FAX 316-624-2569

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ADAMS #2-17 Test No. 1 Date 11/10/92

Company QUINQUE OPERATING COMPANY Zone CHESTER LIME

Address P.O.BOX 2738 LIBERAL KS 67901 Elevation 2454

Co. Rep./Geo. MARVIN HARVEY Cont. BEREDCO RIG #6 Est. Ft. of Pay 8

Location: Sec. 17 Twp. 35S Rge. 30W Co. MEADE State KS

Interval Tested 5824-5877 Drill Pipe Size 4.5" XH

Anchor Length 53 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 5819 Drill Collar – 2.25 Ft. Run 794

Bottom Packer Depth 5824 Mud Wt. 9.2 lb/Gal.

Total Depth 5877 Viscosity 52 Filtrate 9

Tool Open @ 12:24 PM Initial Blow OFF BOTTOM IN 5 SECONDS
GAS TO SURFACE IN 3 MINUTES 30 SECONDS

Final Blow OFF BOTTOM IN 5 SECONDS
ORIFICE 1.25" + 6" OF WATER = 107. MCF/DAY

Recovery - Total Feet 828 Flush Tool? NO

Rec. 4996 Feet of GAS IN PIPE

Rec. 210 Feet of GASSY OIL CUT MUD-4%GAS/4%OIL/92%MUD

Rec. 180 Feet of GAS IN PIPE/FLUID UNLOADED

Rec. 438 Feet of GASSY MUD CUT OIL-5%GAS/75%OIL/20%MUD

Rec. Feet of

BHT 128 °F Gravity 42 °API @ 70 °F Corrected Gravity 41 °API

RW @ °F Chlorides ppm Recovery Chlorides 3550 ppm System

(A) Initial Hydrostatic Mud 2744.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 181.2 PSI @ (depth) 5872 w / Clock No. 19960

(C) First Final Flow Pressure 136.9 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 1844.9 PSI @ (depth) 5826 w / Clock No. 7452

(E) Second Initial Flow Pressure 171.3 PSI AK1 Recorder No. Range

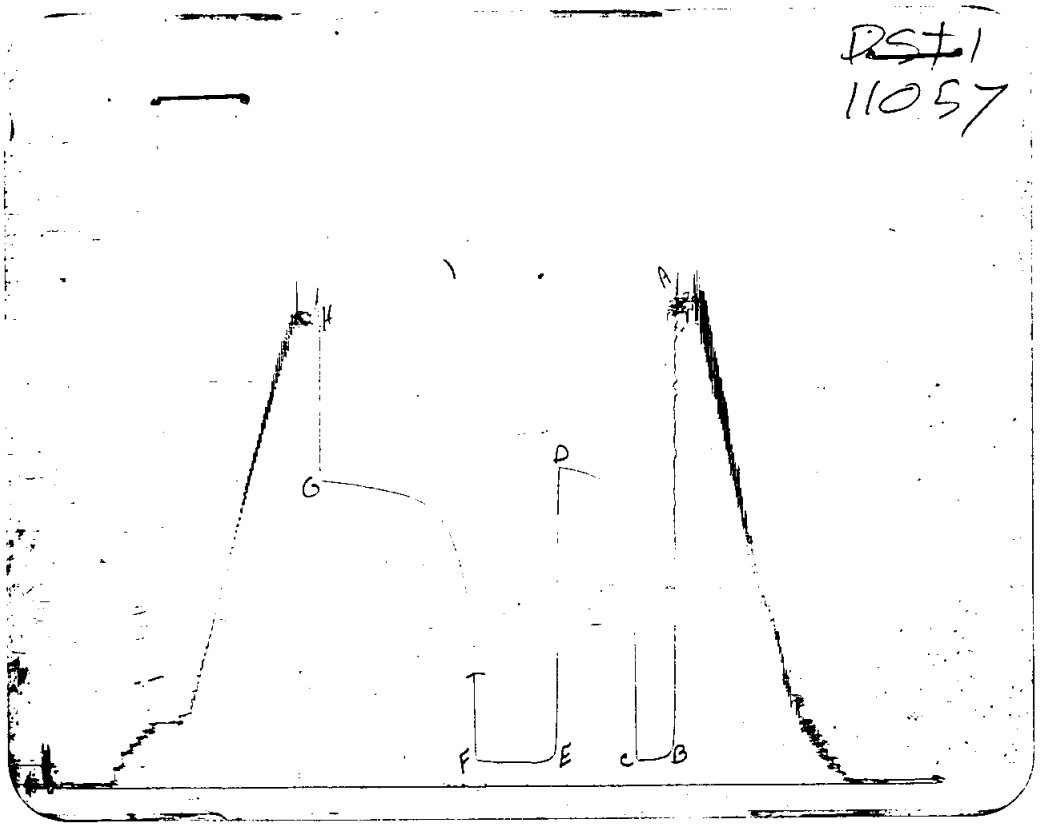
(F) Second Final Flow Pressure 160.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1795.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2720.6 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ

CHART PAGE



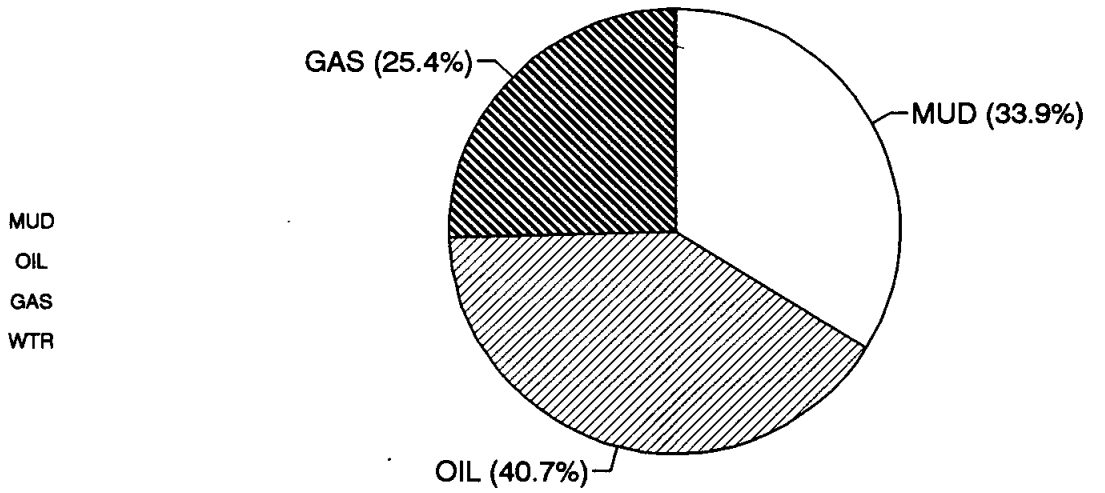
This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2739	2744.6
(B) FIRST INITIAL FLOW PRESSURE	179	181.2
(C) FIRST FINAL FLOW PRESSURE	134	136.9
(D) INITIAL CLOSED-IN PRESSURE	1847	1844.9
(E) SECOND INITIAL FLOW PRESSURE	168	171.3
(F) SECOND FINAL FLOW PRESSURE	156	160.9
(G) FINAL CLOSED-IN PRESSURE	1791	1795.6
(H) FINAL HYDROSTATIC MUD	2717	2720.6

DST # 1 TICKET 5356

SAMPLE	TOTAL		GAS		OIL		WATER		MUD
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	210	4	8.4	4	8.4	0	0	92	193.2
2	180	100	180	0	0	0	0	0	0
3	438	5	21.9	75	328.5	0	0	20	87.6
4			0		0		0		0
5			0		0		0		0
TOTAL	828	25.40	210.3	40.69	336.9	0.00	0	33.913043	280.8

			HRS OP	BBL/DAY
BBL OIL=	1.647441	*	1.5	26.359056
BBL WATER=	0	*		0
BBL MUD=	1.373112			
BBL GAS=	1.028367			



GAS VOLUME REPORT

QUINQUE OPERATING COMPANY

ADAMS #2-17 DST # 1

MIN	PSIG	ORIFICE	MCF/D
2	20	1.25	196
5	36	1.25	264
10	22	1.25	206
15	18	1.25	186
20	16	1.25	176
25	16	1.25	176
30	16	1.25	176

MIN	PSIG	ORIFICE	MCF/D
2	48	1.25	304
5	36	1.25	264
10	22	1.25	206
15	18	1.25	186
20	17	1.25	181
25	16	1.25	176
30	15	1.25	170
35	13	1.25	164
40	12	1.25	152
45	10	1.25	138
50	8	1.25	124
55	8	1.25	124
60	6	1.25	107

Remarks: GAS TO SURFACE IN 3 MINUTES 30 SECONDS

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Quingue Operating (OPERATOR) | Adams 2-17 (WELL NAME AND NO.) | 1 (DST NO.)

Min.	Ins. of Water ~~Hg~~	Orifice Size	MCF/D	Min.	Ins. of Water ~~Hg~~	Orifice Size	MCF/D
2	20	1¼	196.	2	~~4~~6	1¼	304.
5	36		264.	5	36		264.
10	22		206.	10	22		206.
15	18		186.	15	18		186.
20	16		176.	~~20~~	17		181.
25	16		176.	25	16		176.
30	16		176.	30	1~~5~~		170.
				35	1~~3~~		164.
				40	12		152.
	GAS TO SURF			45	10		138.
	3 IN 30 SEC			50	8		124.
				55	8		124.
				60	6		107.

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5356

Well Name & No. Adams 2-17 Test No. 1 Date 11-10-92

Company Quinque Operating Company Zone Tested Chester Lime

Address Box 2738 Liberal Ks Elevation 2454 KB

Co. Rep. / Geo. Marvin Harvey cont. Beredco Rig 6 Est. Ft. of Pay 8

Location: Sec. 17 Twp. 35s Rge. 30w Co. Meade State Ks

No. of Copies ____ Distribution Sheet ____ Yes ✓ No Turnkey ____ Yes ____ No ____ Evaluation

Interval Tested 5824 - 5877 Drill Pipe Size 4½ XH

Anchor Length 53 Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 5819 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 5824 Wt. Pipe I.D. — 2.7 Ft. Run ____

Total Depth 5877 Drill Collar — 2.25 Ft. Run 794

Mud Wt. 9.2 LCM 4# lb / gal. Viscosity 52 Filtrate 9.0

Tool Open @ 12 24 Initial Blow OFF Bottom in 5 sec

Gas to Surf 3 min 30 sec

Final Blow OFF Bottom in 5 sec

Orifice 1¼ + in. water = 1077. MCF / DAY

Recovery — Total Feet 828 Feet of Gas in Pipe 4996 Flush Tool? ____

Rec. 210	Feet Of	GOCM&D	4 %gas	4 %oil	%water 92	%mud	
Rec. 180	Feet Of	GIP, PIPE	100 %gas	%oil	%water	%mud	
Rec. 438	Feet Of	G M&D Oil	5 %gas	75 %oil	%water 20	%mud	
Rec. ____	Feet Of	____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of	____	%gas	%oil	%water	%mud	

BHT 128 °F Gravity 42 °API @ 70 °F Corrected Gravity 41 °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 3550 ppm System

(A) Initial Hydrostatic Mud	2739 PSI	AK1 Recorder No.	13308	Range	4700
(B) First Initial Flow Pressure	179 PSI	@ (depth)	5875	w/Clock No.	19960
(C) First Final Flow Pressure	134 PSI	AK1 Recorder No.	11057	Range	4500
(D) Initial Shut-In Pressure	1847 PSI	@ (depth)	5826	w/Clock No.	7452
(E) Second Initial Flow Pressure	168 PSI	AK1 Recorder No.	____	Range	____
(F) Second Final Flow Pressure	156 PSI	@ (depth)	____	w/Clock No.	____
(G) Final Shut-In Pressure	1791 PSI	Initial Opening	30	Test	✓
(H) Final Hydrostatic Mud	2717 PSI	Initial Shut-In	60	Jars	✓
		Final Flow	60	Safety Joint	✓
		Final Shut-In	120	Straddle	____
				Circ. Sub	✓ N.C.
				Sampler	____
				Extra Packer	____
				Other	____
				TOTAL PRICE $	____

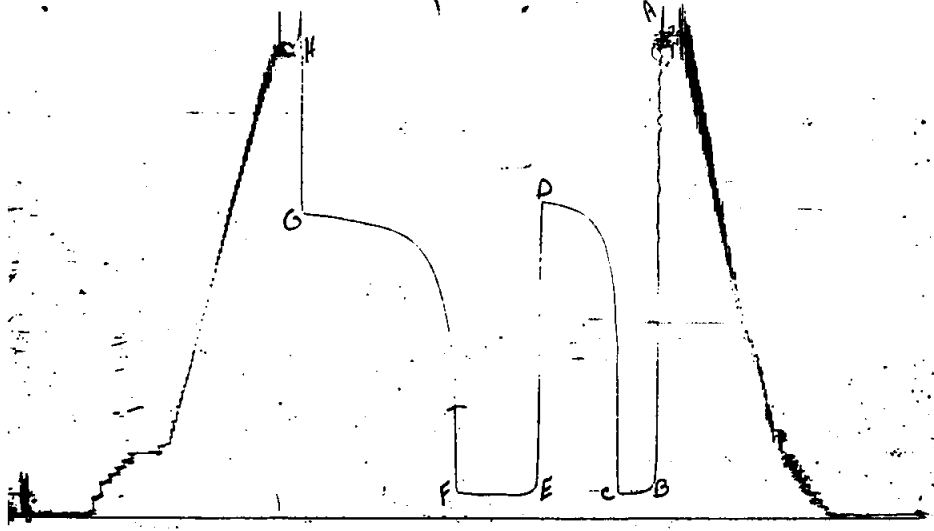
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Approved By Stan Wyckoff

Our Representative Mark Kershberg

Printcraft Printers - Hays, KS

~~KSI~~
11057



Barrington

WELL NAME Adams 2-17 DST # 1 RECORDER #

INIT. HYD. MUD. FINAL HYD. MUD

INITIAL FLOW MINUTES 30 INTERVAL 3		INITIAL SHUTIN MINUTES 60 INTERVAL 3			FINAL FLOW MINUTES 60 INTERVAL 6		FINAL SHUTIN MINUTES 120 INTERVAL 6	
.164				1	.156	1713		
.150		1.014		2	.143		.778	
.140		1.254		3	.132		1.060	
.134		1.350		4	.127		1.224	
.132		1.435		5	.121		1.321	
.129		1.480		6	.120		1.387	
.131		1.511		7	"		1.434	
.131		1542		8	"		1.464	
.131		1.562		9	.120		1.485	
.131	136.9	1.579		10	.122		1.503	
		1593		11	.123		1517	
		1603		12	.125		1.527	
		1.608		13	.123		1.535	
		1.613		14	123		1544	
		1628		15	.123		1.556	
		1628		16	.123		1.565	
		1633		17	.124		1.576	
		1.637		18	.126		1.589	
		1.641		19	.128		1.595	
		1.644		20	.130		1.600	
		1.647	1844.9	21	.143 .132		1.604	1795.6
				22				
				23				
				24				
				25				
				26				
				27				

FS

1113

0.778	870.5426	
1.06	1186.091	
1.224	1369.954	
1.321	1478.699	
1.387	1552.686	
1.434	1605.375	
1.464	1639.008	
1.485	1662.552	
1.503	1682.733	
1.517	1698.427	
1.527	1709.638	
1.535	1718.606	
1.544	1728.696	
1.556	1742.149	
1.565	1752.239	
1.576	1764.572	
1.589	1779.147	
1.595	1785.874	
1.6	1791.48	
1.604	~~1795.964~~	1795.6

1940

ISI

1.014	1134.523
1.254	1403.586
1.35	1511.207
1.435	1606.496
1.48	1656.946
1.511	1691.701
1.542	1726.454
1.562	1748.876
1.579	1767.935
1.593	1783.632
1.603	1794.843
1.608	1800.448
1.613	1806.053
1.621	1815.022
1.628	1822.869
1.633	1828.474
1.637	1832.959
1.641	1837.443
1.644	1840.806
1.647	~~1844.17~~ 1844.9

FF

0.153	~~171.5235~~	171.3
0.152	170.4023	
0.151	169.2812	
0.15	168.16	
0.149	167.039	
0.148	165.9181	
0.147	164.7971	
0.146	163.6761	
0.145	162.5551	
0.146	163.6761	
0.147	164.7971	
0.148	165.9181	
0.146	163.6761	
0.145	162.5551	
0.145	162.5551	
0.145	162.5551	
0.144	161.4342	
0.143	160.3132	160.9
0.143	160.3132	
0.143	160.3132	
0.143	160.3132	

I.F.

0.164	~~183.8565~~	181.2
0.14	156.9503	
0.13	145.7404	
0.124	139.0144	
0.122	~~136.7724~~	135.6
0.119	133.4094	
0.121	135.6514	
0.122	136.7724	
0.122	136.7724	
0.122	136.7724	
0.122	~~136.7724~~	136.9

INITIAL FLOW

RECORDER # 11057 DST # 1

TIME(MIN)	PRESSURE	<> PRESSURE
0	181.2	181.2
3	156.9	-24.3
6	145.7	-11.2
9	139	-6.7
12	135.6	-3.4
15	133.4	-2.2
18	135.6	2.2
21	136.9	1.3
24	136.9	0
27	136.9	0
30	136.9	0

FINAL FLOW

RECORDER # 11057 DST # 1
Q

TIME(MIN)	PRESSURE	<> PRESSURE
0	171.3	171.3
3	170.4	-0.9
6	169.2	-1.2
9	168.1	-1.1
12	167	-1.1
15	165.9	-1.1
18	164.7	-1.2
21	163.6	-1.1
24	162.5	-1.1
27	163.6	1.1
30	164.7	1.1
33	165.9	1.2
36	163.6	-2.3
39	162.5	-1.1
42	162.5	0
45	162.5	0
48	161.8	-0.7
51	160.9	-0.9
54	160.9	0
57	160.9	0
60	160.9	0

ADAMS #2-17 DST #1
FINAL SHUTIN

90 TOTAL FLOW TIME

Slope 521.11 psi/cycle
P * 1922 psi

		Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	870.5	1.204	870.5	16
	12	1186.0	0.929	315.5	9
	18	1369.9	0.778	183.9	6
	24	1478.6	0.677	108.7	5
	30	1552.6	0.602	74.0	4
	36	1605.3	0.544	52.7	4
	42	1639.0	0.497	33.7	3
	48	1662.5	0.459	23.5	3
	54	1682.7	0.426	20.2	3
	60	1698.4	0.398	15.7	3
	66	1709.6	0.374	11.2	2
	72	1718.6	0.352	9.0	2
	78	1728.6	0.333	10.0	2
	84	1742.1	0.316	13.5	2
	90	1752.2	0.301	10.1	2
	96	1764.5	0.287	12.3	2
X	102	1779.1	0.275	14.6	2
	108	1785.8	0.263	6.7	2
	114	1791.4	0.253	5.6	2
X	120	1795.6	0.243	4.2	2

ADAMS #2-17 DST #1
INITIAL SHUTIN

30 TOTAL FLOW TIME

Slope 529.58 psi/cycle
P * 1938 psi

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1134.5	1.041	1134.5	11
	6	1403.5	0.778	269.0	6
	9	1511.2	0.637	107.7	4
	12	1606.4	0.544	95.2	4
	15	1656.9	0.477	50.5	3
	18	1691.7	0.426	34.8	3
	21	1726.4	0.385	34.7	2
	24	1748.8	0.352	22.4	2
	27	1767.9	0.325	19.1	2
	30	1783.6	0.301	15.7	2
	33	1794.8	0.281	11.2	2
	36	1800.8	0.263	6.0	2
	39	1806.0	0.248	5.2	2
	42	1815.0	0.234	9.0	2
	45	1822.8	0.222	7.8	2
	48	1828.4	0.211	5.6	2
	51	1832.9	0.201	4.5	2
	54	1837.4	0.192	4.5	2
X	57	1840.9	0.184	3.5	2
X	60	1844.9	0.176	4.0	2

TRILOBITE TESTING, L.L.C.
HAYS - SCOTT CITY - SATANTA - McCOOK, NE
Since 1986

P.O. BOX 362
HAYS, KANSAS 67601
(800) 728-5369
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SUBJECT: DST #1 / Adams 2-17

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ADAMS #2-17 Test No. 2 Date 11/12/92

Company QUINQUE OPERATING COMPANY Zone CHESTER

Address P.O.BOX 2738 LIBERAL KS 67901 Elevation 2454

Co. Rep./Geo. MARVIN HARVEY Cont. BEREDCO RIG #6 Est. Ft. of Pay 8

Location: Sec. 17 Twp. 35S Rge. 30W Co. MEADE State KS

Interval Tested 6006-6168 Drill Pipe Size 4.5" XH

Anchor Length 162 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 6001 Drill Collar – 2.25 Ft. Run 677

Bottom Packer Depth 6006 Mud Wt. 9 lb/Gal.

Total Depth 6168 Viscosity 49 Filtrate 8.8

Tool Open @ 5:15 AM Initial Blow SURFACE TO 2" IN WATER - DIED OFF IN 15 MINUTES

Final Blow VERY WEAK SURFACE BLOW-2 MINUTES / NO BLOW
"PLUGGED OFF ON FIRST FLOW / NO PLUGGING ACTION ON SECOND FLOW"

Recovery - Total Feet 95 Flush Tool? NO

Rec. 85 Feet of GAS IN PIPE

Rec. 95 Feet of MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 130 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 4250 ppm System

(A) Initial Hydrostatic Mud 2926.3 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 122.3 PSI @ (depth) 6012 w / Clock No. 19960

(C) First Final Flow Pressure 205.6 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 284.7 PSI @ (depth) 6163 w / Clock No. 8179

(E) Second Initial Flow Pressure 115.6 PSI AK1 Recorder No. Range

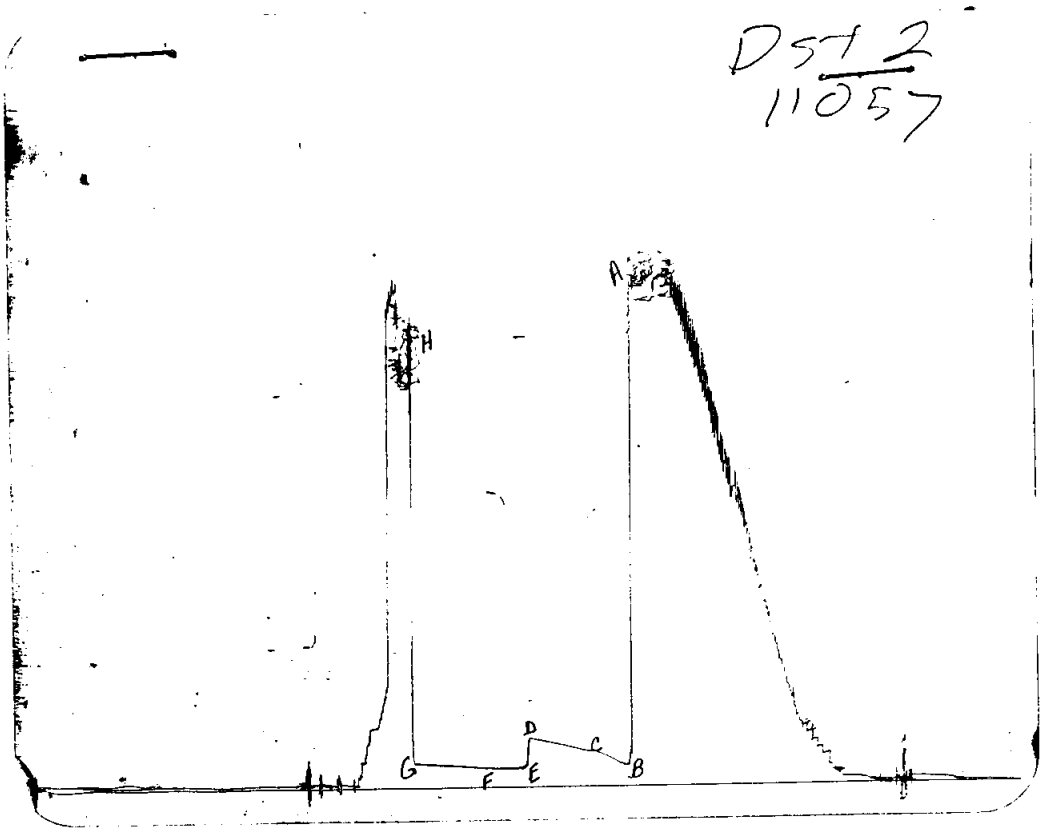
(F) Second Final Flow Pressure 115.6 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 150.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2904.7 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2920	2926.3
(B) FIRST INITIAL FLOW PRESSURE	120	122.3
(C) FIRST FINAL FLOW PRESSURE	201	205.6
(D) INITIAL CLOSED-IN PRESSURE	280	284.7
(E) SECOND INITIAL FLOW PRESSURE	112	115.6
(F) SECOND FINAL FLOW PRESSURE	112	115.6
(G) FINAL CLOSED-IN PRESSURE	145	150.3
(H) FINAL HYDROSTATIC MUD	2898	2904.7

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5357

Well Name & No. Adams 2-17 Test No. 2 Date 11-12-92

Company Quingue Oper Com. Zone Tested Chester

Address Box 2738 Liberal KS Elevation 2454 KB

Co. Rep./Geo. Marvin Harvey Cont. Beredco Rig 6 Est. Ft. of Pay 8

Location: Sec. 17 Twp. 35s Rge. 30w Co. Meade State KS

No. of Copies ____ Distribution Sheet ____ Yes ____ No Turnkey ____ Yes ____ No ____ Evaluation

Interval Tested 6006 - 6168 Drill Pipe Size 4 1/2 XH

Anchor Length 162 Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 6001 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 6006 Wt. Pipe I.D. — 2.7 Ft. Run ____

Total Depth 6168 Drill Collar — 2.25 Ft. Run 477

Mud Wt. 9.0 LCM 2# lb/gal. Viscosity 49 Filtrate 8.8

Tool Open @ 5:15 AM Initial Blow SUR to 2" in DIES OFF in 15 min

Final Blow V. Weak SUR Blow 2 min No Blow (Plug off on First Flow / No Plug on Sec Flow)

Recovery — Total Feet 95 Feet of Gas in Pipe 85 Flush Tool? ____

Rec. 95 Feet Of Mud %gas %oil %water 100 %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

BHT 130 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 4250 ppm System

(A) Initial Hydrostatic Mud 2920 PSI AK1 Recorder No. 13808 Range 4700

(B) First Initial Flow Pressure 120 PSI @ (depth) 6012 w/Clock No. 19960

(C) First Final Flow Pressure 201 PSI AK1 Recorder No. ~~13808~~ 11057 Range 4500

(D) Initial Shut-In Pressure 280 PSI @ (depth) 6163 w/Clock No. 8179

(E) Second Initial Flow Pressure 112 PSI AK1 Recorder No. ____ Range ____

(F) Second Final Flow Pressure 112 PSI @ (depth) ____ w/Clock No. ____

(G) Final Shut-In Pressure 145 PSI Initial Opening 30 Test ✓ 250.00

(H) Final Hydrostatic Mud 2898 PSI Initial Shut-In 45 Jars ✓ 200.00

Final Flow 30 Safety Joint ✓ 50.00

Final Shut-In 45 Straddle ____

Circ. Sub ✓ NC

Sampler ____

Extra Packer ____

Other ____

TOTAL PRICE $ 1000.00

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 Paul A. Snyder

Our Representative Mark Hershberger

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