

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEWIS RALSTON #1 Test No. 1 Date 6/12/93
Company WOOLSEY PETROLEUM CORP Zone MISSISSIPPI
Address 107 N MARKET #600 WICHITA KS 67202 Elevation 2286
Co. Rep./Geo. MIKE MAUNE Cont. ABERCROMBIE #5 Est. Ft. of Pay 13
Location: Sec. 7 Twp. 28S Rge. 19W Co. KIOWA State KS

Interval Tested 4868-4895
Anchor Length 27
Top Packer Depth 4863
Bottom Packer Depth 4868
Total Depth 4895

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 406
Drill Collar - 2.25 Ft. Run
Mud Wt. 9.2 lb/Gal.
Viscosity 45 Filtrate 9.6

Tool Open 10:40 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 15 SECONDS
GAS TO SURFACE IN 2 MINUTES - GAUGED @ 1123 MCF/DAY
Final Blow STRONG BLOW - BOTTOM OF BUCKET AS TOOL OPENED
GAUGED @ 1160 MCF/DAY

Recovery - Total Feet 216 Flush Tool? NO

Rec. 216 Feet of DRILLING MUD WITH SPOTS OF OIL
Rec. Feet of
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 122 °F Gravity °API °F Corrected Gravity °API
RW °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2436.7 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 288.4 PSI (depth) 4871 w / Clock No. 19960

(C) First Final Flow Pressure 215.1 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1469.1 PSI (depth) 4892 w / Clock No. 26199

(E) Second Initial Flow Pressure 266.6 PSI AK1 Recorder No. Range

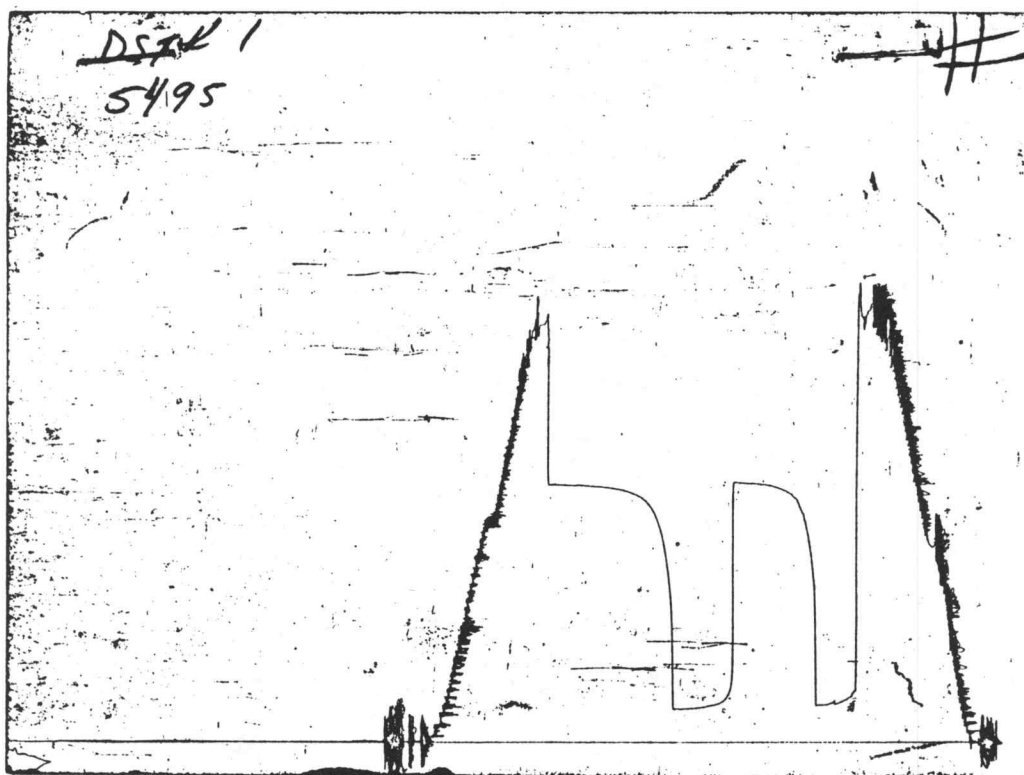
(F) Second Final Flow Pressure 195.3 PSI (depth) w / Clock No.

(G) Final Shut-in Pressure 1459.5 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2349.8 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2427	2436.7
(B) FIRST INITIAL FLOW PRESSURE	277	288.4
(C) FIRST FINAL FLOW PRESSURE	211	215.1
(D) INITIAL CLOSED-IN PRESSURE	1457	1469.1
(E) SECOND INITIAL FLOW PRESSURE	222	266.6
(F) SECOND FINAL FLOW PRESSURE	178	195.3
(G) FINAL CLOSED-IN PRESSURE	1446	1459.5
(H) FINAL HYDROSTATIC MUD	2343	2349.8

INITIAL FLOW

RECORDER 5495

DST # 1

TIME(MIN) PRESSURE <> PRESSURE

3	288.4	288.4
6	257.8	-30.6
9	243.6	-14.2
12	233.7	-9.9
15	223.8	-9.9
18	220.5	-3.3
21	220.5	0.0
24	215.1	-5.4
27	215.1	0.0
30	215.1	0.0

FINAL FLOW

RECORDER 5495

DST # 1

TIME(MIN) PRESSURE <> PRESSURE

3	266.6	266.6
6	244.7	-21.9
9	227.1	-17.6
12	216.2	-10.9
15	210.7	-5.5
18	206.3	-4.4
21	203.0	-3.3
24	200.8	-2.2
27	195.3	-5.5
30	195.3	0.0
33	195.3	0.0
36	195.3	0.0
39	195.3	0.0
42	195.3	0.0
45	195.3	0.0

LEWIS RALSTIN #1 DST #1
INITIAL SHUTIN

30 TOTAL FLOW TIME

Slope 8825.65 psi/cycle
P * 1466 psi

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1082.3	1.041	1082.3	11
	6	1214.4	0.778	132.1	6
	9	1308.4	0.637	94.0	4.
	12	1359.1	0.544	50.7	4
	15	1388.7	0.477	29.6	3
	18	1408.8	0.426	20.1	3
	21	1420.4	0.385	11.6	2
	24	1429.9	0.352	9.5	2
	27	1438.4	0.325	8.5	2
	30	1446.9	0.301	8.5	2
	33	1453.2	0.281	6.3	2
	36	1456.4	0.263	3.2	2
	39	1457.4	0.248	1.0	2
	42	1459.5	0.234	2.1	2
	45	1461.7	0.222	2.2	2
	48	1464.8	0.211	3.1	2
X	51	1468.1	0.201	3.3	2
	54	1469.1	0.192	1.0	2
	57	1469.1	0.184	0.0	2
X	60	1469.1	0.176	0.0	2

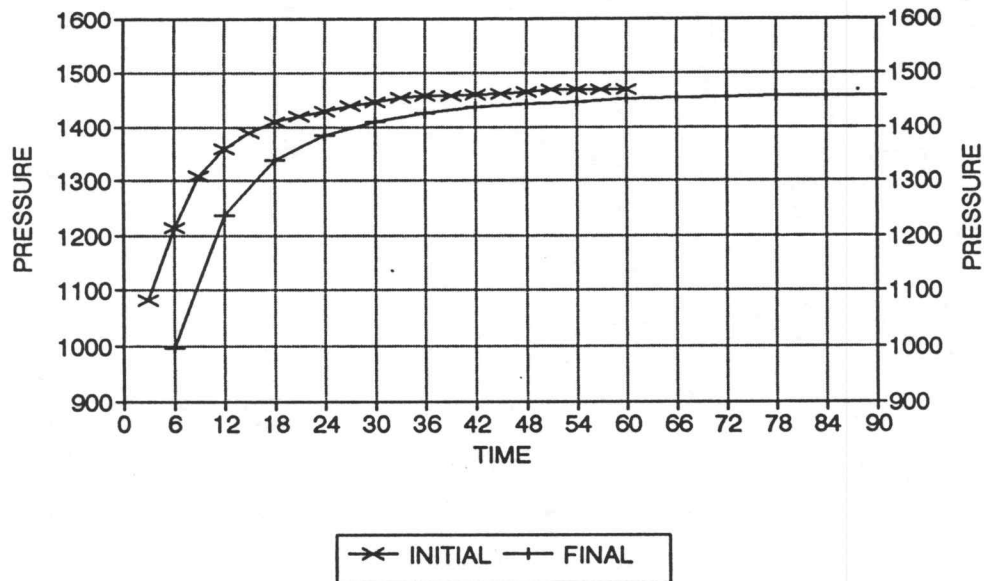
LEWIS RALSTON #1 DST #1
FINAL SHUTIN

75 TOTAL FLOW TIME

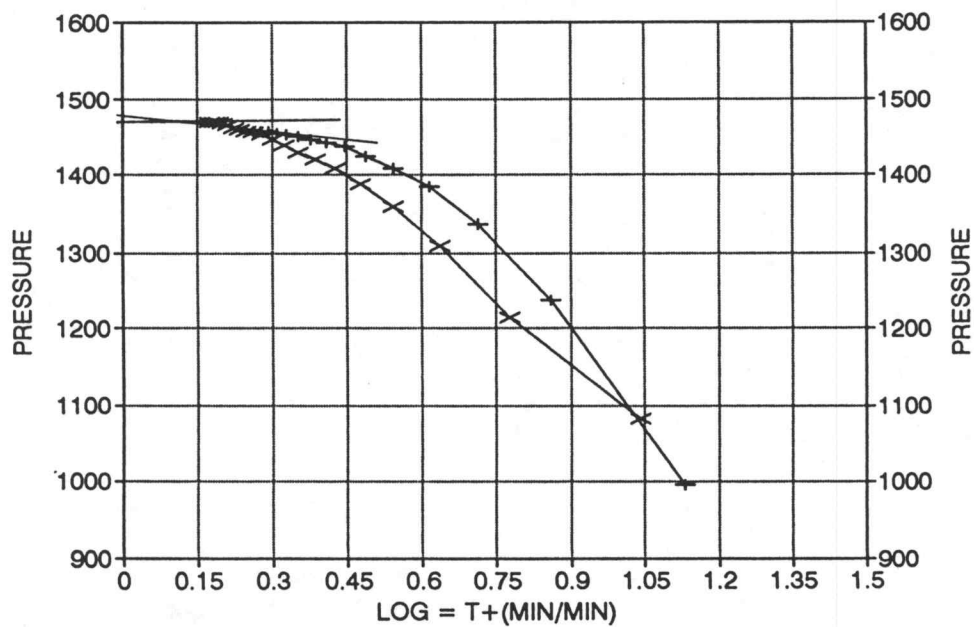
Slope 34611.51 psi/cycle
P * 1469 psi

		Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	996.7	1.130	996.7	14
	12	1237.6	0.860	240.9	7
	18	1336.9	0.713	99.3	5
	24	1384.5	0.615	47.6	4
	30	1408.8	0.544	24.3	4
	36	1424.7	0.489	15.9	3
	42	1437.3	0.445	12.6	3
	48	1442.6	0.409	5.3	3
	54	1446.9	0.378	4.3	2
	60	1451.1	0.352	4.2	2
	66	1453.2	0.330	2.1	2
X	72	1455.3	0.310	2.1	2
	78	1457.4	0.293	2.1	2
	84	1457.4	0.277	0.0	2
X	90	1457.4	0.263	0.0	2

LEWIS RALSTON #1 / DST #1 DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

WOOLSEY PETROLEUM CORP

LEWIS RALSTON #1

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	4	1.5	764	5	10	1.5	1274
10	9	1.5	1198	10	9	1.5	1198
15	8	1.5	1123	15	9	1.5	1198
20	8	1.5	1123	20	8.5	1.5	1160
25	8	1.5	1123	25	8.5	1.5	1160
30	8	1.5	1123	30	8.5	1.5	1160
				35	8.5	1.5	1160
				40	8.5	1.5	1160
				45	8.5	1.5	1160

Remarks: GAS TO SURFACE IN 2 MINUTES - GAS WILL BURN

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5516

Well Name & No.	<u>Lewis Ralstin #1</u>	Test No.	<u>#1</u>	Date	<u>6-12-93</u>
Company	<u>Woolsey Pet. Corp.</u>	Zone Tested	<u>Miss.</u>		
Address	<u>107 N. Market Ste. 600 Wichita, KS 67202-1807</u>	Elevation	<u>2286 (KB)</u>		
Co. Rep./Geo.	<u>Mike Maune</u>	Cont.	<u>Abercrombie Dds #5</u>	Est. Ft. of Pay	<u>13'</u>
Location: Sec.	<u>7</u>	Twp.	<u>28</u>	Rge.	<u>19</u>
				Co.	<u>Kiowa</u>
				State	<u>KS.</u>
No. of Copies	<u>11</u>	Distribution Sheet	<u>X</u>	Yes	<u>No</u>
				Turnkey	<u>X</u>
				Yes	<u>No</u>
				Evaluation	<u>yes</u>

Interval Tested 4868-4895 Drill Pipe Size 4.5 X-Hole
 Anchor Length 27' Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 4863 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4868 Wt. Pipe I.D. — 2.7 Ft. Run 406'
 Total Depth 4895 Drill Collar — 2.25 Ft. Run —
 Mud Wt. 9.2 lb/gal. Viscosity 45 Filtrate 9.6
 Tool Open @ 10:40 pm Initial Blow strong blow - bottom of bucket 15 sec.
GTS in 2 min. Gauged @ 1123 mcf
 Final Blow strong blow - Bottom of bucket as tool opened.
Gauged @ 1160 mcf

Recovery — Total Feet 216' Feet of Gas in Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>216'</u>	<u>Drilg mud w/spots oil</u>	%gas	%oil	%water
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2427 PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 277 PSI @ (depth) 4871 w/Clock No. 19960

(C) First Final Flow Pressure 211 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-In Pressure 1457 PSI @ (depth) 4892 w/Clock No. 26199

(E) Second Initial Flow Pressure 222 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 178 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1446 PSI Initial Opening 30 Test X 600

(H) Final Hydrostatic Mud 2343 PSI Initial Shut-In 60 Jars X 200

Final Flow 45 Safety Joint X 50

Final Shut-In 90 Straddle _____

Circ. Sub _____

Sampler _____

Extra Packer _____

Other eval 50

TOTAL PRICE \$ 900

Approved By Michael K. Maune

Our Representative Tom Horacek

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.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEWIS RALSTON #1 Test No. 2 Date 6/13/93
Company WOOLSEY PETROLEUM CORP Zone MISSISSIPPI
Address 107 N MARKET #600 WICHITA KS 67202 Elevation 2286
Co. Rep./Geo. MIKE MAUNE Cont. ABERCROMBIE #5 Est. Ft. of Pay 9
Location: Sec. 7 Twp. 28S Rge. 19W Co. KIOWA State KS

Interval Tested <u>4896-4905</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>9</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>406</u>
Top Packer Depth <u>4891</u>	Drill Collar - 2.25 Ft. Run <u> </u>
Bottom Packer Depth <u>4896</u>	Mud Wt. <u>9.2</u> lb/Gal.
Total Depth <u>4905</u>	Viscosity <u>76</u> Filtrate <u>11.2</u>

Tool Open @ 1:50 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS
GAS TO SURFACE IN 25 MINUTES - GAUGED @ 25.2 MCF/DAY
Final Blow BOTTOM OF BUCKET AS TOOL OPENED
GAUGED @ 72.4 MCF/DAY

Recovery - Total Feet 122 Flush Tool? NO

Rec. <u>122</u>	Feet of <u>GASSY & OIL CUT MUD 15%GAS/20%OIL/65%MUD</u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>

BHT 122 °F Gravity 38 °API 92 °F Corrected Gravity 35.9 °API
RW °F Chlorides ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2436.8 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 33.8 PSI (depth) 4898 w / Clock No. 19960

(C) First Final Flow Pressure 33.8 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1334.8 PSI (depth) 4902 w / Clock No. 26199

(E) Second Initial Flow Pressure 54.1 PSI AK1 Recorder No. Range

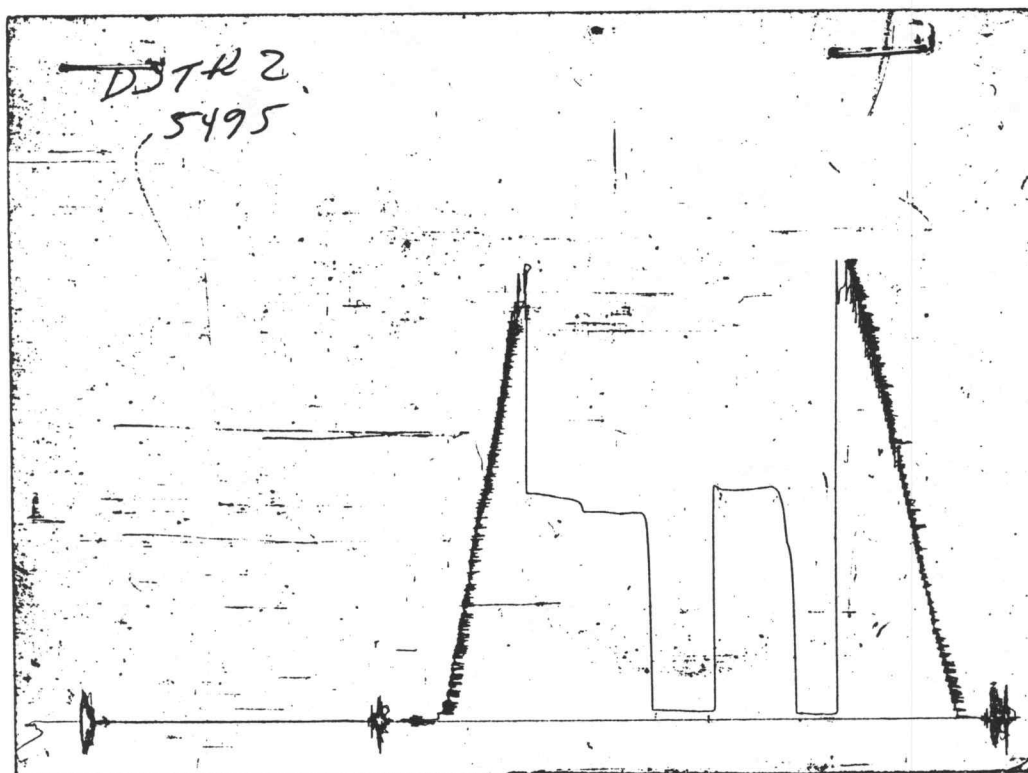
(F) Second Final Flow Pressure 66.4 PSI (depth) w / Clock No.

(G) Final Shut-in Pressure 1290.4 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2679.5 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2427	2436.8
(B) FIRST INITIAL FLOW PRESSURE	33	33.8
(C) FIRST FINAL FLOW PRESSURE	33	33.8
(D) INITIAL CLOSED-IN PRESSURE	1330	1334.8
(E) SECOND INITIAL FLOW PRESSURE	45	54.1
(F) SECOND FINAL FLOW PRESSURE	56	66.4
(G) FINAL CLOSED-IN PRESSURE	1288	1290.4
(H) FINAL HYDROSTATIC MUD	2364	2679.5

INITIAL FLOW

RECORDER 5495

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
3	33.8	33.8
6	33.8	0.0
9	33.8	0.0
12	33.8	0.0
15	33.8	0.0
18	33.8	0.0
21	33.8	0.0
24	33.8	0.0
27	33.8	0.0
30	33.8	0.0

FINAL FLOW

RECORDER 5495

DST # 2

TIME(MIN)	PRESSURE	<>PRESSURE
3	54.1	54.1
6	54.1	0.0
9	54.1	0.0
12	54.1	0.0
15	54.1	0.0
18	54.1	0.0
21	54.1	0.0
24	54.1	0.0
27	54.1	0.0
30	59.7	5.6
33	59.7	0.0
36	59.7	0.0
39	59.7	0.0
42	66.4	6.7
45	66.4	0.0

LEWIS RALSTIN #1 DST #2
INITIAL SHUTIN

30 TOTAL FLOW TIME

Slope 225470.03 psi/cycle
P * 1417 psi

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	919.6	1.041	919.6	11
	6	1027.4	0.778	107.8	6
	9	1250.3	0.637	222.9	4
	12	1302.1	0.544	51.8	4
	15	1319.1	0.477	17.0	3
	18	1323.2	0.426	4.1	3
	21	1323.2	0.385	0.0	2
	24	1323.2	0.352	0.0	2
	27	1323.2	0.325	0.0	2
	30	1323.2	0.301	0.0	2
	33	1323.2	0.281	0.0	2
	36	1323.2	0.263	0.0	2
	39	1323.2	0.248	0.0	2
	42	1323.2	0.234	0.0	2
	45	1323.2	0.222	0.0	2
	48	1323.2	0.211	0.0	2
X	51	1323.2	0.201	0.0	2
	54	1323.2	0.192	0.0	2
	57	1326.4	0.184	3.2	2
X	60	1334.8	0.176	8.4	2

LEWIS RALSTON #1 DST #2
FINAL SHUTIN

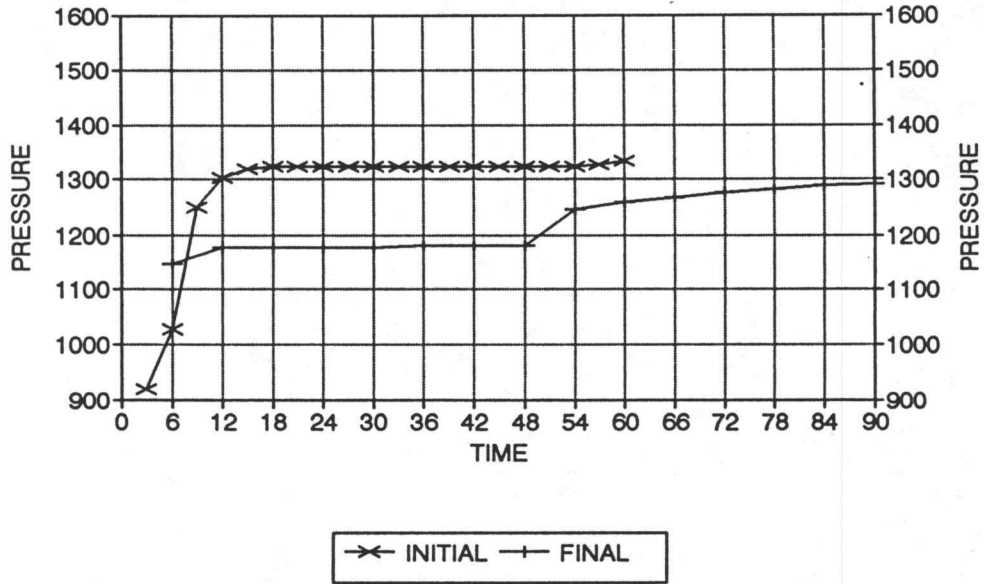
75 TOTAL FLOW TIME

Slope 257771.23 psi/cycle
P * 1387 psi

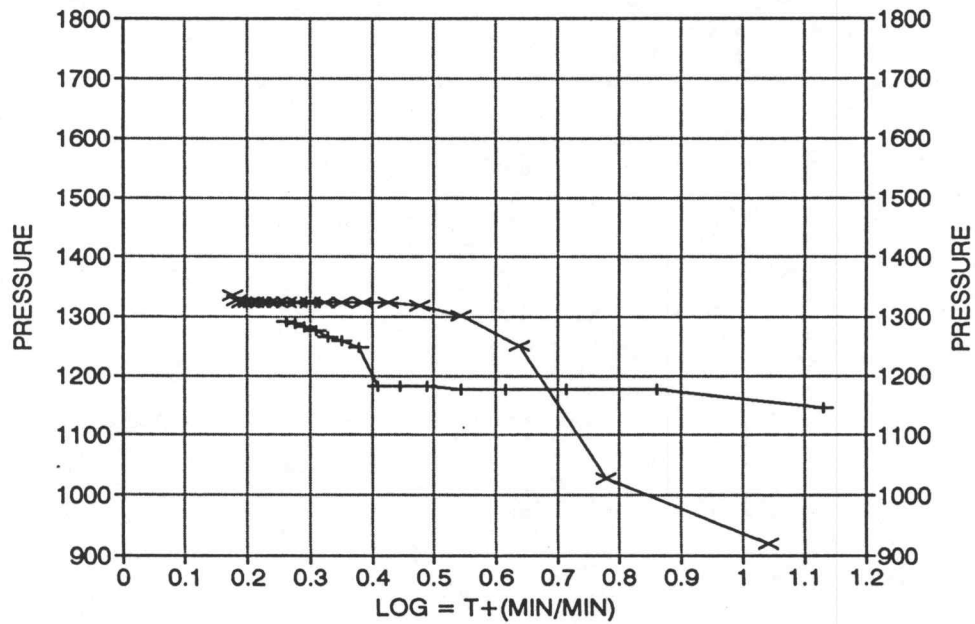
		Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	1146.8	1.130	1146.8	14
	12	1177.4	0.860	30.6	7
	18	1177.4	0.713	0.0	5
	24	1177.4	0.615	0.0	4
	30	1177.4	0.544	0.0	4
	36	1181.6	0.489	4.2	3
	42	1181.6	0.445	0.0	3
	48	1181.6	0.409	0.0	3
	54	1246.1	0.378	64.5	2
	60	1258.7	0.352	12.6	2
X	66	1266.1	0.330	7.4	2
	72	1276.7	0.310	10.6	2
	78	1282.1	0.293	5.4	2
	84	1288.3	0.277	6.2	2
X	90	1290.4	0.263	2.1	2

LEWIS RALSTON #1 / DST #2

DELTA T DELTA P



HORNER PLOT



FLUID SAMPLER DATA

Ticket No.: 5517 Date: 6/13/93
Company: WOOLSEY PETROLEUM CORP
Lease: LEWIS RALSTON #1 Test No.: 2
County: KIOWA Sec.: 7 Twp.: 28S Rng.: 19W

SAMPLER RECOVERY

Gas 9 CUBIC F
Oil 2300
Mud 400
Water
Other
Pressure 750
TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 7300
Resistivity 0.9 ohms@ 70 F
Viscosity 76
Mud Wt. 9.2
Filtrate 11.2
Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

GAS VOLUME REPORT

WOOLSEY PETROLEUM CORP

LEWIS RALSTON #1

DST # 2

MIN	WATER	ORIFICE	MCF/D	MIN	WATER	ORIFICE	MCF/D
25	22	0.375	16.7	5	22	0.75	66.6
30	50	0.375	25.2	10	20	0.75	63.5
				15	20	0.75	63.5
				20	22	0.75	66.6
				25	24	0.75	69.5
				30	24	0.75	69.5
				35	24	0.75	69.5
				40	26	0.75	72.4
				45	26	0.75	72.4

Remarks: GAS TO SURFACE IN 25 MINUTES - GAS WILL BURN

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5517

Well Name & No. <u>Lewis Ralstin #1</u>	Test No. <u>#2</u>	Date <u>6-13-93</u>
Company <u>Woolsey Pet. Corp.</u>	Zone Tested <u>MISS.</u>	
Address <u>107 N. Market Ste. 600 Wichita Ks. 67202-1801</u>	Elevation <u>2286 (KB)</u>	
Co. Rep./Geo. <u>Mike Maune</u>	Cont. <u>Abercrombie Dr. #5</u>	Est. Ft. of Pay <u>9'</u>
Location: Sec. <u>7</u>	Twp. <u>28</u>	Rge. <u>19</u>
	Co. <u>Kiowa</u>	State <u>KS</u>
No. of Copies <u>11</u>	Distribution Sheet <u>X</u>	Yes <u> </u> No <u> </u> Turnkey <u>X</u> Yes <u> </u> No <u> </u> Evaluation <u> </u>

Interval Tested <u>4896-4905</u>	Drill Pipe Size <u>4.5 x-166</u>
Anchor Length <u>9'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4891</u>	Hole Size — 77/8" Rubber Size — 63/4"
Bottom Packer Depth <u>4896</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>406'</u>
Total Depth <u>4905</u>	Drill Collar — 2.25 Ft. Run <u> </u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>76</u> Filtrate <u>11.2</u>
Tool Open @ <u>1:50 pm</u>	Initial Blow <u>Strong blow - bottom of bucket 30 sec.</u>
	<u>GTS in 25 mp. Gauged @ 25.2 mcf</u>
Final Blow <u>Bottom of bucket as tool opened.</u>	<u>Gauged @ 72.4 mcf</u>

Recovery — Total Feet <u>122'</u>	Feet of Gas in Pipe <u> </u>	Flush Tool? <u>NO</u>
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Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u>122'</u>	Feet Of <u>650 CM</u>	15 %gas	20 %oil	%water	65 %mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud

BHT <u>122</u> °F	Gravity <u>38</u>	°API @ <u>92</u>	°F Corrected Gravity <u>35.9</u>	°API
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RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm	Recovery Chlorides <u>7,000</u> ppm	System
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(A) Initial Hydrostatic Mud <u>2427</u>	PSI	AK1 Recorder No. <u>13277</u>	Range <u>4125</u>
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(B) First Initial Flow Pressure <u>33</u>	PSI	@ (depth) <u>4898</u>	w/Clock No. <u>19960</u>
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(C) First Final Flow Pressure <u>33</u>	PSI	AK1 Recorder No. <u>5495</u>	Range <u>4200</u>
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(D) Initial Shut-In Pressure <u>1330</u>	PSI	@ (depth) <u>4902</u>	w/Clock No. <u>26199</u>
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(E) Second Initial Flow Pressure <u>45</u>	PSI	AK1 Recorder No. <u> </u>	Range <u> </u>
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(F) Second Final Flow Pressure <u>56</u>	PSI	@ (depth) <u> </u>	w/Clock No. <u> </u>
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(G) Final Shut-In Pressure <u>1288</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>600</u>
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(H) Final Hydrostatic Mud <u>2364</u>	PSI	Initial Shut-In <u>60</u>	Jars <u>X</u> <u>200</u>
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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.

Final Flow <u>45</u>	Safety Joint <u>X</u> <u>50</u>
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Final Shut-In <u>90</u>	Straddle <u> </u>
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Approved By Michael K. Maune

Our Representative Tom Horacek

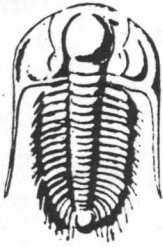
Circ. Sub

Sampler X 200

Extra Packer

Other wal 50

TOTAL PRICE \$ 1100



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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Fax (913) 625-5620

TO: Debbie Olsen

FROM: Tina

SUBJECT: DST #3

DATE: 6-14-93

NUMBER OF PAGES INCLUDING COVER SHEET: 9

OUR FAX NUMBER IS (913) 625-5620

IF YOU DID NOT RECEIVE ALL PAGES PLEASE CALL US AT:

(800) 728-5369

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LEWIS RALSTON #1 Test No. 3 Date 6/14/93
Company WOOLSEY PETROLEUM CORP Zone MISSISSIPPI
Address 107 N MARKET #600 WICHITA KS 67202 Elevation 2286
Co. Rep./Geo. MIKE MAUNE Cont. ABERCROMBIE #5 Est. Ft. of Pay 9
Location: Sec. 7 Twp. 28S Rge. 19W Co. KIOWA State KS

Interval Tested 4906-4915
Anchor Length 9
Top Packer Depth 4901
Bottom Packer Depth 4906
Total Depth 4915

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 406
Drill Collar - 2.25 Ft. Run 9.2 lb/Gal.
Mud Wt. 76 Viscosity 11.2 Filtrate

Tool Open 5:40 AM Initial Blow 2" BLOW - BUILT TO BOTTOM OF BUCKET IN 16 MINUTES
ISI: bled off blow - NO BLOW BACK
Final Blow 1" BLOW - BUILT TO 8"
FSI: bled off blow - NO BLOW BACK

Recovery - Total Feet 680 Flush Tool? NO

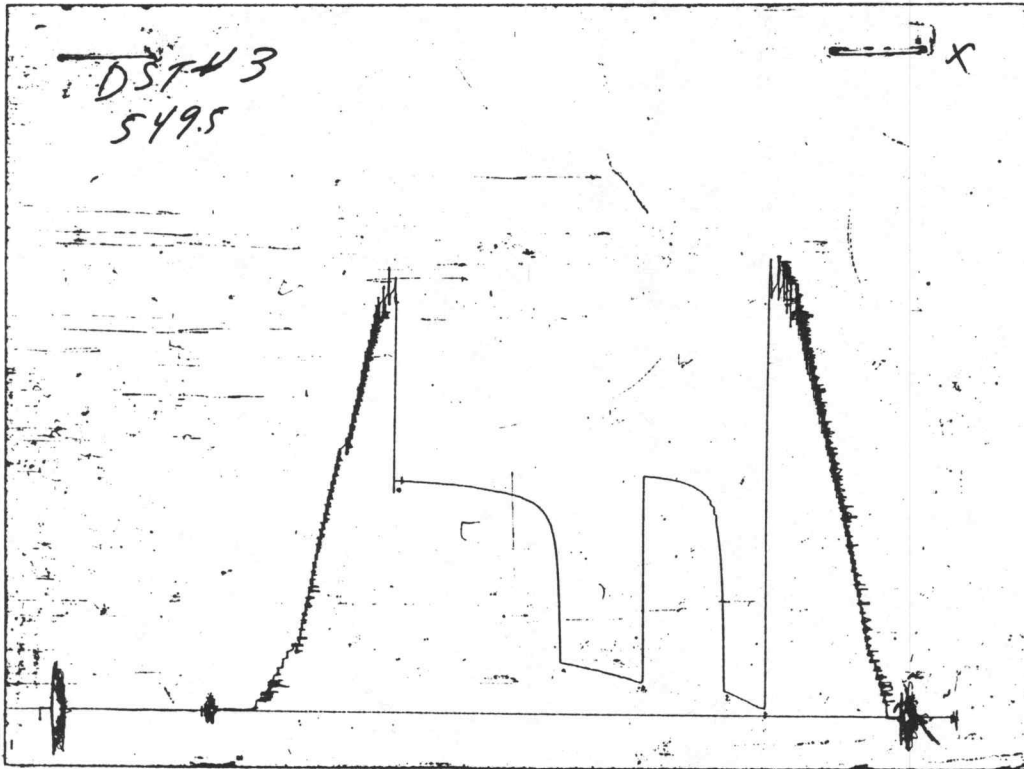
Rec. 30 Feet of DRILLING MUD WITH SPOTS OF OIL
Rec. 650 Feet of SALT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity 76 °API 14000 ppm Recovery 7000 ppm System
RW 0.44 °F Chlorides _____

(A) Initial Hydrostatic Mud 2426.3 PSI AK1 Recorder No. 13277 Range 4125
(B) First Initial Flow Pressure 47.3 PSI @ (depth) 4908 w / Clock No. 19960
(C) First Final Flow Pressure 146.7 PSI AK1 Recorder No. 5495 Range 4200
(D) Initial Shut-in Pressure 1372.9 PSI @ (depth) 4912 w / Clock No. 26199
(E) Second Initial Flow Pressure 195.3 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 304.7 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1328.5 PSI Initial Opening 30 Final Flow 60
(H) Final Hydrostatic Mud 2389.5 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2417	2426.3
(B) FIRST INITIAL FLOW PRESSURE	45	47.3
(C) FIRST FINAL FLOW PRESSURE	134	146.7
(D) INITIAL CLOSED-IN PRESSURE	1351	1372.9
(E) SECOND INITIAL FLOW PRESSURE	178	195.3
(F) SECOND FINAL FLOW PRESSURE	299	304.7
(G) FINAL CLOSED-IN PRESSURE	1309	1328.5
(H) FINAL HYDROSTATIC MUD	2375	2389.5

INITIAL FLOW

RECORDER 5495

DST # 3

TIME(MIN) PRESSURE <>PRESSURE

3	47.3	47.3
6	53.1	5.8
9	61.9	8.8
12	74.3	12.4
15	84.3	10.0
18	97.7	13.4
21	105.5	7.8
24	115.6	10.1
27	125.6	10.0
30	135.6	10.0
33	146.7	11.1

FINAL FLOW

RECORDER 5495

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

3	195.3	195.3
6	203.1	7.8
9	207.4	4.3
12	216.2	8.8
15	223.8	7.6
18	227.1	3.3
21	233.7	6.6
24	241.3	7.6
27	245.8	4.5
30	251.3	5.5
33	257.8	6.5
36	262.2	4.4
39	267.7	5.5
42	272.1	4.4
45	277.5	5.4
48	282.9	5.4
51	288.4	5.5
54	291.7	3.3
57	294.9	3.2
60	299.3	4.4
63	304.7	5.4

LEWIS RALSTON #1 DST #3
INITIAL SHUTIN

30 INITIAL FLOW TIME

SLOPE 352.4 PSI/CYCLE
P* 1432.50 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	-----	-----	-----	-----	-----
	3	650.4	1.041	650.4	11
	6	998.9	0.778	348.5	6
	9	1152.1	0.637	153.2	4
	12	1221.8	0.544	69.7	4
	15	1252.4	0.477	30.6	3
	18	1277.7	0.426	25.3	3
	21	1294.6	0.385	16.9	2
X	24	1308.4	0.352	13.8	2
	27	1316.9	0.325	8.5	2
	30	1326.4	0.301	9.5	2
	33	1335.9	0.281	9.5	2
	36	1343.3	0.263	7.4	2
	39	1349.6	0.248	6.3	2
	42	1353.8	0.234	4.2	2
	45	1354.9	0.222	1.1	2
	48	1358.1	0.211	3.2	2
	51	1362.3	0.201	4.2	2
	54	1366.5	0.192	4.2	2
	57	1368.6	0.184	2.1	2
	60	1371.8	0.176	3.2	2
X	63	1372.9	0.169	1.1	1

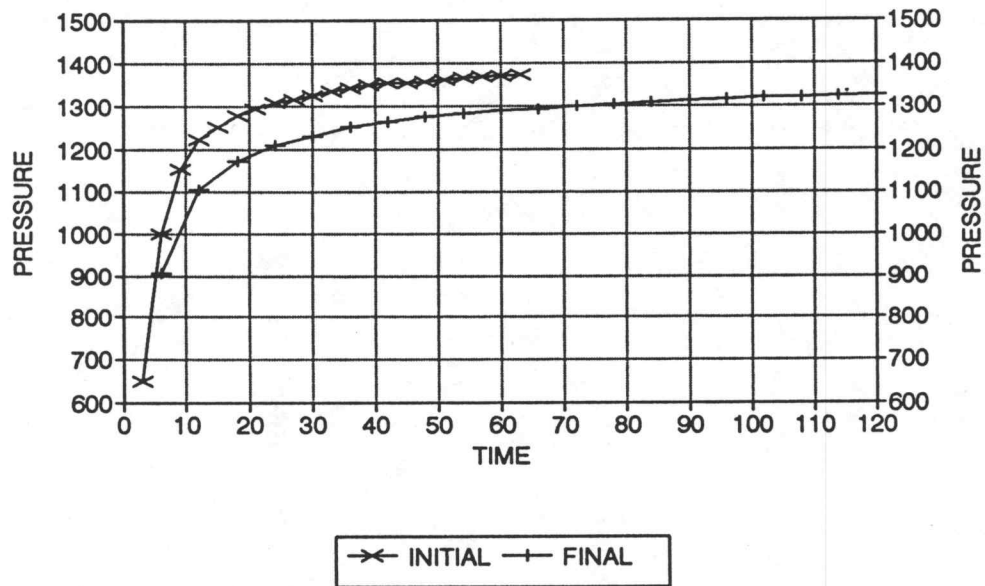
LEWIS RALSTON #1 DST #3
FINAL SHUTIN

90 TOTAL FLOW TIME

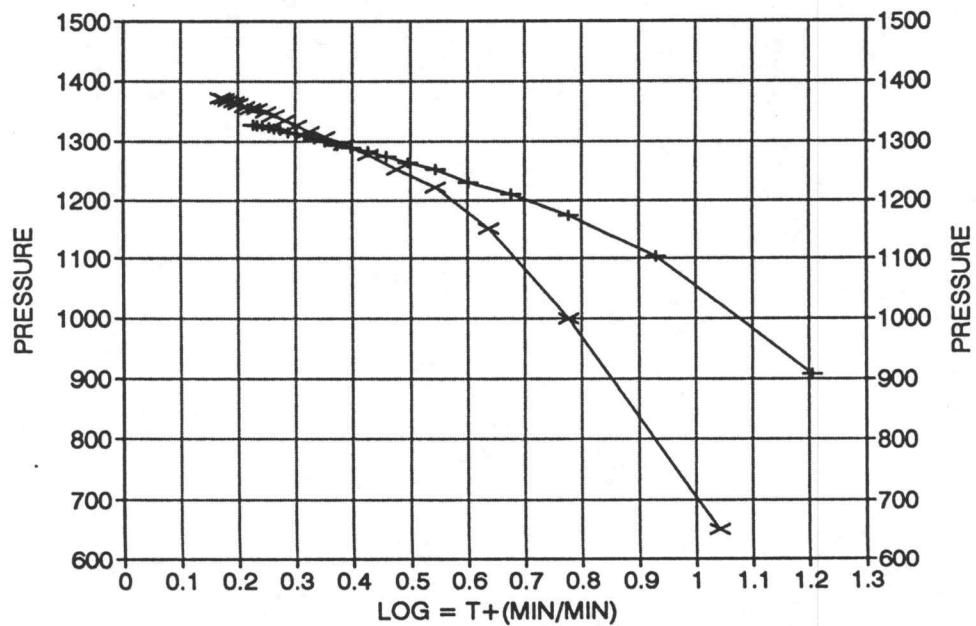
SLOPE 171.7 PSI/CYCLE
P* 1367.3 PSI

	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	-----	-----	-----	-----
	6 906.9	1.204	906.9	16
	12 1104.5	0.929	197.6	9
	18 1173.1	0.778	68.6	6
	24 1209.1	0.677	36.0	5
	30 1229.2	0.602	20.1	4
	36 1251.3	0.544	22.1	4
	42 1263.1	0.497	11.8	3
	48 1274.6	0.459	11.5	3
	54 1283.1	0.426	8.5	3
	60 1289.3	0.398	6.2	3
	66 1292.5	0.374	3.2	2
	72 1298.9	0.352	6.4	2
	78 1305.2	0.333	6.3	2
	84 1309.4	0.316	4.2	2
	90 1313.7	0.301	4.3	2
	96 1315.8	0.287	2.1	2
X	102 1320.1	0.275	4.3	2
	108 1321.1	0.263	1.0	2
	114 1324.3	0.253	3.2	2
	120 1326.4	0.243	2.1	2
	126 1327.4	0.234	1.0	2
X	132 1328.5	0.226	1.1	2

LEWIS RALSTON #1 / DST #3 DELTA T DELTA P



HORNER PLOT



FLUID SAMPLER DATA

Ticket No.: 5518 Date: 6/14/93
Company: WOOLSEY PETROLEUM CORP
Lease: LEWIS RALSTON #1 Test No.: 3
County: KIOWA Sec.: 7 Twp.: 28S Rng.: 19W

SAMPLER RECOVERY

Gas
Oil
Mud 100
Water 3900
Other
Pressure 80
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.44 ohms@ 76 F
Chlorides 14000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 7500
Resistivity 0.81 ohms@ 70 F
Viscosity 76
Mud Wt. 9.2
Filtrate 11.2
Other

PIPE RECOVERY

TOP

Resistivity 0.48 ohms@ 76 F
Chlorides 12000 ppm

MIDDLE

Resistivity 0.48 ohms@ 76 F
Chlorides 12000 ppm

BOTTOM

Resistivity 0.44 ohms@ 76 F
Chlorides 14000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5518

Well Name & No.	<u>Lewis Ralstin #1</u>	Test No.	<u>#3</u>	Date	<u>6-14-93</u>
Company	<u>Woolsey Pet. Corp.</u>	Zone Tested	<u>Miss</u>		
Address	<u>107 N. Market Ste. 600 Wichita, KS 67202-1807</u>	Elevation	<u>2286</u>	<u>(Ks)</u>	
Co. Rep./Geo.	<u>Mike Maune</u>	cont.	<u>Abercrombie Drle #5</u>	Est. Ft. of Pay	<u>9'</u>
Location: Sec.	<u>7</u>	Twp.	<u>28</u>	Rge.	<u>19</u>
				Co.	<u>Kiowa</u>
				State	<u>Ks.</u>
No. of Copies	<u>11</u>	Distribution Sheet	<u>X</u>	Yes	<u>No</u>
		Turnkey	<u>X</u>	Yes	<u>No</u>
		Evaluation	<u>No</u>		

Interval Tested	<u>4906-4915</u>	Drill Pipe Size	<u>4.5 x-Hole</u>
Anchor Length	<u>9'</u>	Top Choke — 1"	Bottom Choke — <u>3/4"</u>
Top Packer Depth	<u>4901</u>	Hole Size — 77/8"	Rubber Size — 63/4"
Bottom Packer Depth	<u>4906</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u>406'</u>
Total Depth	<u>4915</u>	Drill Collar — 2.25 Ft. Run	<u>—</u>
Mud Wt.	<u>9.2</u>	Viscosity	<u>76</u>
	lb/gal.	Filtrate	<u>11.2</u>

Tool Open @ 5:40 AM Initial Blow 2 in blow - built to bottom of bucket 16 min.
IST - bled off blow - NO blow back

Final Blow 1 in blow - built to 8 in.
FST - bled off blow - NO blow back

Recovery — Total Feet ~~680~~ 680' Feet of Gas In Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>30</u>	Feet Of <u>Drks mud w/spots oil</u>	%gas	%oil	%water	%mud
Rec. <u>650</u>	Feet Of <u>Salt water</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .44 @ 76 °F Chlorides 14000 ppm Recovery Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud	<u>2417</u>	PSI	AK1 Recorder No.	<u>13277</u>	Range	<u>4125</u>
(B) First Initial Flow Pressure	<u>45</u>	PSI	@ (depth)	<u>4908</u>	w/Clock No.	<u>19960</u>
(C) First Final Flow Pressure	<u>134</u>	PSI	AK1 Recorder No.	<u>5495</u>	Range	<u>4200</u>
(D) Initial Shut-In Pressure	<u>1351</u>	PSI	@ (depth)	<u>4912</u>	w/Clock No.	<u>26199</u>
(E) Second Initial Flow Pressure	<u>178</u>	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	<u>299</u>	PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	<u>1309</u>	PSI	Initial Opening	<u>30</u>	Test	<u>X</u> <u>600</u>
(H) Final Hydrostatic Mud	<u>2375</u>	PSI	Initial Shut-In	<u>60</u>	Jars	<u>X</u> <u>200</u>

Final Flow 60 Safety Joint X 50

Final Shut-In 120 Straddle _____

Circ. Sub _____

Sampler X 200

Extra Packer _____

Other eval 25

TOTAL PRICE \$ 1075

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Approved By Michael K. Maune

Our Representative Tom Horacek