

DRILLING MEASUREMENTS INC.
Directional Survey Data

Company: WISER OIL CO.
Well Name: ST.LEASE AZ WELL #3
API Number:
Side Track: 0

Field: SKELLY UNIT
Location: MALJAMAR NM.
County: EDDY
State: NM.

DMI Operator: JOEY BOUTTE
Probe Number:

Job Number: ST97-H161
Date: 01/05/1998

Calculation Method: Minimum Curvature
Proposed Azimuth: 270.00 (N90.0W)

Units: Feet/xF
Declination: 9.300 (West - / East +)

PAGE 1

SURVEY DATA AND CLOSURE INFORMATION

MD	AZ	INC	DLEG	TVD	VS	NORTH	EAST	TEMP	DATE
621.0	299.4	1.3	0.0	621.0	-0.0	0.0	-0.0	(TIE-IN)	
705.0	307.0	1.0	0.4	704.9	1.4	0.9	-1.4	57.3	01/01/1998
784.0	338.5	1.5	1.1	783.9	2.3	2.3	-2.3	63.9	01/01/1998
871.0	332.7	1.3	0.3	870.9	3.2	4.2	-3.2	64.8	01/01/1998
965.0	359.5	0.4	1.0	964.9	3.7	5.5	-3.7	65.8	01/01/1998
1057.0	9.7	1.0	0.7	1056.9	3.6	6.6	-3.6	66.2	01/01/1998
1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
1527.0	18.6	2.2	0.7	1526.5	-4.9	22.9	4.9	70.2	01/01/1998
1621.0	8.6	1.9	0.5	1620.4	-5.7	26.1	5.7	71.2	01/01/1998
1714.0	352.6	1.5	0.7	1713.4	-5.8	28.9	5.8	71.0	01/01/1998
1809.0	327.8	1.1	0.7	1808.4	-5.1	30.9	5.1	71.7	01/01/1998
1903.0	306.6	0.9	0.4	1902.4	-4.1	32.1	4.1	72.7	01/01/1998
1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
2153.0	252.5	0.4	0.3	2152.3	-1.9	32.6	1.9	72.3	01/01/1998
2190.0	230.4	0.7	1.0	2189.3	-1.6	32.5	1.6	71.4	01/01/1998
2220.0	255.5	1.0	1.6	2219.3	-1.2	32.3	1.2	70.0	01/01/1980
2313.0	272.1	2.1	1.3	2312.3	1.3	32.1	-1.3	73.2	01/01/1998
2405.0	271.1	3.6	1.6	2404.2	5.9	32.3	-5.9	73.5	01/02/1998
2499.0	272.6	5.0	1.5	2497.9	12.9	32.5	-12.9	73.1	01/02/1998
2592.0	272.3	6.1	1.2	2590.5	21.9	32.9	-21.9	74.9	01/02/1998
2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
2780.0	265.7	7.4	1.0	2777.1	44.2	33.0	-44.2	73.8	01/02/1998
2874.0	252.0	7.0	1.9	2870.4	55.7	30.8	-55.7	79.6	01/03/1998
2967.0	259.5	6.9	1.0	2962.7	66.6	28.0	-66.6	75.0	01/03/1998
3062.0	252.0	6.7	1.0	3057.1	77.5	25.3	-77.5	76.0	01/03/1998
3156.0	256.3	7.1	0.7	3150.4	88.3	22.2	-88.3	77.6	01/03/1998
3251.0	253.8	6.5	0.7	3244.7	99.2	19.3	-99.2	82.3	01/03/1998
3343.0	251.7	6.6	0.3	3336.1	109.2	16.2	-109.2	81.6	01/04/1998
3438.0	256.2	7.1	0.8	3430.4	120.1	13.1	-120.1	82.7	01/04/1998
3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
3626.0	257.7	7.3	2.1	3617.3	140.1	7.6	-140.1	82.0	01/04/1998
3719.0	266.4	6.1	1.7	3709.6	150.8	6.1	-150.8	77.6	01/05/1998

TTOM HOLE CLOSURE 151.0 FEET AT 272.30 (N87.7W)

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705.0	307.0	1.0	0.4	704.9	1.4	0.9	-1.4	57.3	01/01/1998
784.0	338.5	1.5	1.1	783.9	2.3	2.3	-2.3	63.9	01/01/1998
871.0	332.7	1.3	0.3	870.9	3.2	4.2	-3.2	64.8	01/01/1998
965.0	359.5	0.4	1.0	964.9	3.7	5.5	-3.7	65.8	01/01/1998
1057.0	9.7	1.0	0.7	1056.9	3.6	6.6	-3.6	66.2	01/01/1998
1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
1527.0	18.6	2.2	0.7	1526.5	-4.9	22.9	4.9	70.2	01/01/1998
1621.0	8.6	1.9	0.5	1620.4	-5.7	26.1	5.7	71.2	01/01/1998
1714.0	352.6	1.5	0.7	1713.4	-5.8	28.9	5.8	71.0	01/01/1998
1809.0	327.8	1.1	0.7	1808.4	-5.1	30.9	5.1	71.7	01/01/1998
1903.0	306.6	0.9	0.4	1902.4	-4.1	32.1	4.1	72.7	01/01/1998
1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
2153.0	252.5	0.4	0.3	2152.3	-1.9	32.6	1.9	72.3	01/01/1998
2190.0	230.4	0.7	1.0	2189.3	-1.6	32.5	1.6	71.4	01/01/1998
2220.0	255.5	1.0	1.6	2219.3	-1.2	32.3	1.2	70.0	01/01/1980
2313.0	272.1	2.1	1.3	2312.3	1.3	32.1	-1.3	73.2	01/01/1998
2405.0	271.1	3.6	1.6	2404.2	5.9	32.3	-5.9	73.5	01/02/1998
2499.0	272.6	5.0	1.5	2497.9	12.9	32.5	-12.9	73.1	01/02/1998
2592.0	272.3	6.1	1.2	2590.5	21.9	32.9	-21.9	74.9	01/02/1998
2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
2780.0	265.7	7.4	1.0	2777.1	44.2	33.0	-44.2	73.8	01/02/1998
2874.0	252.0	7.0	1.9	2870.4	55.7	30.8	-55.7	79.6	01/03/1998
2967.0	259.5	6.9	1.0	2962.7	66.6	28.0	-66.6	75.0	01/03/1998
3062.0	252.0	6.7	1.0	3057.1	77.5	25.3	-77.5	76.0	01/03/1998
3156.0	256.3	7.1	0.7	3150.4	88.3	22.2	-88.3	77.6	01/03/1998
3251.0	253.8	6.5	0.7	3244.7	99.2	19.3	-99.2	82.3	01/03/1998
3343.0	251.7	6.6	0.3	3336.1	109.2	16.2	-109.2	81.6	01/04/1998
3438.0	256.2	7.1	0.8	3430.4	120.1	13.1	-120.1	82.7	01/04/1998
3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
3626.0	257.7	7.3	2.1	3617.3	140.1	7.6	-140.1	82.0	01/04/1998
3719.0	266.4	6.1	1.7	3709.6	150.8	6.1	-150.8	77.6	01/05/1998

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MD	AZ	INC	DLEG	TVD	VS	NORTH	EAST	TEMP	DATE
621.0	299.4	1.3	0.0	621.0	-0.0	0.0	-0.0	(TIE-IN)	
705.0	307.0	1.0	0.4	704.9	1.4	0.9	-1.4	57.3	01/01/1998
784.0	338.5	1.5	1.1	783.9	2.3	2.3	-2.3	63.9	01/01/1998
871.0	332.7	1.3	0.3	870.9	3.2	4.2	-3.2	64.8	01/01/1998
965.0	359.5	0.4	1.0	964.9	3.7	5.5	-3.7	65.8	01/01/1998
1057.0	9.7	1.0	0.7	1056.9	3.6	6.6	-3.6	66.2	01/01/1998
1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
1527.0	18.6	2.2	0.7	1526.5	-4.9	22.9	4.9	70.2	01/01/1998
1621.0	8.6	1.9	0.5	1620.4	-5.7	26.1	5.7	71.2	01/01/1998
1714.0	352.6	1.5	0.7	1713.4	-5.8	28.9	5.8	71.0	01/01/1998
1809.0	327.8	1.1	0.7	1808.4	-5.1	30.9	5.1	71.7	01/01/1998
1903.0	306.6	0.9	0.4	1902.4	-4.1	32.1	4.1	72.7	01/01/1998
1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
2153.0	252.5	0.4	0.3	2152.3	-1.9	32.6	1.9	72.3	01/01/1998
2190.0	230.4	0.7	1.0	2189.3	-1.6	32.5	1.6	71.4	01/01/1998
2220.0	255.5	1.0	1.6	2219.3	-1.2	32.3	1.2	70.0	01/01/1998
2313.0	272.1	2.1	1.3	2312.3	1.3	32.1	-1.3	73.2	01/01/1998
2405.0	271.1	3.6	1.6	2404.2	5.9	32.3	-5.9	73.5	01/02/1998
2499.0	272.6	5.0	1.5	2497.9	12.9	32.5	-12.9	73.1	01/02/1998
2592.0	272.3	6.1	1.2	2590.5	21.9	32.9	-21.9	74.9	01/02/1998
2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
2780.0	265.7	7.4	1.0	2777.1	44.2	33.0	-44.2	73.8	01/02/1998
2874.0	252.0	7.0	1.9	2870.4	55.7	30.8	-55.7	79.6	01/03/1998
2967.0	259.5	6.9	1.0	2962.7	66.6	28.0	-66.6	75.0	01/03/1998
3062.0	252.0	6.7	1.0	3057.1	77.5	25.3	-77.5	76.0	01/03/1998
3156.0	256.3	7.1	0.7	3150.4	88.3	22.2	-88.3	77.6	01/03/1998
3251.0	253.8	6.5	0.7	3244.7	99.2	19.3	-99.2	82.3	01/03/1998
3343.0	251.7	6.6	0.3	3336.1	109.2	16.2	-109.2	81.6	01/04/1998
3438.0	256.2	7.1	0.8	3430.4	120.1	13.1	-120.1	82.7	01/04/1998
3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
3626.0	257.7	7.3	2.1	3617.3	140.1	7.6	-140.1	82.0	01/04/1998
3719.0	266.4	6.1	1.7	3709.6	150.8	6.1	-150.8	77.6	01/05/1998

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Company: WISER OIL CO.
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784.0	338.5	1.5	1.1	783.9	2.3	2.3	-2.3	63.9	01/01/1998
871.0	332.7	1.3	0.3	870.9	3.2	4.2	-3.2	64.8	01/01/1998
965.0	359.5	0.4	1.0	964.9	3.7	5.5	-3.7	65.8	01/01/1998
1057.0	9.7	1.0	0.7	1056.9	3.6	6.6	-3.6	66.2	01/01/1998
1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
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1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
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2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
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3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
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1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
1527.0	18.6	2.2	0.7	1526.5	-4.9	22.9	4.9	70.2	01/01/1998
1621.0	8.6	1.9	0.5	1620.4	-5.7	26.1	5.7	71.2	01/01/1998
1714.0	352.6	1.5	0.7	1713.4	-5.8	28.9	5.8	71.0	01/01/1998
1809.0	327.8	1.1	0.7	1808.4	-5.1	30.9	5.1	71.7	01/01/1998
1903.0	306.6	0.9	0.4	1902.4	-4.1	32.1	4.1	72.7	01/01/1998
1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
2153.0	252.5	0.4	0.3	2152.3	-1.9	32.6	1.9	72.3	01/01/1998
2190.0	230.4	0.7	1.0	2189.3	-1.6	32.5	1.6	71.4	01/01/1998
2220.0	255.5	1.0	1.6	2219.3	-1.2	32.3	1.2	70.0	01/01/1980
2313.0	272.1	2.1	1.3	2312.3	1.3	32.1	-1.3	73.2	01/01/1998
2405.0	271.1	3.6	1.6	2404.2	5.9	32.3	-5.9	73.5	01/02/1998
2499.0	272.6	5.0	1.5	2497.9	12.9	32.5	-12.9	73.1	01/02/1998
2592.0	272.3	6.1	1.2	2590.5	21.9	32.9	-21.9	74.9	01/02/1998
2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
2780.0	265.7	7.4	1.0	2777.1	44.2	33.0	-44.2	73.8	01/02/1998
2874.0	252.0	7.0	1.9	2870.4	55.7	30.8	-55.7	79.6	01/03/1998
2967.0	259.5	6.9	1.0	2962.7	66.6	28.0	-66.6	75.0	01/03/1998
3062.0	252.0	6.7	1.0	3057.1	77.5	25.3	-77.5	76.0	01/03/1998
3156.0	256.3	7.1	0.7	3150.4	88.3	22.2	-88.3	77.6	01/03/1998
3251.0	253.8	6.5	0.7	3244.7	99.2	19.3	-99.2	82.3	01/03/1998
3343.0	251.7	6.6	0.3	3336.1	109.2	16.2	-109.2	81.6	01/04/1998
3438.0	256.2	7.1	0.8	3430.4	120.1	13.1	-120.1	82.7	01/04/1998
3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
3626.0	257.7	7.3	2.1	3617.3	140.1	7.6	-140.1	82.0	01/04/1998
3719.0	266.4	6.1	1.7	3709.6	150.8	6.1	-150.8	77.6	01/05/1998

FROM HOLE CLOSURE 151.0 FEET AT 272.30 (N87.7W)

DRILLING MEASUREMENTS INC.
Directional Survey Data

Company: WISER OIL CO.
Well Name: ST.LEASE AZ WELL #3
API Number:
Side Track: 0

Field: SKELLY UNIT
Location: MALJAMAR NM.
County: EDDY
State: NM.

DMI Operator: JOEY BOUTTE
Probe Number:

Job Number: ST97-H161
Date: 01/05/1998

Calculation Method: Minimum Curvature

Proposed Azimuth: 270.00 (N90.0W)

Units: Feet/xF

Declination: 9.300 (West - / East +)

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SURVEY DATA AND CLOSURE INFORMATION

MD	AZ	INC	DLEG	TVD	VS	NORTH	EAST	TEMP	DATE
621.0	299.4	1.3	0.0	621.0	-0.0	0.0	-0.0	(TIE-IN)	
705.0	307.0	1.0	0.4	704.9	1.4	0.9	-1.4	57.3	01/01/1998
784.0	338.5	1.5	1.1	783.9	2.3	2.3	-2.3	63.9	01/01/1998
871.0	332.7	1.3	0.3	870.9	3.2	4.2	-3.2	64.8	01/01/1998
965.0	359.5	0.4	1.0	964.9	3.7	5.5	-3.7	65.8	01/01/1998
1057.0	9.7	1.0	0.7	1056.9	3.6	6.6	-3.6	66.2	01/01/1998
1151.0	20.9	1.8	0.9	1150.8	2.9	8.8	-2.9	68.2	01/01/1998
1246.0	23.4	2.5	0.7	1245.8	1.6	12.1	-1.6	68.6	01/01/1998
1340.0	37.9	2.8	0.8	1339.7	-0.7	15.8	0.7	70.3	01/01/1998
1432.0	32.2	2.6	0.4	1431.6	-3.2	19.3	3.2	70.9	01/01/1998
1527.0	18.6	2.2	0.7	1526.5	-4.9	22.9	4.9	70.2	01/01/1998
1621.0	8.6	1.9	0.5	1620.4	-5.7	26.1	5.7	71.2	01/01/1998
1714.0	352.6	1.5	0.7	1713.4	-5.8	28.9	5.8	71.0	01/01/1998
1809.0	327.8	1.1	0.7	1808.4	-5.1	30.9	5.1	71.7	01/01/1998
1903.0	306.6	0.9	0.4	1902.4	-4.1	32.1	4.1	72.7	01/01/1998
1996.0	276.1	0.6	0.5	1995.3	-3.0	32.6	3.0	73.1	01/01/1998
2090.0	284.3	0.3	0.3	2089.3	-2.3	32.7	2.3	71.3	01/01/1998
2153.0	252.5	0.4	0.3	2152.3	-1.9	32.6	1.9	72.3	01/01/1998
2190.0	230.4	0.7	1.0	2189.3	-1.6	32.5	1.6	71.4	01/01/1998
2220.0	255.5	1.0	1.6	2219.3	-1.2	32.3	1.2	70.0	01/01/1980
2313.0	272.1	2.1	1.3	2312.3	1.3	32.1	-1.3	73.2	01/01/1998
2405.0	271.1	3.6	1.6	2404.2	5.9	32.3	-5.9	73.5	01/02/1998
2499.0	272.6	5.0	1.5	2497.9	12.9	32.5	-12.9	73.1	01/02/1998
2592.0	272.3	6.1	1.2	2590.5	21.9	32.9	-21.9	74.9	01/02/1998
2686.0	271.9	6.9	0.9	2683.9	32.5	33.3	-32.5	78.9	01/02/1998
2780.0	265.7	7.4	1.0	2777.1	44.2	33.0	-44.2	73.8	01/02/1998
2874.0	252.0	7.0	1.9	2870.4	55.7	30.8	-55.7	79.6	01/03/1998
2967.0	259.5	6.9	1.0	2962.7	66.6	28.0	-66.6	75.0	01/03/1998
3062.0	252.0	6.7	1.0	3057.1	77.5	25.3	-77.5	76.0	01/03/1998
3156.0	256.3	7.1	0.7	3150.4	88.3	22.2	-88.3	77.6	01/03/1998
3251.0	253.8	6.5	0.7	3244.7	99.2	19.3	-99.2	82.3	01/03/1998
3343.0	251.7	6.6	0.3	3336.1	109.2	16.2	-109.2	81.6	01/04/1998
3438.0	256.2	7.1	0.8	3430.4	120.1	13.1	-120.1	82.7	01/04/1998
3533.0	252.0	5.5	1.8	3524.9	130.1	10.3	-130.1	83.3	01/04/1998
3626.0	257.7	7.3	2.1	3617.3	140.1	7.6	-140.1	82.0	01/04/1998
3719.0	266.4	6.1	1.7	3709.6	150.8	6.1	-150.8	77.6	01/05/1998

FROM HOLE CLOSURE 151.0 FEET AT 272.30 (N87.7W)