

S C I E N T I F I C D R I L L I N G C O N T R O L S

KEEPER GYRO SURVEY

Directional Survey Report

for

MANZANO OIL CORP.

Well Number	:	RUM POINT STATE NO.1
Well Location	:	LEA COUNTY, NEW MEXICO
Job Number	:	32K1101596
Location Latitude	:	33.140
Survey Date	:	6-NOV-2001
S.D.C. Personnel	:	ANGEL GUEBARA
Length Units	:	Feet
North Reference	:	TRUE North
Grid Correction	:	0.00 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	0.00
Calculation Method	:	Minimum Curvature

Remarks : The INRUN Survey will be called definitive

S C I E N T I F I C D R I L L I N G C O N T R O L S

Inrun Survey
for
MANZANO OIL CORP.

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Well No.: RUM POINT STATE NO.1

Date : 6-NOV-2001

Job No. : 32K1101596

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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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	-0.08	0.17	237.24	-0.08	-0.12	0.17
200.00	200.00	-0.01	0.52	289.70	-0.01	-0.68	0.44
300.00	299.99	0.26	0.37	290.51	0.26	-1.40	0.15
400.00	399.99	0.67	0.52	311.50	0.67	-2.04	0.22
500.00	499.99	1.09	0.44	288.73	1.09	-2.74	0.20
600.00	599.99	1.29	0.26	289.88	1.29	-3.31	0.18
700.00	699.99	1.56	0.23	350.78	1.56	-3.56	0.25
800.00	799.98	1.86	0.31	67.82	1.86	-3.34	0.34
900.00	899.98	2.09	0.38	66.29	2.09	-2.79	0.07
1000.00	999.98	2.49	0.43	44.67	2.49	-2.23	0.16
1100.00	1099.98	3.14	0.45	4.82	3.14	-1.93	0.30
1200.00	1199.97	3.67	0.16	344.15	3.67	-1.94	0.30
1300.00	1299.97	3.74	0.12	234.85	3.74	-2.06	0.23
1400.00	1399.97	3.55	0.21	225.28	3.55	-2.28	0.09
1500.00	1499.97	3.14	0.36	204.97	3.14	-2.54	0.18
1600.00	1599.97	2.58	0.36	209.56	2.58	-2.83	0.03
1700.00	1699.97	1.81	0.59	192.43	1.81	-3.09	0.27
1800.00	1799.96	0.78	0.61	189.14	0.78	-3.29	0.04
1900.00	1899.96	-0.14	0.48	201.55	-0.14	-3.53	0.17
2000.00	1999.95	-0.85	0.42	207.14	-0.85	-3.85	0.08
2100.00	2099.95	-1.68	0.58	188.61	-1.68	-4.09	0.22
2200.00	2199.95	-2.44	0.30	174.73	-2.44	-4.14	0.29
2300.00	2299.94	-3.41	0.82	188.28	-3.41	-4.22	0.54
2400.00	2399.93	-4.88	0.90	194.16	-4.88	-4.52	0.12
2500.00	2499.92	-6.16	0.75	217.97	-6.16	-5.11	0.37
2600.00	2599.91	-7.18	0.77	220.74	-7.18	-5.95	0.04
2700.00	2699.90	-8.32	0.79	205.14	-8.32	-6.68	0.21
2800.00	2799.89	-9.40	0.64	215.94	-9.40	-7.31	0.20
2900.00	2899.89	-10.23	0.54	216.57	-10.23	-7.91	0.10
3000.00	2999.89	-10.86	0.41	224.15	-10.86	-8.44	0.14
3100.00	3099.88	-11.18	0.51	262.81	-11.18	-9.14	0.32
3200.00	3199.88	-11.33	0.62	259.44	-11.33	-10.11	0.11
3300.00	3299.87	-11.68	0.50	235.26	-11.68	-11.00	0.26
3400.00	3399.87	-12.02	0.36	253.83	-12.02	-11.66	0.20
3500.00	3499.86	-11.76	0.75	301.43	-11.76	-12.52	0.57
3600.00	3599.85	-11.07	0.85	298.03	-11.07	-13.74	0.11
3700.00	3699.84	-10.16	1.08	306.79	-10.16	-15.15	0.27
3800.00	3799.82	-8.87	1.14	317.04	-8.87	-16.58	0.21
3900.00	3899.79	-6.90	1.70	326.78	-6.90	-18.07	0.61

S C I E N T I F I C	D R I L L I N G	C O N T R O L S
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Inrun Survey
for
MANZANO OIL CORP.

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Well No.: RUM POINT STATE NO.1

Date : 6-NOV-2001

Job No. : 32K1101596

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	3999.74	-4.37	1.94	319.71	-4.37	-19.97	0.33
4100.00	4099.68	-1.66	1.96	326.27	-1.66	-22.02	0.22
4200.00	4199.62	1.26	1.95	331.34	1.26	-23.79	0.17
4300.00	4299.55	4.81	2.49	341.08	4.81	-25.31	0.66
4400.00	4399.45	8.95	2.53	341.28	8.95	-26.72	0.04
4500.00	4499.35	13.15	2.53	342.85	13.15	-28.08	0.07
4600.00	4599.26	17.41	2.53	346.93	17.41	-29.23	0.18
4700.00	4699.17	21.49	2.24	349.73	21.49	-30.07	0.32
4800.00	4799.10	25.26	2.14	352.94	25.26	-30.65	0.15
4900.00	4899.03	28.91	2.06	356.31	28.91	-31.00	0.15
5000.00	4998.97	32.39	1.94	5.91	32.39	-30.94	0.36
5100.00	5098.91	35.72	1.89	6.03	35.72	-30.59	0.05
5200.00	5198.85	39.07	1.98	5.93	39.07	-30.24	0.09
5300.00	5298.80	42.32	1.76	5.70	42.32	-29.91	0.22
5400.00	5398.76	45.30	1.68	7.85	45.30	-29.56	0.10
5500.00	5498.71	48.20	1.68	10.35	48.20	-29.09	0.07
5600.00	5598.67	51.15	1.77	10.52	51.15	-28.55	0.09
5700.00	5698.62	54.27	1.86	9.67	54.27	-27.99	0.10
5800.00	5798.56	57.55	1.94	7.74	57.55	-27.49	0.10
5900.00	5898.50	61.00	2.06	9.32	61.00	-26.97	0.13
6000.00	5998.44	64.32	1.89	19.71	64.32	-26.13	0.40
6100.00	6098.39	67.41	1.96	25.64	67.41	-24.83	0.21
6200.00	6198.33	70.50	1.99	26.76	70.50	-23.31	0.05
6300.00	6298.27	73.56	2.03	31.46	73.56	-21.61	0.17
6400.00	6398.20	76.37	2.08	44.18	76.37	-19.42	0.46
6500.00	6498.13	79.04	2.37	48.70	79.04	-16.60	0.34
6600.00	6598.05	81.67	2.22	48.96	81.67	-13.59	0.15
6700.00	6697.97	84.29	2.29	47.76	84.29	-10.65	0.08
6800.00	6797.89	86.99	2.29	46.91	86.99	-7.71	0.03
6900.00	6897.81	89.67	2.31	49.18	89.67	-4.73	0.09
7000.00	6997.73	92.31	2.28	48.30	92.31	-1.72	0.05
7100.00	7097.66	94.79	2.03	49.45	94.79	1.11	0.25
7200.00	7197.59	97.32	2.21	44.53	97.32	3.81	0.25
7300.00	7297.51	100.06	2.28	46.54	100.06	6.61	0.11
7400.00	7397.44	102.73	2.18	46.81	102.73	9.44	0.10
7500.00	7497.37	105.13	1.96	49.92	105.13	12.13	0.25
7600.00	7597.31	107.61	2.12	42.08	107.61	14.68	0.32
7700.00	7697.24	110.17	1.98	46.40	110.17	17.17	0.20
7800.00	7797.18	112.79	2.17	41.14	112.79	19.67	0.27
7900.00	7897.10	115.58	2.17	43.88	115.58	22.23	0.10

S C I E N T I F I C D R I L L I N G C O N T R O L S

Inrun Survey
for
MANZANO OIL CORP.

Page 3

Well No.: RUM POINT STATE NO.1

Date : 6-NOV-2001

Job No. : 32K1101596

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	7997.03	118.31	2.23	45.39	118.31	24.93	0.08
8100.00	8096.95	121.17	2.28	41.29	121.17	27.63	0.17
8200.00	8196.85	124.49	2.78	41.29	124.49	30.54	0.50
8300.00	8296.74	128.14	2.85	42.67	128.14	33.83	0.09
8400.00	8396.62	131.79	2.73	40.26	131.79	37.05	0.16
8500.00	8496.49	135.59	2.94	39.39	135.59	40.22	0.21
8600.00	8596.37	139.37	2.80	42.70	139.37	43.51	0.22
8700.00	8696.26	142.96	2.57	37.14	142.96	46.52	0.35
8800.00	8796.15	146.51	2.69	40.97	146.51	49.41	0.21
8900.00	8896.04	150.00	2.63	41.66	150.00	52.47	0.07
9000.00	8995.95	153.33	2.40	39.56	153.33	55.33	0.25
9100.00	9095.85	156.83	2.72	37.26	156.83	58.10	0.33
9200.00	9195.74	160.28	2.54	45.21	160.28	61.12	0.40
9300.00	9295.64	163.73	2.71	37.03	163.73	64.11	0.41
9400.00	9395.54	167.25	2.39	38.71	167.25	66.84	0.32
9500.00	9495.46	170.42	2.15	34.75	170.42	69.21	0.29
9600.00	9595.38	173.54	2.33	38.78	173.54	71.56	0.24
9700.00	9695.30	176.71	2.23	35.28	176.71	73.95	0.17
9800.00	9795.23	179.68	2.26	45.89	179.68	76.49	0.42
9900.00	9895.14	182.52	2.42	45.84	182.52	79.43	0.16
10000.00	9995.05	185.54	2.39	42.09	185.54	82.34	0.16
10100.00	10094.97	188.66	2.46	42.91	188.66	85.20	0.08
10200.00	10194.87	191.63	2.48	49.83	191.63	88.31	0.30
10300.00	10294.78	194.30	2.32	50.75	194.30	91.53	0.17
10400.00	10394.71	196.71	2.07	51.50	196.71	94.51	0.24
10500.00	10494.64	199.07	2.18	49.27	199.07	97.37	0.14
10600.00	10594.55	201.70	2.68	53.57	201.70	100.69	0.53
10700.00	10694.43	204.60	2.89	53.15	204.60	104.59	0.21
10713.00	10707.42	205.00	2.88	53.11	205.00	105.11	0.08

The Horizontal Displacement (in Feet) at
Measured Depth 10713.00 is 230.37 in a Direction of 27.15 Degrees


Weatherford®

Job Number: D174

Company: Manzano Oil Corp.

Lease/Well: Rum Point State Well #1

Location: Lea County

Rig Name: JW #2

RKB:

G.L. or M.S.L.:

State/Country: New Mexico

Declination:

Grid: True North

File name: C:\WINSERVE\SURVEY~1\MANZANO\RUM1.SVY

Date/Time: 30-Jan-02 / 14:04

Curve Name: Composite Survey

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 27.18
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Begin SDI Gyro Survey									
100.00	.17	237.24	100.00	-.08	-.12	-.13	.15	237.24	.17
200.00	.52	289.70	200.00	-.01	-.68	-.32	.68	269.36	.44
300.00	.37	290.51	300.00	.26	-1.41	-.41	1.43	280.42	.15
400.00	.52	311.50	399.99	.67	-2.05	-.34	2.16	288.17	.22
500.00	.44	288.73	499.99	1.10	-2.75	-.28	2.96	291.72	.21
600.00	.26	289.88	599.99	1.30	-3.33	-.37	3.57	291.28	.18
700.00	.23	350.78	699.99	1.57	-3.57	-.23	3.91	293.74	.25
800.00	.31	67.82	799.99	1.87	-3.36	.13	3.84	299.15	.34
900.00	.38	66.29	899.98	2.11	-2.80	.60	3.51	306.95	.07
1000.00	.43	44.67	999.98	2.51	-2.23	1.21	3.36	318.30	.16
1100.00	.45	4.82	1099.98	3.17	-1.94	1.93	3.71	328.53	.30
1200.00	.16	344.15	1199.98	3.69	-1.94	2.40	4.17	332.24	.31
1300.00	.12	234.85	1299.98	3.77	-2.07	2.41	4.30	331.24	.23
1400.00	.21	225.28	1399.98	3.58	-2.28	2.14	4.24	327.45	.09
1500.00	.36	204.97	1499.97	3.16	-2.55	1.65	4.06	321.17	.18
1600.00	.36	209.56	1599.97	2.60	-2.83	1.02	3.85	312.59	.03
1700.00	.59	192.43	1699.97	1.83	-3.10	.21	3.60	300.54	.27
1800.00	.61	189.14	1799.96	.80	-3.29	-.79	3.39	283.65	.04
1900.00	.48	201.55	1899.96	-.11	-3.53	-1.72	3.53	268.14	.17
2000.00	.42	207.14	1999.96	-.83	-3.85	-2.50	3.94	257.84	.07

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2100.00	.58	188.61	2099.95	-1.66	-4.10	-3.35	4.42	247.98	.23
2200.00	.30	174.73	2199.95	-2.42	-4.15	-4.05	4.80	239.76	.30
2300.00	.82	188.28	2299.94	-3.39	-4.23	-4.94	5.42	231.30	.53
2400.00	.90	194.16	2399.93	-4.86	-4.52	-6.39	6.64	222.96	.12
2500.00	.75	217.97	2499.92	-6.13	-5.12	-7.79	7.99	219.84	.37
2600.00	.77	220.74	2599.91	-7.16	-5.96	-9.09	9.31	219.77	.04
2700.00	.79	205.14	2699.91	-8.29	-6.69	-10.43	10.65	218.90	.21
2800.00	.64	215.94	2799.90	-9.37	-7.31	-11.67	11.88	217.97	.20
2900.00	.54	216.57	2899.89	-10.20	-7.92	-12.69	12.91	217.83	.10
3000.00	.41	224.15	2999.89	-10.83	-8.45	-13.50	13.74	217.95	.14
3100.00	.51	262.81	3099.89	-11.15	-9.14	-14.09	14.42	219.35	.32
3200.00	.62	259.44	3199.88	-11.30	-10.11	-14.67	15.17	221.82	.11
3300.00	.50	235.26	3299.88	-11.65	-11.00	-15.39	16.02	223.37	.26
3400.00	.36	253.83	3399.87	-11.99	-11.66	-15.99	16.72	224.22	.20
3500.00	.75	301.43	3499.87	-11.73	-12.52	-16.16	17.16	226.87	.57
3600.00	.85	298.03	3599.86	-11.04	-13.74	-16.10	17.63	231.21	.11
3700.00	1.08	306.79	3699.84	-10.13	-15.15	-15.93	18.22	236.23	.27
3800.00	1.14	317.04	3799.83	-8.84	-16.58	-15.43	18.79	241.94	.21
3900.00	1.70	326.78	3899.80	-6.87	-18.07	-14.36	19.33	249.19	.61
4000.00	1.94	319.71	3999.74	-4.34	-19.98	-12.98	20.44	257.75	.33
4100.00	1.96	326.27	4099.69	-1.62	-22.02	-11.50	22.08	265.79	.22
4200.00	1.95	331.34	4199.63	1.29	-23.79	-9.72	23.82	273.11	.17
4300.00	2.49	341.08	4299.55	4.84	-25.31	-7.25	25.77	280.83	.66
4400.00	2.53	341.28	4399.46	8.99	-26.72	-4.21	28.19	288.59	.04
4500.00	2.53	342.85	4499.36	13.19	-28.08	-1.10	31.02	295.15	.07
4600.00	2.53	346.93	4599.26	17.44	-29.23	2.17	34.04	300.83	.18
4700.00	2.24	349.73	4699.18	21.52	-30.08	5.40	36.98	305.58	.31
4800.00	2.14	352.94	4799.10	25.29	-30.65	8.50	39.74	309.53	.16
4900.00	2.06	356.31	4899.04	28.94	-31.00	11.58	42.41	313.03	.15
5000.00	1.94	5.91	4998.98	32.42	-30.94	14.70	44.81	316.33	.36
5100.00	1.89	6.03	5098.92	35.74	-30.59	17.82	47.05	319.44	.05
5200.00	1.98	5.93	5198.86	39.10	-30.24	20.97	49.43	322.28	.09
5300.00	1.76	5.70	5298.81	42.34	-29.91	24.01	51.84	324.76	.22
5400.00	1.68	7.85	5398.76	45.32	-29.56	26.82	54.11	326.89	.10
5500.00	1.68	10.35	5498.72	48.22	-29.09	29.60	56.32	328.89	.07
5600.00	1.77	10.52	5598.68	51.18	-28.55	32.49	58.60	330.85	.09
5700.00	1.86	9.67	5698.63	54.30	-27.99	35.51	61.09	332.73	.09
5800.00	1.94	7.74	5798.57	57.57	-27.49	38.66	63.80	334.47	.10
5900.00	2.06	9.32	5898.51	61.03	-26.98	41.96	66.72	336.15	.13
6000.00	1.89	19.71	5998.45	64.35	-26.13	45.31	69.45	337.90	.40
6100.00	1.96	25.64	6098.39	67.45	-24.83	48.66	71.87	339.79	.21
6200.00	1.99	26.76	6198.34	70.54	-23.31	52.10	74.29	341.71	.05

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6300.00	2.03	31.46	6298.27	73.60	-21.60	55.60	76.70	343.64	.17
6400.00	2.08	44.18	6398.21	76.41	-19.42	59.10	78.84	345.74	.46
6500.00	2.37	48.70	6498.13	79.08	-16.60	62.76	80.80	348.15	.34
6600.00	2.22	48.96	6598.05	81.71	-13.58	66.49	82.83	350.56	.15
6700.00	2.29	47.76	6697.98	84.33	-10.64	70.15	85.00	352.81	.08
6800.00	2.29	46.91	6797.90	87.04	-7.70	73.91	87.38	354.94	.03
6900.00	2.31	49.18	6897.82	89.72	-4.72	77.65	89.84	356.99	.09
7000.00	2.28	48.30	6997.74	92.36	-1.71	81.38	92.37	358.94	.05
7100.00	2.03	49.45	7097.67	94.83	1.12	84.87	94.84	.68	.25
7200.00	2.21	44.53	7197.60	97.36	3.82	88.35	97.43	2.25	.26
7300.00	2.28	46.54	7297.52	100.10	6.61	92.07	100.32	3.78	.11
7400.00	2.18	46.81	7397.44	102.77	9.45	95.74	103.21	5.25	.10
7500.00	1.96	49.92	7497.38	105.18	12.14	99.11	105.87	6.58	.25
7600.00	2.12	42.08	7597.32	107.65	14.69	102.47	108.65	7.77	.32
7700.00	1.98	46.40	7697.25	110.21	17.18	105.89	111.54	8.86	.21
7800.00	2.17	41.14	7797.19	112.83	19.68	109.36	114.53	9.89	.27
7900.00	2.17	43.88	7897.11	115.62	22.23	113.01	117.74	10.88	.10
8000.00	2.23	45.39	7997.04	118.35	24.93	116.67	120.95	11.90	.08
8100.00	2.28	41.29	8096.96	121.21	27.63	120.45	124.32	12.84	.17
8200.00	2.78	41.29	8196.87	124.53	30.54	124.73	128.22	13.78	.50
8300.00	2.85	42.67	8296.75	128.18	33.83	129.48	132.57	14.78	.10
8400.00	2.73	40.26	8396.63	131.82	37.05	134.19	136.93	15.70	.17
8500.00	2.94	39.39	8496.50	135.62	40.22	139.02	141.46	16.52	.21
8600.00	2.80	42.70	8596.38	139.40	43.50	143.88	146.03	17.33	.22
8700.00	2.57	37.14	8696.27	142.98	46.51	148.44	150.36	18.02	.35
8800.00	2.69	40.97	8796.16	146.54	49.40	152.93	154.65	18.63	.21
8900.00	2.63	41.66	8896.06	150.03	52.47	157.43	158.94	19.28	.07
9000.00	2.40	39.56	8995.96	153.36	55.33	161.69	163.03	19.84	.25
9100.00	2.72	37.26	9095.86	156.86	58.10	166.08	167.27	20.32	.34
9200.00	2.54	45.21	9195.75	160.31	61.10	170.52	171.56	20.87	.41
9300.00	2.71	37.03	9295.65	163.76	64.10	174.95	175.86	21.38	.41
9400.00	2.39	38.71	9395.55	167.27	66.83	179.33	180.13	21.78	.33
9500.00	2.15	34.75	9495.47	170.44	69.20	183.23	183.95	22.10	.29
9600.00	2.33	38.78	9595.40	173.57	71.54	187.08	187.73	22.40	.24
9700.00	2.23	35.28	9695.32	176.74	73.94	191.00	191.58	22.70	.17
9800.00	2.26	45.89	9795.24	179.70	76.48	194.79	195.30	23.05	.42
9900.00	2.42	45.84	9895.16	182.54	79.41	198.66	199.07	23.51	.16
10000.00	2.39	42.09	9995.07	185.56	82.32	202.67	203.00	23.92	.16
10100.00	2.46	42.91	10094.98	188.68	85.18	206.75	207.02	24.30	.08
10200.00	2.48	49.83	10194.89	191.65	88.30	210.82	211.01	24.74	.30
10300.00	2.32	50.75	10294.80	194.32	91.52	214.67	214.79	25.22	.16
10400.00	2.07	51.50	10394.73	196.73	94.50	218.17	218.25	25.66	.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
10500.00	2.18	49.27	10494.66	199.09	97.35	221.58	221.62	26.06	.14
10600.00	2.68	53.57	10594.57	201.72	100.67	225.43	225.45	26.52	.53
10700.00	2.89	53.15	10694.45	204.62	104.57	229.80	229.80	27.07	.21
End of Gyro									
10713.00	2.88	53.11	10707.43	205.02	105.10	230.38	230.38	27.14	.08
Begin MWD Surveys									
10786.00	2.80	51.20	10780.34	207.23	107.95	233.66	233.67	27.52	.17
10818.00	2.60	50.90	10812.31	208.18	109.12	235.04	235.05	27.66	.63
10850.00	1.40	58.00	10844.29	208.85	110.02	236.04	236.05	27.78	3.82
10882.00	.80	103.50	10876.28	209.00	110.57	236.43	236.45	27.88	3.17
10946.00	1.50	201.90	10940.27	208.12	110.69	235.70	235.72	28.01	2.81
11010.00	3.30	211.20	11004.21	205.77	109.42	233.03	233.05	28.00	2.87
11042.00	4.50	213.90	11036.14	203.94	108.25	230.86	230.88	27.96	3.79
11106.00	5.80	218.90	11099.88	199.34	104.81	225.20	225.21	27.74	2.15
11138.00	7.10	221.50	11131.68	196.60	102.49	221.70	221.71	27.53	4.16
11202.00	9.10	216.00	11195.04	189.54	96.89	212.87	212.87	27.08	3.35
11266.00	8.80	211.40	11258.26	181.27	91.37	202.98	202.99	26.75	1.21
11393.00	7.90	209.60	11383.91	165.38	81.99	184.58	184.59	26.37	.74
11457.00	8.70	205.00	11447.24	157.17	77.78	175.34	175.36	26.33	1.62
11521.00	8.80	204.80	11510.50	148.34	73.68	165.62	165.63	26.41	.16
11584.00	8.10	205.70	11572.81	139.97	69.73	156.36	156.38	26.48	1.13
11712.00	6.70	204.90	11699.74	125.07	62.68	139.89	139.89	26.62	1.10
11776.00	7.10	202.60	11763.28	118.03	59.58	132.21	132.22	26.79	.76
11967.00	5.10	206.30	11953.19	99.52	51.29	111.96	111.96	27.26	1.07
12062.00	4.40	207.60	12047.86	92.51	47.73	104.09	104.09	27.29	.75
End of MWD Survey									
12142.00	3.90	205.80	12127.65	87.34	45.12	98.30	98.30	27.32	.65
Projection to Bit									
12182.00	3.90	205.80	12167.56	84.89	43.94	95.58	95.58	27.37	.00
Projection to TD									
12453.00	2.19	205.80	12438.17	71.93	37.67	81.19	81.20	27.64	.63

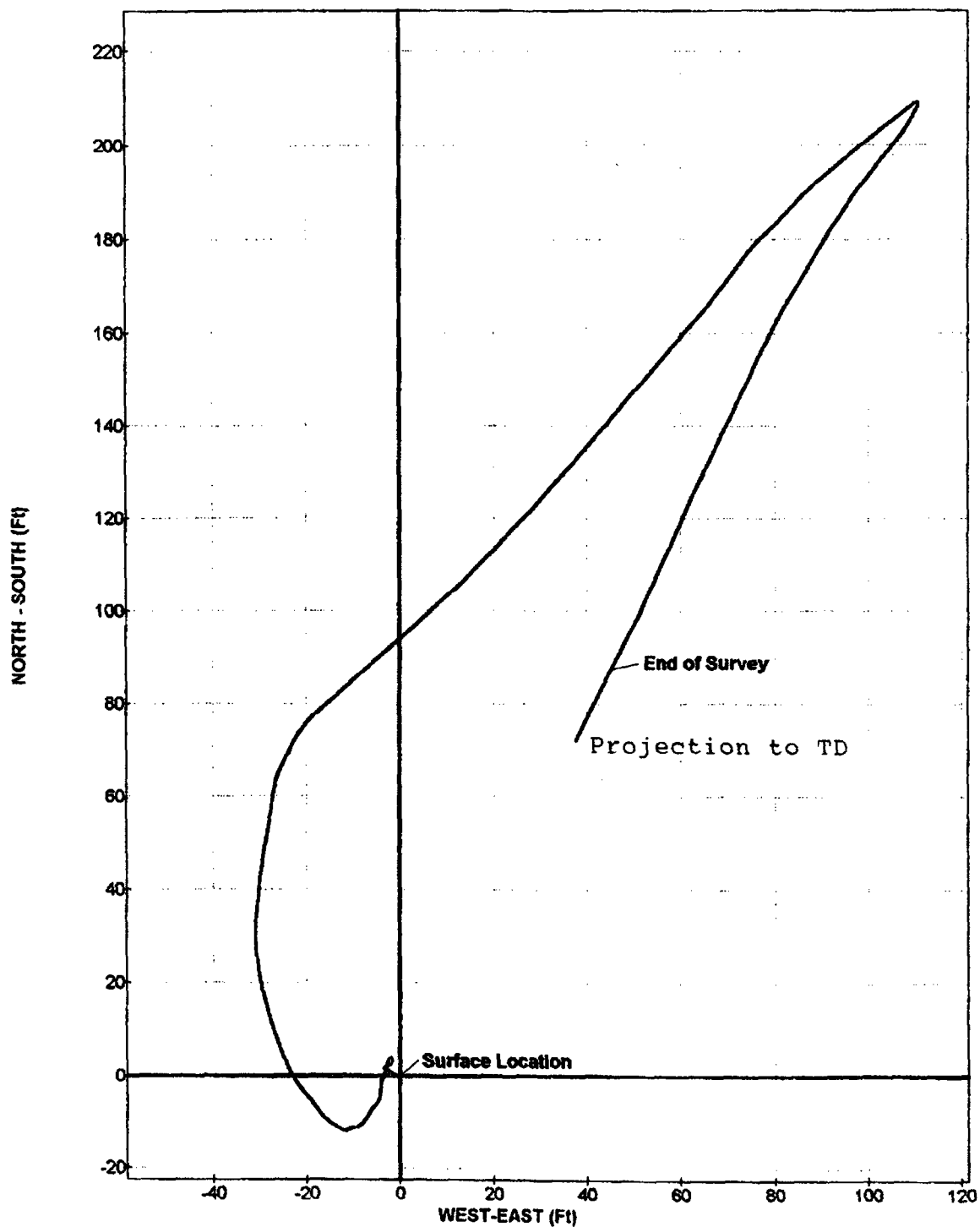
Job Number: B174

Company: Manzano Oil Corp.

Lease/Well: Rum Point State Well #1

Location: Lea County

State/Country: New Mexico



Survey Certification

State of Texas

County of Midland

I, TIM KILPATRICK CERTIFY THAT; I AM EMPLOYED BY WEATHERFORD

US, LP: THAT I DID ON THE DAY(S) OF 11/7/01 THROUGH

11/16/01 CONDUCT OR SUPERVISE THE TAKING OF A

MWD SURVEY FROM A DEPTH OF 10,784 FEET TO

A DEPTH OF 12,142 FEET; THE DATA IS TRUE, CORRECT,

COMPLETE, AND WITHIN THE LIMITATIONS OF THE TOOL AS SET

FORTH BY WEATHERFORD US, LP; THAT I AM AUTHORIZED AND

QUALIFIED TO MAKE THIS REPORT; THAT THIS SURVEY WAS CONDUCTED

AT THE REQUEST MANZANO Oil FOR THE Ran Point State #1

WELL API NO. 30 125 35499 IN LEA COUNTY;

TEXAS / NEW MEXICO; AND THAT I HAVE REVIEWED THIS REPORT AND

FIND THAT IT CONFORMS TO THE PRINCIPLES AND PROCEDURES AS SET

FORTH BY WEATHERFORD US, LP.

Tim Kilpatrick 11/16/01