

Computer Inventoried

WELL NAME:
COMPANY:
LOCATION:

Miller 6-34
Roberts & Murphy, Inc
34-34S-20W
Comanche County, Kansas
11/24/97

ORIGINAL

15-033-20942

DATE:

34-34S-20W

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Roberts & Murphy, Inc.

DATE 11/20/97

WELL NAME: Miller #6-34

KB 1739.00 ft

TICKET NO: 10088 DST #1

LOCATION : 34-34s-20w Comanche Co KS

GR 1726.00 ft

FORMATION: Viola

INTERVAL : 6198.00 To 6226.00 ft

TD 6226.00 ft

TEST TYPE: CONVENTIONAL

REORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 15	Rec.	10332	10332	2350			PF Fr. 0827 to 0842 hr
RI 120	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0842 to 1042 hr
RF 0	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. to hr
RS 0	Depth(ft)	6223.0	6223.0	6204.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
1. Init Hydro	3126.0	3131.0	3056.0	0.0	0.0	T STARTED 0336 hr
2. First Flow	2208.0	2230.0	2260.0	0.0	0.0	T ON BOTM 0820 hr
3. Final Flow	2098.0	2116.0	2104.0	0.0	0.0	T OPEN 0827 hr
4. In Shut-in	2278.0	2299.0	2324.0	0.0	0.0	T PULLED 1042 hr
5. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1400 hr
6. Final Flow	0.0	0.0	0.0	0.0	0.0	
7. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
8. Final Hydro	3086.0	3064.0	2977.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2100.00 lbs

RECOVERY

Total Fluid 298.00 ft of 268.00 ft in DC and 30.00 ft in DP

898.00 ft of Gas in pipe.

0.00 ft of Slightly mud gassy wtr 50%cond.20%g20%w10%w

50.00 ft of Slightly mud cut gassy water 20%gas 80%water

8.00 ft of Water 100% water

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 85000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow - gas to surface in 90 seconds

Initial Shutin:

Bled down for two hours - pulled tool

SAMPLES:

SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.00 S/L
W.L.	11.30 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	142.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Dale Paddget
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Miller #6-34

LOCATION : 34-34s-20w Comanche Co KS

TICKET No. 10088 D.S.T. No. 1 DATE 11/20/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 28

TOTAL TOOL 56

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands4 Single 1 Total 268

D.P. ABOVE TOOLS.Stands95 Single 1 Total 5928

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6252

TOTAL DEPTH 6226

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:

Scott Martin
Mobile#(318)-458-0046
Mud Log Fax#(405)-254-1052

P.O. SUB	6171
C.O. SUB	6172
S.I. TOOL	6177
HMV	6182
JARS	6187
SAFETY JOINT	6189
PACKER	6193
PACKER	6198
DEPTH	
STUBB 1'stubb to	6199
ANCHOR 25'of perfs'to	6224
Alpine rec.@6204	
	6224
	6224
T.C.	
DEPTH	
	6224
Ak-1 rec.@6223	
BULLNOSE 2'bullnose to	6226
T.D.	

GAS RECOVERY

COMPANY: Roberts & Murphy, Inc.

DATE: 11/20/97

WELL NAME: Miller #6-34

KB Elev: 1739.00 ft TICKET #10088 DST #1

WELL LOCATION: 34-34s-20w Comanche Co KS

GR Elev: 1726.00 ft FORMATION: Viola

INTERVAL Fr.: 6198.00 To 6226.00 T.D.: 6226.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	450	0	6480000.0
10	0.75	650	0	9270000.0
15	0.75	725	0	10316000.0

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK#10088 DST#1 Miller #6-34 Roberts@Murphy, Inc.
 DATE: 11/20/97 TIME: 03:38:25

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	260.00	3056.1	0.0	125.90		
***** Start Flow 1	0.00	2259.9	0.0	126.22		
	1.00	2204.0	-55.9	127.03		
	2.00	2179.4	-80.5	128.43		
	3.00	2162.8	-97.1	130.08		
	4.00	2155.8	-104.2	131.67		
	5.00	2148.5	-111.4	133.08		
	6.00	2142.2	-117.8	134.27		
	7.00	2137.9	-122.0	135.33		
	8.00	2132.5	-127.4	136.23		
	9.00	2130.1	-129.8	137.02		
	10.00	2129.6	-130.3	137.70		
	11.00	2125.9	-134.0	138.35		
	12.00	2121.4	-138.5	138.88		
	13.00	2117.6	-142.3	139.36		
	14.00	2109.9	-150.0	139.73		
***** End Flow 1	15.00	2104.0	-155.9	140.10		
***** Start Shutin 1	0.00	2104.0	0.0	140.10	0.0000	4.427
	1.00	2228.3	124.3	140.39	16.0000	4.965
	2.00	2231.8	127.8	140.76	8.5000	4.981
	3.00	2236.2	132.3	140.99	6.0000	5.001
	4.00	2239.9	135.9	141.20	4.7500	5.017
	5.00	2242.7	138.7	141.30	4.0000	5.030
	6.00	2245.3	141.3	141.47	3.5000	5.041
	7.00	2247.6	143.6	141.55	3.1429	5.052
	8.00	2249.6	145.6	141.63	2.8750	5.061
	9.00	2251.5	147.5	141.67	2.6667	5.069
	10.00	2253.1	149.1	141.70	2.5000	5.077
	11.00	2254.7	150.7	141.67	2.3636	5.084
	12.00	2256.1	152.2	141.65	2.2500	5.090
	13.00	2257.3	153.3	141.63	2.1538	5.095
	14.00	2066.0	-38.0	141.55	2.0714	4.268
	15.00	2066.8	-37.2	141.49	2.0000	4.272
	16.00	2067.7	-36.3	141.44	1.9375	4.275
	17.00	2068.6	-35.4	141.36	1.8824	4.279
	18.00	2069.3	-34.7	141.32	1.8333	4.282
	19.00	2070.1	-33.9	141.25	1.7895	4.285
	20.00	2070.9	-33.1	141.21	1.7500	4.289
	21.00	2071.6	-32.4	141.14	1.7143	4.291
	22.00	2072.3	-31.6	141.08	1.6818	4.295
	23.00	2073.0	-31.0	141.04	1.6522	4.297
	24.00	2073.8	-30.2	141.02	1.6250	4.300
	25.00	2074.4	-29.5	140.95	1.6000	4.303
	26.00	2075.1	-28.9	140.92	1.5769	4.306
	27.00	2075.8	-28.2	140.89	1.5556	4.309
	28.00	2076.4	-27.6	140.83	1.5357	4.311
	29.00	2077.0	-26.9	140.78	1.5172	4.314
	30.00	2077.7	-26.3	140.76	1.5000	4.317
	31.00	2078.3	-25.7	140.74	1.4839	4.319
	32.00	2273.5	169.5	140.76	1.4688	5.169
	33.00	2274.3	170.3	140.75	1.4545	5.172

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: TK#10088 DST#1 Miller #6-34 Roberts@Murphy, Inc.
DATE: 11/20/97 TIME: 03:38:25

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
34.00	2274.9	171.0	140.74	1.4412	5.175
35.00	2275.6	171.6	140.73	1.4286	5.178
36.00	2276.4	172.4	140.67	1.4167	5.182
37.00	2277.1	173.1	140.67	1.4054	5.185
38.00	2277.8	173.8	140.66	1.3947	5.188
39.00	2278.4	174.4	140.65	1.3846	5.191
40.00	2279.2	175.2	140.63	1.3750	5.195
41.00	2279.9	175.9	140.63	1.3659	5.198
42.00	2280.5	176.5	140.64	1.3571	5.201
43.00	2281.1	177.2	140.57	1.3488	5.204
44.00	2281.9	177.9	140.58	1.3409	5.207
45.00	2282.7	178.7	140.56	1.3333	5.211
46.00	2283.2	179.2	140.56	1.3261	5.213
47.00	2283.8	179.9	140.55	1.3191	5.216
48.00	2284.6	180.6	140.56	1.3125	5.219
49.00	2285.1	181.1	140.57	1.3061	5.222
50.00	2285.8	181.9	140.54	1.3000	5.225
51.00	2286.4	182.5	140.54	1.2941	5.228
52.00	2287.0	183.0	140.54	1.2885	5.230
53.00	2287.7	183.7	140.55	1.2830	5.234
54.00	2288.4	184.4	140.55	1.2778	5.237
55.00	2289.0	185.1	140.53	1.2727	5.240
56.00	2289.7	185.7	140.50	1.2679	5.243
57.00	2290.2	186.2	140.53	1.2632	5.245
58.00	2290.9	186.9	140.53	1.2586	5.248
59.00	2291.5	187.5	140.53	1.2542	5.251
60.00	2292.0	188.0	140.59	1.2500	5.253
61.00	2292.6	188.7	140.51	1.2459	5.256
62.00	2293.2	189.3	140.52	1.2419	5.259
63.00	2293.9	189.9	140.53	1.2381	5.262
64.00	2294.4	190.4	140.53	1.2344	5.264
65.00	2295.1	191.1	140.56	1.2308	5.267
66.00	2295.8	191.8	140.52	1.2273	5.270
67.00	2296.3	192.3	140.53	1.2239	5.273
68.00	2296.8	192.9	140.54	1.2206	5.275
69.00	2297.3	193.4	140.55	1.2174	5.278
70.00	2297.9	194.0	140.54	1.2143	5.281
71.00	2298.5	194.5	140.56	1.2113	5.283
72.00	2299.1	195.1	140.56	1.2083	5.286
73.00	2299.7	195.7	140.57	1.2055	5.289
74.00	2300.3	196.3	140.55	1.2027	5.291
75.00	2300.9	196.9	140.57	1.2000	5.294
76.00	2301.4	197.4	140.58	1.1974	5.296
77.00	2301.9	197.9	140.61	1.1948	5.299
78.00	2302.5	198.5	140.57	1.1923	5.301
79.00	2303.1	199.1	140.59	1.1899	5.304
80.00	2303.6	199.6	140.60	1.1875	5.306
81.00	2304.1	200.2	140.62	1.1852	5.309
82.00	2304.7	200.8	140.60	1.1829	5.312
83.00	2305.2	201.3	140.61	1.1807	5.314
84.00	2305.8	201.8	140.62	1.1786	5.317

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK#10088 DST#1 Miller #6-34 Roberts@Murphy, Inc.
 DATE: 11/20/97 TIME: 03:38:25

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	85.00	2306.2	202.3	140.61	1.1765	5.319
	86.00	2306.7	202.8	140.63	1.1744	5.321
	87.00	2307.3	203.4	140.64	1.1724	5.324
	88.00	2307.9	203.9	140.63	1.1705	5.327
	89.00	2308.3	204.4	140.66	1.1685	5.328
	90.00	2308.9	205.0	140.69	1.1667	5.331
	91.00	2309.5	205.5	140.64	1.1648	5.334
	92.00	2310.0	206.0	140.67	1.1630	5.336
	93.00	2310.4	206.5	140.67	1.1613	5.338
	94.00	2311.0	207.1	140.67	1.1596	5.341
	95.00	2311.5	207.6	140.68	1.1579	5.343
	96.00	2312.0	208.1	140.69	1.1562	5.346
	97.00	2312.5	208.6	140.70	1.1546	5.348
	98.00	2313.0	209.1	140.72	1.1531	5.350
	99.00	2313.5	209.5	140.71	1.1515	5.352
	100.00	2314.0	210.0	140.73	1.1500	5.354
	101.00	2314.4	210.4	140.74	1.1485	5.356
	102.00	2315.0	211.0	140.68	1.1471	5.359
	103.00	2315.4	211.4	140.73	1.1456	5.361
	104.00	2315.9	211.9	140.73	1.1442	5.363
	105.00	2316.5	212.5	140.75	1.1429	5.366
	106.00	2316.9	212.9	140.73	1.1415	5.368
	107.00	2317.5	213.5	140.75	1.1402	5.371
	108.00	2317.9	213.9	140.76	1.1389	5.373
	109.00	2318.3	214.4	140.79	1.1376	5.375
	110.00	2318.9	214.9	140.72	1.1364	5.377
	111.00	2319.3	215.3	140.73	1.1351	5.379
	112.00	2319.8	215.8	140.74	1.1339	5.381
	113.00	2320.3	216.3	140.77	1.1327	5.384
	114.00	2320.7	216.7	140.74	1.1316	5.386
	115.00	2321.2	217.2	140.77	1.1304	5.388
	116.00	2321.5	217.5	140.78	1.1293	5.389
	117.00	2321.9	218.0	140.81	1.1282	5.391
	118.00	2322.4	218.5	140.75	1.1271	5.394
	119.00	2322.9	218.9	140.78	1.1261	5.396
	120.00	2323.4	219.4	140.81	1.1250	5.398
***** End Shut-in 1	121.00	2323.9	219.9	140.79	1.1240	5.400
***** Final Hydro.	400.00	2977.0	0.0	138.84		

TEST HISTORY

TK#10088 DST#1 Miller #6-34 Robert@Murphy, Inc.

Flag Points

t (Min.)	P (PSig)
A: 0.00	3056.06
B: 0.00	2259.92
C: 15.00	2103.98
D: 121.00	2323.87
E: 0.00	2977.00

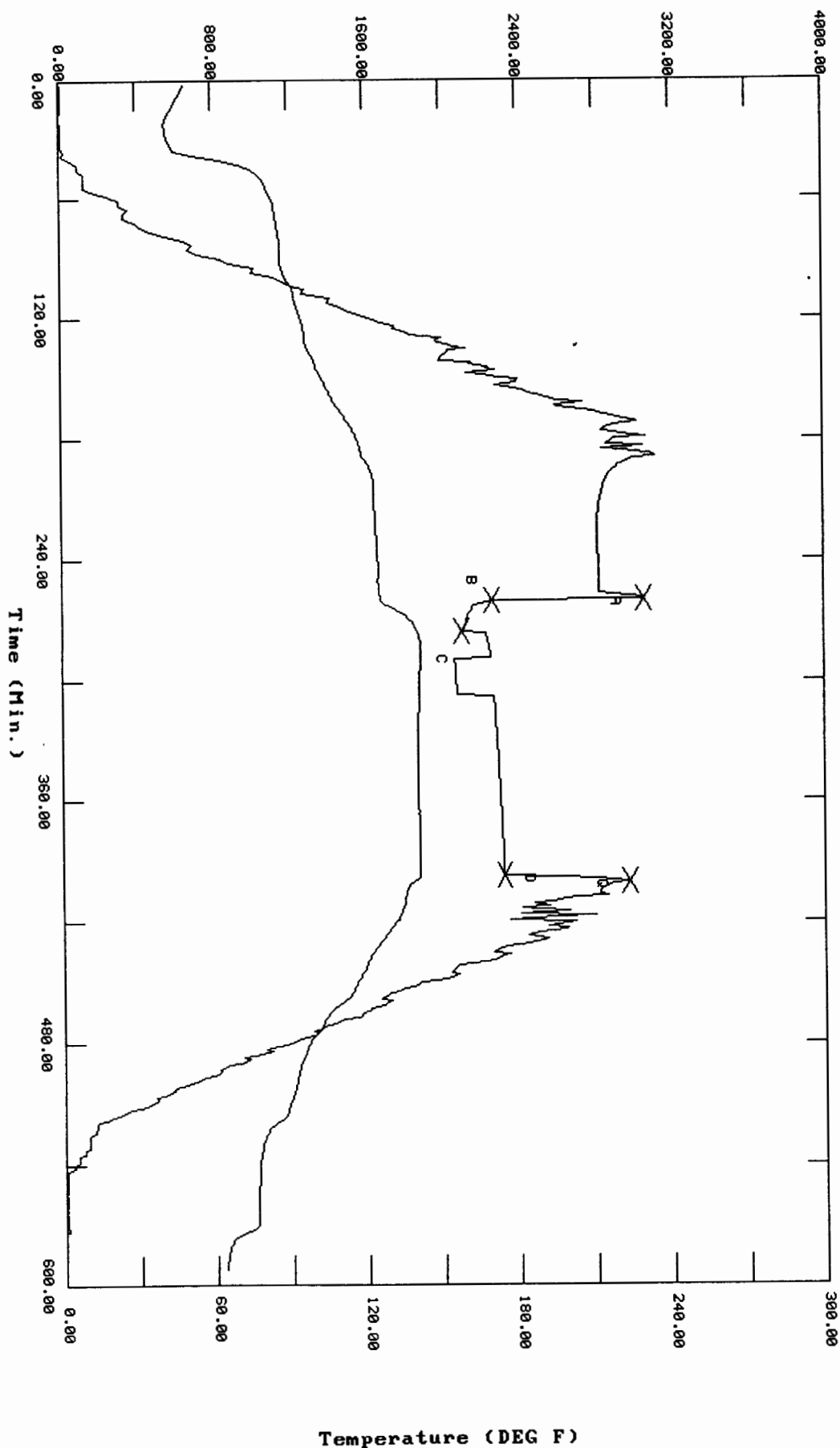
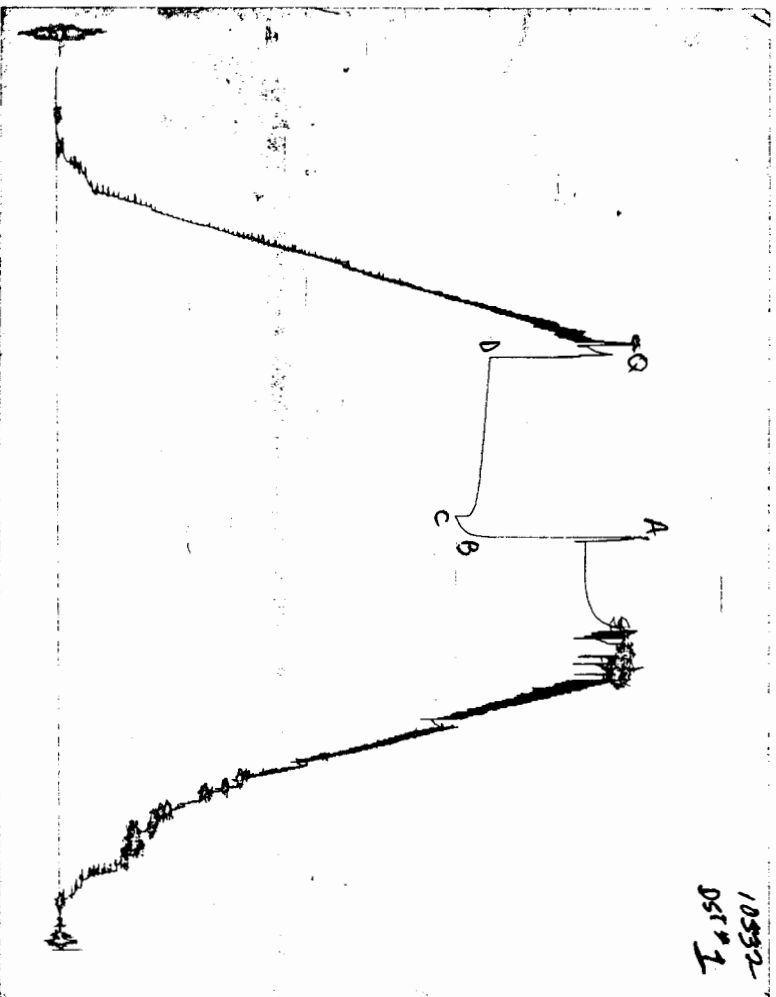


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart



GAS VOLUME REPORT

Roberts & Murphy
OPERATOR

Miller # 6-34

WELL NAME AND NO

NO. For - Viola

DST NO.

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 10088

Well Name & No.	<u>Miller #6-34</u>	Test No.	<u>#1</u>	Date	<u>11/20/97</u>
Company	<u>Roberts & Murphy, Inc.</u>	Zone Tested	<u>Viola</u>		
Address	<u>P.O. box 7125 Shreveport, LA 71137-7125</u>		Elevation	<u>1739'</u>	KB <u>1726'</u> GL
Co. Rep / Geo.	<u>Date Red</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>34</u>	Twp.	<u>34S</u>	Rge.	<u>20W</u>
			Co.	<u>Camanche</u>	State <u>LS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>—</u>	Turnkey (Y, N)	<u>—</u>
			Evaluation (Y, N)	<u>—</u>	

Interval Tested	<u>6198 - 6226'</u>	Initial Str Wt./Lbs.	<u>72,000</u>	Unseated Str Wt./Lbs.	<u>77,000</u>
Anchor Length	<u>28'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>95,000</u>
Top Packer Depth	<u>6193'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>6198'</u>	Hole Size — 7 7/8"	☒	Rubber Size — 6 3/4"	☒
Total Depth	<u>6226'</u>	Wt. Pipe Run		Drill Collar Run	<u>268'</u>
Mud Wt. <u>8.9</u> " LCM <u>17.5</u> " Vis. <u>48</u> WL <u>11.3</u>		Drill Pipe Size	<u>4 1/2 KH</u>	Ft. Run	<u>5928</u>
Blow Description	<u>IF Strong blow G.T.S 90 sec.</u>				

FF: Bled down 120 mins Pull Tool

Recovery — Total Feet	<u>298'</u>	GIP	<u>5928</u>	Ft. in DC	<u>268</u>	Ft. in DP	<u>30</u>	
Rec.	<u>100'</u>	Feet Of	<u>SMCBW 50% cond.</u>	<u>20</u>	%gas	%oil <u>20</u>	%water <u>10</u>	%mud
Rec.	<u>150'</u>	Feet Of	<u>SMCBW</u>	<u>20</u>	%gas	%oil <u>80</u>	%water	%mud
Rec.	<u>58'</u>	Feet Of	<u>SW</u>		%gas	%oil <u>100</u>	%water	%mud
Rec.		Feet Of			%gas	%oil	%water	%mud
Rec.		Feet Of			%gas	%oil	%water	%mud

BHT 142° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW .1 @ 63° °F Chlorides 85,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud	<u>3126</u>	<u>13056</u>	PSI	Recorder No.	<u>2350</u>	T-Started	<u>3:36A</u>
(B) First Initial Flow Pressure	<u>2208</u>	<u>2260</u>	PSI	(depth)	<u>6204'</u>	T-Open	<u>8:27</u>
(C) First Final Flow Pressure	<u>2098</u>	<u>2104</u>	PSI	Recorder No.	<u>10392</u>	T-Pulled	<u>10:42</u>
(D) Initial Shut-in Pressure	<u>2278</u>	<u>2324</u>	PSI	(depth)	<u>6223'</u>	T-Out	
(E) Second Initial Flow Pressure			PSI	Recorder No.			
(F) Second Final Flow Pressure			PSI	(depth)			
(G) Final Shut-in Pressure			PSI	Initial Opening	<u>15</u>	Test	☒
(H) Final Hydrostatic Mud	<u>3086</u>	<u>2977</u>	PSI	Initial Shut-in	<u>120</u>	Jars	☒
	<u>AK-1</u>	<u>ALPine</u>		Final Flow		Safety Joint	☒
				Final Shut-in		Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elect. Rec.	☒
						Other	

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

[Signature]

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	973285	Analyzed:	12/01/97
Sample From:	Miller 6-34 DST 1	Pressure:	
Producer:	Roberts & Murphy, Inc.	Temperature:	
Date:		Location:	34-34-20
Time:		County:	Comanche
Sampler:		State:	Kansas
Source:		Formation:	Viola

	Mole %	GPM
Helium	He: 0.235	0.000
Hydrogen	H2: 0.005	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.282	0.000
Carbon Dioxide	CO2: 0.148	0.000
Methane	C1: 79.586	0.000
Ethane	C2: 5.962	1.595
Propane	C3: 3.530	0.973
Iso Butane	iC4: 0.465	0.152
Normal Butane	nC4: 1.306	0.412
Iso Pentane	iC5: 0.298	0.109
Normal Pentane	nC5: 0.465	0.168
Hexanes Plus	C6+: 0.718	0.313

TOTAL: 100.000 3.722
Z Fact: 0.9972
SP.GR.: 0.7071
BTU (SAT): 1109.4 @ 14.73 psia
BTU (DRY): 1129.0 @ 14.73 psia
OCTANE RATING: 115.3

COMMENTS:

0.022