



30.015.41156

Mewbourne Oil Company

Eddy County, New Mexico

Burton 4 IL Federal Com

Burton 4 IL Federal Com # 1H

OH

Design: OH

Standard Survey Report

10 June, 2013



Survey Report

Company:	Mebourne Oil Company	Local Co-ordinate Reference:	Well Burton 4 IL Federal Com # 1H
Project:	Eddy County New Mexico	TVD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Site:	Burton 4 IL Federal Com	MD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Well:	Burton 4 IL Federal Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

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	Burton 4 IL Federal Com		
Site Position:		Northing:	582,178.46 usft
From:	Map	Easting:	580,652.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32° 36' 0.866 N
		Longitude:	104° 4' 17.187 W
		Grid Convergence:	0.14 °

Well	Burton 4 IL Federal Com # 1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 36' 0.866 N
		Longitude:	104° 4' 17.187 W
		Ground Level:	3,329.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	6/10/2013	7.60
			Dip Angle
			60.40
			Field Strength
			48,590

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			269.72

Survey Program	Date 6/10/2013		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	7,349.00	Survey #1 (OH)	GyroFlex
7,374.00	12,550.00	Survey #2 (OH)	MWD
			MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.59	203.71	100.00	-0.47	-0.21	0.21	0.59	0.59	0.00	
200.00	0.18	237.79	200.00	-1.03	-0.55	0.55	0.45	-0.41	34.08	
300.00	0.83	23.57	299.99	-0.45	-0.39	0.39	0.98	0.65	145.78	
400.00	2.29	15.98	399.95	2.14	0.45	-0.46	1.47	1.46	-7.59	
500.00	2.61	3.70	499.86	6.33	1.15	-1.18	0.61	0.32	-12.28	
600.00	2.80	4.02	599.75	11.04	1.46	-1.52	0.19	0.19	0.32	
700.00	3.02	12.52	699.62	16.05	2.21	-2.29	0.48	0.22	8.50	
800.00	3.38	25.15	799.47	21.29	4.03	-4.13	0.79	0.36	12.63	
900.00	3.52	36.66	899.29	26.42	7.12	-7.25	0.71	0.14	11.51	



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Well:	Burton 4 IL Federal Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	3.36	48.82	999.11	30.81	11.16	-11.31	0.75	-0.16	12.16
1,100.00	3.02	50.43	1,098.95	34.42	15.39	-15.56	0.35	-0.34	1.61
1,200.00	2.62	51.98	1,198.83	37.50	19.22	-19.41	0.41	-0.40	1.55
1,300.00	2.40	59.65	1,298.74	39.97	22.83	-23.02	0.40	-0.22	7.67
1,400.00	1.56	69.78	1,398.68	41.50	25.91	-26.12	0.91	-0.84	10.13
1,500.00	1.22	101.94	1,498.65	41.75	28.23	-28.44	0.84	-0.34	32.16
1,600.00	1.35	102.23	1,598.62	41.28	30.43	-30.63	0.13	0.13	0.29
1,700.00	1.42	111.99	1,698.59	40.57	32.73	-32.92	0.25	0.07	9.76
1,800.00	1.33	129.25	1,798.57	39.37	34.77	-34.97	0.42	-0.09	17.26
1,900.00	2.01	151.55	1,898.52	37.09	36.51	-36.69	0.93	0.68	22.30
2,000.00	3.76	161.87	1,998.39	32.43	38.36	-38.52	1.82	1.75	10.32
2,100.00	4.60	169.11	2,098.13	25.38	40.14	-40.27	0.99	0.84	7.24
2,200.00	4.74	179.63	2,197.80	17.31	40.93	-41.01	0.87	0.14	10.52
2,300.00	3.41	181.51	2,297.54	10.20	40.87	-40.92	1.34	-1.33	1.88
2,400.00	2.64	191.72	2,397.40	4.98	40.33	-40.35	0.94	-0.77	10.21
2,500.00	1.96	210.14	2,497.32	1.24	39.00	-39.01	1.00	-0.68	18.42
2,600.00	0.42	246.14	2,597.30	-0.38	37.81	-37.81	1.64	-1.54	36.00
2,700.00	0.61	312.51	2,697.30	-0.17	37.08	-37.08	0.59	0.19	66.37
2,800.00	0.57	350.13	2,797.29	0.68	36.60	-36.61	0.38	-0.04	37.62
2,900.00	1.24	161.04	2,897.28	0.14	36.87	-36.87	1.81	0.67	170.91
3,000.00	1.21	156.30	2,997.26	-1.85	37.64	-37.64	0.11	-0.03	-4.74
3,100.00	1.27	168.30	3,097.24	-3.90	38.29	-38.27	0.27	0.06	12.00
3,200.00	1.32	171.79	3,197.21	-6.12	38.68	-38.65	0.09	0.05	3.49
3,300.00	1.01	161.07	3,297.19	-8.10	39.13	-39.09	0.38	-0.31	-10.72
3,400.00	0.89	154.33	3,397.18	-9.63	39.76	-39.71	0.16	-0.12	-6.74
3,500.00	0.96	155.38	3,497.17	-11.09	40.44	-40.39	0.07	0.07	1.05
3,600.00	0.83	155.44	3,597.15	-12.51	41.09	-41.03	0.13	-0.13	0.06
3,700.00	0.55	155.78	3,697.15	-13.61	41.59	-41.52	0.28	-0.28	0.34
3,800.00	0.43	201.27	3,797.14	-14.40	41.65	-41.58	0.39	-0.12	45.49
3,900.00	0.30	233.21	3,897.14	-14.90	41.30	-41.23	0.24	-0.13	31.94
4,000.00	0.79	250.10	3,997.14	-15.30	40.45	-40.37	0.51	0.49	16.89
4,100.00	0.68	268.15	4,097.13	-15.55	39.20	-39.13	0.25	-0.11	18.05
4,200.00	1.01	255.42	4,197.12	-15.79	37.76	-37.68	0.38	0.33	-12.73
4,300.00	1.17	258.39	4,297.10	-16.22	35.91	-35.83	0.17	0.16	2.97
4,400.00	0.99	262.94	4,397.08	-16.53	34.05	-33.97	0.20	-0.18	4.55
4,500.00	0.74	264.72	4,497.07	-16.69	32.55	-32.47	0.25	-0.25	1.78
4,600.00	1.09	268.14	4,597.06	-16.79	30.95	-30.87	0.35	0.35	3.42
4,700.00	1.42	280.21	4,697.03	-16.60	28.78	-28.70	0.42	0.33	12.07
4,800.00	0.83	272.13	4,797.01	-16.35	26.84	-26.76	0.61	-0.59	-8.08
4,900.00	0.79	272.58	4,897.00	-16.29	25.43	-25.35	0.04	-0.04	0.45
5,000.00	0.57	282.69	4,997.00	-16.15	24.25	-24.18	0.25	-0.22	10.11
5,100.00	0.53	270.82	5,096.99	-16.04	23.31	-23.23	0.12	-0.04	-11.87
5,200.00	0.40	297.33	5,196.99	-15.87	22.53	-22.46	0.25	-0.13	26.51



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,300.00	0.57	278.65	5,296.99	-15.63	21.73	-21.66	0.23	0.17	-18.68	
5,400.00	0.52	282.68	5,396.98	-15.46	20.80	-20.72	0.06	-0.05	4.03	
5,500.00	0.85	272.82	5,496.97	-15.32	19.61	-19.54	0.35	0.33	-9.86	
5,600.00	1.54	259.44	5,596.95	-15.53	17.55	-17.48	0.74	0.69	-13.38	
5,700.00	0.79	262.66	5,696.93	-15.87	15.55	-15.47	0.75	-0.75	3.22	
5,800.00	0.72	277.14	5,796.92	-15.88	14.24	-14.16	0.20	-0.07	14.48	
5,900.00	0.47	277.81	5,896.92	-15.74	13.21	-13.13	0.25	-0.25	0.67	
6,000.00	1.03	303.22	5,996.91	-15.20	12.05	-11.98	0.64	0.56	25.41	
6,100.00	0.83	318.97	6,096.89	-14.16	10.83	-10.76	0.32	-0.20	15.75	
6,200.00	1.21	312.25	6,196.88	-12.90	9.57	-9.51	0.40	0.38	-6.72	
6,300.00	0.98	278.15	6,296.86	-12.07	7.94	-7.88	0.68	-0.23	-34.10	
6,400.00	0.30	238.63	6,396.85	-12.08	6.87	-6.81	0.77	-0.68	-39.52	
6,500.00	0.53	317.46	6,496.85	-11.88	6.33	-6.28	0.56	0.23	78.83	
6,600.00	0.53	317.83	6,596.85	-11.20	5.71	-5.66	0.00	0.00	0.37	
6,700.00	0.70	301.65	6,696.84	-10.53	4.88	-4.83	0.24	0.17	-16.18	
6,800.00	0.70	294.58	6,796.83	-9.96	3.80	-3.76	0.09	0.00	-7.07	
6,900.00	0.51	336.79	6,896.83	-9.29	3.07	-3.03	0.47	-0.19	42.21	
7,000.00	0.50	240.53	6,996.83	-9.10	2.52	-2.47	0.75	-0.01	-96.26	
7,100.00	0.54	216.97	7,096.82	-9.69	1.86	-1.81	0.22	0.04	-23.56	
7,200.00	0.84	198.51	7,196.82	-10.76	1.34	-1.29	0.37	0.30	-18.46	
7,300.00	1.16	196.98	7,296.80	-12.43	0.81	-0.75	0.32	0.32	-1.53	
7,349.00	1.30	191.42	7,345.79	-13.45	0.56	-0.49	0.38	0.29	-11.35	
Gyro Tie In: 7349.00' MD / 7345.79' TVD										
7,374.00	2.70	180.50	7,370.77	-14.31	0.49	-0.42	5.78	5.60	-43.68	
First Stryker MWD: 7374.00' MD / 7370.77' TVD										
7,406.00	3.40	184.80	7,402.73	-16.01	0.41	-0.33	2.30	2.19	13.44	
7,438.00	5.50	210.70	7,434.63	-18.28	-0.45	0.54	8.93	6.56	80.94	
7,469.00	8.80	222.60	7,465.39	-21.30	-2.82	2.92	11.61	10.65	38.39	
7,501.00	12.70	226.60	7,496.82	-25.52	-7.03	7.16	12.40	12.19	12.50	
7,533.00	16.30	230.90	7,527.80	-30.77	-13.08	13.23	11.73	11.25	13.44	
7,565.00	18.60	234.10	7,558.32	-36.60	-20.70	20.87	7.79	7.19	10.00	
7,596.00	20.00	238.60	7,587.58	-42.26	-29.23	29.43	6.59	4.52	14.52	
7,628.00	21.50	245.80	7,617.51	-47.51	-39.25	39.48	9.24	4.69	22.50	
7,660.00	23.20	253.90	7,647.11	-51.67	-50.66	50.91	10.98	5.31	25.31	
7,692.00	25.50	259.50	7,676.27	-54.67	-63.49	63.75	10.18	7.19	17.50	
7,723.00	29.10	263.90	7,703.81	-56.69	-77.55	77.83	13.31	11.61	14.19	
7,755.00	32.70	266.40	7,731.27	-58.06	-93.92	94.20	11.94	11.25	7.81	
7,787.00	37.10	268.20	7,757.51	-58.91	-112.20	112.49	14.12	13.75	5.62	
7,819.00	40.80	269.00	7,782.39	-59.39	-132.31	132.60	11.67	11.56	2.50	
7,851.00	43.60	270.40	7,806.09	-59.50	-153.80	154.09	9.23	8.75	4.37	
7,882.00	46.20	271.50	7,828.05	-59.13	-175.68	175.97	8.75	8.39	3.55	
7,914.00	49.40	273.10	7,849.54	-58.17	-199.36	199.64	10.66	10.00	5.00	
7,946.00	51.60	274.00	7,869.90	-56.64	-224.00	224.28	7.21	6.87	2.81	
7,978.00	53.40	273.90	7,889.38	-54.89	-249.33	249.59	5.63	5.62	-0.31	



Survey Report

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,009.00	56.40	274.10	7,907.20	-53.12	-274.63	274.88	9.69	-9.68	0.65
8,041.00	60.60	274.20	7,923.92	-51.15	-301.83	302.08	13.13	13.12	0.31
8,073.00	64.20	274.30	7,938.74	-49.04	-330.11	330.35	11.25	11.25	0.31
8,104.00	67.60	274.50	7,951.40	-46.87	-358.32	358.54	10.98	10.97	0.65
8,136.00	71.00	274.40	7,962.71	-44.55	-388.16	388.37	10.63	10.62	-0.31
8,168.00	74.20	274.40	7,972.27	-42.21	-418.60	418.80	10.00	10.00	0.00
8,200.00	77.20	274.10	7,980.18	-39.91	-449.52	449.71	9.42	9.37	-0.94
8,232.00	80.50	273.70	7,986.36	-37.78	-480.84	481.02	10.39	10.31	-1.25
8,263.00	84.80	273.40	7,990.33	-35.87	-511.52	511.69	13.90	13.87	-0.97
8,346.00	91.40	275.70	7,993.08	-29.29	-594.16	594.30	8.42	7.95	2.77
8,377.00	91.40	275.00	7,992.32	-26.40	-625.02	625.14	2.26	0.00	-2.26
8,408.00	91.10	274.60	7,991.65	-23.81	-655.90	656.01	1.61	-0.97	-1.29
8,440.00	91.00	274.50	7,991.06	-21.27	-687.79	687.89	0.44	-0.31	-0.31
8,471.00	90.90	274.20	7,990.55	-18.92	-718.70	718.78	1.02	-0.32	-0.97
8,503.00	90.30	272.60	7,990.21	-17.02	-750.64	750.71	5.34	-1.87	-5.00
8,535.00	90.00	272.20	7,990.13	-15.68	-782.61	782.68	1.56	-0.94	-1.25
8,567.00	89.60	271.90	7,990.24	-14.54	-814.59	814.65	1.56	-1.25	-0.94
8,599.00	90.50	272.40	7,990.21	-13.34	-846.57	846.62	3.22	2.81	1.56
8,630.00	90.40	272.50	7,989.97	-12.01	-877.54	877.59	0.46	-0.32	0.32
8,662.00	90.20	272.50	7,989.80	-10.62	-909.51	909.55	0.62	-0.62	0.00
8,693.00	90.40	271.10	7,989.64	-9.64	-940.49	940.53	4.56	0.65	-4.52
8,725.00	90.30	270.70	7,989.44	-9.14	-972.49	972.52	1.29	-0.31	-1.25
8,756.00	89.90	270.40	7,989.39	-8.84	-1,003.49	1,003.52	1.61	-1.29	-0.97
8,788.00	89.60	270.10	7,989.53	-8.70	-1,035.48	1,035.52	1.33	-0.94	-0.94
8,820.00	90.90	269.70	7,989.39	-8.76	-1,067.48	1,067.51	4.25	4.06	-1.25
8,852.00	90.90	269.50	7,988.88	-8.98	-1,099.48	1,099.51	0.62	0.00	-0.62
8,883.00	90.50	269.30	7,988.51	-9.31	-1,130.47	1,130.51	1.44	-1.29	-0.65
8,915.00	90.40	269.40	7,988.25	-9.67	-1,162.47	1,162.51	0.44	-0.31	0.31
8,947.00	90.40	269.00	7,988.03	-10.12	-1,194.47	1,194.50	1.25	0.00	-1.25
8,978.00	91.50	268.90	7,987.52	-10.69	-1,225.46	1,225.50	3.56	3.55	-0.32
9,010.00	91.40	268.90	7,986.71	-11.30	-1,257.44	1,257.48	0.31	-0.31	0.00
9,042.00	91.30	268.80	7,985.95	-11.94	-1,289.43	1,289.47	0.44	-0.31	-0.31
9,074.00	91.10	268.40	7,985.28	-12.72	-1,321.41	1,321.46	1.40	-0.62	-1.25
9,105.00	90.80	268.30	7,984.77	-13.62	-1,352.39	1,352.44	1.02	-0.97	-0.32
9,137.00	90.60	267.90	7,984.38	-14.68	-1,384.37	1,384.43	1.40	-0.62	-1.25
9,200.00	90.90	267.50	7,983.55	-17.21	-1,447.32	1,447.38	0.79	0.48	-0.63
9,264.00	90.90	267.50	7,982.55	-20.00	-1,511.25	1,511.33	0.00	0.00	0.00
9,327.00	90.60	267.20	7,981.72	-22.91	-1,574.17	1,574.27	0.67	-0.48	-0.48
9,391.00	90.80	268.00	7,980.94	-25.59	-1,638.11	1,638.22	1.29	0.31	1.25
9,454.00	90.70	267.90	7,980.12	-27.84	-1,701.07	1,701.18	0.22	-0.16	-0.16
9,517.00	90.70	268.60	7,979.35	-29.77	-1,764.03	1,764.16	1.11	0.00	1.11
9,581.00	90.30	268.20	7,978.79	-31.55	-1,828.01	1,828.14	0.88	-0.62	-0.62
9,645.00	90.90	269.10	7,978.12	-33.06	-1,891.98	1,892.12	1.69	0.94	1.41



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Burton 4 IL Federal Com # 1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Site:	Burton 4 IL Federal Com	MD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Well:	Burton 4 IL Federal Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,708.00	91.00	270.80	7,977.07	-33.12	-1,954.97	1,955.11	2.70	0.16	2.70
9,772.00	90.50	271.00	7,976.24	-32.11	-2,018.96	2,019.09	0.84	-0.78	0.31
9,835.00	90.00	270.90	7,975.96	-31.07	-2,081.95	2,082.08	0.81	-0.79	-0.16
9,898.00	91.00	270.70	7,975.41	-30.19	-2,144.94	2,145.06	1.62	1.59	-0.32
9,961.00	90.80	270.70	7,974.42	-29.42	-2,207.93	2,208.04	0.32	-0.32	0.00
10,025.00	90.40	270.40	7,973.75	-28.80	-2,271.92	2,272.03	0.78	-0.62	-0.47
10,088.00	89.90	270.00	7,973.59	-28.58	-2,334.92	2,335.03	1.02	-0.79	-0.63
10,152.00	90.80	270.40	7,973.20	-28.36	-2,398.92	2,399.03	1.54	1.41	0.62
10,215.00	90.60	270.00	7,972.43	-28.14	-2,461.91	2,462.02	0.71	-0.32	-0.63
10,277.00	90.00	269.70	7,972.10	-28.30	-2,523.91	2,524.02	1.08	-0.97	-0.48
10,341.00	90.40	270.60	7,971.88	-28.13	-2,587.91	2,588.02	1.54	0.62	1.41
10,404.00	89.90	270.90	7,971.71	-27.31	-2,650.90	2,651.01	0.93	-0.79	0.48
10,467.00	90.60	271.00	7,971.44	-26.27	-2,713.89	2,713.99	1.12	1.11	0.16
10,531.00	90.50	270.50	7,970.82	-25.43	-2,777.88	2,777.98	0.80	-0.16	-0.78
10,594.00	90.70	270.50	7,970.17	-24.88	-2,840.88	2,840.97	0.32	0.32	0.00
10,657.00	90.50	270.60	7,969.51	-24.27	-2,903.87	2,903.96	0.35	-0.32	0.16
10,720.00	90.40	270.60	7,969.01	-23.61	-2,966.87	2,966.95	0.16	-0.16	0.00
10,784.00	90.20	270.60	7,968.68	-22.94	-3,030.86	3,030.94	0.31	-0.31	0.00
10,847.00	90.30	270.40	7,968.40	-22.39	-3,093.86	3,093.93	0.35	0.16	-0.32
10,911.00	90.90	269.70	7,967.73	-22.34	-3,157.86	3,157.93	1.44	0.94	-1.09
10,974.00	90.50	269.50	7,966.96	-22.78	-3,220.85	3,220.92	0.71	-0.63	-0.32
11,037.00	91.00	270.10	7,966.14	-23.00	-3,283.84	3,283.92	1.24	0.79	0.95
11,101.00	90.90	269.70	7,965.07	-23.11	-3,347.83	3,347.91	0.64	-0.16	-0.62
11,164.00	90.20	268.70	7,964.47	-23.99	-3,410.82	3,410.90	1.94	-1.11	-1.59
11,228.00	90.40	269.10	7,964.14	-25.22	-3,474.81	3,474.89	0.70	0.31	0.62
11,291.00	91.90	269.60	7,962.87	-25.93	-3,537.79	3,537.88	2.51	2.38	0.79
11,354.00	92.00	269.10	7,960.73	-26.65	-3,600.75	3,600.84	0.81	0.16	-0.79
11,418.00	92.20	269.00	7,958.38	-27.71	-3,664.70	3,664.79	0.35	0.31	-0.16
11,481.00	91.90	268.40	7,956.13	-29.14	-3,727.64	3,727.74	1.06	-0.48	-0.95
11,544.00	91.60	268.00	7,954.20	-31.11	-3,790.58	3,790.69	0.79	-0.48	-0.63
11,607.00	91.30	267.00	7,952.61	-33.86	-3,853.50	3,853.62	1.66	-0.48	-1.59
11,670.00	91.10	267.50	7,951.29	-36.88	-3,916.41	3,916.55	0.85	-0.32	0.79
11,734.00	90.70	267.00	7,950.29	-39.95	-3,980.33	3,980.48	1.00	-0.62	-0.78
11,797.00	90.30	266.30	7,949.74	-43.63	-4,043.22	4,043.39	1.28	-0.63	-1.11
11,861.00	90.10	265.70	7,949.51	-48.10	-4,107.07	4,107.25	0.99	-0.31	-0.94
11,924.00	90.10	266.00	7,949.40	-52.66	-4,169.90	4,170.11	0.48	0.00	0.48
11,987.00	90.40	266.90	7,949.13	-56.56	-4,232.78	4,233.00	1.51	0.48	1.43
12,050.00	90.20	266.90	7,948.80	-59.96	-4,295.68	4,295.93	0.32	-0.32	0.00
12,113.00	89.50	266.40	7,948.96	-63.65	-4,358.58	4,358.84	1.37	-1.11	-0.79
12,176.00	89.80	266.40	7,949.35	-67.60	-4,421.45	4,421.73	0.48	0.48	0.00
12,240.00	90.20	266.50	7,949.35	-71.56	-4,485.33	4,485.62	0.64	0.62	0.16
12,303.00	91.00	266.60	7,948.69	-75.36	-4,548.21	4,548.52	1.28	1.27	0.16
12,366.00	91.00	266.10	7,947.59	-79.37	-4,611.07	4,611.40	0.79	0.00	-0.79



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Burton 4 IL Federal Com # 1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Site:	Burton 4 IL Federal Com	MD Reference:	RKB = 20' @ 3349.00usft (Patterson #45)
Well:	Burton 4 IL Federal Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,430.00	90.70	265.50	7,946.64	-84.05	-4,674.89	4,675.25	1.05	-0.47	-0.94
12,493.00	90.40	265.40	7,946.03	-89.05	-4,737.69	4,738.07	0.50	-0.48	-0.16
12,548.24	90.40	265.40	7,945.65	-93.48	-4,792.75	4,793.15	0.00	0.00	0.00
Burton 4 IL Federal Com # 1H: RBHL									
12,550.00	90.40	265.40	7,945.64	-93.62	-4,794.51	4,794.91	0.00	0.00	0.00
Bit Projection: 12550.00' MD / 7945.64' TVD - TD: X= 575857.59 / Y= 582084.84 - TD: Lat.= 32° 36' 0.053 N / Long.=104° 5' 13.236 W - Final									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Burton 4 IL Federal Com	0.00	0.00	7,945.64	-93.62	-4,794.51	582,084.84	575,857.59	32° 36' 0.053 N	104° 5' 13.236 W
- actual wellpath misses target center by 0.01usft at 12550.00usft MD (7945.64 TVD, -93.62 N, -4794.51 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
7,349.00	7,345.79	-13.45	0.56	Gyro Tie In: 7349.00' MD / 7345.79' TVD
7,374.00	7,370.77	-14.31	0.49	First Stryker MWD: 7374.00' MD / 7370.77' TVD
12,550.00	7,945.64	-93.62	-4,794.51	Bit Projection: 12550.00' MD / 7945.64' TVD
12,550.00	7,945.64	-93.62	-4,794.51	TD: X= 575857.59 / Y= 582084.84
12,550.00	7,945.64	-93.62	-4,794.51	TD: Lat.= 32° 36' 0.053 N / Long.=104° 5' 13.236 W
12,550.00	7,945.64	-93.62	-4,794.51	Final Station Closure Distance: 4795.42 / Direction: 268.88°

Checked By: _____ Approved By: _____ Date: _____