

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
Maverick 13 DM Fed Com 1H
Eddy

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 18 2014

160-0001

RECEIVED

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 42089

500	0.56
1,015	0.80
1,500	3.85
1,898	2.10
2,377	1.60
2,943	0.90
3,443	0.60
3,899	1.00
4,375	0.70
4,920	0.06
5,419	1.00
5,947	1.00
6,372	1.70

BY: *Daisy Carrillo*

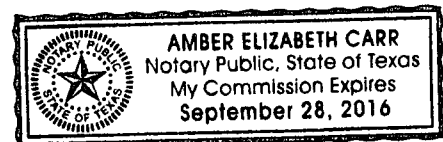
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Daisy Carrillo on behalf of Patterson-UTI Drilling Company LLC.

5/13/14, by.

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:





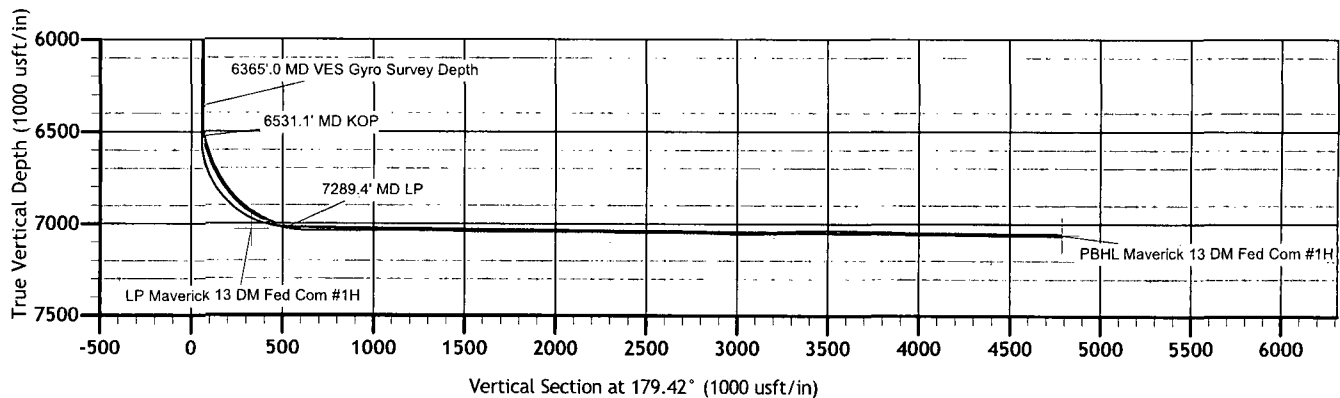
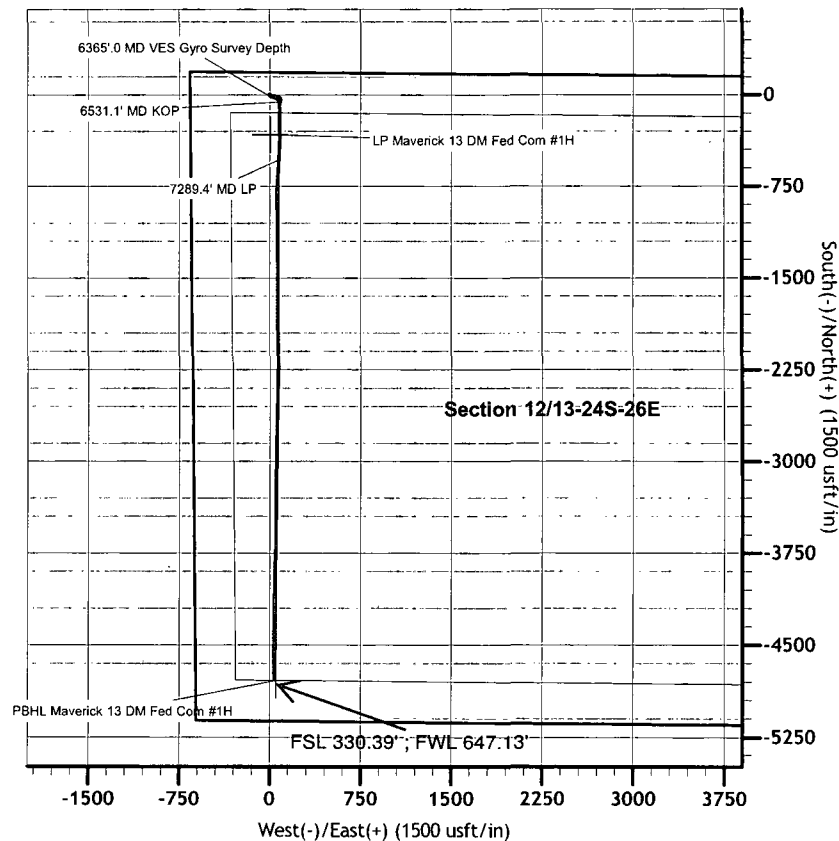
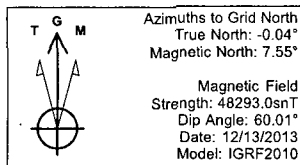
COMPANY: Mewbourne Oil Company
 WELL: Maverick 13 DM Fed Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 160

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.55°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001						
GL 3253 + 32 @ 3285.0usft (Patterson 160)						
GROUND ELEVATION: 3253.0						
+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot
0.0	0.0	445215.10	525007.40	32° 13' 26.355 N	104° 15' 8.877 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	6365.0	1.40	3.73	6362.8	-61.9	82.1	0.00	0.00	62.7	
2	6531.1	1.40	3.73	6528.9	-57.9	82.4	0.00	0.00	58.7	
3	7288.1	89.43	180.42	7018.0	-530.5	79.6	12.00	176.69	531.2	
4	11545.7	89.43	180.42	7060.0	-4787.7	48.3	0.00	0.00	4788.0	PBHL Maverick 13 DM Fed Com #1H



NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 18 2014

RECEIVED

Mewbourne Oil Company .

Eddy County, New Mexico

Section 13-24S-26E Maverick 13 DM

Maverick 13 DM Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

08 May, 2014

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Maverick 13 DM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

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 13-24S-26E Maverick 13 DM		
Site Position:		Northing:	445,215.10 usft
From:	Map	Easting:	525,007.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 26.355 N
		Longitude:	104° 15' 8.877 W
		Grid Convergence:	0.04 °

Well	Maverick 13 DM Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 445,215.10 usft
	+E/-W	0.0 usft	Easting: 525,007.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 26.355 N
		Longitude:	104° 15' 8.877 W
		Ground Level:	3,253.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/13/2013	7.59	60.01	48,293

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	172.16	

Survey Program	Date 5/8/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.0	6,365.0	VES Gyro Survey (Original Hole)	GyroFlex		
6,441.0	11,490.0	Stryker MWD Survey (Original Hole)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.40	293.05	200.0	0.3	-0.6	-0.4	0.20	0.20	0.00	
400.0	0.50	237.16	400.0	0.1	-2.0	-0.3	0.21	0.05	-27.95	
600.0	0.89	160.85	600.0	-1.9	-2.2	1.5	0.45	0.19	-38.16	
800.0	0.83	158.72	800.0	-4.7	-1.2	4.5	0.03	-0.03	-1.06	
1,000.0	1.20	128.78	999.9	-7.3	1.0	7.4	0.32	0.18	-14.97	
1,200.0	2.80	109.10	1,199.8	-10.3	7.2	11.1	0.86	0.80	-9.84	
1,400.0	3.19	104.15	1,399.5	-13.2	17.2	15.4	0.24	0.20	-2.48	
1,600.0	4.16	94.57	1,599.1	-15.2	29.9	19.1	0.57	0.48	-4.79	
1,800.0	2.90	104.20	1,798.7	-17.0	42.0	22.5	0.69	-0.63	4.82	

Survey Report

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Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,000.0	2.09	106.52	1,998.5	-19.3	50.4	25.9	0.41	-0.41	1.16
2,200.0	1.68	104.00	2,198.4	-21.0	56.7	28.5	0.21	-0.20	-1.26
2,400.0	1.46	104.04	2,398.4	-22.3	62.1	30.6	0.11	-0.11	0.02
2,600.0	1.37	99.50	2,598.3	-23.3	66.9	32.2	0.07	-0.05	-2.27
2,800.0	1.06	113.43	2,798.3	-24.5	70.9	33.9	0.21	-0.15	6.96
3,000.0	1.01	115.03	2,998.2	-26.0	74.2	35.8	0.03	-0.03	0.80
3,200.0	0.64	118.76	3,198.2	-27.2	76.8	37.5	0.19	-0.18	1.87
3,400.0	0.66	132.53	3,398.2	-28.5	78.6	39.0	0.08	0.01	6.89
3,600.0	0.69	151.15	3,598.2	-30.4	80.1	41.0	0.11	0.02	9.31
3,800.0	0.77	147.49	3,798.2	-32.6	81.4	43.4	0.05	0.04	-1.83
4,000.0	0.81	140.51	3,998.1	-34.8	83.0	45.8	0.05	0.02	-3.49
4,200.0	0.75	155.65	4,198.1	-37.1	84.4	48.3	0.11	-0.03	7.57
4,400.0	0.69	176.18	4,398.1	-39.5	85.0	50.7	0.13	-0.03	10.27
4,600.0	0.70	171.87	4,598.1	-41.9	85.3	53.1	0.03	0.00	-2.16
4,800.0	0.78	189.60	4,798.1	-44.5	85.2	55.7	0.12	0.04	8.86
5,000.0	1.01	182.58	4,998.0	-47.6	84.9	58.7	0.12	0.11	-3.51
5,200.0	1.24	196.81	5,198.0	-51.4	84.2	62.4	0.18	0.12	7.12
5,400.0	1.30	197.36	5,398.0	-55.6	82.9	66.4	0.03	0.03	0.28
5,600.0	1.04	210.82	5,597.9	-59.3	81.3	69.9	0.19	-0.13	6.73
5,800.0	1.19	205.25	5,797.9	-62.8	79.5	73.0	0.09	0.07	-2.78
6,000.0	0.63	140.16	5,997.9	-65.5	79.3	75.7	0.54	-0.28	-32.55
6,200.0	1.06	37.44	6,197.8	-64.9	81.1	75.4	0.67	0.21	-51.36
6,365.0	1.44	1.91	6,362.8	-61.6	82.1	72.2	0.51	0.24	-21.53
6365' VES Gyro Survey Tie-In									
6,441.0	0.60	306.70	6,438.8	-60.4	81.9	71.0	1.59	-1.11	-72.65
6,473.0	4.00	191.90	6,470.8	-61.4	81.5	71.9	13.39	10.63	-358.75
6,505.0	9.00	186.60	6,502.6	-65.0	81.0	75.4	15.72	15.63	-16.56
6,537.0	14.30	182.50	6,533.9	-71.4	80.5	81.7	16.75	16.56	-12.81
6,568.0	16.70	181.70	6,563.8	-79.7	80.2	89.9	7.77	7.74	-2.58
6,600.0	18.70	179.00	6,594.2	-89.4	80.2	99.5	6.75	6.25	-8.44
6,631.0	20.60	178.70	6,623.4	-99.9	80.4	109.9	6.14	6.13	-0.97
6,663.0	22.40	178.00	6,653.2	-111.6	80.7	121.5	5.68	5.63	-2.19
6,695.0	25.10	178.90	6,682.5	-124.5	81.1	134.3	8.51	8.44	2.81
6,727.0	27.30	179.60	6,711.2	-138.6	81.2	148.4	6.94	6.88	2.19
6,758.0	31.30	180.10	6,738.2	-153.8	81.3	163.4	12.93	12.90	1.61
6,790.0	34.90	179.00	6,765.0	-171.2	81.4	180.7	11.41	11.25	-3.44
6,822.0	36.60	178.40	6,791.0	-189.9	81.8	199.3	5.42	5.31	-1.88
6,853.0	39.50	178.60	6,815.4	-209.0	82.3	218.3	9.36	9.35	0.65
6,885.0	44.00	179.10	6,839.3	-230.3	82.8	239.4	14.10	14.06	1.56
6,917.0	45.80	179.40	6,861.9	-252.9	83.1	261.9	5.66	5.63	0.94
6,948.0	48.50	179.50	6,883.0	-275.6	83.3	284.4	8.71	8.71	0.32
6,980.0	53.00	179.80	6,903.3	-300.4	83.4	309.0	14.08	14.06	0.94
7,012.0	55.80	180.40	6,921.9	-326.4	83.4	334.7	8.88	8.75	1.88

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Maverick 13 DM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,044.0	59.20	180.50	6,939.1	-353.4	83.2	361.4	10.63	10.63	0.31	
7,075.0	62.20	180.30	6,954.3	-380.4	83.0	388.2	9.69	9.68	-0.65	
7,107.0	65.10	180.40	6,968.5	-409.1	82.8	416.6	9.07	9.06	0.31	
7,139.0	67.80	181.20	6,981.2	-438.4	82.4	445.6	8.74	8.44	2.50	
7,170.0	71.20	184.30	6,992.1	-467.4	81.0	474.1	14.42	10.97	10.00	
7,202.0	73.50	184.80	7,001.8	-497.8	78.6	503.9	7.34	7.19	1.56	
7,234.0	78.60	184.40	7,009.5	-528.8	76.1	534.2	15.98	15.94	-1.25	
7,250.0	80.80	184.00	7,012.4	-544.5	74.9	549.6	13.97	13.75	-2.50	
7,340.0	90.60	183.00	7,019.1	-633.9	69.5	637.5	10.94	10.89	-1.11	
7,435.0	90.00	181.90	7,018.6	-728.8	65.4	730.9	1.32	-0.63	-1.16	
7,499.0	89.30	181.60	7,019.0	-792.8	63.4	794.1	1.19	-1.09	-0.47	
7,562.0	90.10	179.80	7,019.3	-855.8	62.7	856.4	3.13	1.27	-2.86	
7,625.0	89.30	178.80	7,019.7	-918.8	63.4	918.9	2.03	-1.27	-1.59	
7,721.0	91.30	178.60	7,019.2	-1,014.8	65.6	1,014.2	2.09	2.08	-0.21	
7,815.0	90.80	179.80	7,017.4	-1,108.7	66.9	1,107.5	1.38	-0.53	1.28	
7,910.0	89.10	180.60	7,017.5	-1,203.7	66.6	1,201.6	1.98	-1.79	0.84	
8,005.0	88.70	179.50	7,019.4	-1,298.7	66.5	1,295.6	1.23	-0.42	-1.16	
8,100.0	89.10	179.80	7,021.2	-1,393.7	67.1	1,389.8	0.53	0.42	0.32	
8,195.0	88.10	178.90	7,023.5	-1,488.7	68.2	1,484.0	1.42	-1.05	-0.95	
8,290.0	90.30	180.30	7,024.8	-1,583.6	68.8	1,578.2	2.74	2.32	1.47	
8,385.0	89.10	179.10	7,025.3	-1,678.6	69.3	1,672.4	1.79	-1.26	-1.26	
8,480.0	90.60	180.20	7,025.6	-1,773.6	69.9	1,766.6	1.96	1.58	1.16	
8,575.0	90.50	180.10	7,024.7	-1,868.6	69.7	1,860.7	0.15	-0.11	-0.11	
8,670.0	90.10	179.00	7,024.2	-1,963.6	70.4	1,954.9	1.23	-0.42	-1.16	
8,765.0	89.30	179.60	7,024.7	-2,058.6	71.6	2,049.1	1.05	-0.84	0.63	
8,860.0	89.30	181.40	7,025.8	-2,153.6	70.8	2,143.1	1.89	0.00	1.89	
8,955.0	88.70	181.50	7,027.5	-2,248.5	68.3	2,236.9	0.64	-0.63	0.11	
9,050.0	88.20	180.70	7,030.0	-2,343.5	66.5	2,330.7	0.99	-0.53	-0.84	
9,146.0	90.50	181.80	7,031.1	-2,439.4	64.4	2,425.5	2.66	2.40	1.15	
9,241.0	90.30	181.40	7,030.5	-2,534.4	61.8	2,519.2	0.47	-0.21	-0.42	
9,335.0	89.80	180.40	7,030.4	-2,628.4	60.3	2,612.1	1.19	-0.53	-1.06	
9,430.0	89.10	180.00	7,031.3	-2,723.4	60.0	2,706.1	0.85	-0.74	-0.42	
9,525.0	87.80	179.20	7,033.9	-2,818.3	60.6	2,800.3	1.61	-1.37	-0.84	
9,620.0	88.50	181.00	7,036.9	-2,913.3	60.5	2,894.3	2.03	0.74	1.89	
9,715.0	89.80	181.50	7,038.3	-3,008.3	58.4	2,988.1	1.47	1.37	0.53	
9,810.0	90.10	181.20	7,038.4	-3,103.2	56.2	3,081.9	0.45	0.32	-0.32	
9,905.0	92.10	180.80	7,036.6	-3,198.2	54.5	3,175.8	2.15	2.11	-0.42	
9,999.0	91.80	179.90	7,033.4	-3,292.1	53.9	3,268.7	1.01	-0.32	-0.96	
10,094.0	91.30	179.30	7,030.8	-3,387.1	54.6	3,362.9	0.82	-0.53	-0.63	
10,189.0	90.40	180.80	7,029.4	-3,482.1	54.5	3,457.0	1.84	-0.95	1.58	
10,284.0	89.20	181.10	7,029.8	-3,577.1	52.9	3,550.9	1.30	-1.26	0.32	
10,379.0	88.40	181.60	7,031.7	-3,672.0	50.7	3,644.6	0.99	-0.84	0.53	
10,474.0	87.30	180.80	7,035.3	-3,766.9	48.7	3,738.4	1.43	-1.16	-0.84	

Survey Report

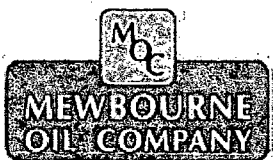
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Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,569.0	89.00	181.20	7,038.4	-3,861.9	47.0	3,832.2	1.84	1.79	0.42
10,664.0	88.40	180.80	7,040.5	-3,956.8	45.4	3,926.1	0.76	-0.63	-0.42
10,759.0	90.50	181.00	7,041.4	-4,051.8	43.9	4,020.0	2.22	2.21	0.21
10,854.0	89.50	181.00	7,041.4	-4,146.8	42.2	4,113.8	1.05	-1.05	0.00
10,949.0	88.90	180.80	7,042.8	-4,241.8	40.7	4,207.7	0.67	-0.63	-0.21
11,044.0	90.20	180.70	7,043.5	-4,336.8	39.5	4,301.6	1.37	1.37	-0.11
11,139.0	88.50	180.20	7,044.6	-4,431.7	38.8	4,395.6	1.87	-1.79	-0.53
11,235.0	90.70	180.10	7,045.3	-4,527.7	38.5	4,490.7	2.29	2.29	-0.10
11,330.0	89.90	179.80	7,044.8	-4,622.7	38.6	4,584.8	0.90	-0.84	-0.32
11,425.0	88.80	179.20	7,045.8	-4,717.7	39.4	4,679.0	1.32	-1.16	-0.63
11,447.0	88.60	178.80	7,046.3	-4,739.7	39.8	4,700.9	2.03	-0.91	-1.82
11,490.0	88.20	178.20	7,047.5	-4,782.7	40.9	4,743.6	1.68	-0.93	-1.40
11490' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,365.0	6,362.8	-61.6	82.1	6365' VES Gyro Survey Tie-In
11,490.0	7,047.5	-4,782.7	40.9	11490' MD Projected to Bit



Company: Mewbourne Oil
Well: Maverick 13 DM Fed Com No 001H



Rig Name: Patterson 160
State/County: New Mexico/Eddy
Latitude: 32.224, Longitude: -104.252
GRID North is 0.040 Degrees East of True North
VS-Azi: 0.000 Degrees

Depth Reference : RKB= 32'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: h gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 5/13/2014 / 08:50

VES Survey International

Midland, Texas

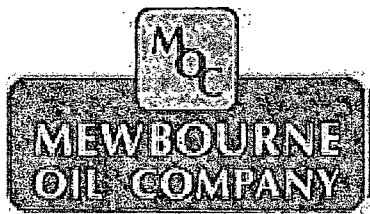
432-563-5444

Surveyor: Mark Simmons

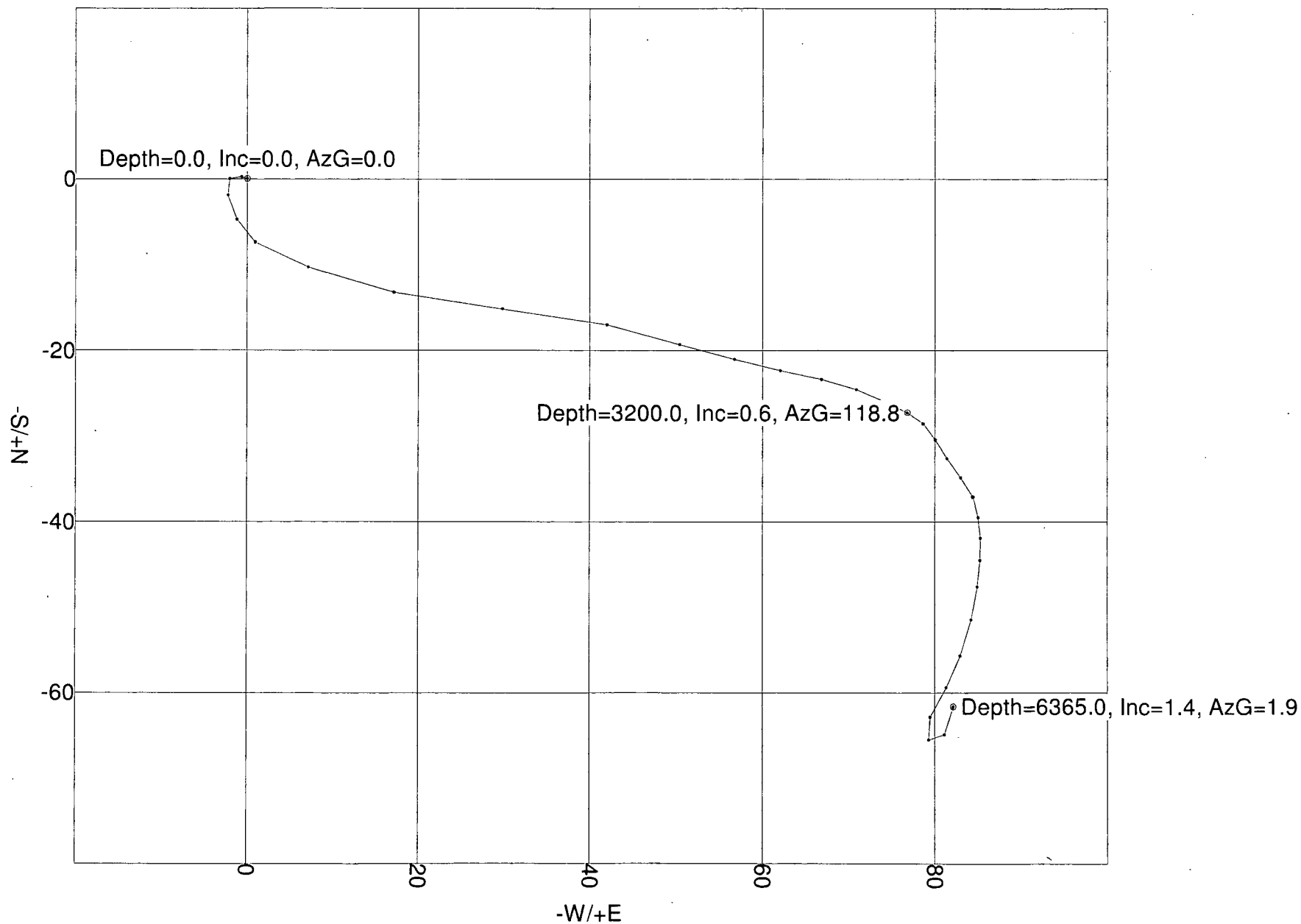
Maverick 13 DM Fed Com No 001H / API 30-015-42089

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	****
200.000	0.398	293.054	199.998	0.272	-0.639	0.272	0.695	293.054	0.199
400.000	0.499	237.161	399.993	0.072	-2.011	0.072	2.012	272.039	0.215
600.000	0.888	160.847	599.982	-1.865	-2.235	-1.865	2.911	230.153	0.455
800.000	0.832	158.722	799.959	-4.681	-1.199	-4.681	4.833	194.370	0.032
1000.000	1.200	128.782	999.929	-7.345	0.959	-7.345	7.408	172.559	0.317
1200.000	2.799	109.104	1199.802	-10.255	7.205	-10.255	12.533	144.907	0.859
1400.000	3.194	104.151	1399.529	-13.215	17.222	-13.215	21.708	127.500	0.236
1600.000	4.163	94.567	1599.116	-15.155	29.863	-15.155	33.488	116.908	0.572
1800.000	2.904	104.198	1798.734	-16.976	42.012	-16.976	45.312	112.003	0.694
2000.000	2.085	106.522	1998.543	-19.254	50.412	-19.254	53.963	110.903	0.413
2200.000	1.677	104.004	2198.434	-20.996	56.738	-20.996	60.499	110.307	0.208
2400.000	1.462	104.038	2398.359	-22.323	62.053	-22.323	65.946	109.786	0.107
2600.000	1.365	99.504	2598.298	-23.335	66.877	-23.335	70.831	109.235	0.074
2800.000	1.062	113.426	2798.254	-24.465	70.926	-24.465	75.027	109.031	0.210
3000.000	1.010	115.026	2998.221	-25.948	74.224	-25.948	78.629	109.269	0.030
3200.000	0.641	118.759	3198.200	-27.232	76.803	-27.232	81.488	109.523	0.187
3400.000	0.657	132.529	3398.187	-28.546	78.629	-28.546	83.650	109.953	0.078
3600.000	0.693	151.152	3598.174	-30.380	80.058	-30.380	85.628	110.781	0.111
3800.000	0.770	147.488	3798.157	-32.573	81.364	-32.573	87.641	111.818	0.045
4000.000	0.809	140.511	3998.138	-34.796	82.984	-34.796	89.984	112.749	0.052

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
4200.000	0.754	155.652	4198.120	-37.086	84.425	-37.086	92.211	113.715	0.107
4400.000	0.690	176.184	4398.104	-39.486	85.048	-39.486	93.767	114.905	0.133
4600.000	0.699	171.874	4598.090	-41.895	85.301	-41.895	95.034	116.158	0.027
4800.000	0.783	189.601	4798.073	-44.451	85.245	-44.451	96.138	117.540	0.121
5000.000	1.008	182.577	4998.049	-47.556	84.938	-47.556	97.345	119.244	0.125
5200.000	1.242	196.810	5198.010	-51.390	84.232	-51.390	98.671	121.387	0.181
5400.000	1.297	197.363	5397.961	-55.626	82.929	-55.626	99.858	123.852	0.028
5600.000	1.044	210.822	5597.920	-59.351	81.321	-59.351	100.676	126.123	0.186
5800.000	1.189	205.253	5797.882	-62.793	79.502	-62.793	101.309	128.303	0.091
6000.000	0.630	140.163	5997.860	-65.515	79.320	-65.515	102.878	129.555	0.543
6200.000	1.055	37.440	6197.846	-64.897	81.145	-64.897	103.904	128.652	0.671
6365.000	1.444	1.912	6362.809	-61.612	82.138	-61.612	102.677	126.874	0.514



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Mark Simmons
Maverick 13 DM Fed Com No 001H / API 30-015-42089



VES Survey Date: 04/26/2014

Operating Company Mewbourne Oil Co.
 Well Name & Number Maverick 13 DM FED COM 1H
 Sales Ticket Number 6357144-1
 Date 5/5/2014

Company Rep Art Hillard
 Field 0
 BOT Service Rep MIKE MARTINEZ
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	80000	6.276	6.151	0	0.03826	7,297.00	7,240	5,410
Top Liner	4.500	13.50	55000	4.000	3.875	LTC / 8RD	0.01554	4,358.37	5,350	4,960
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-
TVD	7047.00		KOP	6440.00		Open Hole	6.125	Casing Vol. (bbl)	270.1	
Carry Fluid Weight (ppg)	8.4		Propant Content (ppa)				Max Drill Out Size		0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	10292414	JR slv with 4.750 ALT seal bore ID	7058.54	4.00	5.750	3.938			

Zone Length										
	H409400008	S-3 CASING HANGER	7062.54	4.66	5.875	3.875		1670		
	H299900281	COMBO COLLAR	7067.20	0.59	4.500	3.938				
Zone 20 418.4	H299710014	SPACER NIPPLE	7067.79	7.41	4.500	3.938				
		7 Joints of 4-1/2-13.5 LTC Casing	7075.20	314.72	4.500	3.920				
	H810090200	3.500 Express Frac Slv zone 20	7389.92	2.40	5.750		3.448	2286		
Zone 19 230.9		2 Joints of 4-1/2-13.5 LTC Casing	7392.32	89.38	4.500	3.920				
	H409360008	Baker Open Hole Packer 19	7481.70	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	7485.59	89.67	4.500	3.920				
Zone 18 186.8	H810090199	3.438 Express Frac Sleeve zone 19	7575.26	2.40	5.750		3.385	2286		
		3 Joints of 4-1/2-13.5 LTC Casing	7577.66	134.96	4.500	3.920				
	H409360008	Baker Open Hole Packer 18	7712.62	3.89	5.820	3.875		2154		
zone 17 230.4		2 Joints of 4-1/2-13.5 LTC Casing	7716.51	89.88	4.500	3.920				
	H810090198	3.375 Express Frac Sleeve zone 18	7806.39	2.40	5.750		3.323	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	7808.79	90.67	4.500	3.920				
Zone 16 186.4	H409360008	Baker Open Hole Packer 17	7899.46	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	7903.35	90.67	4.500	3.920				
	H810090197	3.313 Express Frac Sleeve zone 17	7994.02	2.40	5.750		3.260	2286		
		3 Joints of 4-1/2-13.5 LTC Casing	7996.42	133.48	4.500	3.920				
	H409360008	Baker Open Hole Packer 16	8129.90	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	8133.79	90.40	4.500	3.920				
	H810090196	3.250 Express Frac Sleeve zone 16	8224.19	2.40	5.750		3.198	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	8226.59	89.72	4.500	3.920				

Operating Company Mewbourne Oil Co.
Well Name & Number Javerick 13 DM FED COM 1H
Sales Ticket Number 6357144-1

Company Rep Art Hillard
Field 0
BOT Service Rep MIKE MARTINEZ
District Location Odessa, TX



Date 5/5/2014

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	80000	6.276	6.151	0	0.03826	7,297.00	7,240	5,410
Top Liner	4.500	13.50	55000	4.000	3.875	LTC / 8RD	0.01554	4,358.37	5,350	4,960
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	7047.00	KOP	6440.00	Open Hole	6.125	Casing Vol. (bbl)	270.1
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Carry Fluid Weight (ppg)	8.4	Propan Content (ppa)		Max Drill Out Size	0
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		Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Zone 15 230.9		H409360008	Baker Open Hole Packer 15	8316.31	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	8320.20	89.94	4.500	3.920				
		H810090195	3.188 Express Frac sleeve zone 15	8410.14	2.40	5.750		3.135	2286		
			3 Joints of 4-1/2-13.5 LTC Casing	8412.54	134.68	4.500	3.920				
Zone 14 187.7		H409360008	Baker Open Hole Packer 14	8547.22	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	8551.11	90.79	4.500	3.920				
		H810090194	3.125 Express Frac Sleeve zone 14	8641.90	2.40	5.750		3.073	2286		
			2 Joints of 4-1/2-13.5 LTC Casing	8644.30	90.65	4.500	3.920				
Zone 13 232.5		H409360008	Baker Open Hole Packer 13	8734.95	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	8738.84	90.71	4.500	3.920				
		H810090193	3.063 Express Frac Sleeve zone 13	8829.55	2.40	5.750		3.010	2286		
			3 Joints of 4-1/2-13.5 LTC Casing	8831.95	135.46	4.500	3.920				
Zone 12 187.2		H409360008	Baker Open Hole Packer 12	8967.41	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	8971.30	90.70	4.500	3.920				
		H810090192	3.000 Express Frac Sleeve zone 12	9062.00	2.40	5.750		2.948	2286		
			2 Joints of 4-1/2-13.5 LTC Casing	9064.40	90.19	4.500	3.920				
Zone 11 232.7		H409360008	Baker Open Hole Packer 11	9154.59	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	9158.48	90.20	4.500	3.920				
		H810090191	2.938 Express Frac Sleeve zone 11	9248.68	2.40	5.750		2.885	2286		
			3 Joints of 4-1/2-13.5 LTC Casing	9251.08	136.23	4.500	3.920				
Zone 10 232.7		H409360008	Baker Open Hole Packer 10	9387.31	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	9391.20	90.66	4.500	3.920				
		H810090190	2.875 Express Frac Sleeve zone 10	9481.86	2.40	5.750		2.823	2286		
			3 Joints of 4-1/2-13.5 LTC Casing	9484.26	135.73	4.500	3.920				
Zone 9		H409360008	Baker Open Hole Packer 9	9619.99	3.89	5.820	3.875		2154		
			2 Joints of 4-1/2-13.5 LTC Casing	9623.88	90.66	4.500	3.920				

Operating Company Mewbourne Oil Co.
 Well Name & Number Maverick 13 DM FED COM 1H
 Sales Ticket Number 6357144-1
 Date 5/5/2014

Company Rep Art Hillard
 Field 0
 BOT Service Rep MIKE MARTINEZ
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	80000	6.276	6.151	0	0.03826	7,297.00	7,240	5,410
Top Liner	4.500	13.50	55000	4.000	3.875	LTC / 8RD	0.01554	4,358.37	5,350	4,960
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-
TVD		7047.00	KOP		6440.00	Open Hole		6.125	Casing Vol. (bbl)	270.1
Carry Fluid Weight (ppg)		8.4	Propant Content (ppa)					Max Drill Out Size		0

		Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)	
187.6		H810090189	2.813 Express Frac Sleeve zone 9	9714.54	2.40	5.750		2.760	2286			
			2 Joints of 4-1/2-13.5 LTC Casing	9716.94	90.68	4.500	3.920					
		H409360008	Baker Open Hole Packer 8	9807.62	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	9811.51	90.17	4.500	3.920						
Zone 8												
		186.7	H810090188	2.750 Express Frac Sleeve zone 8	9901.68	2.40	5.750		2.698	2286		
			2 Joints of 4-1/2-13.5 LTC Casing	9904.08	90.41	4.500	3.920					
		H409360008	Baker Open Hole Packer 7	9994.49	3.89	5.820	3.875		2154			
		2 Joints of 4-1/2-13.5 LTC Casing	9998.38	90.42	4.500	3.920						
Zone 7												
232.7		H810090187	2.688 Express Frac Sleeve zone 7	10088.80	2.40	5.750		2.635	2286			
		3 Joints of 4-1/2-13.5 LTC Casing	10091.20	136.01	4.500	3.920						
		H409360008	Baker Open Hole Packer 6	10227.21	3.89	5.820	3.875		2154			
		3 Joints of 4-1/2-13.5 LTC Casing	10231.10	136.03	4.500	3.920						
Zone 6												
232.2		H810090186	2.625 Express Frac Sleeve zone 6	10367.13	2.40	5.750		2.573	2286			
		2 Joints of 4-1/2-13.5 LTC Casing	10369.53	89.70	4.500	3.920						
		H409360008	Baker Open Hole Packer 5	10459.23	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	10463.12	89.92	4.500	3.920							
Zone 5												
232.2	H810090185	2.563 Express Frac Sleeve zone 5	10553.04	2.40	5.750		2.510	2286				
	3 Joints of 4-1/2-13.5 LTC Casing	10555.44	135.99	4.500	3.920							
	H409360008	Baker Open Hole Packer 4	10691.43	3.89	5.820	3.875		2154				
	2 Joints of 4-1/2-13.5 LTC Casing	10695.32	90.83	4.500	3.920							
Zone 4												
187	H810090184	2.500 Express Frac Sleeve zone 4	10786.15	2.40	5.750		2.448	2286				
	2 Joints of 4-1/2-13.5 LTC Casing	10788.55	89.92	4.500	3.920							
	H409360008	Baker Open Hole Packer 3	10878.47	3.89	5.820	3.875		2154				
	2 Joints of 4-1/2-13.5 LTC Casing	10882.36	90.40	4.500	3.920							
ZONE 3												
186.6	H810090183	2.438 Express Frac Sleeve zone 3	10972.76	2.40	5.750		2.386	2286				
	2 Joints of 4-1/2-13.5 LTC Casing	10975.16	89.95	4.500	3.920							

Company Rep	Art Hillard
Field	0
BOT Service Rep	MIKE MARTINEZ



Date 5/5/2014

District Location Odessa, TX

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	80000	6.276	6.151	0	0.03826	7,297.00	7,240	5,410
Top Liner	4.500	13.50	55000	4.000	3.875	LTC / 8RD	0.01554	4,358.37	5,350	4,960
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	7047.00	KOP	6440.00	Open Hole	6.125	Casing Vol. (bbl)	270.1
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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