JW DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

December 26, 2013

HOBBS OCD

FEB 12 2014

RECEIVED

30-025-41365

CML Exploration
P.O. Box 890
Snyder, Texas 79550

Re: Harris #1
Sec. 8, T-10-S, R-38-E
Lea County, New Mexico

Attn: Nolan Von Roeder

The following is a Deviation Survey on the referenced well in Eddy County, New Mexico:

177' - 0.75°	2835' - 1°	6423' - 2.75°	8795' - 1.5°
426' - 1.75°	3304' - 1°	6611' - 0.75°	8950' - 2°
635' - 2°	3772' - 1°	7078' - 1.75°	9089' - 1.25°
887' - 1°	4086' - 0.75°	7547' - 0.75°	9432' - 1.25°
1175' - 1°	4552' - 0.5°	8017' - 2°	9837' - 4°
1425' - 1.5°	5020' - 0.25°	8357' - 2.25°	9959' - 3°
1924' - 0.75°	5487' - 1.25°	8576' - 3°	
2360' - 1.5°	5955' - 0.75°	8699' - 3.75°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 26th day of December, 2013 by Gary W. Chappell.

Cheryl A Bartlett
NOTARY PUBLIC

OFFICIAL SEAL
CHERYL A. BARTLETT
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires: 4-29-16

MAR 13 2014

Company: CML Exploration
Lease/Well: Harris/No 001
Location: Section 8 Township 10S Range 38E
Rig Name: J W 2
State/County: New Mexico/Lea
Latitude: 33.46, Longitude: -103.07
GRID North is 0.69 Degrees East of True North
VS-Azi: 0.00 Degrees

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 12/30/2013 / 08:33

Vaughn Energy Services
West Texas
432-563-5444
Surveyor: Ryan Langley
Harris No 001 / API 30-025-41365

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.94	127.36	100.00	-0.50	0.65	-0.50	0.82	127.36	0.94
200.00	1.06	132.69	199.98	-1.62	1.98	-1.62	2.56	129.29	0.15
300.00	1.01	124.65	299.96	-2.75	3.39	-2.75	4.36	129.07	0.15
400.00	0.95	132.33	399.95	-3.81	4.72	-3.81	6.07	128.87	0.15
500.00	0.71	125.31	499.94	-4.72	5.84	-4.72	7.51	128.95	0.26
600.00	0.78	123.39	599.93	-5.45	6.91	-5.45	8.80	128.27	0.07
700.00	0.66	118.65	699.92	-6.10	7.98	-6.10	10.04	127.39	0.13
800.00	0.45	124.88	799.92	-6.60	8.81	-6.60	11.01	126.85	0.21
900.00	0.23	103.74	899.92	-6.88	9.33	-6.88	11.59	126.39	0.25
1000.00	0.30	109.52	999.92	-7.01	9.77	-7.01	12.03	125.66	0.07
1100.00	0.26	116.18	1099.91	-7.20	10.23	-7.20	12.51	125.15	0.05
1200.00	0.23	122.84	1199.91	-7.41	10.60	-7.41	12.94	124.96	0.04
1300.00	0.34	173.73	1299.91	-7.82	10.80	-7.82	13.34	125.89	0.27
1400.00	0.46	224.62	1399.91	-8.40	10.56	-8.40	13.49	128.51	0.36
1500.00	0.53	225.96	1499.91	-9.00	9.95	-9.00	13.42	132.16	0.07
1600.00	0.60	227.29	1599.90	-9.68	9.23	-9.68	13.37	136.36	0.07
1700.00	0.56	224.64	1699.90	-10.38	8.51	-10.38	13.42	140.67	0.05
1800.00	0.52	222.00	1799.89	-11.06	7.86	-11.06	13.57	144.60	0.05
1900.00	0.59	204.12	1899.89	-11.87	7.35	-11.87	13.96	148.25	0.19

VES Survey Date: 12/4/2013

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2000.00	0.67	186.25	1999.88	-12.92	7.07	-12.92	14.73	151.31	0.21
2100.00	0.61	166.47	2099.87	-14.02	7.13	-14.02	15.73	153.04	0.23
2200.00	0.55	146.69	2199.87	-14.93	7.52	-14.93	16.72	153.28	0.21
2300.00	0.52	147.16	2299.87	-15.71	8.03	-15.71	17.64	152.94	0.02
2400.00	0.50	147.62	2399.86	-16.46	8.51	-16.46	18.53	152.68	0.02
2500.00	0.57	136.56	2499.86	-17.19	9.08	-17.19	19.44	152.16	0.12
2600.00	0.63	125.49	2599.85	-17.87	9.87	-17.87	20.41	151.09	0.13
2700.00	0.47	138.69	2699.85	-18.50	10.59	-18.50	21.32	150.21	0.20
2800.00	0.31	141.88	2799.84	-19.03	11.03	-19.03	21.99	149.89	0.16
2900.00	0.25	152.60	2899.84	-19.43	11.30	-19.43	22.48	149.82	0.08
3000.00	0.18	153.32	2999.84	-19.77	11.47	-19.77	22.86	149.87	0.07
3100.00	0.13	140.95	3099.84	-20.00	11.62	-20.00	23.13	149.85	0.06
3200.00	0.08	128.58	3199.84	-20.13	11.74	-20.13	23.30	149.75	0.06
3300.00	0.30	130.50	3299.84	-20.34	11.99	-20.34	23.61	149.48	0.22
3400.00	0.52	152.42	3399.84	-20.91	12.40	-20.91	24.31	149.34	0.27
3500.00	0.59	160.69	3499.83	-21.80	12.78	-21.80	25.27	149.62	0.10
3600.00	0.66	168.96	3599.83	-22.85	13.06	-22.85	26.32	150.25	0.11
3700.00	0.34	96.84	3699.83	-23.45	13.47	-23.45	27.04	150.13	0.64
3800.00	0.03	94.73	3799.82	-23.49	13.79	-23.49	27.24	149.58	0.31
3900.00	0.20	89.46	3899.82	-23.49	14.00	-23.49	27.34	149.21	0.17
4000.00	0.37	84.19	3999.82	-23.45	14.49	-23.45	27.57	148.29	0.17
4100.00	0.26	87.62	4099.82	-23.41	15.04	-23.41	27.83	147.28	0.11
4200.00	0.15	81.05	4199.82	-23.38	15.40	-23.38	28.00	146.63	0.11
4300.00	0.37	81.63	4299.82	-23.31	15.85	-23.31	28.19	145.78	0.22
4400.00	0.59	82.21	4399.82	-23.20	16.68	-23.20	28.57	144.27	0.22
4500.00	0.38	88.76	4499.81	-23.12	17.53	-23.12	29.01	142.83	0.22
4600.00	0.17	35.31	4599.81	-22.99	17.95	-22.99	29.17	142.02	0.31
4700.00	0.28	73.23	4699.81	-22.80	18.27	-22.80	29.22	141.29	0.18
4800.00	0.40	111.15	4799.81	-22.85	18.83	-22.85	29.61	140.50	0.25
4900.00	0.32	172.75	4899.81	-23.26	19.19	-23.26	30.15	140.47	0.37
5000.00	0.25	234.34	4999.81	-23.66	19.05	-23.66	30.38	141.16	0.30
5100.00	0.45	164.57	5099.81	-24.17	18.98	-24.17	30.73	141.86	0.43
5200.00	0.65	94.80	5199.80	-24.60	19.65	-24.60	31.49	141.38	0.65
5300.00	0.61	18.22	5299.80	-24.14	20.39	-24.14	31.60	139.82	0.78
5400.00	0.56	301.65	5399.79	-23.38	20.14	-23.38	30.86	139.26	0.72
5500.00	0.45	348.20	5499.79	-22.74	19.64	-22.74	30.05	139.18	0.41
5600.00	0.34	324.76	5599.79	-22.12	19.39	-22.12	29.42	138.76	0.19
5700.00	0.32	317.53	5699.79	-21.68	19.04	-21.68	28.85	138.71	0.05
5800.00	0.29	300.29	5799.78	-21.34	18.63	-21.34	28.33	138.89	0.09
5900.00	0.36	311.89	5899.78	-21.01	18.17	-21.01	27.78	139.13	0.09

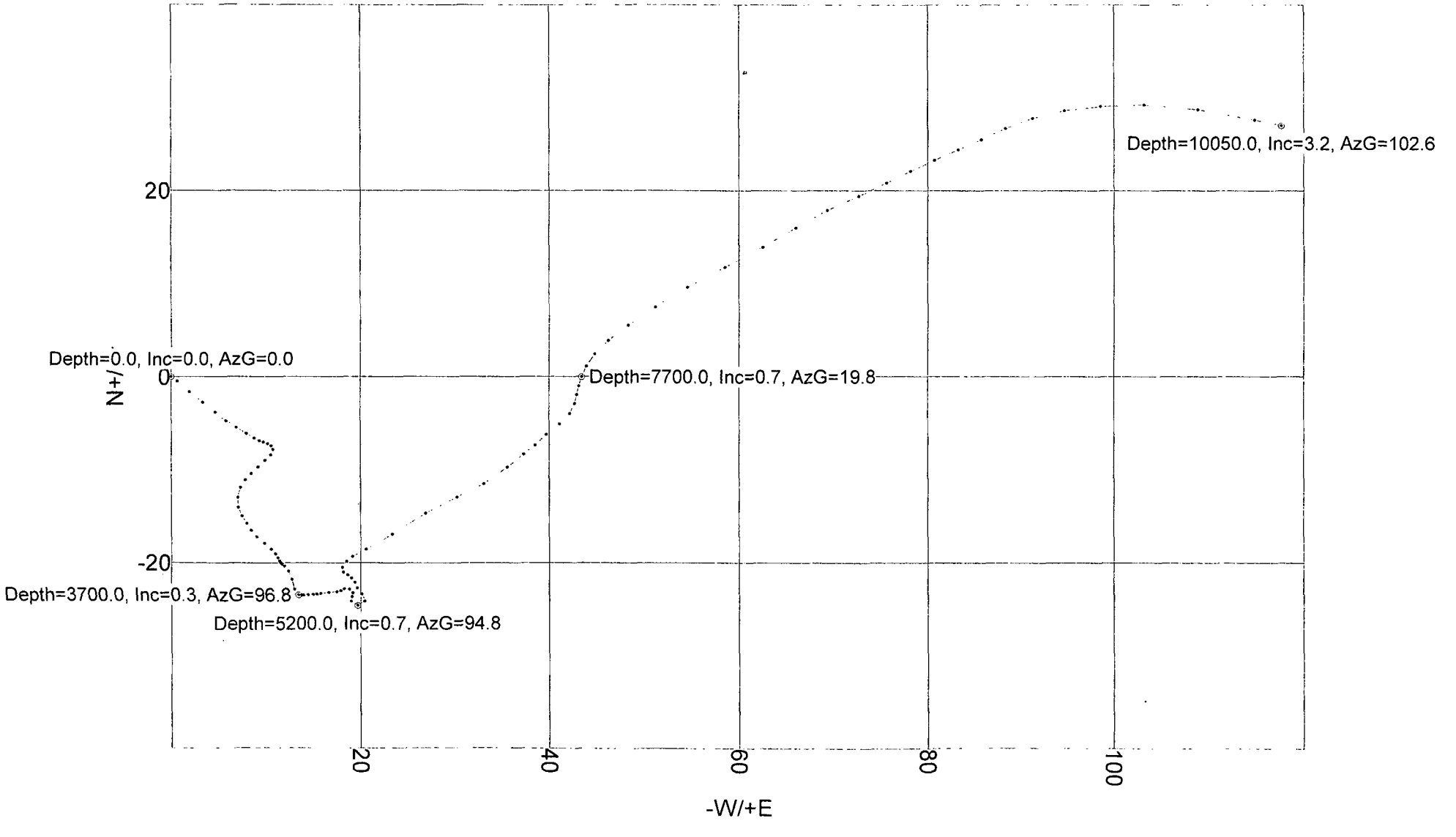
VES Survey Date: 12/4/2013

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
6000.00	0.42	23.50	5999.78	-20.46	18.09	-20.46	27.31	138.52	0.46
6100.00	0.45	47.35	6099.78	-19.85	18.52	-19.85	27.15	136.98	0.18
6200.00	0.47	51.20	6199.77	-19.33	19.14	-19.33	27.20	135.28	0.04
6300.00	1.39	63.83	6299.76	-18.53	20.55	-18.53	27.67	132.05	0.93
6400.00	2.31	56.45	6399.71	-16.88	23.31	-16.88	28.78	125.91	0.94
6500.00	2.53	59.42	6499.62	-14.65	26.89	-14.65	30.62	118.58	0.26
6600.00	1.77	66.64	6599.55	-12.92	30.21	-12.92	32.85	113.15	0.81
6700.00	1.89	59.24	6699.50	-11.46	33.04	-11.46	34.97	109.13	0.26
6800.00	1.63	50.52	6799.45	-9.72	35.55	-9.72	36.85	105.29	0.37
6900.00	0.89	52.95	6899.42	-8.34	37.27	-8.34	38.19	102.62	0.74
7000.00	0.91	48.11	6999.41	-7.35	38.47	-7.35	39.17	100.81	0.08
7100.00	0.98	46.06	7099.40	-6.23	39.68	-6.23	40.16	98.92	0.08
7200.00	1.05	54.01	7199.38	-5.09	41.04	-5.09	41.35	97.08	0.16
7300.00	0.81	33.72	7299.37	-3.97	42.17	-3.97	42.36	95.37	0.41
7400.00	0.56	13.42	7399.36	-2.90	42.68	-2.90	42.78	93.89	0.34
7500.00	0.55	13.00	7499.36	-1.96	42.90	-1.96	42.95	92.61	0.01
7600.00	0.54	12.59	7599.35	-1.03	43.11	-1.03	43.12	91.37	0.01
7700.00	0.65	19.76	7699.35	-0.04	43.41	-0.04	43.41	90.05	0.14
7800.00	0.77	26.92	7799.34	1.10	43.90	1.10	43.92	88.57	0.15
7900.00	1.04	38.32	7899.33	2.41	44.77	2.41	44.84	86.92	0.32
8000.00	1.31	49.72	7999.31	3.86	46.21	3.86	46.37	85.22	0.35
8100.00	1.75	53.27	8099.27	5.52	48.31	5.52	48.62	83.48	0.45
8200.00	2.19	56.81	8199.21	7.48	51.13	7.48	51.68	81.68	0.46
8300.00	2.46	59.81	8299.13	9.60	54.59	9.60	55.42	80.02	0.29
8400.00	2.72	62.80	8399.03	11.77	58.55	11.77	59.72	78.64	0.30
8500.00	2.48	60.70	8498.92	13.91	62.54	13.91	64.07	77.46	0.26
8600.00	2.24	58.60	8598.84	15.98	66.10	15.98	68.00	76.40	0.26
8700.00	2.13	62.76	8698.77	17.85	69.42	17.85	71.68	75.58	0.19
8800.00	2.03	66.93	8798.70	19.40	72.70	19.40	75.24	75.06	0.18
8900.00	1.76	61.53	8898.65	20.82	75.67	20.82	78.49	74.62	0.32
9000.00	1.49	65.14	8998.61	22.10	78.20	22.10	81.26	74.22	0.29
9100.00	1.68	65.20	9098.57	23.26	80.71	23.26	84.00	73.92	0.19
9200.00	1.49	65.22	9198.53	24.42	83.22	24.42	86.73	73.65	0.19
9300.00	1.63	67.03	9298.49	25.52	85.72	25.52	89.44	73.42	0.15
9400.00	1.67	65.35	9398.45	26.69	88.35	26.69	92.29	73.19	0.06
9500.00	1.95	72.94	9498.40	27.79	91.30	27.79	95.44	73.07	0.37
9600.00	2.08	80.46	9598.34	28.59	94.72	28.59	98.94	73.20	0.30
9700.00	2.37	85.62	9698.26	29.05	98.57	29.05	102.77	73.58	0.34
9800.00	2.99	89.58	9798.15	29.23	103.24	29.23	107.30	74.19	0.65
9900.00	3.55	99.43	9897.99	28.74	108.90	28.74	112.63	75.22	0.79

VES Survey Date: 12/4/2013

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
10000.00	3.41	101.88	9997.81	27.62	114.87	27.62	118.15	76.48	0.20
10050.00	3.17	102.64	10047.73	27.01	117.68	27.01	120.74	77.07	0.49

Vaughn Energy Services
West Texas
432-563-5444
Surveyor: Ryan Langley
Harris No 001 / API 30-025-41365



VES Survey Date: 12/4/2013

RIG
TESTERS, INC.

HOBBS OCD

FEB 12 2014

RECEIVED

COMPANY	: CML EXPLORATION, LLC	TEST DATE	: 12/14/13
LEASE	: HARRIS	D.S.T. NO.	: 1
WELL NO.	: # 1	TEST TKT. NO.	: 27023
FIELD	: SAWYER (S DEV)	INVOICE NO.	: 24866
COUNTY/STATE	: LEA / NEW MEXICO	ORDER NO.	:

FORMATION	: DEVONIAN	HOLE SIZE (in)	: 8.750	ANCHOR LENGTH (ft)	: 110
INTERVAL (ft)	: 12038 TO 12148	DRILL PIPE ID (in)	: 3.82	TOOL LENGTH (ft)	: 56
TOTAL DEPTH (ft)	: 12148	DRILL COLLAR ID(in)	: 2.25	TOOL O.D. (in)	: 5
ELEVATION (ft)	:	DRILL COLLAR feet	: 512	PACKER SIZE (in)	: 7.50

RECORDER DATA

AK-1KUSTER / STELLAR

TOP RECORDER: IN		BOTTOM RECORDER: OUT	
RECORDER NO.	: 40165	RECORDER NO.	: 13546
CAPACITY (psi)	: 10000	CAPACITY (psi)	: 8125
DEPTH (ft)	: 12042	DEPTH (ft)	: 12148
CLOCK NO.	: 40165	CLOCK NO.	: 24853
DURATION (hrs)	: 99	DURATION (hrs)	: 24

MUD PROPERTIES

MUD TYPE	: CUT BRINE	WATER LOSS (cc)	: 9.00	CHLORIDE PPM	: 87000
MUD WT. (#/gal)	: 10.0	FILTER CAKE (in)	: 1/32	RESISTIVITY(ohm-m)	: .050
		VISCOSITY (sec)	: 40		

EQUIPMENT DATA

CONVENTIONAL	: YES	ROTARY JARS	: YES	MULTIFLOW	: NO
STRADDLE	: NO	NO. OF PACKERS	: 2	MILEAGE	: NO
SELECTIVE ZONE	: NO	SAFETY JOINT	: YES	OPERATOR TIME	: YES
SAMPLE CHAMBER	: YES	CIRCULATING SUB	: YES	OTHER	: YES
GAS ANALYSIS	: NO	REVERSED OUT	: YES	STELLAR ELECTRONICS(2)	
SUCCESSFUL	: YES	PACKER FAILURE	: NO	TOOL PLUG	: NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED	: 2:50 PM	TOTAL TEST TIME	: 264
INITIAL FLOW	: 31	INITIAL SHUT-IN	: 60
SECOND FLOW	: 59	SECOND SHUT-IN	: 114
THIRD FLOW	:	THIRD SHUT IN	:

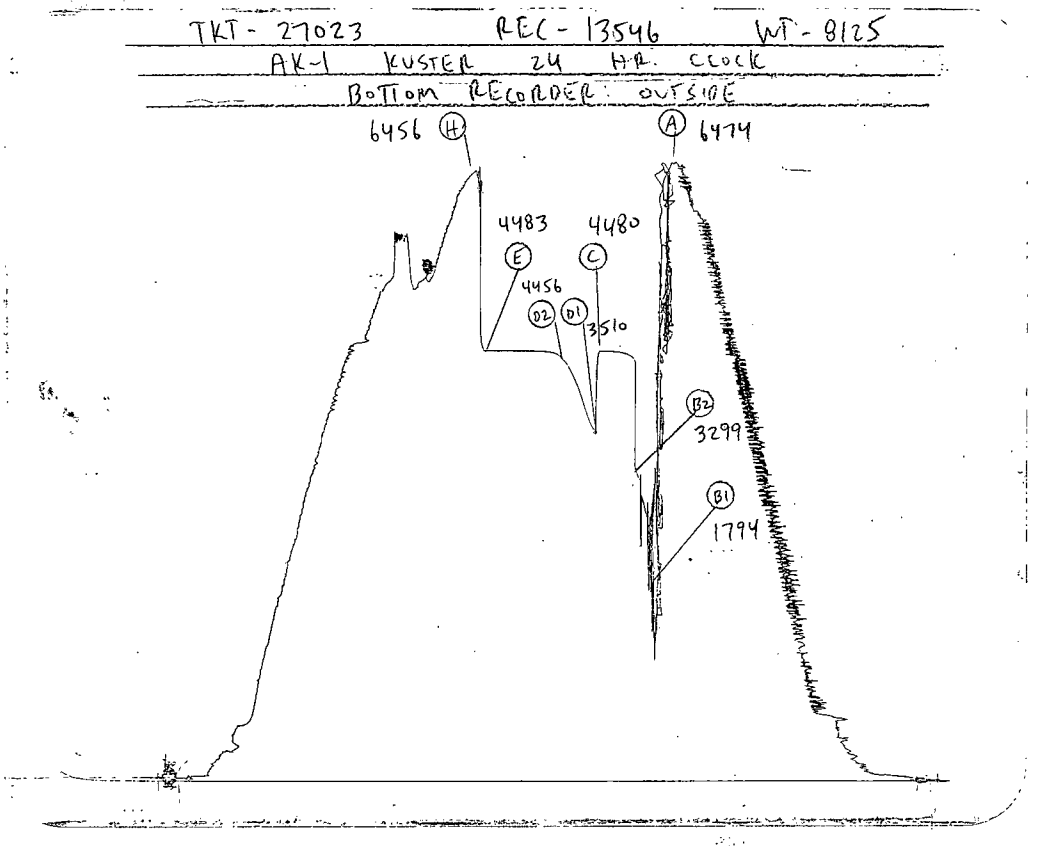
TEST TOOL OPERATOR: CHRIS PERRIN

CML EXPLORATION, LLC

TESTERS, INC.

HARRIS # 1
D.S.T. NO. :1

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	6425 PSI	6425 PSI
B-1	INITIAL FIRST FLOW :	1748 PSI	2489 PSI
B-2	FINAL FIRST FLOW :	3250 PSI	3192 PSI
C	FIRST SHUT-IN :	4432 PSI	4432 PSI
D-1	INITIAL SECOND FLOW:	3461 PSI	3595 PSI
D-2	FINAL SECOND FLOW :	4408 PSI	4427 PSI
E	SECOND SHUT-IN :	4434 PSI	4433 PSI
H	FINAL HYDROSTATIC :	6407 PSI	6377 PSI



RECOVERY DATA

PIPE RECOVERY

(RAN 1500 FT. OF FRESH WATER BLANKET)

PULLED TO FLUID @ 10000 FT. & REVERSED TO PIT AN EST;
1147 FT. OF FRESH WATER BLANKET (16.85 BBLS)
8763 FT. OF SULPHUR WATER (123 BBLS)
41,000 MG/L CHLORIDES- .092 OHMS @ 85 DEGREES
90 FT. OF SULPHUR WATER- BELOW CIRC SUB
41,000 MG/L CHLORIDES- .092 OHMS @ 85 DEGREES

B.H. TEMP. (deg F) : 187

SAMPLE CHAMBER

2000 LBS. OF PRESSURE
0.00 CU. FT. OF GAS
2200 CC'S OF SULPHUR WATER
41,000 MG/L CHLORIDES
.092 OHMS @ 85 DEGREES

TEST REMARKS

TOOL OPENED WITH A GOOD BLOW (BOTTOM OF BUCKET) IN 1 MIN. & REMAINED THROUGHOUT THE 30 MIN. FIRST FLOW. REOPENED TOOL WITH A GOOD BLOW (BOTTOM OF BUCKET) IN 1 MIN. & REMAINED THROUGHOUT THE 60 MIN. FINAL FLOW PERIOD.

Company Name	CML EXPLORATION, LLC
Well Name	HARRIS #1
Type of Test	DST #1 (12,038-12,148 FT.; DEVONIAN)
Date(s) of Test	12-14-13

RIG TESTERS, INC. RECORDER# 40165

RIG TESTERS, INC.

Company Name	CML EXPLORATION, LLC
Well Name	HARRIS #1
Type of Test	DST #1 (12,038-12,148 FT.; DEVONIAN)
Date(s) of Test	12-14-13

RIG TESTERS, INC. RECORDER# 40164

CML EXPLORATION, LLC

TESTERS, INC.

HARRIS # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 40165 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 12042 ft

ELAPSED TIME	TOTAL FLOW TIME, T	INCREMENTAL SHUT-IN TIME,DT	(T+DT)/DT (HORNER)	PRESSURE	DELTA P
---MIN----	---MIN----	---MIN----	----------	---PSIG---	---PSIG---
		FIRST FLOW			
.0	.0			1748.40	.00
2.0	2.0			2292.37	543.97
4.0	4.0			2457.50	709.10
6.0	6.0			2493.30	744.90
8.0	8.0			2580.91	832.51
10.0	10.0			2598.50	850.10
12.0	12.0			2709.60	961.20
14.0	14.0			2745.55	997.15
16.0	16.0			2797.58	1049.18
18.0	18.0			2874.90	1126.50
20.0	20.0			2901.00	1152.60
22.0	22.0			2999.87	1251.47
24.0	24.0			3053.40	1305.00
26.0	26.0			3115.43	1367.03
28.0	28.0			3171.77	1423.37
30.0	30.0			3228.20	1479.80
31.2	31.2			3250.40	1502.00
		FIRST SHUT-IN			
31.2	31.2	.00	.000	3250.40	.00
32.2	31.2	1.00	32.200	4403.04	1152.64
33.2	31.2	2.00	16.600	4411.48	1161.08
34.2	31.2	3.00	11.400	4415.40	1165.00
35.2	31.2	4.00	8.800	4417.57	1167.17
36.2	31.2	5.00	7.240	4419.13	1168.73
37.2	31.2	6.00	6.200	4420.50	1170.10
38.2	31.2	7.00	5.457	4421.39	1170.99
39.2	31.2	8.00	4.900	4422.38	1171.98
40.2	31.2	9.00	4.467	4422.80	1172.40
41.2	31.2	10.00	4.120	4423.38	1172.98
43.2	31.2	12.00	3.600	4424.20	1173.80
45.2	31.2	14.00	3.229	4425.08	1174.68
47.2	31.2	16.00	2.950	4425.80	1175.40
49.2	31.2	18.00	2.733	4426.50	1176.10
51.2	31.2	20.00	2.560	4427.10	1176.70
54.2	31.2	23.00	2.357	4428.00	1177.60
57.2	31.2	26.00	2.200	4428.48	1178.08
60.2	31.2	29.00	2.076	4429.02	1178.62
63.2	31.2	32.00	1.975	4429.40	1179.00
66.2	31.2	35.00	1.891	4429.80	1179.40
69.2	31.2	38.00	1.821	4430.28	1179.88
72.2	31.2	41.00	1.761	4430.40	1180.00
75.2	31.2	44.00	1.709	4430.90	1180.50
78.2	31.2	47.00	1.664	4431.20	1180.80
81.2	31.2	50.00	1.624	4431.48	1181.08

CML EXPLORATION, LLC

RIG TESTERS, INC.

HARRIS # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 40165 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 12042 ft

ELAPSED TIME ---MIN----	TOTAL FLOW TIME, T ---MIN----	INCREMENTAL SHUT-IN TIME,DT ---MIN----	(T+DT)/DT (HORNER) ----------	PRESSURE ---PSIG---	DELTA P ---PSIG---
		FIRST SHUT-IN			
84.2	31.2	53.00	1.589	4431.80	1181.40
87.2	31.2	56.00	1.557	4432.02	1181.62
90.2	31.2	59.00	1.529	4432.10	1181.70
91.3	31.2	60.06	1.519	4432.40	1182.00
		SECOND FLOW			
91.5	31.4			3461.30	.00
94.5	34.4			3649.20	187.90
97.5	37.4			3623.60	162.30
100.5	40.4			3695.40	234.10
103.5	43.4			3765.90	304.60
106.5	46.4			3834.30	373.00
109.5	49.4			3903.00	441.70
112.5	52.4			3970.60	509.30
115.5	55.4			4029.00	567.70
118.5	58.4			4082.40	621.10
121.5	61.4			4132.40	671.10
124.5	64.4			4181.00	719.70
127.5	67.4			4222.20	760.90
130.5	70.4			4259.00	797.70
133.5	73.4			4291.60	830.30
136.5	76.4			4321.20	859.90
139.5	79.4			4346.40	885.10
142.5	82.4			4367.90	906.60
145.5	85.4			4385.70	924.40
148.5	88.4			4400.20	938.90
150.5	90.4			4408.20	946.90
		SECOND SHUT-IN			
150.5	90.4	.00	.000	4408.20	.00
151.5	90.4	1.00	91.420	4423.24	15.04
152.5	90.4	2.00	46.210	4425.03	16.83
153.5	90.4	3.00	31.140	4426.10	17.90
154.5	90.4	4.00	23.605	4426.59	18.39
155.5	90.4	5.00	19.084	4427.17	18.97
156.5	90.4	6.00	16.070	4427.80	19.60
157.5	90.4	7.00	13.917	4428.29	20.09
158.5	90.4	8.00	12.303	4428.60	20.40
159.5	90.4	9.00	11.047	4428.90	20.70
160.5	90.4	10.00	10.042	4429.19	20.99

CML EXPLORATION, LLC

RIG TESTERS, INC.

HARRIS # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

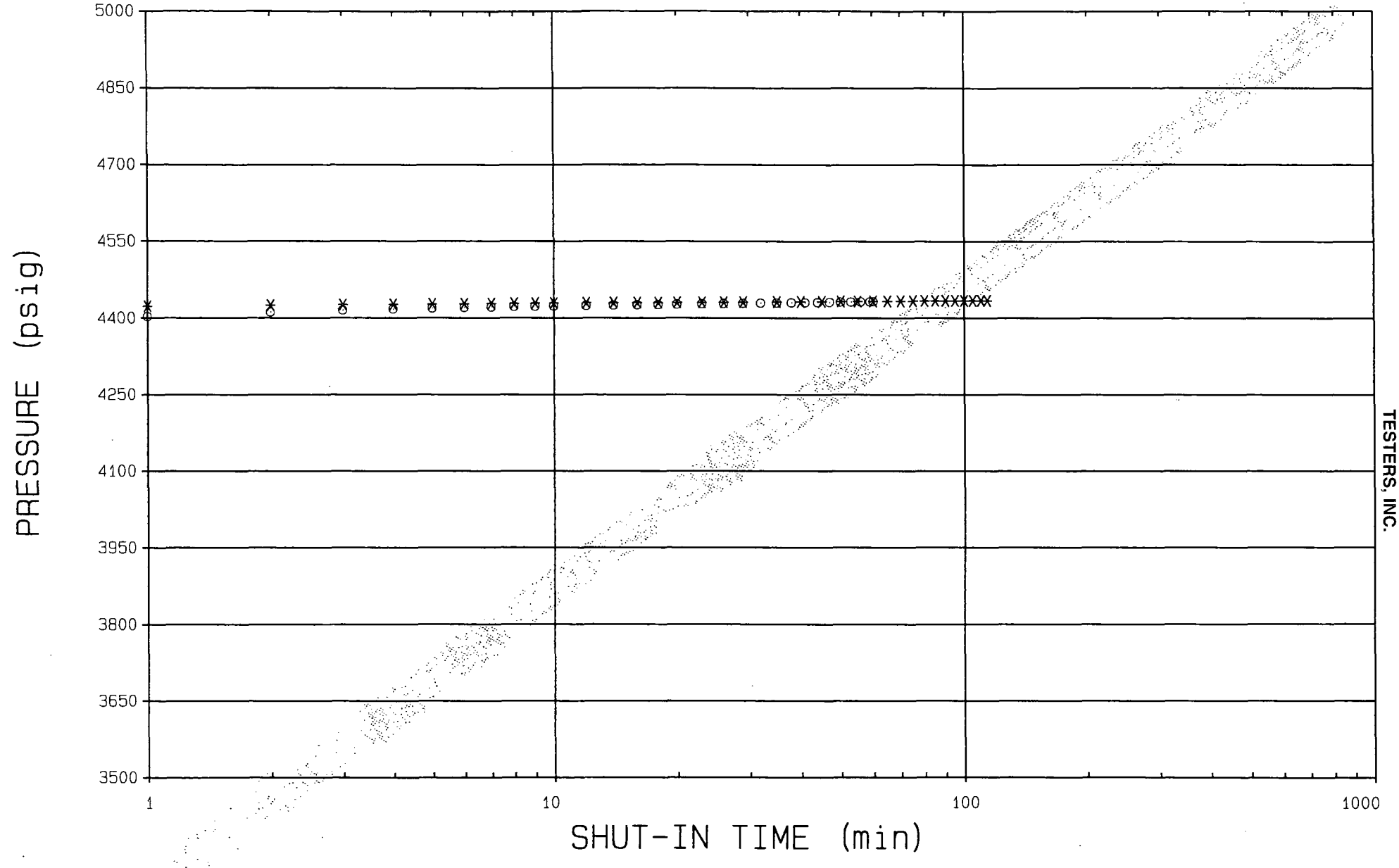
RECORDER NO : 40165 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 12042 ft

ELAPSED TIME	TOTAL FLOW TIME, T	INCREMENTAL SHUT-IN TIME,DT	(T+DT)/DT (HORNER)	PRESSURE	DELTA P
---MIN----	---MIN----	---MIN----	----------	---PSIG---	---PSIG---
		SECOND SHUT-IN			
162.5	90.4	12.00	8.535	4429.60	21.40
164.5	90.4	14.00	7.459	4429.97	21.77
166.5	90.4	16.00	6.651	4430.10	21.90
168.5	90.4	18.00	6.023	4430.20	22.00
170.5	90.4	20.00	5.521	4430.38	22.18
173.5	90.4	23.00	4.931	4430.60	22.40
176.5	90.4	26.00	4.478	4430.90	22.70
179.5	90.4	29.00	4.118	4431.10	22.90
185.5	90.4	35.00	3.583	4431.60	23.40
190.5	90.4	40.00	3.261	4431.99	23.79
195.5	90.4	45.00	3.009	4432.40	24.20
200.5	90.4	50.00	2.808	4432.60	24.40
205.5	90.4	55.00	2.644	4432.80	24.60
210.5	90.4	60.00	2.507	4433.00	24.80
215.5	90.4	65.00	2.391	4433.10	24.90
220.5	90.4	70.00	2.292	4433.30	25.10
225.5	90.4	75.00	2.206	4433.40	25.20
230.5	90.4	80.00	2.130	4433.70	25.50
235.5	90.4	85.00	2.064	4433.89	25.69
240.5	90.4	90.00	2.005	4434.00	25.80
245.5	90.4	95.00	1.952	4434.00	25.80
250.5	90.4	100.00	1.904	4434.10	25.90
255.5	90.4	105.00	1.861	4434.20	26.00
260.5	90.4	110.00	1.822	4434.28	26.08
264.5	90.4	114.00	1.793	4434.30	26.10

REMARKS

THE INCREMENTAL DATA, PLOTS & ANALYSIS ARE FROM THE ELECTRONIC RECORDER.
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION.
(DST PRESSURE ASCII FILES ARE AVAILABLE BY E-MAIL UPON REQUEST)

PRESSURE TIME



TESTERS, INC.

CML EXPLORATION, LLC

HARRIS # 1

○ FIRST SHUT-IN

* SECOND SHUT-IN

RIG TESTERS, INC.

Analysis comments	FINAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)

THE DERIVATIVES INDICATE A HETEROGENEOUS RESERVOIR WITH GOOD PERMEABILITY AND NO (NEGATIVE) SKIN. BOTH SHUT-IN PERIODS HAD ACHIEVED RADIAL FLOW WITH THE FLUCTUATIONS (DIP & RISE) FROM RADIAL BEING INDICATIVE OF A DUAL POROSITY RESPONSE. THIS IS NORMALLY DUE TO VUGULAR / FRACTURED POROSITY WITH-IN INTERVAL TESTED. A REGRESSION VERIFIED MODEL ANALYSIS WAS PERFORMED TO BETTER DETERMINE FORMATION PARAMETERS AND IS REPRESENTED BY A SOLID LINE PLOTTED OVER ACTUAL DATA.

THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 80 FT. OF NET PAY REPORTED AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 340 BWPD FOR THE FINAL FLOW PERIOD. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 516 FT. FROM WELLBORE.

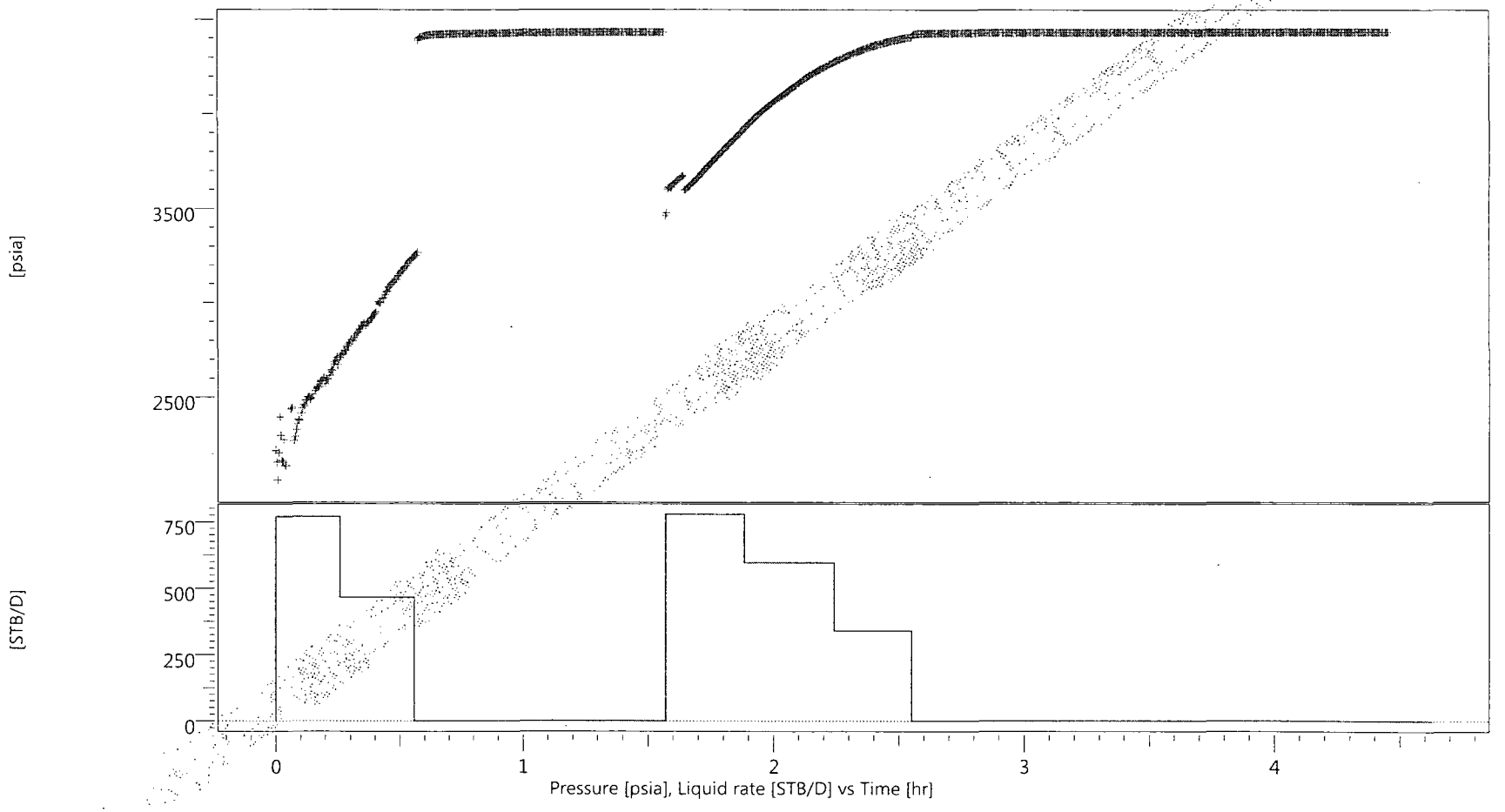
RIG TESTERS, INC.

Main results	FINAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)

Test date / time	12-14-13
Formation interval	12,038-12,148 FT.; DEVONIAN
Perforated interval	
Gauge type / #	STELLAR# 40165
Gauge depth	
Analyzed by	
Analysis date / time	
TEST TYPE	Standard
Porosity Phi (%)	12
Well Radius rw	0.364583 ft
Pay Zone h	80 ft
Form. compr.	3E-6 psi-1
Reservoir T	187 °F
Reservoir P	4435 psia
Fluid type	Water
Volume Factor B	1.0202 B/STB
Viscosity	0.372346 cp
Total Compr. ct	5.52365E-6 psi-1
Selected Model	
Model Option	Standard Model
Well	Vertical, Changing Storage (Fair)
Reservoir	Two porosity PSS
Boundary	Infinite

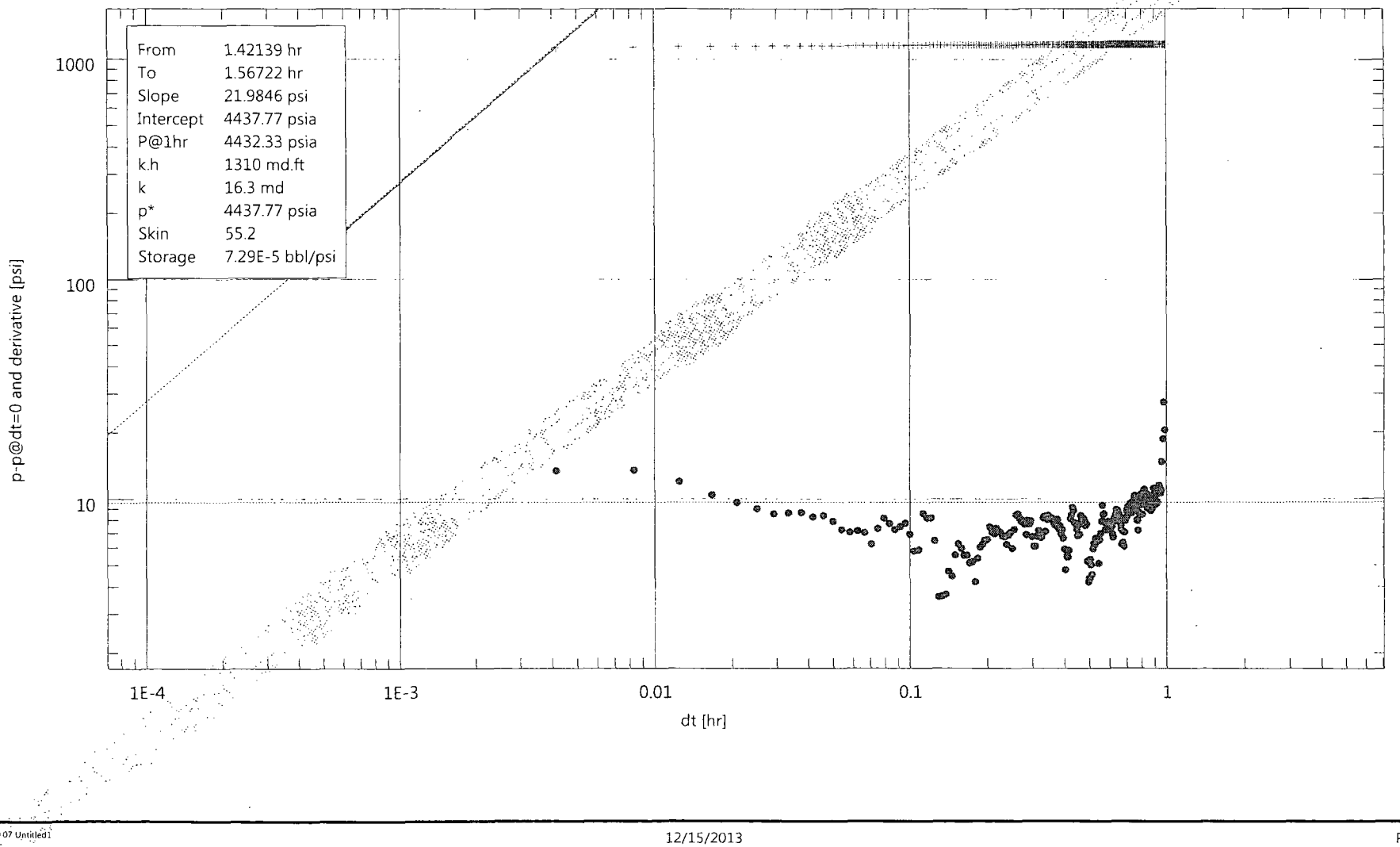
Derived & Secondary Parameters

History plot	Analysis 1
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)



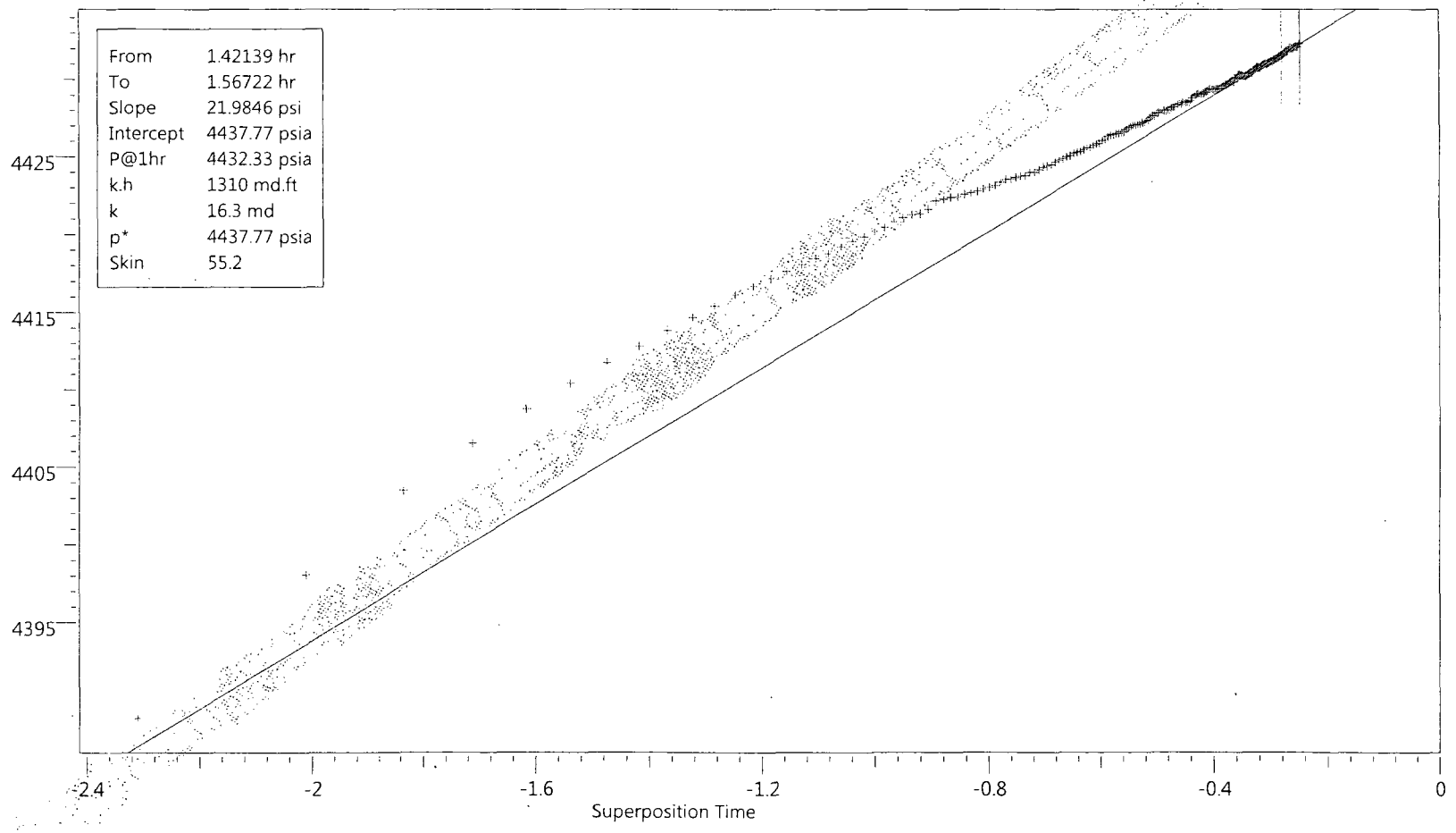
TESTERS, INC.

Log-Log plot	INITIAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)



TESTERS, INC.

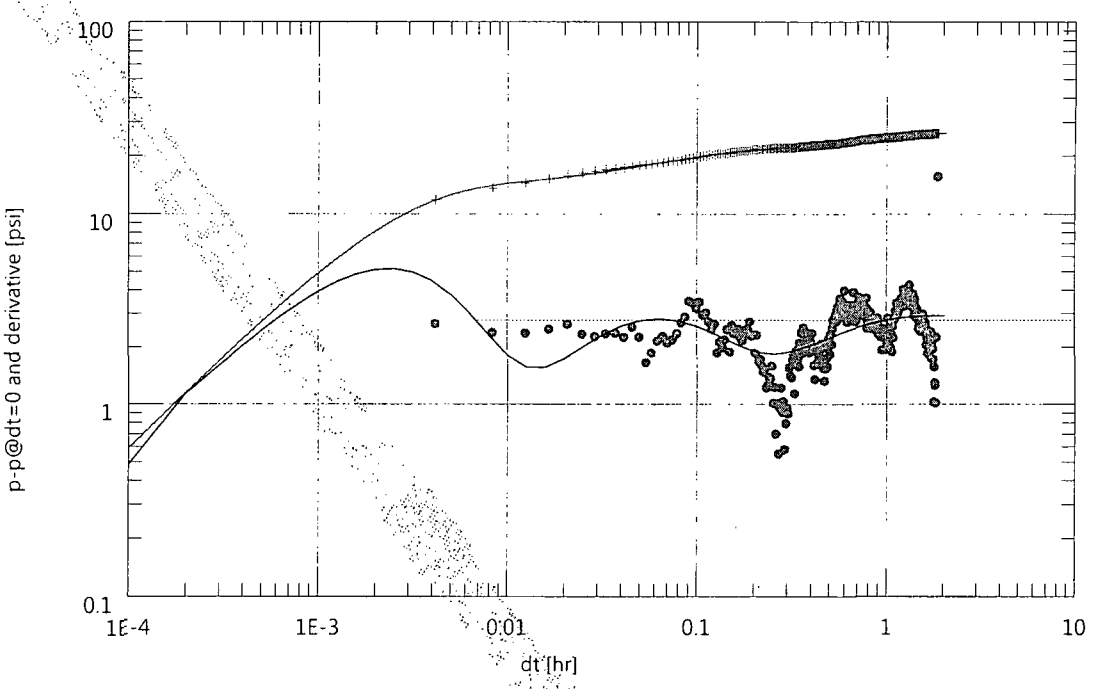
Semi-Log plot	INITIAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)



TESTERS, INC.

RIG TESTERS, INC.

Log-Log plot	FINAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)



CML1 build-up #2

Rate	0 STB/D
Rate change	339.789 STB/D
P@dt=0	4408.15 psia
Pi	4436.9 psia
Smoothing	0.08

Derived & Secondary Parameters

Rinv	516 ft

Selected Model

Model Option	Standard Model
Well	Vertical, Changing Storage (Fair)
Reservoir	Two porosity PSS
Boundary	Infinite

Model Parameters

Well & Wellbore parameters (HARRIS #1)

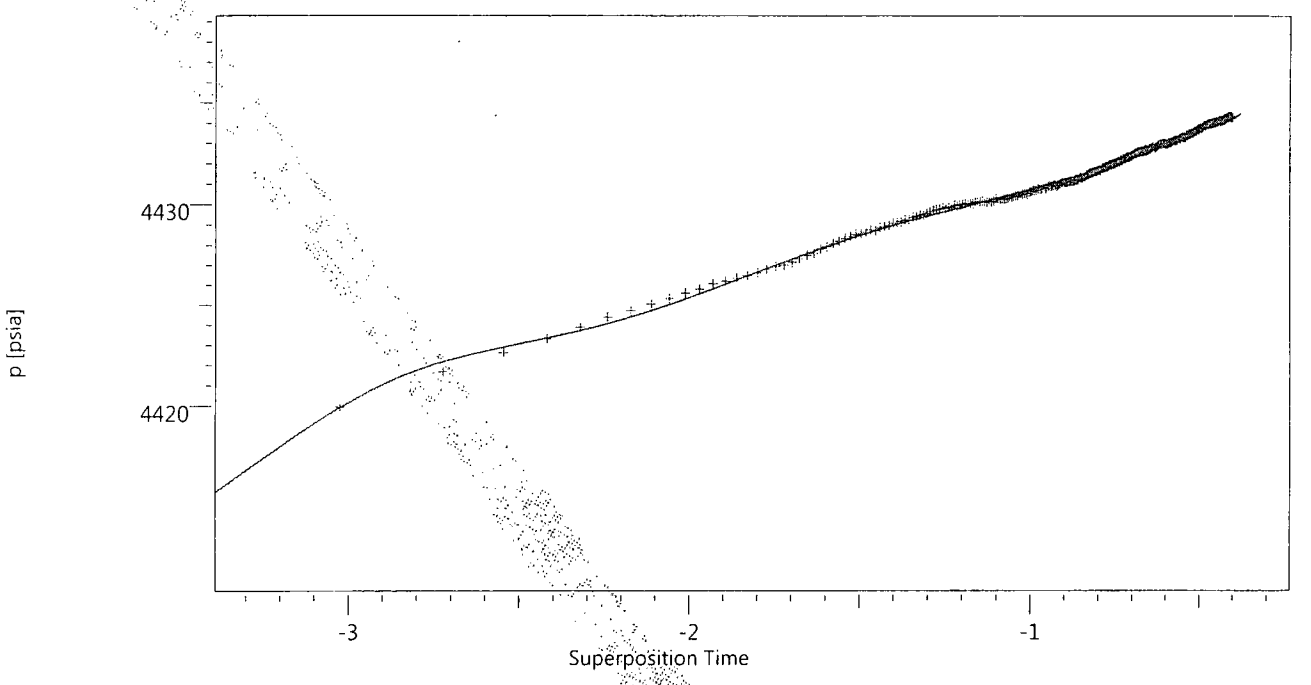
C	0.0363 bbl/psi
Ci/Cf	0.0661
delta_t	0.00788 hr
Skin	-2.22

Reservoir & Boundary parameters

Pi	4436.9 psia
k.h	3290 md.ft
k	41.2 md
Omega	0.0673
Lambda	8.69E-6

RIG TESTERS, INC.

Semi-Log plot	FINAL SHUT-IN PERIOD
Company CML EXPLORATION, LLC	Field SAWYER (S DEV)
Well HARRIS #1	Test Name / # DST #1 (12,038-12,148 FT.; DEVONIAN)



CML1 build-up #2

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Rate change	339.789 STB/D
P@dt=0	4408.15 psia
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Smoothing	0.08

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Well	Vertical, Changing Storage (Fair)
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k.h	3290 md.ft
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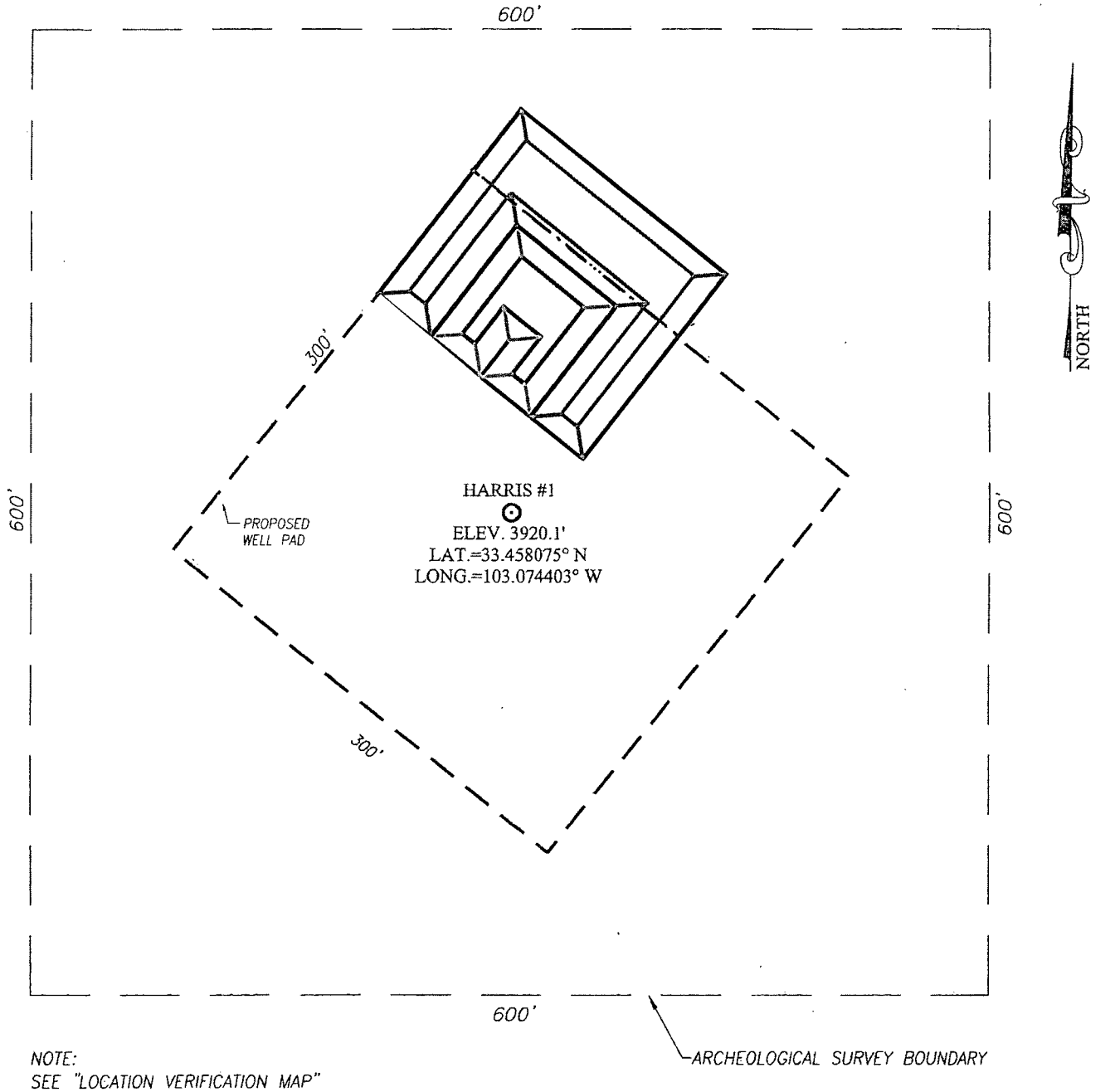
Omega	0.0673
Lambda	8.69E-6

Derived & Secondary Parameters

Rinv	516 ft

SECTION 8, TOWNSHIP 10 SOUTH, RANGE 38 EAST, N.M.P.M.

LEA COUNTY NEW MEXICO



NOTE:
SEE "LOCATION VERIFICATION MAP" FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 380 AND ST. LINE RD. #769, GO NORTH ON ST. RD. #769 APPROX. 14.6 MILES. TURN LEFT AND GO WEST ON A FARM ROAD 1.5 MILES; TURN SOUTH FOLLOW ELEC. LINE FOR APPROX. 1 MILE. TURN LEFT AND GO EAST APPROX. 0.1 MILE. TURN LEFT AND GO NORTHEAST APPROX. 0.25 MILES TO THE PROPOSED LOCATION.

100 0 100 200 Feet

Scale: 1"=100'

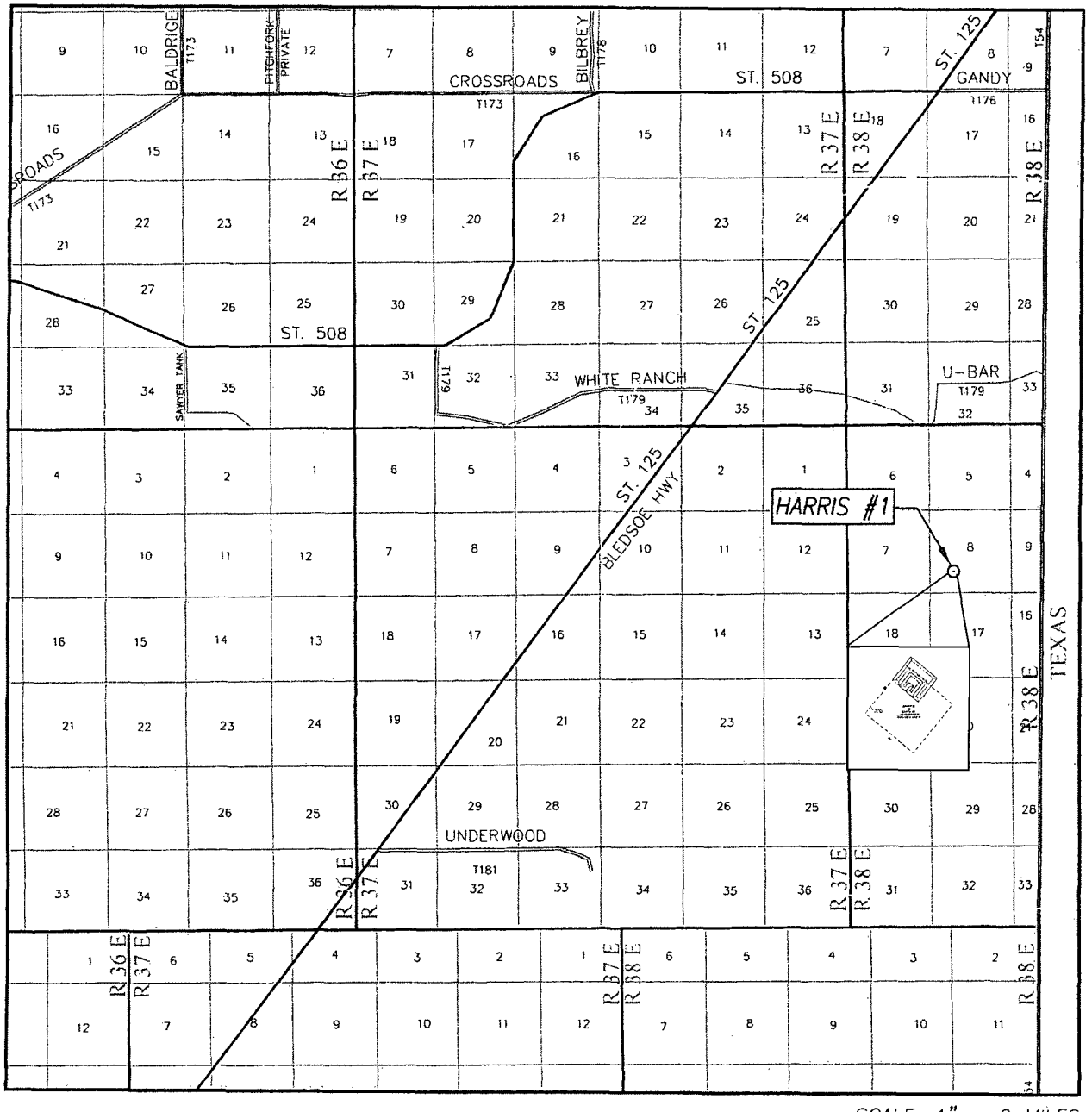
PROVIDING SURVEYING SERVICES SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz

CML EXPLORATION, LLC

HARRIS #1 WELL
LOCATED 1353 FEET FROM THE SOUTH LINE
AND 1570 FEET FROM THE WEST LINE OF SECTION 8,
TOWNSHIP 10 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

Survey Date: 6/14/13	CAD Date: 6/20/13	Drawn By: ACK
W.O. No.: 13110685	Rev: .	Rel. W.O.:	Sheet 1 of 1

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 8 TWP. 10-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1353' FSL & 1570' FWL

ELEVATION 3920'

OPERATOR CML EXPLORATION, LLC

LEASE HARRIS

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