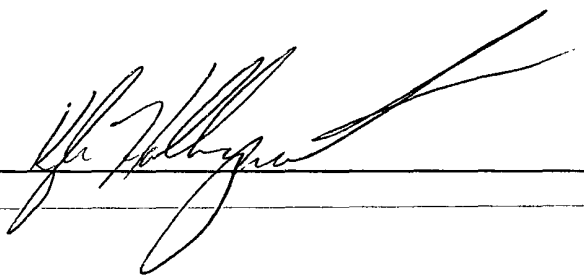


OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE TAMANO 10 FEDERAL COM 7H
COUNTY EDDY

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-39685

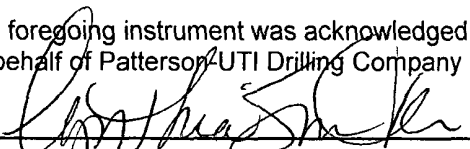
450	0.24
751	0.29
953	0.49
1,207	0.43
1,461	0.19
1,683	0.13
1,904	0.53
2,219	0.36
2,535	0.37
2,851	0.26
3,159	0.74
3,517	0.78
3,739	0.99
3,994	1.04
4,247	1.14
4,564	1.43
4,818	1.52
5,072	1.01
5,325	1.41
5,580	1.93
5,706	2.01
5,833	2.73
5,928	2.80
6,023	3.14
6,151	3.23
6,306	2.57
6,433	2.77
6,560	2.62
6,689	3.13
6,812	4.32
6,940	4.09
7,035	4.04
7,129	2.66
7,255	2.10
7,350	2.18
7,477	1.24

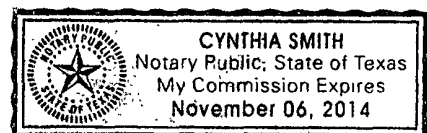
BY: 

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on February 28, 2012 by Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires: November 6, 2014





Company: Mewbourne Oil Company
Lease/Well: Tamano "10" Fed Com/7H
Location: 7.5 Miles SE Of Loco Hills
Rig Name: Patterson #46
State/County: New Mexico/Eddy
Latitude: 32.76
GRID North is 0.25 Degrees East of True North
VS-Azi: 87.79 Degrees



Depth Reference : RKB= 26 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: tamano 10 fed com #7h_ed.ut
Minimum Curvature Method
Report Date/Time: 2/10/2012 / 11:19

Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Seth Hardin
Tamano "10" Fed Com 7H / API# 30-015-39685

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.28	247.05	100.00	-0.09	-0.22	-0.22	0.24	247.05	0.28
200.00	0.17	275.67	200.00	-0.17	-0.59	-0.60	0.62	253.81	0.15
300.00	0.30	302.32	300.00	-0.02	-0.97	-0.97	0.97	268.96	0.16
400.00	0.24	314.92	400.00	0.27	-1.34	-1.33	1.36	281.49	0.08
500.00	0.40	290.54	500.00	0.54	-1.82	-1.79	1.90	286.69	0.21
600.00	0.46	295.85	599.99	0.84	-2.51	-2.47	2.65	288.59	0.07
700.00	0.51	272.17	699.99	1.04	-3.32	-3.28	3.48	287.34	0.21
800.00	0.26	252.31	799.99	0.98	-3.99	-3.94	4.10	283.86	0.28
900.00	0.28	248.65	899.99	0.82	-4.43	-4.40	4.51	280.53	0.03
1000.00	0.54	234.53	999.98	0.46	-5.05	-5.02	5.07	275.23	0.27
1100.00	0.41	216.91	1099.98	-0.10	-5.64	-5.64	5.65	268.99	0.19
1200.00	0.44	193.97	1199.98	-0.76	-5.96	-5.98	6.00	262.69	0.17
1300.00	0.24	167.38	1299.97	-1.35	-6.00	-6.05	6.15	257.37	0.25
1400.00	0.17	145.99	1399.97	-1.67	-5.87	-5.93	6.11	254.11	0.11
1500.00	0.12	123.54	1499.97	-1.85	-5.70	-5.77	6.00	252.01	0.07
1600.00	0.14	109.83	1599.97	-1.95	-5.50	-5.57	5.84	250.48	0.04
1700.00	0.37	83.48	1699.97	-1.96	-5.07	-5.14	5.44	248.91	0.25
1800.00	0.43	70.15	1799.97	-1.79	-4.40	-4.47	4.75	247.84	0.11

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
1900.00	0.50	74.77	1899.97	-1.55	-3.62	-3.68	3.94	246.86	0.08
2000.00	0.84	65.23	1999.96	-1.13	-2.54	-2.58	2.78	246.04	0.35
2100.00	0.40	41.19	2099.95	-0.56	-1.65	-1.67	1.74	251.20	0.50
2200.00	0.19	358.41	2199.95	-0.13	-1.42	-1.43	1.43	264.82	0.29
2300.00	0.18	291.78	2299.95	0.10	-1.57	-1.57	1.58	273.59	0.21
2400.00	0.14	266.81	2399.95	0.15	-1.84	-1.84	1.85	274.63	0.08
2500.00	0.10	211.23	2499.95	0.07	-2.02	-2.01	2.02	271.87	0.12
2600.00	0.29	307.23	2599.95	0.14	-2.26	-2.25	2.27	273.57	0.32
2700.00	0.29	319.08	2699.95	0.48	-2.63	-2.61	2.67	280.44	0.06
2800.00	0.41	309.51	2799.95	0.90	-3.07	-3.03	3.20	286.37	0.13
2900.00	0.47	310.52	2899.95	1.40	-3.66	-3.60	3.91	290.90	0.07
3000.00	0.63	300.85	2999.94	1.95	-4.44	-4.36	4.85	293.66	0.18
3100.00	0.84	307.26	3099.93	2.67	-5.50	-5.39	6.11	295.92	0.22
3200.00	0.92	306.91	3199.92	3.60	-6.72	-6.58	7.62	298.15	0.09
3300.00	0.77	302.63	3299.91	4.44	-7.93	-7.76	9.09	299.26	0.16
3400.00	1.19	300.58	3399.89	5.34	-9.40	-9.19	10.81	299.59	0.42
3500.00	1.19	298.70	3499.87	6.37	-11.21	-10.95	12.89	299.60	0.04
3600.00	1.26	304.43	3599.85	7.48	-13.02	-12.72	15.02	299.89	0.14
3700.00	1.40	306.36	3699.82	8.83	-14.90	-14.55	17.32	300.63	0.15
3800.00	1.46	307.54	3799.79	10.32	-16.90	-16.49	19.80	301.43	0.07
3900.00	1.47	306.32	3899.76	11.86	-18.94	-18.47	22.35	302.06	0.03
4000.00	1.57	306.20	3999.72	13.43	-21.08	-20.55	24.99	302.50	0.09
4100.00	1.55	316.42	4099.69	15.22	-23.11	-22.51	27.67	303.36	0.28
4200.00	1.26	313.78	4199.66	16.96	-24.84	-24.17	30.08	304.32	0.29
4300.00	1.30	308.71	4299.63	18.43	-26.52	-25.79	32.29	304.79	0.12
4400.00	1.35	312.72	4399.61	19.93	-28.27	-27.48	34.59	305.19	0.10
4500.00	1.51	311.09	4499.57	21.60	-30.13	-29.27	37.07	305.64	0.17
4600.00	1.54	319.29	4599.54	23.49	-32.00	-31.07	39.69	306.28	0.22
4700.00	1.50	314.09	4699.50	25.42	-33.82	-32.81	42.30	306.93	0.14
4800.00	1.55	313.39	4799.47	27.26	-35.74	-34.66	44.95	307.33	0.06
4900.00	1.50	320.23	4899.43	29.19	-37.56	-36.41	47.57	307.86	0.19
5000.00	1.57	303.35	4999.40	30.95	-39.54	-38.32	50.21	308.05	0.46
5100.00	1.48	298.28	5099.36	32.31	-41.82	-40.54	52.85	307.69	0.16
5200.00	1.55	296.69	5199.33	33.53	-44.16	-42.84	55.45	307.21	0.09
5300.00	1.75	272.55	5299.29	34.21	-46.90	-45.54	58.05	306.11	0.72
5400.00	1.71	274.08	5399.24	34.38	-49.92	-48.55	60.61	304.56	0.06
5500.00	2.07	266.75	5499.19	34.39	-53.21	-51.84	63.35	302.87	0.43
5600.00	2.11	264.34	5599.12	34.10	-56.84	-55.49	66.29	300.96	0.10
5700.00	2.43	260.93	5699.04	33.59	-60.77	-59.43	69.44	298.93	0.35

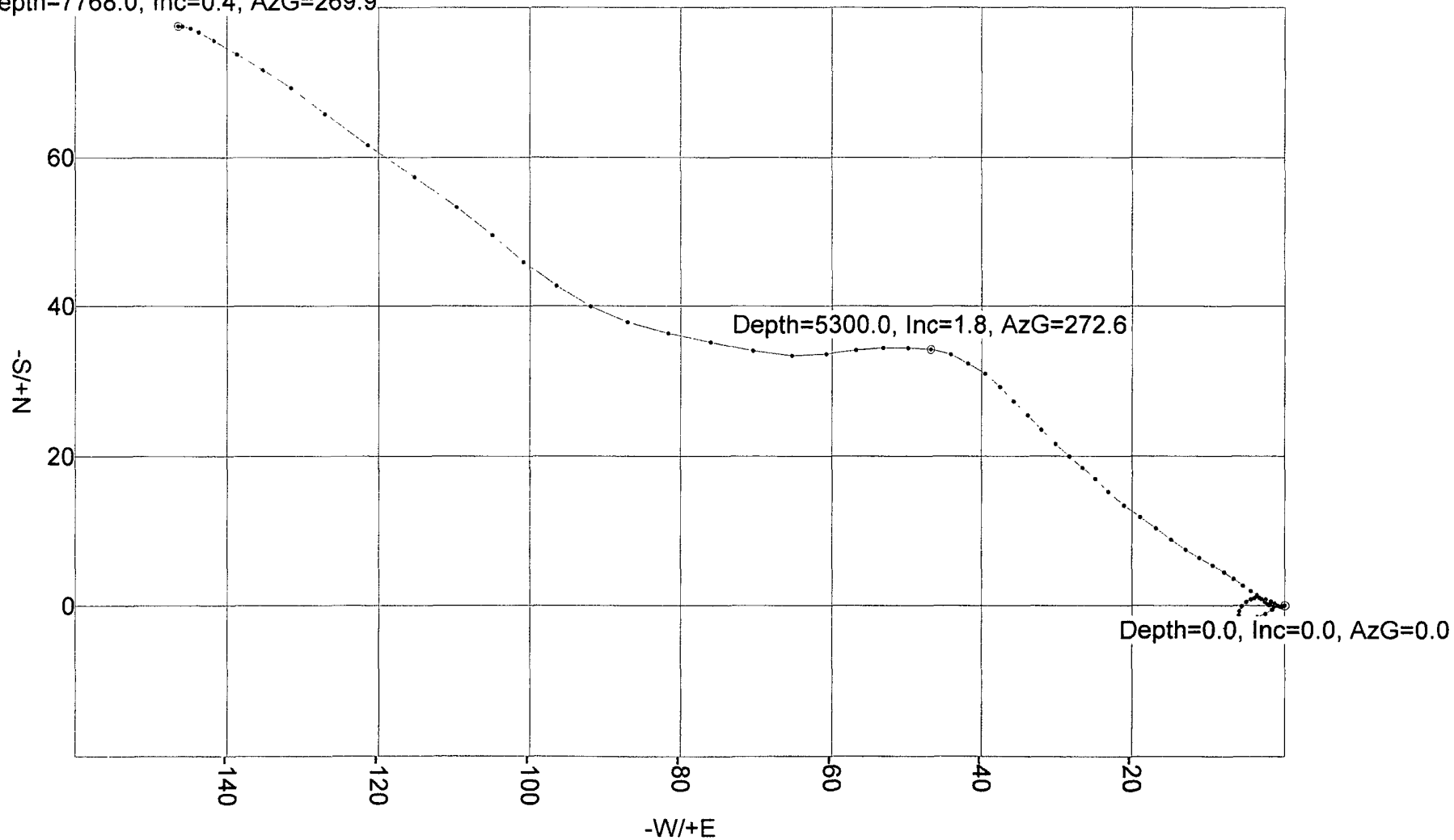
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	2.76	272.59	5798.94	33.36	-65.27	-63.94	73.31	297.07	0.62
5900.00	3.19	281.35	5898.81	34.02	-70.40	-69.04	78.19	295.79	0.62
6000.00	3.38	280.98	5998.64	35.13	-76.02	-74.61	83.75	294.80	0.19
6100.00	3.23	283.32	6098.48	36.34	-81.66	-80.20	89.38	293.99	0.20
6200.00	3.21	287.35	6198.32	37.82	-87.07	-85.55	94.93	293.48	0.23
6300.00	2.95	299.41	6298.17	39.92	-91.98	-90.37	100.27	293.46	0.70
6400.00	3.16	302.11	6398.03	42.64	-96.55	-94.84	105.55	293.83	0.26
6500.00	3.02	311.54	6497.89	45.85	-100.86	-99.01	110.79	294.45	0.53
6600.00	3.28	311.64	6597.74	49.50	-104.97	-102.98	116.05	295.25	0.26
6700.00	3.69	305.97	6697.55	53.29	-109.71	-107.57	121.97	295.91	0.54
6800.00	4.22	305.82	6797.31	57.34	-115.30	-113.00	128.77	296.44	0.53
6900.00	4.33	304.22	6897.03	61.61	-121.41	-118.94	136.15	296.91	0.16
7000.00	3.84	309.09	6996.78	65.85	-127.13	-124.50	143.17	297.38	0.60
7100.00	2.69	305.01	7096.62	69.31	-131.65	-128.88	148.78	297.76	1.17
7200.00	2.35	300.51	7196.52	71.70	-135.34	-132.47	153.16	297.91	0.40
7300.00	2.16	303.53	7296.44	73.78	-138.68	-135.73	157.08	298.01	0.22
7400.00	1.97	299.01	7396.38	75.65	-141.75	-138.73	160.68	298.09	0.26
7500.00	0.63	302.08	7496.35	76.78	-143.72	-140.65	162.95	298.11	1.33
7600.00	0.75	289.03	7596.34	77.29	-144.81	-141.72	164.15	298.09	0.20
7700.00	0.53	277.47	7696.34	77.56	-145.89	-142.79	165.23	298.00	0.26
7768.00	0.38	269.87	7764.33	77.60	-146.42	-143.32	165.72	297.92	0.24



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Seth Hardin
Tamano "10" Fed Com 7H / API# 30-015-39685



Depth=7768.0, Inc=0.4, AzG=269.9



VES Survey Date: 02/02/2012

Mewbourne Oil Co

Eddy County, New Mexico

Sec 10, T18S, R31E

Tamano 10 Fed Com #7H

Wellbore #1

Survey: MWD

DDC Survey Report

15 February, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #7H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Site:	Sec.10, T18S, R31E	MD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Well:	Tamano 10 Fed Com #7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000 1 Single User Db

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:	Sec 10, T18S, R31E
Site Position:	Northing: 641,725.21 usft Latitude: 32° 45' 47.938 N
From: Map	Easting: 644,281.10 usft Longitude: 103° 51' 50.309 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 " Grid Convergence: 0.25 °

Well:	Tamano 10 Fed Com #7H
Well Position	+N/-S 0.0 usft Northing: 641,725.21 usft Latitude: 32° 45' 47.938 N
	+E/-W 0.0 usft Easting: 644,281.10 usft Longitude: 103° 51' 50.309 W
Position Uncertainty	0.0 usft Wellhead Elevation: usft Ground Level: 3,714.0 usft

Wellbore:	Wellbore #1
Magnetics	Model Name Sample Date Declination Dip Angle Field Strength
	IGRF2010 1/18/2012 (°) (°) (nT)
	7.69 60.62 48,847

Design:	Wellbore #1
Audit Notes:	
Version: 1.0	Phase: ACTUAL Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) +N/-S +E/-W Direction
	(usft) (usft) (usft) (°)
	0.0 0.0 0.0 87.79

Survey Program	Date: 2/15/2012
From To	Survey (Wellbore) Tool Name Description
(usft) (usft)	
100.0 7,768.0	GYRO (Wellbore #1) Good_gyro Good Gyro
7,842.0 12,851.0	MWD (Wellbore #1) MWD default MWD - Standard

Survey:	
Measured Depth Inclination Azimuth Vertical Depth +N/-S +E/-W Vertical Section Dogleg Rate Build Rate Turn Rate	
(usft) (°) (°) (usft) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft)	
Tie In @ 7768' MD / 7764' TVD	
7,768.0 0.38 269.87 7,764.3 77.6 -146.4 -143.3 0.00 0.00 0.00	
7,842.0 0.10 0.30 7,838.3 77.7 -146.6 -143.5 0.53 -0.38 122.20	
7,873.0 0.20 12.40 7,869.3 77.8 -146.6 -143.5 0.34 0.32 39.03	
7,904.0 0.10 72.30 7,900.3 77.8 -146.6 -143.5 0.56 -0.32 193.23	
7,936.0 2.00 78.30 7,932.3 77.9 -146.0 -142.9 5.94 5.94 18.75	
7,968.0 5.30 80.00 7,964.3 78.3 -144.0 -140.9 10.32 10.31 5.31	
7,999.0 9.20 79.50 7,995.0 79.0 -140.1 -137.0 12.58 12.58 -1.61	
8,031.0 12.20 83.40 8,026.4 79.9 -134.3 -131.1 9.64 9.38 12.19	
8,063.0 14.30 88.30 8,057.6 80.4 -127.0 -123.8 7.44 6.56 15.31	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #7H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Site:	Sec 10, T18S, R31E	MD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Well:	Tamano 10 Fed Com #7H	North Reference:	Grid
Wellbore:	Wellbore #1:	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
Crossed Hard Line @ 8070' MD / 8064' TVD									
8,070.0	14.98	88.63	8,064.4	80.4	-125.2	-122.0	9.75	9.68	4.70
8,095.0	17.40	89.60	8,088.4	80.5	-118.2	-115.0	9.75	9.69	3.88
8,126.0	21.40	89.70	8,117.6	80.6	-107.9	-104.7	12.90	12.90	0.32
8,158.0	24.90	90.00	8,147.0	80.6	-95.4	-92.2	10.94	10.94	0.94
8,190.0	27.90	89.10	8,175.7	80.7	-81.1	-78.0	9.46	9.38	-2.81
8,222.0	31.40	87.60	8,203.5	81.2	-65.3	-62.1	11.18	10.94	-4.69
8,253.0	35.30	86.30	8,229.4	82.1	-48.3	-45.1	12.79	12.58	-4.19
8,285.0	38.80	85.80	8,254.9	83.4	-29.1	-25.8	10.98	10.94	-1.56
8,317.0	41.70	86.90	8,279.3	84.8	-8.4	-5.2	9.33	9.06	3.44
8,349.0	45.00	88.50	8,302.6	85.6	13.5	16.8	10.87	10.31	5.00
8,380.0	48.50	89.20	8,323.8	86.1	36.1	39.4	11.41	11.29	2.26
8,412.0	52.40	88.60	8,344.2	86.5	60.8	64.0	12.27	12.19	-1.88
8,443.0	56.10	88.10	8,362.3	87.3	85.9	89.2	12.01	11.94	-1.61
8,475.0	59.90	88.50	8,379.3	88.1	113.0	116.3	11.92	11.88	1.25
8,506.0	63.70	89.30	8,393.9	88.6	140.3	143.6	12.47	12.26	2.58
8,538.0	69.10	89.70	8,406.7	88.9	169.6	172.9	16.91	16.88	1.25
8,570.0	73.80	90.10	8,416.9	88.9	200.0	203.2	14.74	14.69	1.25
8,601.0	77.20	90.40	8,424.7	88.8	230.0	233.2	11.01	10.97	0.97
8,633.0	81.30	90.60	8,430.6	88.5	261.4	264.6	12.83	12.81	0.63
8,665.0	85.30	90.10	8,434.4	88.3	293.2	296.4	12.60	12.50	-1.56
8,737.0	88.00	88.00	8,438.6	89.5	365.0	368.2	4.75	3.75	-2.92
8,768.0	87.90	90.20	8,439.7	90.0	396.0	399.2	7.10	-0.32	7.10
8,800.0	89.00	90.50	8,440.5	89.8	428.0	431.1	3.56	3.44	0.94
8,831.0	90.30	90.40	8,440.7	89.5	459.0	462.1	4.21	4.19	-0.32
8,863.0	90.60	90.50	8,440.5	89.3	491.0	494.1	0.99	0.94	0.31
8,895.0	90.90	90.60	8,440.1	89.0	523.0	526.0	0.99	0.94	0.31
8,927.0	91.20	91.50	8,439.5	88.4	555.0	558.0	2.96	0.94	2.81
8,959.0	90.70	91.70	8,439.0	87.5	587.0	589.9	1.68	-1.56	0.63
8,990.0	91.60	93.80	8,438.3	86.0	617.9	620.8	7.37	2.90	6.77
9,022.0	90.70	92.80	8,437.7	84.2	649.9	652.6	4.20	-2.81	-3.13
9,054.0	88.90	91.30	8,437.8	83.0	681.8	684.5	7.32	-5.63	-4.69
9,085.0	87.70	89.50	8,438.7	82.8	712.8	715.5	6.98	-3.87	-5.81
9,117.0	87.80	89.90	8,440.0	83.0	744.8	747.4	1.29	0.31	1.25
9,149.0	87.80	89.90	8,441.2	83.0	776.8	779.4	0.00	0.00	0.00
9,180.0	88.30	88.90	8,442.3	83.4	807.7	810.4	3.60	1.61	-3.23
9,212.0	88.20	88.40	8,443.2	84.1	839.7	842.3	1.59	-0.31	-1.56
9,244.0	89.60	88.00	8,443.8	85.1	871.7	874.3	4.55	4.38	-1.25
9,276.0	89.80	88.00	8,444.0	86.2	903.7	906.3	0.63	0.63	0.00
9,307.0	89.60	87.50	8,444.2	87.5	934.7	937.3	1.74	-0.65	-1.61
9,339.0	89.40	87.20	8,444.5	88.9	966.6	969.3	1.13	-0.63	-0.94
9,371.0	90.70	87.00	8,444.4	90.6	998.6	1,001.3	4.11	4.06	-0.63
9,403.0	90.90	86.80	8,444.0	92.3	1,030.5	1,033.3	0.88	0.63	-0.63

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #7H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Site:	Sec 10, T18S, R31E	MD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Well:	Tamano 10 Fed Com #7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)	
9,466.0	90.40	86.50	8,443.3	96.0	1,093.4	1,096.3	0.93	-0.79	-0.48	
9,530.0	91.60	89.90	8,442.2	98.0	1,157.4	1,160.3	5.63	1.88	5.31	
9,593.0	91.20	90.10	8,440.6	98.0	1,220.3	1,223.2	0.71	-0.63	0.32	
9,657.0	91.50	90.10	8,439.1	97.9	1,284.3	1,287.1	0.47	0.47	0.00	
9,721.0	91.00	89.00	8,437.7	98.4	1,348.3	1,351.1	1.89	-0.78	-1.72	
9,784.0	89.70	89.60	8,437.3	99.1	1,411.3	1,414.1	2.27	-2.06	0.95	
9,847.0	89.60	90.30	8,437.7	99.2	1,474.3	1,477.0	1.12	-0.16	1.11	
9,911.0	89.70	90.50	8,438.1	98.7	1,538.3	1,541.0	0.35	0.16	0.31	
9,974.0	88.70	89.20	8,439.0	98.9	1,601.3	1,603.9	2.60	-1.59	-2.06	
10,038.0	88.30	88.90	8,440.7	100.0	1,665.3	1,667.9	0.78	-0.63	-0.47	
10,101.0	89.50	88.90	8,441.9	101.2	1,728.2	1,730.9	1.90	1.90	0.00	
10,165.0	89.90	89.00	8,442.2	102.4	1,792.2	1,794.8	0.64	0.63	0.16	
10,228.0	90.10	89.10	8,442.2	103.4	1,855.2	1,857.8	0.35	0.32	0.16	
10,291.0	90.20	89.00	8,442.0	104.4	1,918.2	1,920.8	0.22	0.16	-0.16	
10,355.0	90.80	89.00	8,441.5	105.6	1,982.2	1,984.8	0.94	0.94	0.00	
10,419.0	89.80	89.30	8,441.1	106.5	2,046.2	2,048.8	1.63	-1.56	0.47	
10,482.0	89.90	89.40	8,441.3	107.2	2,109.2	2,111.7	0.22	0.16	0.16	
10,546.0	88.80	88.70	8,442.0	108.3	2,173.2	2,175.7	2.04	-1.72	-1.09	
10,610.0	88.90	88.60	8,443.3	109.8	2,237.1	2,239.7	0.22	0.16	-0.16	
10,674.0	89.10	88.30	8,444.4	111.5	2,301.1	2,303.7	0.56	0.31	-0.47	
10,737.0	88.90	88.00	8,445.5	113.6	2,364.1	2,366.7	0.57	-0.32	-0.48	
10,801.0	90.00	87.90	8,446.1	115.8	2,428.0	2,430.7	1.73	1.72	-0.16	
10,864.0	90.60	88.60	8,445.8	117.8	2,491.0	2,493.7	1.46	0.95	1.11	
10,928.0	90.80	86.80	8,445.0	120.3	2,554.9	2,557.7	2.83	0.31	-2.81	
10,991.0	89.90	87.00	8,444.7	123.7	2,617.8	2,620.7	1.46	-1.43	0.32	
11,055.0	90.20	87.20	8,444.6	127.0	2,681.7	2,684.6	0.56	0.47	0.31	
11,118.0	89.30	87.80	8,444.9	129.7	2,744.7	2,747.6	1.72	-1.43	0.95	
11,182.0	89.30	88.70	8,445.7	131.7	2,808.7	2,811.6	1.41	0.00	1.41	
11,245.0	90.20	89.40	8,445.9	132.7	2,871.6	2,874.6	1.81	1.43	1.11	
11,308.0	88.90	88.70	8,446.4	133.8	2,934.6	2,937.6	2.34	-2.06	-1.11	
11,372.0	89.00	89.50	8,447.6	134.8	2,998.6	3,001.6	1.26	0.16	1.25	
11,435.0	89.60	90.20	8,448.4	134.9	3,061.6	3,064.5	1.46	0.95	1.11	
11,499.0	89.60	89.90	8,448.8	134.9	3,125.6	3,128.5	0.47	0.00	-0.47	
11,562.0	89.80	89.60	8,449.1	135.2	3,188.6	3,191.4	0.57	0.32	-0.48	
11,626.0	90.10	89.20	8,449.2	135.8	3,252.6	3,255.4	0.78	0.47	-0.63	
11,690.0	90.50	88.90	8,448.9	136.9	3,316.6	3,319.4	0.78	0.63	-0.47	
11,753.0	89.30	88.50	8,449.0	138.3	3,379.6	3,382.4	2.01	-1.90	-0.63	
11,817.0	89.00	87.70	8,449.9	140.4	3,443.5	3,446.4	1.33	-0.47	-1.25	
11,880.0	89.40	87.70	8,450.8	143.0	3,506.5	3,509.4	0.63	0.63	0.00	
11,944.0	90.00	87.40	8,451.1	145.7	3,570.4	3,573.4	1.05	0.94	-0.47	
12,007.0	90.30	87.10	8,451.0	148.7	3,633.3	3,636.4	0.67	0.48	-0.48	
12,070.0	90.40	87.20	8,450.6	151.9	3,696.3	3,699.4	0.22	0.16	0.16	
12,134.0	90.50	86.20	8,450.1	155.5	3,760.1	3,763.3	1.57	0.16	-1.56	
12,197.0	91.40	89.70	8,449.0	157.8	3,823.1	3,826.3	5.74	1.43	5.56	

DDC Survey Report



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Site:	Sec 10, T18S, R31E	MD Reference:	WELL @ 3734.0usft (Patterson UTI #47)
Well:	Tamano 10 Fed Com #7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User.Db

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)	
12,229.0	91.30	87.90	8,448.3	158.5	3,855.1	3,858.3	5.63	-0.31	-5.63	
12,261.0	89.20	86.80	8,448.1	160.0	3,887.0	3,890.3	7.41	-6.56	-3.44	
12,293.0	89.10	86.90	8,448.6	161.7	3,919.0	3,922.3	0.44	-0.31	0.31	
12,325.0	89.20	86.90	8,449.1	163.4	3,950.9	3,954.3	0.31	0.31	0.00	
12,388.0	89.70	86.20	8,449.7	167.2	4,013.8	4,017.3	1.37	0.79	-1.11	
12,450.0	89.30	87.00	8,450.2	170.9	4,075.7	4,079.3	1.44	-0.65	1.29	
12,513.0	89.20	86.50	8,451.1	174.5	4,138.6	4,142.2	0.81	-0.16	-0.79	
12,577.0	89.60	86.40	8,451.7	178.4	4,202.5	4,206.2	0.64	0.63	-0.16	
12,641.0	89.70	86.10	8,452.1	182.6	4,266.3	4,270.2	0.49	0.16	-0.47	
12,705.0	89.60	85.70	8,452.5	187.2	4,330.2	4,334.2	0.64	-0.16	-0.63	
12,768.0	90.00	85.10	8,452.7	192.3	4,393.0	4,397.1	1.14	0.63	-0.95	
12,800.0	90.00	85.10	8,452.7	195.0	4,424.8	4,429.1	0.00	0.00	0.00	
TD @ 12851' MD / 8553' TVD										
12,851.0	89.80	85.10	8,452.8	199.3	4,475.7	4,480.0	0.39	-0.39	0.00	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,768.0	7,764.3	77.6	-146.4	Tie In @ 7768' MD / 7764' TVD	
8,070.0	8,064.4	80.4	-125.2	Crossed Hard Line @ 8070' MD / 8064' TVD	
12,851.0	8,452.8	199.3	4,475.7	TD @ 12851' MD / 8553' TVD	

Checked By: _____ Approved By: _____ Date: _____