	8.20	236.30	8,239.9	-4,580.9	-3.3	170.4	170.4	91.11
8,294.0	12.20	244.90	8,271.4	-4,612.4	-6.0	165.4	165.5	92.08
8,325.0	16.30	251.00	8,301.4	-4,642.4	-8.8	158.3	158.6	93.18
8,357.0	20.70	255.30	8,331.8	-4,672.8	-11.7	148.6	149.1	94.50
8,388.0	24.80	257.90	8,360.4	-4,701.4	-14.5	137.0	137.7	96.03
8,419.0	28.40	260.60	8,388.1	-4,728.1	-17.0	123.3	124.5	97.86



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8,451.0	30.90	264.20	8,415.9	-4,756.9	-19.1	107.6	109.3	100.06
8,482.0	33.00	267.10	8,442.2	-4,783.2	-20.3	91.3	93.5	102.56
8,514.0	35.30	268.90	8,468.7	-4,809.7	-20.9	73.3	76.3	105.94
8,545.0	38.20	270.00	8,493.5	-4,834.5	-21.1	54.8	58.7	111.08
8,576.0	42.70	271.00	8,517.1	-4,858.1	-20.9	34.7	40.5	121.12
8,608.0	46.20	271.40	8,539.9	-4,880.9	-20.5	12.3	23.9	149.04
8,639.0	50.00	269.80	8,560.6	-4,901.6	-20.2	-10.8	22.9	208.06
8,670.0	55.00	267.40	8,579.5	-4,920.5	-20.9	-35.4	41.1	239.47
8,702.0	60.40	265.80	8,596.6	-4,937.6	-22.5	-62.4	66.3	250.19
8,733.0	65.10	265.70	8,610.8	-4,951.8	-24.5	-89.8	93.1	254.74
8,765.0	68.10	266.20	8,623.5	-4,964.5	-26.6	-119.1	122.0	257.42
8,796.0	70.40	267.50	8,634.5	-4,975.5	-28.2	-148.1	150.7	259.23
8,807.0	71.21	268.00	8,638.1	-4,979.1	-28.6	-158.4	161.0	259.77
LP Virgo 24/23 B2AD Fed Com #1H								
8,827.0	72.70	268.90	8,644.3	-4,985.3	-29.1	-177.5	179.8	260.69
8,859.0	75.40	270.20	8,653.1	-4,994.1	-29.3	-208.2	210.3	261.98
8,890.0	77.80	270.40	8,660.3	-5,001.3	-29.2	-238.4	240.1	263.02
8,922.0	80.10	270.30	8,668.4	-5,007.4	-29.0	-269.8	271.3	263.87
8,953.0	82.20	270.60	8,671.2	-5,012.2	-28.7	-300.4	301.8	264.53
8,959.0	82.60	270.60	8,672.0	-5,013.0	-28.7	-306.3	307.7	264.65
9,036.0	89.40	273.70	8,677.3	-5,018.3	-25.8	-383.1	383.9	266.15
9,130.0	90.50	273.00	8,677.4	-5,018.4	-20.3	-476.9	477.3	267.56
9,224.0	89.50	270.50	8,677.4	-5,018.4	-17.4	-570.8	571.1	268.25
9,319.0	89.70	271.50	8,678.1	-5,019.1	-15.8	-665.8	666.0	268.64
9,414.0	89.50	271.70	8,678.7	-5,019.7	-13.1	-760.8	760.9	269.01
9,508.0	90.00	272.40	8,679.1	-5,020.1	-9.8	-854.7	854.8	269.35
9,602.0	88.60	268.40	8,680.3	-5,021.3	-9.1	-948.7	948.7	269.45



Microsoft
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Survey

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9,696.0	88.70	269.30	8,682.5	-5,023.5	-11.0	-1,042.6	1,042.7	269.40
9,791.0	88.40	270.20	8,684.9	-5,025.9	-11.4	-1,137.6	1,137.7	269.43
9,885.0	90.50	270.00	8,685.8	-5,026.8	-11.2	-1,231.6	1,231.6	269.48
9,979.0	90.90	270.40	8,684.7	-5,025.7	-10.9	-1,325.6	1,325.6	269.53
10,074.0	90.70	271.00	8,683.3	-5,024.3	-9.7	-1,420.6	1,420.6	269.61
10,169.0	90.50	272.40	8,682.3	-5,023.3	-8.9	-1,515.5	1,515.5	269.74
10,263.0	89.20	269.70	8,682.6	-5,023.6	-5.2	-1,609.5	1,609.5	269.81
10,358.0	88.80	271.10	8,684.3	-5,025.3	-4.5	-1,704.5	1,704.5	269.85
10,452.0	93.00	268.70	8,682.8	-5,023.8	-4.7	-1,798.4	1,798.4	269.85
10,547.0	93.30	269.30	8,677.6	-5,018.6	-6.4	-1,893.3	1,893.3	269.81
10,641.0	90.50	268.60	8,674.4	-5,015.4	-8.1	-1,987.2	1,987.2	269.77
10,735.0	90.60	268.60	8,673.5	-5,014.5	-10.4	-2,081.2	2,081.2	269.71
10,829.0	90.50	270.40	8,672.8	-5,013.6	-11.2	-2,175.2	2,175.2	269.70
10,923.0	90.10	271.00	8,672.1	-5,013.1	-10.1	-2,269.1	2,269.2	269.75
11,017.0	90.00	272.20	8,672.1	-5,013.1	-7.4	-2,363.1	2,363.1	269.82
11,111.0	89.30	270.30	8,672.6	-5,013.6	-5.4	-2,457.1	2,457.1	269.87
11,206.0	90.60	267.00	8,672.7	-5,013.7	-7.6	-2,552.0	2,552.1	269.83
11,301.0	90.90	267.90	8,671.5	-5,012.5	-11.8	-2,646.9	2,647.0	269.74
11,395.0	90.90	267.90	8,670.0	-5,011.0	-15.3	-2,740.9	2,740.9	269.88
11,489.0	91.30	268.30	8,668.2	-5,009.2	-18.4	-2,834.8	2,834.9	269.63
11,584.0	91.60	269.10	8,665.8	-5,006.8	-20.6	-2,929.7	2,929.8	269.60
11,679.0	91.80	269.20	8,663.0	-5,004.0	-22.0	-3,024.7	3,024.8	269.58
11,773.0	90.50	266.70	8,661.1	-5,002.1	-25.3	-3,118.6	3,118.7	269.53
11,867.0	90.50	267.40	8,660.3	-5,001.3	-30.2	-3,212.5	3,212.6	269.46
11,962.0	90.40	267.40	8,659.5	-5,000.5	-34.5	-3,307.4	3,307.5	269.40
12,057.0	89.70	269.00	8,659.4	-5,000.4	-37.5	-3,402.3	3,402.5	269.37
12,151.0	89.50	269.30	8,660.1	-5,001.1	-38.9	-3,496.3	3,496.5	269.36



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12,245.0	90.70	268.20	8,659.9	-5,000.9	-40.9	-3,590.3	3,590.5	269.35
12,339.0	91.30	267.80	8,658.3	-4,999.3	-44.2	-3,684.2	3,684.5	269.31
12,434.0	90.10	267.50	8,657.1	-4,998.1	-48.1	-3,779.1	3,779.4	269.27
12,527.0	88.70	266.20	8,658.1	-4,999.1	-53.2	-3,872.0	3,872.3	269.21
12,622.0	90.30	267.10	8,658.9	-4,999.9	-58.7	-3,966.8	3,967.2	269.15
12,716.0	92.50	267.70	8,658.6	-4,997.6	-63.0	-4,060.7	4,061.2	269.11
12,811.0	91.00	266.20	8,653.7	-4,994.7	-68.1	-4,155.5	4,156.0	269.06
12,903.0	91.30	265.70	8,651.9	-4,992.9	-74.5	-4,247.2	4,247.9	268.99
12,996.0	92.30	265.40	8,649.0	-4,990.0	-81.8	-4,339.9	4,340.7	268.92
13,090.0	92.50	268.60	8,645.0	-4,986.0	-86.7	-4,433.7	4,434.5	268.88
13,183.0	91.40	270.90	8,641.9	-4,982.9	-87.1	-4,526.6	4,527.5	268.90
13,278.0	90.40	270.20	8,640.4	-4,981.4	-86.2	-4,621.6	4,622.4	268.93
13,372.0	88.90	269.90	8,640.9	-4,981.9	-88.1	-4,715.6	4,716.4	268.95
13,466.0	90.90	272.60	8,641.1	-4,982.1	-84.0	-4,809.6	4,810.3	269.00
13,561.0	90.20	272.30	8,640.2	-4,981.2	-80.0	-4,904.5	4,905.1	269.07
13,655.0	92.40	272.30	8,638.1	-4,979.1	-76.2	-4,998.4	4,998.9	269.13
13,749.0	91.90	272.00	8,634.5	-4,975.5	-72.7	-5,092.2	5,092.7	269.18
13,844.0	92.60	271.40	8,630.8	-4,971.8	-69.9	-5,187.1	5,187.6	269.23
13,937.0	91.10	271.90	8,627.8	-4,968.8	-67.2	-5,280.0	5,280.5	269.27
14,032.0	91.60	272.00	8,625.6	-4,968.6	-64.0	-5,374.9	5,375.3	269.32
14,126.0	91.30	271.90	8,623.2	-4,964.2	-60.8	-5,468.9	5,469.2	269.36
14,221.0	90.60	272.20	8,621.6	-4,962.6	-57.4	-5,563.8	5,564.1	269.41
14,315.0	89.00	270.30	8,621.9	-4,962.9	-55.3	-5,657.8	5,658.0	269.44
14,410.0	88.30	270.50	8,624.2	-4,965.2	-54.6	-5,752.7	5,753.0	269.46
14,504.0	91.00	272.00	8,624.8	-4,965.8	-52.6	-5,846.7	5,846.9	269.48
14,599.0	88.90	272.50	8,624.8	-4,965.8	-48.9	-5,941.6	5,941.8	269.53
14,693.0	89.10	271.90	8,626.5	-4,967.5	-45.3	-6,035.5	6,035.7	269.57



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 24/23- 18S-30E Virgo 23/24 B2AD Fed C
Well: Virgo 23/24 B2AD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Virgo 23/24 B2AD Fed Com #1H
TVD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
MD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,787.0	92.70	272.30	8,625.0	-4,966.0	-41.8	-6,129.4	6,129.6	269.81
14,882.0	93.80	274.10	8,619.6	-4,960.6	-36.5	-6,224.1	6,224.2	269.66
14,978.0	91.00	274.10	8,615.7	-4,956.7	-29.8	-6,317.8	6,317.9	269.73
15,071.0	89.80	272.00	8,615.0	-4,956.0	-24.8	-6,412.7	6,412.7	269.78
15,165.0	90.50	269.10	8,614.8	-4,955.8	-23.9	-6,506.6	6,506.7	269.79
15,260.0	90.30	270.40	8,614.1	-4,955.1	-24.3	-6,601.6	6,601.7	269.79
15,354.0	90.60	272.10	8,613.4	-4,954.4	-22.2	-6,695.6	6,695.6	269.81
15,448.0	91.70	271.50	8,611.5	-4,952.5	-19.3	-6,789.5	6,789.6	269.84
15,543.0	91.60	270.80	8,608.7	-4,949.7	-17.4	-6,884.5	6,884.5	269.86
15,637.0	91.70	267.40	8,606.0	-4,947.0	-18.8	-6,978.4	6,978.4	269.85
15,731.0	92.20	267.40	8,602.8	-4,943.8	-23.1	-7,072.3	7,072.3	269.81
15,826.0	89.60	268.60	8,601.3	-4,942.3	-26.4	-7,167.2	7,167.2	269.79
15,920.0	89.70	270.00	8,601.9	-4,942.9	-27.6	-7,261.2	7,261.2	269.78
16,015.0	90.80	270.80	8,601.5	-4,942.5	-26.9	-7,356.2	7,356.2	269.79
16,109.0	90.10	268.50	8,600.8	-4,941.8	-27.5	-7,450.2	7,450.2	269.79
16,203.0	88.30	269.90	8,602.1	-4,943.1	-28.8	-7,544.1	7,544.2	269.78
16,298.0	89.30	268.00	8,604.1	-4,945.1	-30.5	-7,639.1	7,639.1	269.77
16,392.0	91.30	269.10	8,603.6	-4,944.6	-32.9	-7,733.0	7,733.1	269.76
16,486.0	92.00	269.90	8,600.9	-4,941.9	-33.7	-7,827.0	7,827.1	269.75
16,581.0	90.70	271.00	8,598.6	-4,939.6	-33.0	-7,922.0	7,922.0	269.76
16,675.0	91.40	271.20	8,598.9	-4,937.9	-31.2	-8,015.9	8,016.0	269.78
16,770.0	89.50	270.80	8,596.2	-4,937.2	-29.5	-8,110.9	8,111.0	269.79
16,864.0	91.60	270.00	8,595.3	-4,936.3	-28.9	-8,204.9	8,205.0	269.80
16,972.0	90.50	270.30	8,593.3	-4,934.3	-28.6	-8,312.9	8,312.9	269.80
17,067.0	91.60	268.30	8,591.5	-4,932.5	-29.7	-8,407.9	8,407.9	269.80
17,159.0	90.90	267.70	8,589.5	-4,930.5	-32.9	-8,499.8	8,499.8	269.78
17,251.0	90.50	267.90	8,588.4	-4,929.4	-36.5	-8,591.7	8,591.8	269.76



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 24/23- 18S-30E Virgo 23/24 B2AD Fed C
Well: Virgo 23/24 B2AD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Virgo 23/24 B2AD Fed Com #1H
TVD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
MD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,343.0	89.40	268.30	8,588.5	-4,929.5	-39.5	-8,683.6	8,683.7	269.74
17,436.0	91.90	268.20	8,587.4	-4,928.4	-42.4	-8,776.6	8,776.7	269.72
17,529.0	92.60	267.20	8,583.8	-4,924.8	-46.1	-8,869.4	8,869.6	269.70
17,621.0	91.90	267.00	8,580.2	-4,921.2	-50.7	-8,961.3	8,961.4	269.68
17,714.0	91.20	266.00	8,577.7	-4,918.7	-56.4	-9,054.0	9,054.2	269.64
17,807.0	89.90	265.90	8,576.8	-4,917.8	-63.0	-9,146.8	9,147.0	269.61
17,899.0	88.40	265.70	8,578.1	-4,919.1	-69.7	-9,238.5	9,238.8	269.57
17,992.0	88.20	266.00	8,580.9	-4,921.9	-76.5	-9,331.3	9,331.6	269.53
18,085.0	89.20	268.90	8,583.0	-4,924.0	-80.6	-9,424.1	9,424.5	269.51
18,178.0	89.90	269.50	8,583.7	-4,924.7	-81.9	-9,517.1	9,517.5	269.51
18,270.0	90.20	270.00	8,583.6	-4,924.6	-82.3	-9,609.1	9,609.5	269.51
18,363.0	91.00	270.60	8,582.7	-4,923.7	-81.8	-9,702.1	9,702.5	269.52
18,456.0	92.50	270.70	8,579.8	-4,920.8	-80.7	-9,797.1	9,797.4	269.53
18,552.0	94.00	270.70	8,574.4	-4,915.4	-79.6	-9,890.9	9,891.2	269.54
18,646.0	90.90	271.90	8,570.4	-4,911.4	-77.4	-9,984.8	9,985.1	269.56
18,701.6	87.95	271.78	8,571.0	-4,912.0	-75.7	-10,040.3	10,040.6	269.57
PBHL Virgo 24/23 B2AD Fed Com #1H								
18,740.0	85.90	271.70	8,573.0	-4,914.0	-74.5	-10,078.7	10,078.9	269.58
18,833.0	89.50	272.10	8,576.8	-4,917.8	-71.4	-10,171.5	10,171.8	269.60
18,867.0	88.50	271.50	8,577.4	-4,918.4	-70.3	-10,205.5	10,205.7	269.61
18,930.0	88.50	271.50	8,579.0	-4,920.0	-68.7	-10,268.5	10,268.7	269.62

18930.0' MD Projected to Bit - New Virgo 24/23 B2AD Fed Com #1H



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 24/23- 18S-30E Virgo 23/24 B2AD Fed C
Well: Virgo 23/24 B2AD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Virgo 23/24 B2AD Fed Com #1H
TVD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
MD Reference: 3632 + 27 @ 3659.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,930.0	8,579.0	-68.7	-10,268.5	18930.0' MD Projected to Bit