

OPERATOR: DOMINION EXPLORATION
WELL/LEASE: RIO 22 FED. #1
COUNTY: CHAVES *Com*

078-0010

*0-22-143-30e
660/5 & 1980/E
30-005-21171*

STATE OF NEW MEXICO
DEVIATION REPORT

146	1/2	8,005	2 3/4
193	3/4	8,099	2 1/2
987	1	8,194	2 3/4
1,437	1	8,284	2
1,934	1	8,376	2
2,437	1	8,467	2 1/2
2,805	1	8,561	2 1/4
3,434	1 1/2	8,667	2 1/4
3,689	1	8,748	2 1/4
4,196	1		
4,672	1 1/4		
5,176	1/2		
5,650	3/4		
6,125	1/2		
6,250	1/2		
6,534	3/4		
6,745	2 1/4		
6,842	2 1/2		
6,933	2 1/4		
7,029	2		
7,124	2		
7,217	2 3/4		
7,311	2 1/4		
7,403	2 3/4		
7,435	2 3/4		
7,503	2 3/4		
7,600	2 1/2		
7,692	2 1/2		
7,820	2 3/4		
7,910	2 1/4		



By: *Steve Moore*

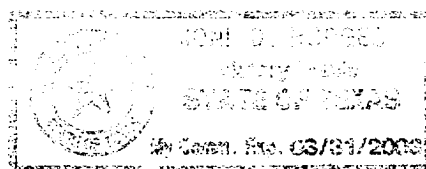
STATE OF TEXAS

COUNTY OF MIDLAND

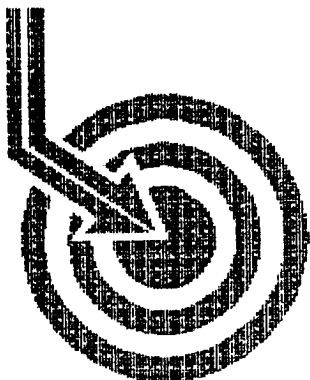
The foregoing instrument was acknowledged before me on this 22nd day of May, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Julie D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003



KZ

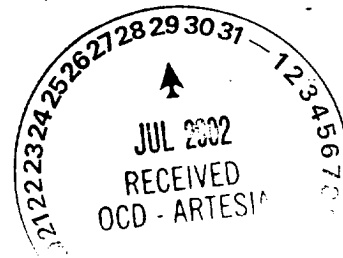


Scientific Drilling

DOMINION

Field: Wildcat
Site: Chaves County, NM
Well: Rio "22" Fed. #1
Wellpath: DH - Job #32D0502160
Survey: 5/15/02-5/27/02

SUR: 660/S + 1980/E
BAL: 658/S + 1986/E
D - 22 - 14s - 30e
30 - 005 - 21171



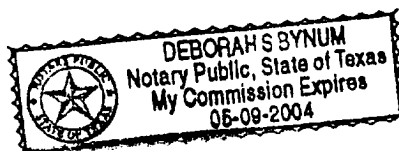
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 8th of July, 2002.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: DOMINION
Field: Wildcat
Site: Chaves County, NM
Well: Rio "22" Fed. #1
Wellpath: DH - Job #32D0502160

Date: 7/7/2002 **Time:** 13:34:36 **Page:** 1
Co-ordinate(NE) Reference: Site: Chaves County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,238.4Azi)
Survey Calculation Method: Minimum Curvature

Survey: 5/15/02-5/27/02
 MWD 8657'-10954'

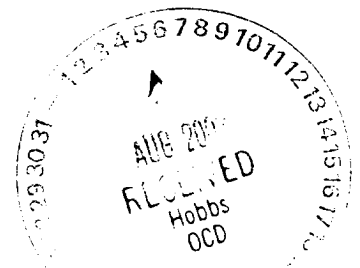
Start Date: 7/7/2002

Company: SDI w/MWD
Tool:

Engineer: Brusenhan/Hendrix

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
8557.0	2.40	87.53	8554.4	-115.3	68.1	93.4	115.6	53.88	0.00
8657.0	2.50	85.40	8654.3	-119.0	68.4	97.7	119.2	54.99	0.14
8757.0	2.40	87.80	8754.3	-122.8	68.7	101.9	122.9	56.03	0.14
8853.0	1.00	141.80	8850.2	-124.6	68.1	104.5	124.7	56.90	2.07
8947.0	2.20	194.80	8944.2	-123.4	65.7	104.5	123.4	57.84	1.90
9042.0	3.20	229.90	9039.1	-119.5	62.2	102.0	119.5	58.61	1.99
9136.0	4.00	240.10	9132.9	-113.6	58.9	97.2	113.6	58.77	1.09
9229.0	4.40	245.40	9225.6	-106.8	55.8	91.1	106.8	58.51	0.60
9258.0	4.70	246.50	9254.6	-104.6	54.9	89.0	104.6	58.35	1.08
9350.0	5.50	249.60	9346.2	-96.5	51.8	81.4	96.5	57.52	0.92
9381.0	5.40	250.80	9377.0	-93.6	50.8	78.6	93.6	57.12	0.49
9475.0	6.40	241.50	9470.5	-84.1	46.9	69.9	84.1	56.14	1.47
9536.0	6.00	239.40	9531.2	-77.5	43.6	64.1	77.6	55.77	0.75
9597.0	5.50	238.40	9591.9	-71.4	40.5	58.9	71.5	55.50	0.84
9690.0	5.80	236.80	9684.4	-62.2	35.6	51.2	62.3	55.20	0.36
9781.0	5.40	231.80	9775.0	-53.4	30.4	44.0	53.4	55.33	0.69
9873.0	4.60	226.70	9866.6	-45.5	25.2	37.9	45.5	56.36	0.99
9965.0	5.00	240.70	9958.3	-37.8	20.7	31.7	37.8	56.84	1.34
10026.0	4.90	237.90	10019.1	-32.6	18.0	27.2	32.6	56.44	0.43
10087.0	4.10	238.60	10079.9	-27.8	15.5	23.1	27.8	56.14	1.31
10180.0	4.50	240.30	10172.7	-20.8	12.0	17.1	20.8	55.02	0.45
10270.0	4.00	237.40	10262.4	-14.1	8.5	11.4	14.2	53.18	0.60
10364.0	3.60	238.90	10356.2	-7.9	5.2	6.1	8.0	49.35	0.44
10457.0	2.30	236.50	10449.1	-3.1	2.7	2.0	3.4	37.05	1.40
10548.0	1.90	237.40	10540.0	0.2	0.9	-0.8	1.2	318.35	0.44
10643.0	1.30	240.80	10635.0	2.9	-0.5	-3.0	3.1	260.44	0.64
10736.0	0.30	221.10	10728.0	4.1	-1.2	-4.1	4.3	253.62	1.10
10831.0	0.40	230.90	10823.0	4.7	-1.6	-4.5	4.8	250.51	0.12
10923.0	0.70	252.10	10915.0	5.6	-2.0	-5.3	5.7	249.58	0.39
10954.0	0.70	250.00	10946.0	5.9	-2.1	-5.7	6.1	249.67	0.08





Scientific
Drilling

Field: Wildcat
Site: Chaves County, NM
Well: Rio "22" Fed. #1
Wellpath: DH - Job #32D0502160
Survey: 5/15/02-5/27/02

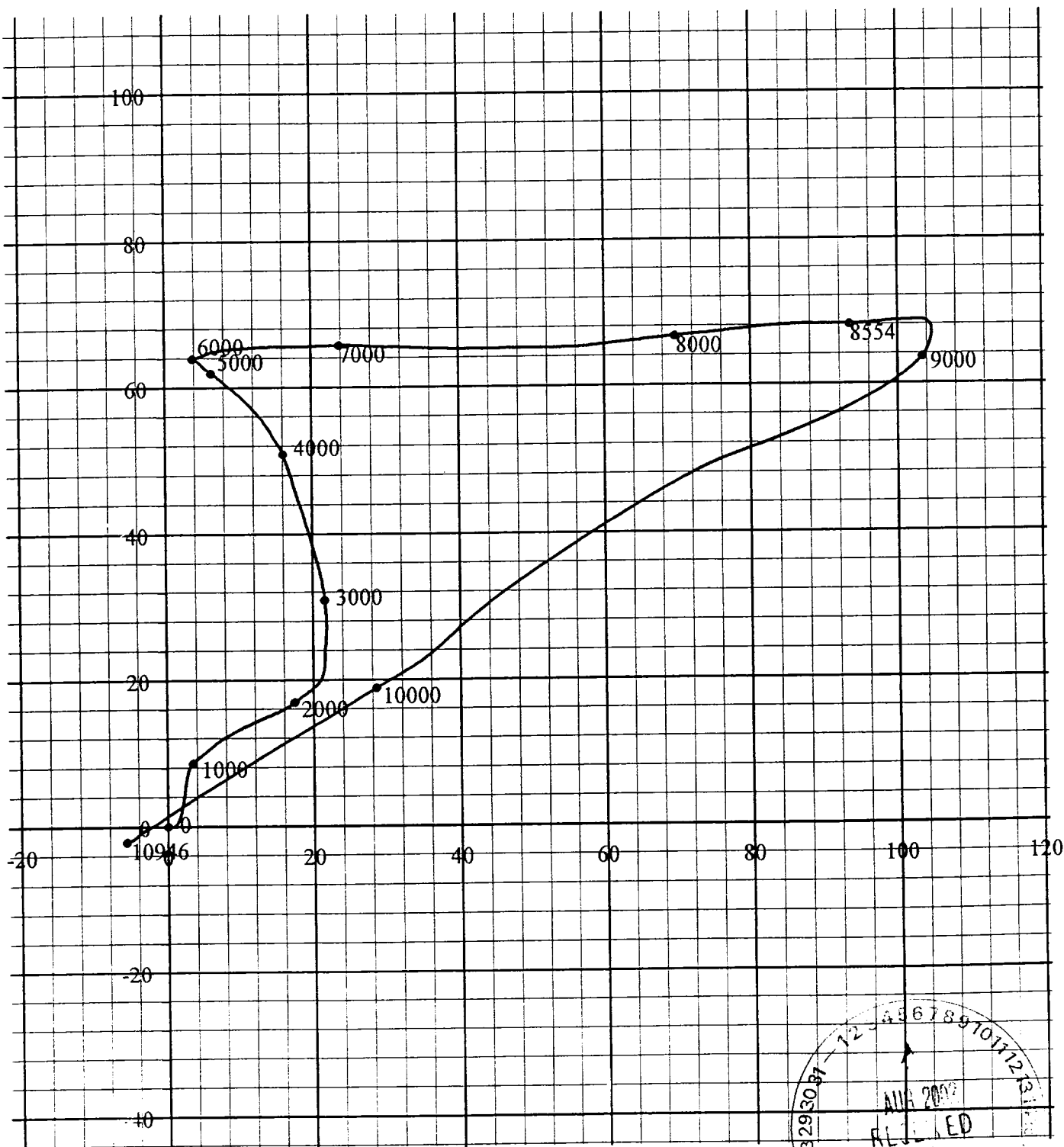
T/M



All Angles Relative
To True North

True North: 0.00
Magnetic North: 0.00

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]