

MOCGyro & Maximun
Departure

Well Name:

Colt 4 Federal Com #1
1650' FN & WL. Sec. 4 T-20S R-29E

Measured Depth (feet)	Course Length (100 ft)	Inclination (degrees)	Displacement per 100 ft (sine x 100)	Course Displacement (feet)	Accumulative Displacement (feet)
10555	10555.00	7.17	12.481	101.53	101.53
10644	0.89	5.50	9.585	8.53	110.06
10738	0.94	3.75	6.540	6.15	116.21
10833	0.95	2.25	3.926	3.73	119.94
10929	0.96	1.75	3.054	2.93	122.87
10945	0.16	1.50	2.618	0.42	123.29
11038	0.93	2.00	3.490	3.25	126.53
11131	0.93	1.50	2.618	2.43	128.97
11258	1.27	1.00	1.745	2.22	131.18
11353	0.95	1.50	2.618	2.49	133.67
11478	1.25	1.50	2.618	3.27	136.94
11750	2.72	2.00	3.490	9.49	146.44

See attached Gyro Survey

30-015-33178

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JUL 21 2004

OOP-ARTESIA

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JUL 21 2004

OCB-ARTESIA

SCIENTIFIC DRILLING CONTROLS

Inrun Survey
for
MEWBOURNE

Page 1

Well No.: COLT 4 FED COM #1
Job No.: 32K0504340

Date: 29-MAY-2004

Proposal: 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	-0.06	0.40	100.06	-0.06	0.34	0.40
200.00	199.99	0.33	0.99	58.49	0.33	1.42	0.74
300.00	299.98	1.33	1.06	53.90	1.33	2.91	0.11
400.00	399.96	2.58	1.01	36.30	2.58	4.18	0.32
500.00	499.94	4.11	1.13	34.36	4.11	5.25	0.13
600.00	599.92	5.82	1.36	40.92	5.82	6.59	0.27
700.00	699.88	7.78	1.65	42.38	7.78	8.34	0.29
800.00	799.84	9.80	1.86	53.84	9.80	10.62	0.41
900.00	899.78	11.57	1.79	58.57	11.57	13.26	0.17
1000.00	999.74	13.33	1.79	52.89	13.33	15.84	0.18
1100.00	1099.69	15.15	1.73	54.18	15.15	18.31	0.07
1200.00	1199.65	16.85	1.65	55.47	16.85	20.72	0.09
1300.00	1299.61	18.30	1.31	56.11	18.30	22.85	0.34
1400.00	1399.58	19.53	1.45	62.53	19.53	24.93	0.21
1500.00	1499.56	20.55	1.10	63.00	20.55	26.90	0.35
1600.00	1599.54	21.43	0.95	57.61	21.43	28.46	0.18
1700.00	1699.53	22.53	1.00	41.01	22.53	29.73	0.29
1800.00	1799.51	23.85	0.98	39.06	23.85	30.84	0.04
1900.00	1899.50	24.89	0.59	42.63	24.89	31.73	0.39
2000.00	1999.50	25.55	0.35	24.52	25.55	32.20	0.23
2100.00	2099.50	26.13	0.41	33.54	26.13	32.53	0.05
2200.00	2199.49	26.59	0.88	77.87	26.59	33.48	0.65
2300.00	2299.48	26.94	0.84	74.87	26.94	34.94	0.06
2400.00	2399.47	27.18	0.73	85.64	27.18	36.28	0.18
2500.00	2499.46	27.20	0.55	93.33	27.20	37.39	0.20
2600.00	2599.46	27.20	0.57	86.15	27.20	38.37	0.07
2700.00	2699.45	27.27	0.37	83.31	27.27	39.19	0.20
2800.00	2799.45	27.51	0.45	59.81	27.51	39.85	0.18
2900.00	2899.45	27.68	0.64	92.60	27.68	40.74	0.36
3000.00	2999.44	27.70	0.60	85.87	27.70	41.82	0.08
3100.00	3099.44	27.70	0.52	94.45	27.70	42.80	0.12
3200.00	3199.43	27.65	0.47	91.43	27.65	43.66	0.06
3300.00	3299.43	27.71	0.47	79.69	27.71	44.47	0.10
3400.00	3399.42	27.83	0.77	86.06	27.83	45.55	0.31
3500.00	3499.41	28.12	0.74	68.48	28.12	46.82	0.23
3600.00	3599.40	28.57	0.98	75.75	28.57	48.25	0.26
3700.00	3699.39	29.04	0.89	69.76	29.04	49.81	0.13
3800.00	3799.38	29.57	0.87	69.93	29.57	51.25	0.02
3900.00	3899.37	30.01	0.96	77.77	30.01	52.78	0.15

SCIENTIFIC DRILLING CONTROLS

Inrun Survey
for
MEWBOURNE

Page 2

Well No.: COLT 4 FED COM #1
Job No.: 32K0504340

Date: 29-MAY-2004

Proposal: 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
4000.00	3999.34	30.34	0.58	72.39	30.34	54.08	0.39
4100.00	4099.35	30.63	0.35	63.27	30.63	54.84	0.26
4200.00	4199.35	31.03	0.31	17.90	31.03	55.19	0.26
4300.00	4299.35	31.43	0.21	37.79	31.43	55.39	0.13
4400.00	4399.35	31.68	0.13	342.81	31.68	55.47	0.17
4500.00	4499.35	32.11	0.37	12.63	32.11	55.50	0.27
4600.00	4599.35	32.82	0.46	351.13	32.82	55.51	0.18
4700.00	4699.34	33.45	0.39	313.99	33.45	55.20	0.28
4800.00	4799.34	34.02	0.40	340.63	34.02	54.84	0.18
4900.00	4899.33	34.95	0.94	316.91	34.95	54.17	0.60
5000.00	4999.32	36.02	0.56	345.10	36.02	53.48	0.52
5100.00	5099.32	36.94	0.59	331.88	36.94	53.11	0.14
5200.00	5199.31	37.94	0.66	341.08	37.94	52.68	0.12
5300.00	5299.31	39.02	0.74	325.27	39.02	52.13	0.21
5400.00	5399.29	40.48	1.30	325.70	40.48	51.12	0.56
5500.00	5499.26	42.45	1.54	319.99	42.45	49.62	0.28
5600.00	5599.22	44.55	1.65	318.20	44.55	47.80	0.12
5700.00	5699.18	46.57	1.47	317.55	46.57	45.97	0.18
5800.00	5799.15	48.37	1.43	312.79	48.37	44.19	0.13
5900.00	5899.12	50.16	1.56	313.94	50.16	42.29	0.13
6000.00	5999.08	51.93	1.40	312.59	51.93	40.41	0.16
6100.00	6099.05	53.60	1.56	308.31	53.60	38.45	0.19
6200.00	6199.01	55.34	1.61	309.66	55.34	36.30	0.06
6300.00	6298.97	57.16	1.55	313.03	57.16	34.23	0.11
6400.00	6398.94	58.97	1.52	312.11	58.97	32.25	0.04
6500.00	6498.90	60.89	1.73	312.68	60.89	30.16	0.21
6600.00	6598.85	63.15	1.69	327.00	63.15	28.25	0.43
6700.00	6698.82	65.28	1.27	324.21	65.28	26.80	0.43
6800.00	6798.80	66.79	1.12	308.56	66.79	25.38	0.36
6900.00	6898.78	67.81	1.06	296.09	67.81	23.79	0.24
7000.00	6998.76	68.39	0.97	281.85	68.39	22.13	0.27
7100.00	7098.74	68.80	1.18	283.20	68.80	20.30	0.21
7200.00	7198.72	69.17	1.14	278.32	69.17	18.31	0.11
7300.00	7298.70	69.05	1.13	254.37	69.05	16.38	0.67
7400.00	7398.68	68.26	1.21	239.80	68.26	14.52	0.31
7500.00	7498.66	67.34	0.95	242.02	67.34	12.87	0.26
7600.00	7598.65	66.46	0.73	219.99	66.46	11.73	0.39
7700.00	7698.65	65.58	0.62	223.44	65.58	10.95	0.12
7800.00	7798.64	64.94	0.39	222.95	64.94	10.35	0.23
7900.00	7898.64	64.78	0.42	284.06	64.78	9.76	0.41

SCIENTIFIC DRILLING CONTROLS

Inrun Survey
for
MEWBOURNE

Page 3

Well No.: COLT 4 FED COM #1

Date : 29-MAY-2004

Job No. : 32K0504340

Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
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8000.00	7998.64	64.92	0.38	279.40	64.92	9.07	0.05
8100.00	8098.64	64.72	0.32	205.80	64.72	8.63	0.42
8200.00	8198.64	64.41	0.23	253.57	64.41	8.31	0.24
8300.00	8298.63	64.22	0.67	256.16	64.22	7.55	0.44
8400.00	8398.62	63.74	0.82	241.66	63.74	6.35	0.24

8500.00	8498.61	62.95	0.84	232.77	62.95	5.14	0.13
8600.00	8598.60	61.97	0.93	228.44	61.97	3.95	0.11
8700.00	8698.59	60.84	0.93	223.07	60.84	2.79	0.09
8800.00	8798.57	59.62	0.98	222.74	59.62	1.65	0.05
8900.00	8898.56	58.55	0.79	230.60	58.55	0.54	0.23

9000.00	8998.56	58.10	0.43	266.85	58.10	-0.37	0.51
9100.00	9098.55	58.26	0.46	297.11	58.26	-1.10	0.23
9200.00	9198.55	58.52	0.39	283.83	58.52	-1.79	0.12
9300.00	9298.55	58.74	0.64	284.22	58.74	-2.66	0.25
9400.00	9398.53	59.41	1.38	296.33	59.41	-4.28	0.77

9500.00	9498.50	60.07	1.23	276.58	60.07	-6.42	0.47
9600.00	9598.48	60.42	1.01	285.22	60.42	-8.34	0.28
9700.00	9698.47	60.71	0.70	274.83	60.71	-9.80	0.35
9800.00	9798.47	60.79	0.38	275.29	60.79	-10.74	0.32
9900.00	9898.46	61.41	0.68	6.57	61.41	-11.00	0.79

10000.00	9998.44	63.46	1.68	6.00	63.46	-10.78	1.00
10100.00	10098.42	65.14	0.82	71.52	65.14	-9.95	1.53
10200.00	10198.39	67.41	2.34	0.68	67.41	-9.24	2.21
10300.00	10298.16	73.97	5.25	9.29	73.97	-8.48	2.96
10400.00	10397.61	84.09	6.69	15.62	84.09	-6.17	1.58

10500.00	10496.94	95.22	6.60	16.16	95.22	-3.01	0.11
10555.00	10551.55	101.52	7.17	18.09	101.52	-1.06	1.12

The Horizontal Displacement (in Feet) at
Measured Depth 10555.00 is 101.53 in a Direction of 359.40 Degrees

COMPUTALOG

Drilling Services

Client : Mewbourne Oil Co.
Well : Colt 4 Federal # 1
Location :
License :

Page: 1
Date : 6/1/2004
File : 51129

UWI #:

Vertical Section Calculated Along Azimuth 0.00°

KB Elevation = 3333.00ft GR. Elevation = 3316.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
survey 0 is a tie in survey from gyro										
0	10555.00	7.17	18.09	10551.55	101.52	-1.06	101.52	0.00	0.00	0.00
1	10644.00	5.50	19.30	10640.00	110.83	2.07	110.83	1.88	-1.88	1.36
2	10738.00	3.70	25.80	10733.70	117.81	4.88	117.81	1.99	-1.91	6.91
3	10833.00	2.30	23.60	10828.56	122.32	6.98	122.32	1.48	-1.47	-2.32

Bottom Hole Closure 122.51ft Along Azimuth 3.27°