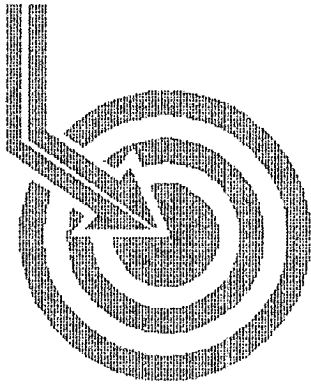




Scientific Drilling

J CLEO THOMPSON

Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020
Survey: 01/06/05

Sidetrack 1



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

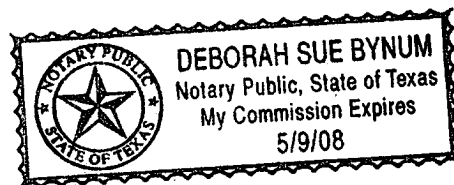
[Signature]

.....Company Representative

Notorized this date 7th of February, 2005.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005 Time: 20:41:46 Page: 1
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,63.51Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/06/05 Start Date: 1/6/2005
KSRG 0'-10700'
Company: Scientific Drilling Internatio Engineer: Gonzales w/P&M
Tool: Keeper;Keeper Gyro Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.11	249.67	100.00	-0.10	-0.03	-0.09	0.11	0.10	249.67
200.00	0.07	333.17	200.00	-0.19	-0.01	-0.21	0.12	0.21	266.64
300.00	0.36	271.76	300.00	-0.47	0.05	-0.55	0.33	0.55	275.41
400.00	0.25	1.55	400.00	-0.64	0.28	-0.86	0.44	0.90	288.07
500.00	0.22	326.46	500.00	-0.56	0.66	-0.96	0.14	1.16	304.49
600.00	0.32	319.39	600.00	-0.66	1.03	-1.25	0.11	1.62	309.59
700.00	0.25	313.90	699.99	-0.80	1.39	-1.58	0.08	2.11	311.33
800.00	0.17	327.81	799.99	-0.88	1.67	-1.82	0.09	2.47	312.53
900.00	0.59	47.64	899.99	-0.40	2.14	-1.52	0.58	2.63	324.66
1000.00	0.51	41.22	999.99	0.50	2.82	-0.85	0.10	2.95	343.34
1100.00	0.49	45.13	1099.98	1.32	3.46	-0.25	0.04	3.47	355.88
1200.00	0.34	28.69	1199.98	1.97	4.02	0.20	0.19	4.03	2.80
1300.00	0.64	47.99	1299.98	2.75	4.66	0.75	0.34	4.72	9.20
1400.00	0.58	36.87	1399.97	3.74	5.44	1.47	0.13	5.63	15.16
1500.00	0.49	47.73	1499.97	4.61	6.13	2.09	0.14	6.48	18.85
1600.00	0.51	30.08	1599.96	5.39	6.80	2.63	0.15	7.29	21.16
1700.00	0.24	49.14	1699.96	5.96	7.32	3.01	0.29	7.92	22.37
1800.00	0.30	3.37	1799.96	6.30	7.72	3.19	0.22	8.35	22.43
1900.00	0.11	354.65	1899.96	6.46	8.08	3.19	0.19	8.69	21.57
2000.00	0.26	356.02	1999.96	6.58	8.40	3.17	0.15	8.98	20.67
2100.00	0.29	9.29	2099.96	6.82	8.88	3.19	0.07	9.43	19.79
2200.00	0.18	6.93	2199.96	7.05	9.28	3.25	0.11	9.84	19.32
2300.00	0.17	341.72	2299.96	7.16	9.58	3.23	0.08	10.11	18.62
2400.00	0.23	347.76	2399.96	7.23	9.92	3.14	0.06	10.40	17.56
2500.00	0.26	241.64	2499.96	7.05	10.00	2.90	0.39	10.41	16.14
2600.00	0.16	169.91	2599.96	6.79	9.76	2.72	0.26	10.13	15.57
2700.00	0.31	206.77	2699.95	6.53	9.38	2.62	0.21	9.74	15.62
2800.00	0.18	183.51	2799.95	6.24	8.98	2.49	0.16	9.32	15.50
2900.00	0.24	73.86	2899.95	6.36	8.88	2.68	0.35	9.28	16.80
3000.00	0.51	82.27	2999.95	6.99	9.00	3.32	0.27	9.60	20.27
3100.00	0.98	78.20	3099.94	8.24	9.24	4.60	0.47	10.32	26.49
3200.00	0.99	75.71	3199.93	9.91	9.62	6.28	0.04	11.49	33.12
3300.00	1.16	58.42	3299.91	11.76	10.37	7.98	0.36	13.08	37.58
3400.00	1.30	64.06	3399.89	13.91	11.39	9.86	0.18	15.07	40.87
3500.00	1.35	64.80	3499.86	16.22	12.39	11.95	0.05	17.21	43.95
3600.00	1.32	64.29	3599.83	18.55	13.39	14.05	0.03	19.41	46.37
3700.00	1.25	61.98	3699.81	20.79	14.40	16.05	0.09	21.57	48.09
3800.00	1.28	63.63	3799.78	23.00	15.41	18.01	0.05	23.71	49.45
3900.00	1.37	50.72	3899.76	25.28	16.67	19.94	0.31	25.99	50.11
4000.00	2.11	51.13	3999.71	28.24	18.58	22.30	0.74	29.02	50.20
4100.00	2.63	44.97	4099.62	32.22	21.36	25.35	0.58	33.15	49.89
4200.00	2.58	46.47	4199.52	36.54	24.53	28.61	0.08	37.68	49.39
4300.00	2.71	48.59	4299.41	40.98	27.64	32.01	0.16	42.29	49.19
4400.00	2.45	55.86	4399.31	45.38	30.41	35.55	0.42	46.78	49.46
4500.00	2.26	63.40	4499.23	49.47	32.49	39.08	0.36	50.82	50.26
4600.00	2.22	63.21	4599.15	53.38	34.24	42.58	0.04	54.64	51.19
4700.00	2.01	68.99	4699.08	57.06	35.75	45.94	0.30	58.21	52.11
4800.00	1.67	70.42	4799.03	60.26	36.86	48.95	0.34	61.28	53.02



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005

Time: 20:31:43

Page: 2

Co-ordinate(NE) Reference:

Site: Lea County, NM, Grid North

Vertical (TVD) Reference:

SITE 0.0

Section (VS) Reference:

Well (0.00N,0.00E,63.51Azi)

Survey Calculation Method:

Minimum Curvature

Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.38	61.72	4899.00	62.91	37.92	51.39	0.37	63.86	53.57
5000.00	1.11	68.26	4998.97	65.08	38.85	53.35	0.30	65.99	53.93
5100.00	0.83	77.61	5098.96	66.74	39.37	54.95	0.32	67.60	54.38
5200.00	0.93	69.43	5198.95	68.25	39.81	56.42	0.16	69.05	54.80
5300.00	0.98	80.55	5298.93	69.88	40.23	58.02	0.19	70.61	55.26
5400.00	0.79	62.01	5398.92	71.38	40.70	59.48	0.34	72.07	55.62
5500.00	0.84	53.40	5498.91	72.80	41.46	60.67	0.13	73.48	55.66
5600.00	0.94	82.75	5598.90	74.29	42.00	62.08	0.46	74.95	55.92
5700.00	0.84	53.96	5698.89	75.79	42.53	63.48	0.45	76.41	56.18
5800.00	1.13	64.02	5798.87	77.50	43.40	64.96	0.34	78.12	56.26
5900.00	1.32	70.40	5898.85	79.63	44.21	66.93	0.23	80.22	56.55
6000.00	1.30	79.42	5998.83	81.86	44.81	69.13	0.21	82.38	57.05
6100.00	1.69	74.13	6098.79	84.40	45.42	71.67	0.41	84.85	57.63
6200.00	1.45	83.29	6198.75	87.04	45.97	74.34	0.35	87.41	58.27
6300.00	1.73	80.26	6298.72	89.68	46.37	77.09	0.29	89.96	58.97
6400.00	1.69	86.25	6398.67	92.48	46.73	80.04	0.18	92.68	59.73
6500.00	1.63	74.37	6498.63	95.24	47.21	82.89	0.35	95.39	60.34
6600.00	1.46	77.62	6598.59	97.87	47.86	85.50	0.19	97.98	60.76
6700.00	1.73	86.77	6698.55	100.49	48.22	88.25	0.37	100.57	61.35
6800.00	1.65	73.55	6798.51	103.30	48.71	91.14	0.40	103.34	61.88
6900.00	1.73	88.14	6898.47	106.09	49.17	94.03	0.44	106.11	62.39
7000.00	1.74	85.41	6998.42	108.87	49.34	97.05	0.08	108.87	63.05
7100.00	1.64	79.00	7098.38	111.66	49.73	99.97	0.21	111.66	63.55
7200.00	1.77	78.78	7198.33	114.53	50.31	102.89	0.13	114.53	63.94
7300.00	1.79	85.76	7298.29	117.46	50.72	105.96	0.22	117.48	64.42
7400.00	1.69	91.88	7398.24	120.20	50.79	108.99	0.21	120.25	65.01
7500.00	1.69	83.91	7498.20	122.88	50.90	111.93	0.23	122.96	65.55
7600.00	1.81	81.27	7598.15	125.77	51.30	114.96	0.14	125.88	65.95
7700.00	1.86	86.97	7698.10	128.76	51.62	118.14	0.19	128.93	66.40
7800.00	1.73	84.97	7798.05	131.66	51.84	121.26	0.14	131.88	66.85
7900.00	1.74	83.09	7898.00	134.49	52.15	124.28	0.06	134.78	67.23
8000.00	1.89	84.21	7997.95	137.46	52.50	127.42	0.15	137.82	67.61
8100.00	1.63	81.96	8097.91	140.36	52.87	130.47	0.27	140.78	67.94
8200.00	1.48	78.52	8197.87	142.95	53.32	133.15	0.18	143.43	68.17
8300.00	1.30	88.03	8297.84	145.23	53.62	135.55	0.29	145.77	68.42
8400.00	1.17	70.84	8397.82	147.28	53.99	137.64	0.39	147.86	68.58
8500.00	0.96	71.29	8497.80	149.12	54.60	139.40	0.21	149.71	68.61
8600.00	0.84	69.16	8597.79	150.68	55.13	140.88	0.12	151.28	68.63
8700.00	0.41	46.28	8697.78	151.75	55.64	141.82	0.49	152.35	68.58
8800.00	0.35	33.91	8797.78	152.36	56.14	142.25	0.10	152.93	68.46
8900.00	0.35	20.26	8897.78	152.84	56.68	142.53	0.08	153.38	68.31
9000.00	0.41	30.75	8997.78	153.37	57.27	142.82	0.09	153.87	68.15
9100.00	0.56	12.43	9097.77	153.98	58.05	143.11	0.21	154.43	67.92
9200.00	0.56	15.34	9197.77	154.61	59.00	143.34	0.03	155.01	67.63
9300.00	0.60	22.57	9297.76	155.33	59.96	143.67	0.08	155.68	67.35
9400.00	0.88	13.77	9397.75	156.22	61.19	144.05	0.30	156.51	66.99
9500.00	0.96	20.01	9497.74	157.33	62.72	144.52	0.13	157.55	66.54
9600.00	1.12	41.70	9597.72	158.84	64.24	145.46	0.42	159.01	66.17
9700.00	1.27	41.46	9697.70	160.78	65.80	146.84	0.15	160.91	65.86
9800.00	1.25	39.27	9797.68	162.80	67.47	148.27	0.05	162.90	65.53
9900.00	1.19	38.58	9897.66	164.73	69.13	149.61	0.06	164.81	65.20
10000.00	1.21	41.95	9997.63	166.66	70.73	150.96	0.07	166.71	64.90



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005

Time: 20:31:43

Page: 3

Co-ordinate(NE) Reference:

Site: Lea County, NM, Grid North

Vertical (TVD) Reference:

SITE 0.0

Section (VS) Reference:

Well (0.00N,0.00E,63.51Azi)

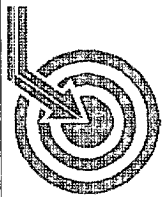
Survey Calculation Method:

Minimum Curvature

Db: Sybase

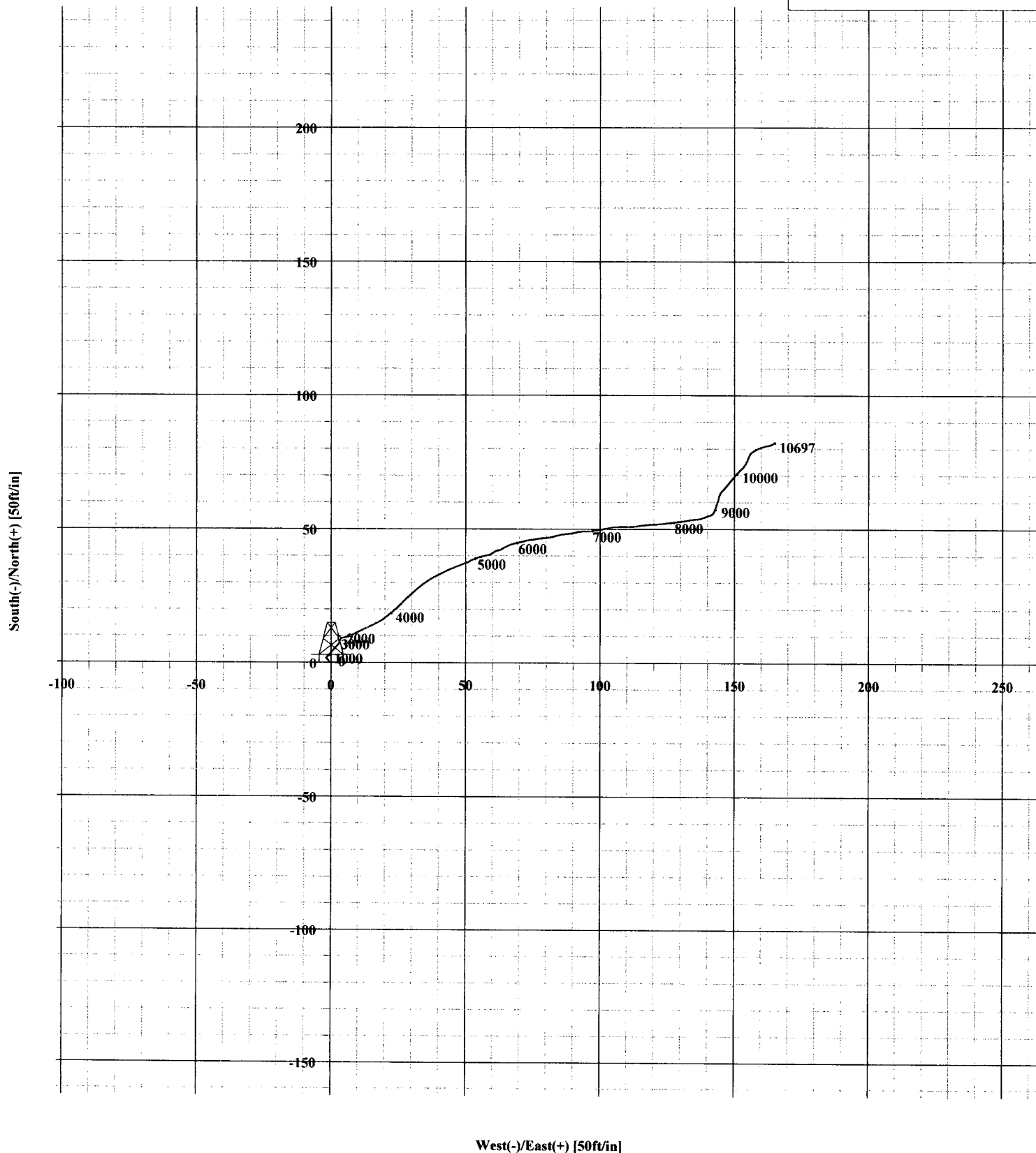
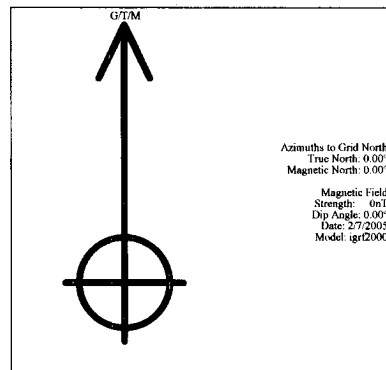
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10100.00	1.20	48.20	10097.61	168.65	72.21	152.45	0.13	168.68	64.65
10200.00	1.40	34.16	10197.59	170.72	73.92	153.91	0.37	170.74	64.35
10300.00	2.01	19.62	10297.54	173.05	76.58	155.19	0.74	173.05	63.74
10400.00	1.62	56.59	10397.50	175.72	79.01	156.96	1.21	175.72	63.28
10500.00	1.90	68.16	10497.45	178.78	80.41	159.68	0.45	178.78	63.27
10600.00	1.65	81.93	10597.40	181.79	81.22	162.64	0.49	181.79	63.46
10700.00	1.38	48.28	10697.37	184.32	82.23	164.96	0.91	184.32	63.51



Scientific
Drilling

Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020
Survey: 01/06/05





Scientific Drilling

J CLEO THOMPSON

Sidetrack 2

Field: Knowles, N.

Site: Lea County, NM

Well: Lawrence #1

Wellpath: VH - Job #32K0105020

Survey: 01/06/05

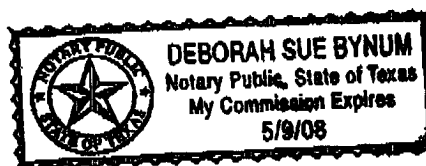
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 7th of February, 2005.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005 Time: 20:41:46 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,63.51Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/06/05

Start Date: 1/6/2005

KSRG 0'-10700'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Gonzales w/P&M
Tied-to: From Surface

Survey

MD ft	Incl deg	Azm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.11	249.67	100.00	-0.10	-0.03	-0.09	0.11	0.10	249.67
200.00	0.07	333.17	200.00	-0.19	-0.01	-0.21	0.12	0.21	266.64
300.00	0.36	271.76	300.00	-0.47	0.05	-0.55	0.33	0.55	275.41
400.00	0.25	1.55	400.00	-0.64	0.28	-0.86	0.44	0.90	288.07
500.00	0.22	326.46	500.00	-0.56	0.66	-0.96	0.14	1.16	304.49
600.00	0.32	319.39	600.00	-0.66	1.03	-1.25	0.11	1.62	309.59
700.00	0.25	313.90	699.99	-0.80	1.39	-1.58	0.08	2.11	311.33
800.00	0.17	327.81	799.99	-0.88	1.67	-1.82	0.09	2.47	312.53
900.00	0.59	47.64	899.99	-0.40	2.14	-1.52	0.58	2.63	324.66
1000.00	0.51	41.22	999.99	0.50	2.82	-0.85	0.10	2.95	343.34
1100.00	0.49	45.13	1099.98	1.32	3.46	-0.25	0.04	3.47	355.88
1200.00	0.34	28.69	1199.98	1.97	4.02	0.20	0.19	4.03	2.80
1300.00	0.64	47.99	1299.98	2.75	4.66	0.75	0.34	4.72	9.20
1400.00	0.58	36.87	1399.97	3.74	5.44	1.47	0.13	5.63	15.16
1500.00	0.49	47.73	1499.97	4.61	6.13	2.09	0.14	6.48	18.85
1600.00	0.51	30.08	1599.96	5.39	6.80	2.63	0.15	7.29	21.16
1700.00	0.24	49.14	1699.96	5.96	7.32	3.01	0.29	7.92	22.37
1800.00	0.30	3.37	1799.96	6.30	7.72	3.19	0.22	8.35	22.43
1900.00	0.11	354.65	1899.96	6.46	8.08	3.19	0.19	8.69	21.57
2000.00	0.26	356.02	1999.96	6.58	8.40	3.17	0.15	8.98	20.67
2100.00	0.29	9.29	2099.96	6.82	8.88	3.19	0.07	9.43	19.79
2200.00	0.18	6.93	2199.96	7.05	9.28	3.25	0.11	9.84	19.32
2300.00	0.17	341.72	2299.96	7.16	9.58	3.23	0.08	10.11	18.62
2400.00	0.23	347.76	2399.96	7.23	9.92	3.14	0.06	10.40	17.56
2500.00	0.26	241.64	2499.96	7.05	10.00	2.90	0.39	10.41	16.14
2600.00	0.16	139.91	2599.96	6.79	9.76	2.72	0.26	10.13	15.57
2700.00	0.31	208.77	2699.95	6.53	9.38	2.62	0.21	9.74	15.62
2800.00	0.18	183.51	2799.95	6.24	8.98	2.49	0.16	9.32	15.50
2900.00	0.24	73.86	2899.95	6.36	8.88	2.68	0.35	9.28	16.80
3000.00	0.51	32.27	2999.95	6.99	9.00	3.32	0.27	9.60	20.27
3100.00	0.98	78.20	3099.94	8.24	9.24	4.60	0.47	10.32	26.49
3200.00	0.99	75.71	3199.93	9.91	9.62	6.28	0.04	11.49	33.12
3300.00	1.16	58.42	3299.91	11.76	10.37	7.98	0.36	13.08	37.58
3400.00	1.30	34.08	3399.89	13.91	11.39	9.86	0.18	15.07	40.87
3500.00	1.35	54.80	3499.86	16.22	12.39	11.95	0.05	17.21	43.95
3600.00	1.32	54.29	3599.83	18.55	13.39	14.05	0.03	19.41	46.37
3700.00	1.25	51.98	3699.81	20.79	14.40	16.05	0.09	21.57	48.09
3800.00	1.28	53.63	3799.78	23.00	15.41	18.01	0.05	23.71	49.45
3900.00	1.37	50.72	3899.76	25.28	16.67	19.94	0.31	25.99	50.11
4000.00	2.11	51.13	3999.71	28.24	18.58	22.30	0.74	29.02	50.20
4100.00	2.63	44.97	4099.62	32.22	21.36	25.35	0.58	33.15	49.89
4200.00	2.58	46.47	4199.52	36.54	24.53	28.61	0.08	37.68	49.39
4300.00	2.71	48.59	4299.41	40.98	27.64	32.01	0.16	42.29	49.19
4400.00	2.45	55.88	4399.31	45.38	30.41	35.55	0.42	46.78	49.46
4500.00	2.26	53.40	4499.23	49.47	32.49	39.08	0.36	50.82	50.26
4600.00	2.22	53.21	4599.15	53.38	34.24	42.58	0.04	54.64	51.19
4700.00	2.01	58.99	4699.08	57.06	35.75	45.94	0.30	58.21	52.11
4800.00	1.67	70.42	4799.03	60.26	36.86	48.95	0.34	61.28	53.02



Scientific
Drilling

Scientific Drilling International Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005 Time: 20:41:46 Page: 2
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,63.51Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azimuth deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	Clad ft	Clad deg
4900.00	1.38	61.72	4899.00	62.91	37.92	51.39	0.37	63.86	53.57
5000.00	1.11	58.26	4998.97	65.08	38.85	53.35	0.30	65.99	53.93
5100.00	0.83	57.61	5098.98	66.74	39.37	54.95	0.32	67.60	54.38
5200.00	0.93	59.43	5198.85	68.25	39.81	56.42	0.16	69.05	54.80
5300.00	0.98	60.55	5298.93	69.88	40.23	58.02	0.19	70.61	55.26
5400.00	0.79	62.01	5398.92	71.38	40.70	59.48	0.34	72.07	55.62
5500.00	0.84	63.40	5498.91	72.80	41.46	60.67	0.13	73.48	55.66
5600.00	0.84	62.75	5598.90	74.29	42.00	62.08	0.46	74.95	55.92
5700.00	0.84	63.96	5698.89	75.79	42.53	63.48	0.45	76.41	56.18
5800.00	1.13	64.02	5798.87	77.50	43.40	64.96	0.34	78.12	56.26
5900.00	1.32	70.40	5898.85	79.63	44.21	66.93	0.23	80.22	56.55
6000.00	1.30	79.42	5998.83	81.86	44.81	69.13	0.21	82.38	57.05
6100.00	1.69	74.13	6098.79	84.40	45.42	71.67	0.41	84.85	57.63
6200.00	1.45	83.29	6198.75	87.04	45.97	74.34	0.35	87.41	58.27
6300.00	1.73	90.26	6298.72	89.68	46.37	77.09	0.29	89.96	58.97
6400.00	1.69	96.25	6398.67	92.48	46.73	80.04	0.18	92.68	59.73
6500.00	1.63	74.37	6498.63	95.24	47.21	82.89	0.35	95.39	60.34
6600.00	1.46	77.62	6598.59	97.87	47.86	85.50	0.19	97.98	60.76
6700.00	1.73	86.77	6698.55	100.49	48.22	88.25	0.37	100.57	61.35
6800.00	1.65	73.55	6798.51	103.30	48.71	91.14	0.40	103.34	61.88
6900.00	1.73	88.14	6898.47	106.09	49.17	94.03	0.44	106.11	62.39
7000.00	1.74	95.41	6998.42	108.87	49.34	97.05	0.08	108.87	63.05
7100.00	1.84	79.00	7098.38	111.66	49.73	99.97	0.21	111.66	63.55
7200.00	1.77	78.78	7198.33	114.53	50.31	102.89	0.13	114.53	63.94
7300.00	1.79	85.76	7298.29	117.46	50.72	105.96	0.22	117.48	64.42
7400.00	1.69	91.88	7398.24	120.20	50.79	108.99	0.21	120.25	65.01
7500.00	1.69	83.91	7498.20	122.88	50.90	111.93	0.23	122.96	65.56
7600.00	1.81	81.27	7598.15	125.77	51.30	114.96	0.14	125.88	65.95
7700.00	1.86	86.97	7698.10	128.76	51.62	118.14	0.19	128.93	66.40
7800.00	1.73	84.97	7798.05	131.66	51.84	121.26	0.14	131.88	66.85
7900.00	1.74	83.09	7898.00	134.49	52.15	124.28	0.06	134.78	67.23
8000.00	1.89	84.21	7997.95	137.46	52.50	127.42	0.15	137.82	67.61
8100.00	1.63	81.96	8097.91	140.36	52.87	130.47	0.27	140.78	67.94
8200.00	1.48	78.52	8197.87	142.95	53.32	133.15	0.18	143.43	68.17
8300.00	1.30	88.03	8297.84	145.23	53.62	135.55	0.29	145.77	68.42
8400.00	1.17	70.84	8397.82	147.28	53.99	137.64	0.39	147.86	68.58
8500.00	0.96	71.29	8497.80	149.12	54.60	139.40	0.21	149.71	68.61
8600.00	0.84	69.16	8597.79	150.68	55.13	140.88	0.12	151.28	68.63
8700.00	0.41	46.28	8697.78	151.75	55.64	141.82	0.49	152.35	68.58
8800.00	0.35	83.91	8797.78	152.36	56.14	142.25	0.10	152.93	68.46
8900.00	0.35	20.26	8897.78	152.84	56.68	142.53	0.08	153.38	68.31
9000.00	0.41	30.75	8997.78	153.37	57.27	142.82	0.09	153.87	68.15
9100.00	0.56	12.43	9097.77	153.98	58.05	143.11	0.21	154.43	67.92
9200.00	0.56	15.34	9197.77	154.81	59.00	143.34	0.03	155.01	67.63
9300.00	0.60	22.57	9297.76	155.33	59.96	143.67	0.08	155.68	67.35
9400.00	0.68	13.77	9397.75	156.22	61.19	144.05	0.30	156.51	66.99
9500.00	0.96	20.01	9497.74	157.33	62.72	144.52	0.13	157.55	66.54
9600.00	1.12	41.70	9597.72	158.84	64.24	145.48	0.42	159.01	66.17
9700.00	1.27	41.46	9697.70	160.78	65.80	146.84	0.15	160.91	65.86
9800.00	1.25	39.27	9797.68	162.80	67.47	148.27	0.05	162.90	65.53
9900.00	1.19	38.58	9897.66	164.73	69.13	149.61	0.06	164.81	65.20
10000.00	1.21	41.95	9997.63	166.66	70.73	150.96	0.07	166.71	64.90



Scientific
Drilling

Scientific Drilling International Survey Report

Company: J CLEO THOMPSON
Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020

Date: 2/7/2005 Time: 20:31:43
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,63.51Azi)
Survey Calculation Method: Minimum Curvature

Page: 3
Db: Sybase

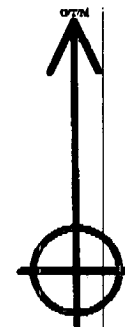
Survey

MD ft	Incl deg	Azi deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClbD ft	ClbA deg
10100.00	1.20	48.20	10097.61	168.85	72.21	152.45	0.13	168.68	64.65
10200.00	1.40	34.16	10197.59	170.72	73.92	153.91	0.37	170.74	64.36
10300.00	2.01	19.62	10297.54	173.05	76.58	155.19	0.74	173.05	63.74
10400.00	1.62	56.59	10397.50	175.72	79.01	156.96	1.21	175.72	63.28
10500.00	1.90	68.16	10497.45	178.78	80.41	159.68	0.45	178.78	63.27
10600.00	1.65	61.93	10597.40	181.79	81.22	162.64	0.49	181.79	63.46
10700.00	1.38	48.28	10697.37	184.32	82.23	164.96	0.91	184.32	63.51

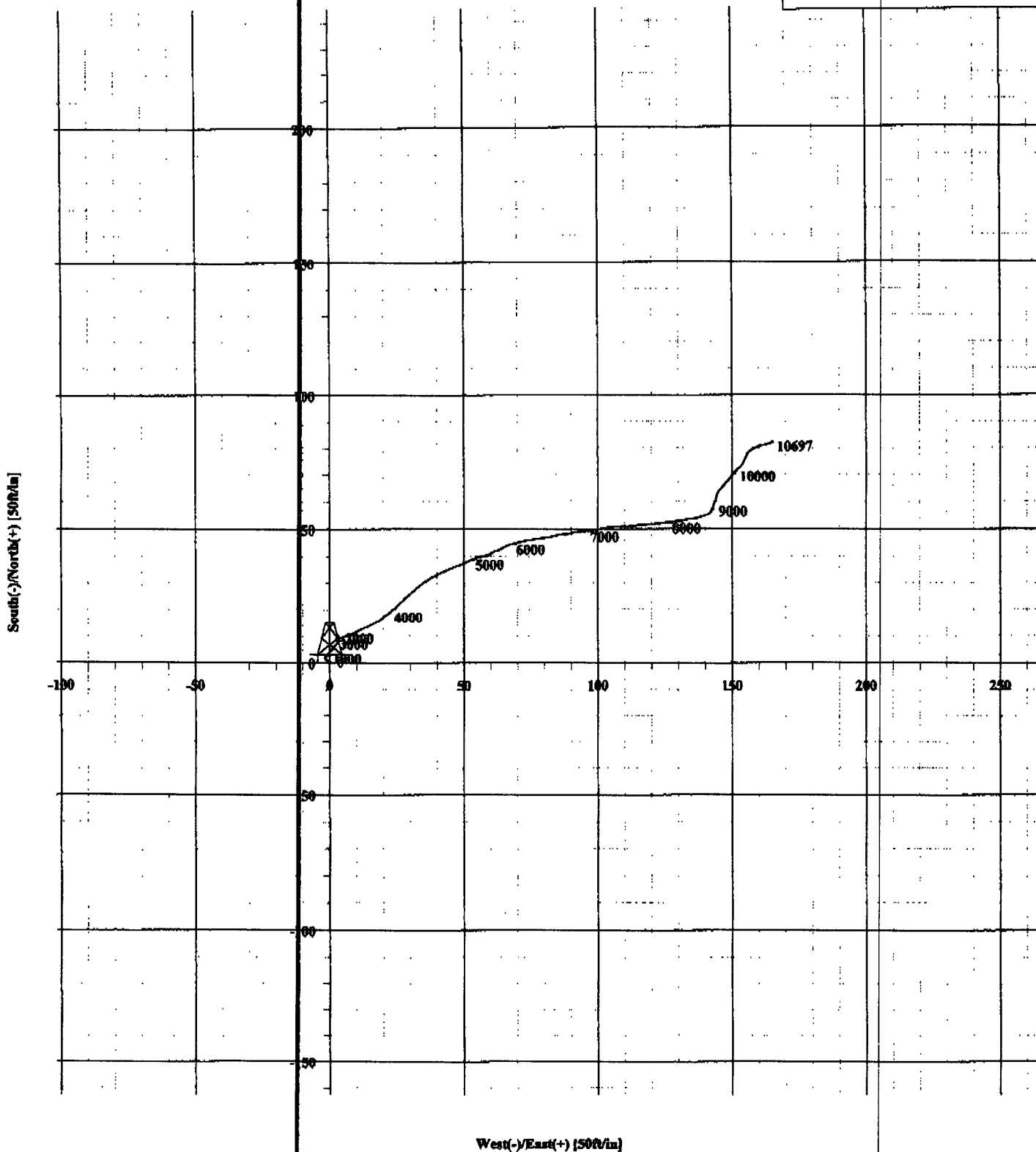


**Scientific
Drilling**

Field: Knowles, N.
Site: Lea County, NM
Well: Lawrence #1
Wellpath: VH - Job #32K0105020
Survey: 01/06/05



Actuals to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.0 T
Dip Angle: 0.00°
Date: 07/2005
Model: g2000





FINAL SURVEYS

FOR

J. CLEO THOMPSON

LAWRENCE #1H

FROM SURFACE LOCATION:

LEA COUNTY, NEW MEXICO

WELL FILE: 4003762C

MARCH 9, 2005

LEG 1

Side track 3

PRECISION ENERGY SERVICES USA, INC.
DRILLING & EVALUATION
9802 W. I-20
Midland, Texas
Phone: (432) 581-5500 Fax: (432) 581-5525

PRECISION ENERGY SERVICES

Client : J. CLEO THOMPSON
 Well Name : LAWRENCE #1
 Location : LEA COUNTY, NM

Page : 1 of 1
 Date : 3/9/2005
 File : 4003762C

KB Elevation : 3719.50

Gr Elevation : 3702.00

Vertical Section Calculated Along Azimuth 360°

All Bearings Are Along True North

MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
TIE-ON TO GYRO									
10700.00	1.38	48.28	10697.39	82.12	164.12	82.12	0.00	0.00	0.00
10854.00	4.80	329.80	10851.18	88.93	162.26	88.93	3.07	2.22	-50.96
10916.00	5.60	311.80	10912.93	93.19	158.70	93.19	2.91	1.29	-29.03
10980.00	7.20	301.40	10976.53	97.36	152.95	97.36	3.08	2.50	-16.25
11042.00	6.80	287.70	11038.08	100.50	146.14	100.50	2.76	-0.65	-22.10
11104.00	7.70	263.80	11099.59	101.16	138.51	101.16	5.03	1.45	-38.55
11168.00	7.90	244.40	11163.01	98.80	130.28	98.80	4.11	0.31	-30.31
11230.00	8.60	235.30	11224.37	94.32	122.62	94.32	2.39	1.13	-14.68
11293.00	8.30	232.90	11286.69	88.90	115.12	88.90	0.73	-0.48	-3.81
11357.00	6.50	228.50	11350.15	83.71	108.73	83.71	2.95	-2.81	-6.87
11420.00	5.90	228.80	11412.79	79.21	103.62	79.21	0.95	-0.95	0.48
11481.00	7.50	216.50	11473.37	73.95	98.89	73.95	3.51	2.62	-20.16
11544.00	6.90	218.30	11535.87	67.67	94.10	67.67	1.02	-0.95	2.86
11607.00	6.50	217.00	11598.44	61.85	89.61	61.85	0.68	-0.63	-2.06
11732.00	7.40	251.20	11722.58	53.61	77.73	53.61	3.33	0.72	27.36
11860.00	6.80	254.20	11849.59	48.89	62.63	48.89	0.55	-0.47	2.34
12019.00	5.90	204.60	12007.73	38.89	50.16	38.89	3.38	-0.57	-31.19
12082.00	7.10	217.70	12070.33	32.86	46.43	32.86	3.02	1.90	20.79
12145.00	6.10	226.20	12132.91	27.46	41.64	27.46	2.22	-1.59	13.49
12208.00	6.20	214.60	12195.55	22.35	37.29	22.35	1.98	0.16	-18.41
12271.00	6.60	210.60	12258.16	16.43	33.51	16.43	0.95	0.63	-6.35
12334.00	6.70	221.20	12320.74	10.55	29.25	10.55	1.95	0.16	16.83
12397.00	5.50	239.70	12383.38	6.26	24.22	6.26	3.63	-1.90	29.37
12468.00	4.80	251.10	12454.10	3.58	18.47	3.58	1.74	-0.99	16.06
12530.00	3.30	261.20	12515.94	2.47	14.26	2.47	2.67	-2.42	16.29
12618.00	2.90	251.70	12603.81	1.38	9.64	1.38	0.74	-0.45	-10.80
12680.00	3.00	252.90	12665.73	0.41	6.60	0.41	0.19	0.16	1.94
12743.00	1.50	239.10	12728.68	-0.50	4.32	-0.50	2.51	-2.38	-21.90
12805.00	0.10	208.00	12790.68	-0.96	3.59	-0.96	2.28	-2.26	-50.16
12844.00	0.70	31.20	12829.67	-0.79	3.70	-0.79	2.05	1.54	-453.33
EXT. TOTAL DEPTH									
12884.00	0.70	31.20	12869.67	-0.37	3.95	-0.37	0.00	0.00	0.00

Bottom Hole Closure 3.97ft Along Azimuth 95.37°



FINAL SURVEYS

FOR

J. CLEO THOMPSON

LAWRENCE #1H

FROM SURFACE LOCATION:

LEA COUNTY, NEW MEXICO

WELL FILE: 4003762C1

MARCH 9, 2005

SIDETRACK

PRECISION ENERGY SERVICES USA, INC.
DRILLING & EVALUATION
9802 W. I-20
Midland, Texas
Phone: (432) 561-5500 Fax: (432) 561-5525

PRECISION ENERGY SERVICES

Client : J. CLEO THOMPSON
 Well Name : LAWRENCE #1
 Location : LEA COUNTY, N.M.

Page : 1 of 1
 Date : 3/9/2005
 File : 4003762C1

KB Elevation : 3719.5

Gr Elevation : 3702.00

Vertical Section Calculated Along Azimuth 360°

All Bearings Are Along True North

MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
TIE-ON SURVEY									
11732.00	7.40	251.20	11722.58	53.61	77.73	53.61	0.00	0.00	0.00
11836.00	7.80	254.30	11825.67	49.54	64.60	49.54	0.55	0.38	2.98
11868.00	7.20	257.30	11857.39	48.51	60.55	48.51	2.24	-1.88	9.38
11929.00	6.50	260.20	11917.96	47.09	53.42	47.09	1.28	-1.15	4.75
11992.00	5.10	261.90	11980.63	46.08	47.13	46.08	2.24	-2.22	2.70
12056.00	4.00	240.20	12044.44	44.57	42.38	44.57	3.16	-1.72	-33.91
12116.00	3.80	214.10	12104.30	41.89	39.45	41.89	2.95	-0.33	-43.50
12177.00	3.70	231.40	12165.17	38.99	36.77	38.99	1.85	-0.16	28.36
12241.00	2.20	246.20	12229.09	37.20	34.04	37.20	2.61	-2.34	23.13
EXT. TOTAL DEPTH									
12280.00	2.20	246.20	12268.06	36.60	32.67	36.60	0.00	0.00	0.00

Bottom Hole Closure 49.06ft Along Azimuth 41.75°