

DRILL-STEM TEST DATA

Well Name: SUCHY #1
Company : RITCHIE EXPLORATION INC
Location - Sec: 31 **Twp:** 18S **Rge:** 27W
County: LANE **State:** KS
Date: 09/06/95

Credit rig time - 6 1/2 hrs @ 155.00 = 1007.50
then deduct from skyline

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Exploration Inc
WELL NAME: Suchy #1
LOCATION : 31-18S-27W, Lane Cty, KS
INTERVAL : 4287.00 To 4302.00 ft

DATE 09/04/95
KB 2730.00 ft TICKET NO: 7991 DST #1
GR 0.00 ft FORMATION: LKC, Middle Creek
TD 4302.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13309	13309	13276			PF Fr. 0140 to 0210 hr
SI 30	Range(Psi)	4700.0	4700.0	4025.0	0.0	0.0	IS Fr. 0210 to 0240 hr
SF 30	Clock(hrs)	AK-1	AK-1	27573			SF Fr. 0240 to 0310 hr
FS 30	Depth(ft)	4297.0	4297.0	4292.0	0.0	0.0	FS Fr. 0310 to 0340 hr

	Field	1	2	3	4	
A. Init Hydro	2124.0	2148.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	412.0	423.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	412.0	423.0	0.0	0.0	0.0	T OPEN 0140 hr
C. In Shut-in	710.0	723.0	0.0	0.0	0.0	T PULLED 0340 hr
D. Init Flow	412.0	425.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	412.0	425.0	0.0	0.0	0.0	
F. Fl Shut-in	710.0	715.0	0.0	0.0	0.0	
G. Final Hydro	2065.0	2049.0	0.0	0.0	0.0	
Inside/Outside	O	O	I			

RECOVERY

Tot Fluid 830.00 ft of 0.00 ft in DC and 830.00 ft in DP
830.00 ft of Drilling Mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

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

BLOW DESCRIPTION

Initial Blow -
Weak surface blow, died in 20 min

Final Blow -
No return blow

*Misrun due to broken or leaking Circ.
Sub.

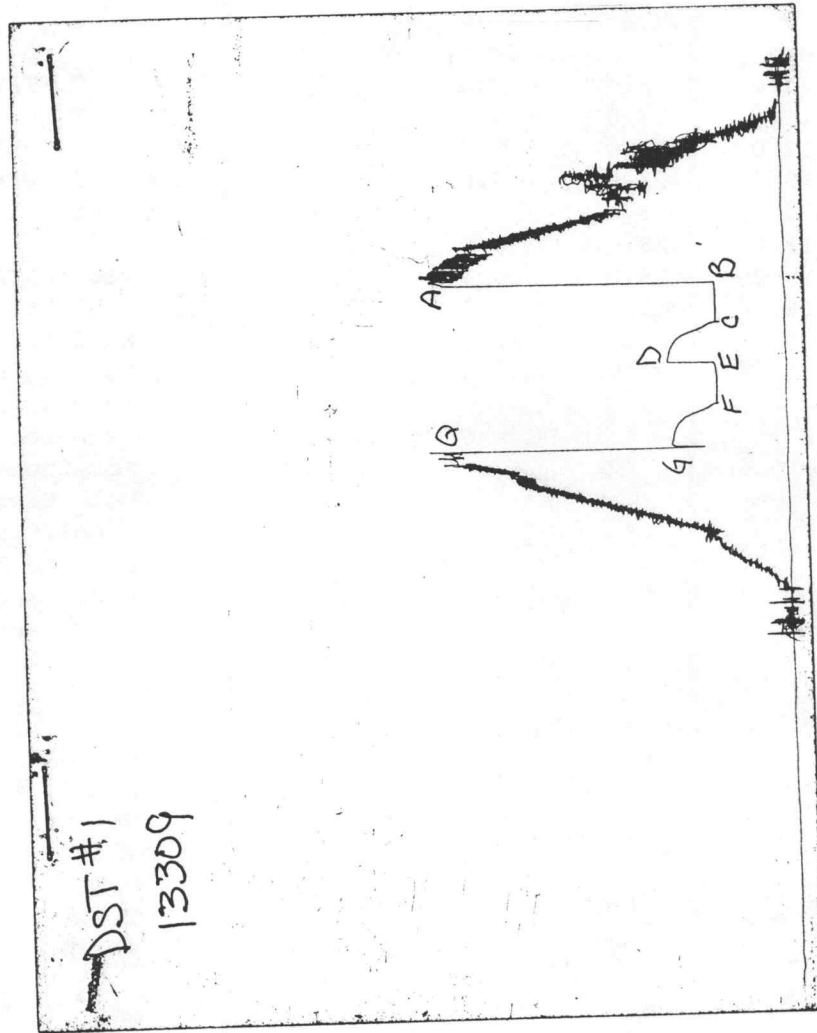
SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	47.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Bob Mathiesen
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7991

Well Name & No. Suchy #1 Test No. 1 Date 9-4-95
 Company Ritchie Exploration, Inc. Zone Tested L/KC. Middle Creek
 Address 125 N. Market Ste. 1000 Wichita KS. 67202 Elevation 2730 (KB)
 Co. Rep./Geo. Bob Mathiesen Cont. White & Ellis #9 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 18^S Rge. 27^W Co. Lane State KS.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes X No _____ Evaluation _____

Interval Tested 4287 - 4302 Drill Pipe Size 4 1/2" KH
 Anchor Length 15' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4282 Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4287 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4302 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 lb/gal. Viscosity 47 Filtrate 10.4
 Tool Open @ 1:40 am Initial Blow Weak surface blow died in 20 mins.

Final Blow No return blow. (Misrun due to broken or leaking Circ. Sub.)

Recovery — Total Feet 830' Feet of Gas in Pipe _____ Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>830'</u>	Feet Of <u>Drlg. Mud</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 112° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud 2124 PSI Ak1 Recorder No. 13276 Range 4025

(B) First Initial Flow Pressure 412 PSI @ (depth) 4292 w/Clock No. 27573

(C) First Final Flow Pressure 412 PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-In Pressure 710 PSI @ (depth) 4297 w/Clock No. 23832

(E) Second Initial Flow Pressure 412 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 412 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 710 PSI Initial Opening 30 Test Misrun n/c

(H) Final Hydrostatic Mud 2065 PSI Initial Shut-In 30 Jars _____

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 30 Safety Joint _____

Final Shut-In 30 Straddle _____

Circ. Sub X

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ n/c

Approved By _____

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Exploration Inc
WELL NAME: Suchy #1
LOCATION : 31-18S-27W, Lane Cty, KS
INTERVAL : 4286.00 To 4302.00 ft

DATE 09/04/95
KB 2730.00 ft TICKET NO: 7992 DST #2
GR 0.00 ft FORMATION: LKC, Middle Creek
TD 4302.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13309	13309	13276			PF Fr. 0750 to 0820 hr
SI 30 Range(Psi)	4700.0	4700.0	4025.0	0.0	0.0	IS Fr. 0820 to 0850 hr
SF 30 Clock(hrs)	23832	23832	27573			SF Fr. 0850 to 0920 hr
FS 30 Depth(ft)	4297.0	4297.0	4292.0	0.0	0.0	FS Fr. 0920 to 0950 hr

	Field	1	2	3	4	
A. Init Hydro	2183.0	2191.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	23.0	28.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	23.0	28.0	0.0	0.0	0.0	T OPEN 0750 hr
C. In Shut-in	400.0	397.0	0.0	0.0	0.0	T PULLED 0950 hr
D. Init Flow	35.0	33.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	35.0	33.0	0.0	0.0	0.0	
F. Fl Shut-in	353.0	377.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2159.0	2174.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
20.00 ft of Muddy Water w/ scum of oil - 40% water
60% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

RW .20 @ 80 F

SALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
Surface blow increased to .5"

Final Blow -
Surface return after 10 min staying
steady throughout

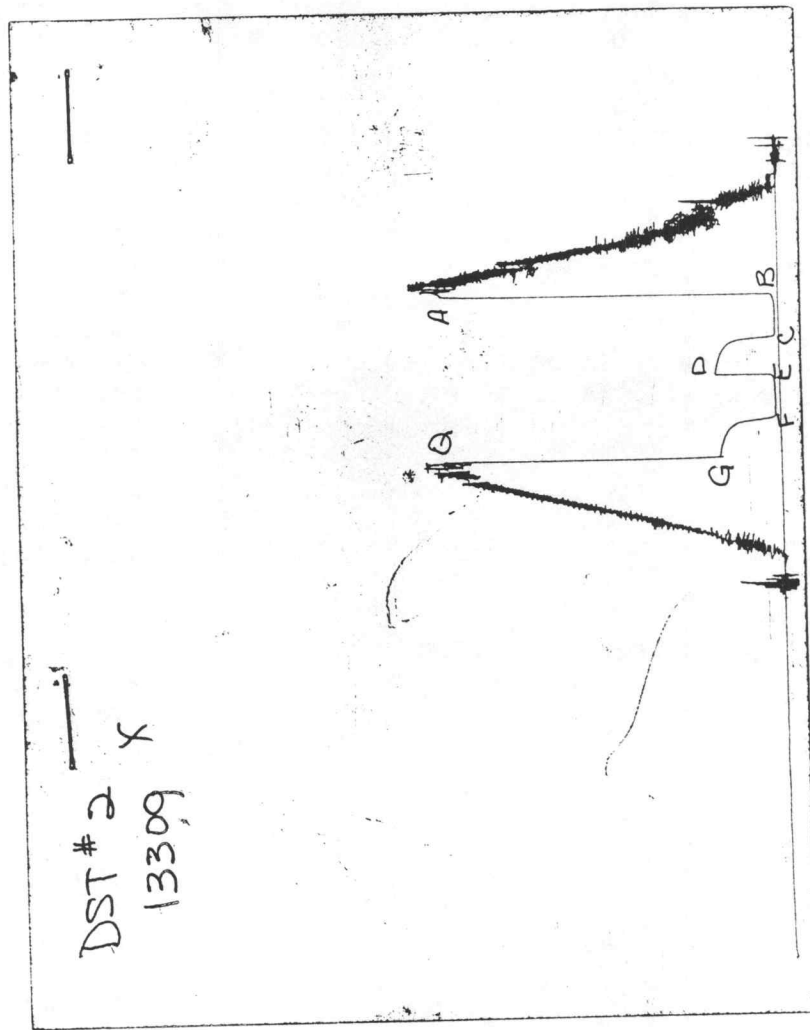
SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	47.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Bob Mathieson
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7992

Well Name & No.	Suchy #1	Test No.	2	Date	9-4-95
Company	Ritchie Exploration, Inc.	Zone Tested	L/KC. Middle Creek		
Address	125 N. Market Ste 1000 Wichita, KS. 67202	Elevation	2730 (KB)		
Co. Rep./Geo.	Bob Mathiesen	Cont.	White & Ellis #9	Est. Ft. of Pay	
Location: Sec.	31	Twp.	18 ^S	Rge.	27 ^W
		Co.	Lane	State	KS.
No. of Copies		Distribution Sheet	Yes	No	Turnkey
			Yes	X	No
					Evaluation

Interval Tested	4286 - 4302	Drill Pipe Size	4 1/2" XH
Anchor Length	16'	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4281	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4286	Wt. Pipe I.D. — 2.7 Ft. Run	—
Total Depth	4302	Drill Collar — 2.25 Ft. Run	—
Mud Wt.	9.3	Viscosity	47
	lb/gal.	Filtrate	11.2
Tool Open @	7:50 am	Initial Blow	Surface blow increased to 1/2"

Final Blow Surface return after 10 mins staying steady throughout.

Recovery — Total Feet	20'	Feet of Gas in Pipe	30 —	Flush Tool?	No
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	20' Feet Of	Muddy Wtr.	%gas	%oil	40 %water 60 %mud
Rec.	Feet Of	w/scum oil	%gas	%oil	%water %mud
Rec.	Feet Of	in tool	%gas	%oil	%water %mud

BHT 115° °F Gravity °API @ °F Corrected Gravity °API

RW .20 @ 80 °F Chlorides 30,000 ppm Recovery Chlorides 3,200 ppm System

(A) Initial Hydrostatic Mud 2183 PSI AK1 Recorder No. 13276 Range 4025

(B) First Initial Flow Pressure 23 PSI @ (depth) 4292 w/Clock No. 27573

(C) First Final Flow Pressure 23 PSI AK1 Recorder No. 13309 Range 4700

(D) Initial Shut-In Pressure 400 PSI @ (depth) 4297 w/Clock No. 23832

(E) Second Initial Flow Pressure 35 PSI AK1 Recorder No. — Range —

(F) Second Final Flow Pressure 35 PSI @ (depth) — w/Clock No. —

(G) Final Shut-In Pressure 353 PSI Initial Opening 30 Test 600

(H) Final Hydrostatic Mud 2159 PSI Initial Shut-In 30 Jars

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Final Flow 30 Safety Joint

Final Shut-In 30 Straddle

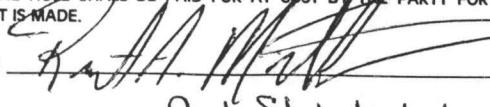
Circ. Sub X N/C

Sampler

Extra Packer

Other

TOTAL PRICE \$ 600

Approved By 

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Exploration Inc
WELL NAME: Suchy #1
LOCATION : 31-18S-27W, Lane Cty, KS
INTERVAL : 4311.00 To 4320.00 ft

DATE 09/06/95
KB 2730.00 ft TICKET NO: 7993 DST #3
GR 0.00 ft FORMATION: LKC "L"
TD 4640.00 ft TEST TYPE: STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	0 Rec.	13339	13339	13309	13276		PF Fr. 0730 to hr
SI	0 Range(Psi)	4025.0	4025.0	4700.0	4000.0	0.0	IS Fr. to hr
SF	0 Clock(hrs)	23934	23934	23832	27573		SF Fr. to hr
FS	0 Depth(ft)	4322.0	4322.0	4315.0	4298.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2143.0	2140.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 0730 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2123.0	2114.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	M	I		Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 190.00 ft of 0.00 ft in DC and 190.00 ft in DP
190.00 ft of Drilling Mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

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

BLOW DESCRIPTION

Initial Blow -
Packer failed immediately, tried to
reset, no help

MUD DATA-----

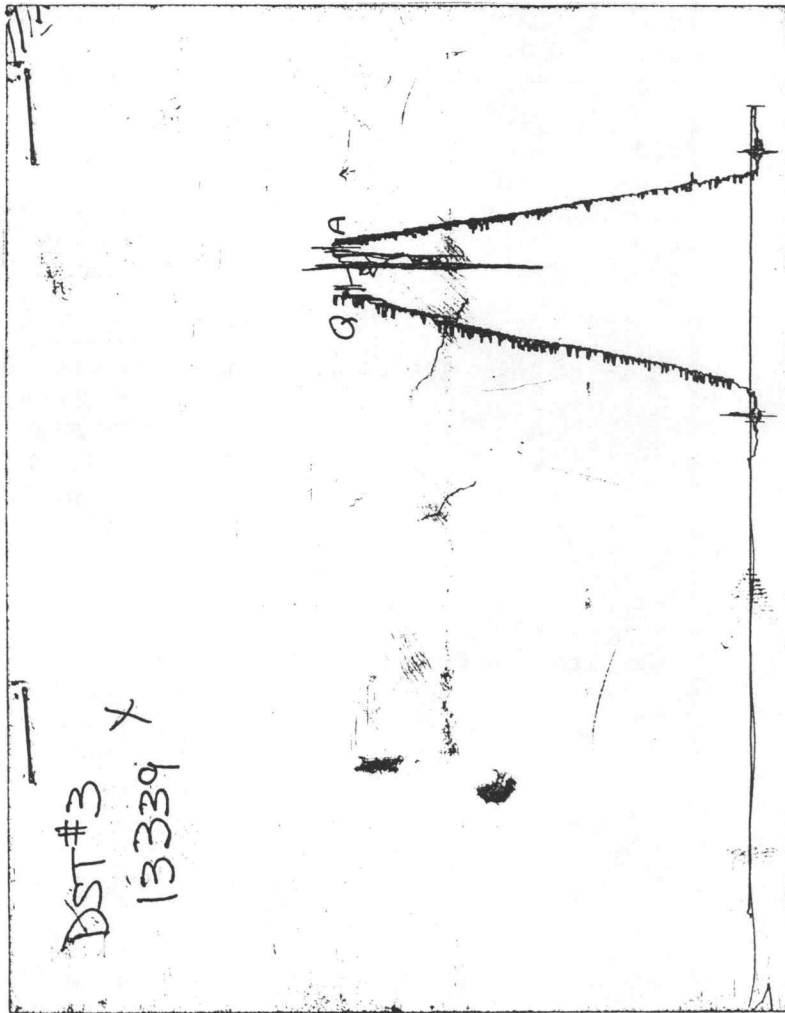
Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	48.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Bob Mathieson
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful:

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7993

Well Name & No.	Suchy #1	Test No.	3	Date	9-6-95
Company	Ritchie Exploration, Inc.	Zone Tested	L/KC 'L'zn.		
Address	125 N. Market Ste. 1000	Wichita, KS. 67202	Elevation	2730 (KB)	
Co. Rep./Geo.	Bob Mathiesen	cont.	White & Ellis #9	Est. Ft. of Pay	
Location: Sec.	31	Twp.	18 ^s	Rge.	27 ^w
		Co.	Lane	State	KS.
No. of Copies	Normal	Distribution Sheet	Yes ☒ No ☐	Turnkey	Yes ☒ No ☐
				Evaluation	

Interval Tested	4311 - 4320	Drill Pipe Size	4 1/2" XH
Anchor Length	9'	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4306 - 4311	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4320	Wt. Pipe I.D. — 2.7 Ft. Run	—
Total Depth	(RTD) 4640	Drill Collar — 2.25 Ft. Run	—
Mud Wt.	9.3 lb/gal.	Viscosity	48
		Filtrate	11.2
Tool Open @	7:30 am	Initial Blow	Packer Failed immediately - tried to reset - no help.
Final Blow			

Recovery — Total Feet	725' 190'	Feet of Gas in Pipe		Flush Tool?	
Rec.		Feet Of	%gas	%oil	%water
			%mud		
Rec.	190'	Feet Of	%gas	%oil	%water
			%mud		
Rec.	725'	Feet Of	Drilg Mud		
			%gas	%oil	%water
			%mud		
Rec.		Feet Of	%gas	%oil	%water
			%mud		
Rec.		Feet Of	%gas	%oil	%water
			%mud		
BHT	112°	°F Gravity		°API @	
				°F Corrected Gravity	
RW		@	°F Chlorides	ppm Recovery	Chlorides 3,500 ppm System
(A) Initial Hydrostatic Mud	2500 2143	PSI	AK1 Recorder No.	13276	Range 4000
(B) First Initial Flow Pressure		PSI	@ (depth)	4298	w/Clock No. 27573
(C) First Final Flow Pressure		PSI	AK1 Recorder No.	13309	Range 4700
(D) Initial Shut-In Pressure		PSI	@ (depth)	4315	w/Clock No. 23832
(E) Second Initial Flow Pressure		PSI	AK1 Recorder No.	13339	Range 4025
(F) Second Final Flow Pressure		PSI	@ (depth)	4322	w/Clock No. 23934
(G) Final Shut-In Pressure		PSI	Initial Opening		Test 400
(H) Final Hydrostatic Mud	2476 2123	PSI	Initial Shut-In		Jars

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Final Flow		Safety Joint	
Final Shut-In		Straddle	X 250
		Circ. Sub	X N/C
		Sampler	
		Extra Packer	X 150
		Other	
		TOTAL PRICE \$	800

Approved By _____

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Ritchie Exploration Inc
WELL NAME: Suchy #1
LOCATION : 31-18S-27W, Lane Cty, KS
INTERVAL : 4285.00 To 4320.00 ft

DATE 09/06/95
KB 2730.00 ft TICKET NO: 7994 DST #4
GR 0.00 ft FORMATION: LKC "L"
TD 4640.00 ft TEST TYPE: STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13339	13339	13276	13309		PF Fr. 1130 to 1215 hr
SI 45 Range(Psi)	4025.0	4025.0	4000.0	4700.0	0.0	IS Fr. 1215 to 1300 hr
SF 45 Clock(hrs)	23934	23934	23573	23832		SF Fr. 1300 to 1345 hr
FS 45 Depth(ft)	4310.0	4310.0	4290.0	4635.0	0.0	FS Fr. 1345 to 1430 hr

	Field	1	2	3	4	
A. Init Hydro	2219.0	2254.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	29.0	65.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	60.0	82.0	0.0	0.0	0.0	T OPEN 1130 hr
C. In Shut-in	661.0	674.0	0.0	0.0	0.0	T PULLED 1430 hr
D. Init Flow	90.0	114.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	110.0	127.0	0.0	0.0	0.0	
F. Fl Shut-in	642.0	607.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2190.0	2184.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	M	M	I	O		Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 210.50 ft of 0.00 ft in DC and 210.50 ft in DP
0.50 ft of Free Oil - 100% oil
60.00 ft of Watery Mud w/ Oil Specks - 20% water, 80% mud
150.00 ft of Muddy Water - 50% water, 50% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

RW .23 @ 80 F

SALINITY 26000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
Weak surface blow slowly built to 2.5"

Initial Shutin -
Bled off blow, no return

Final Blow -
Surge at open, very weak surface
return in 5 min, steady throughout

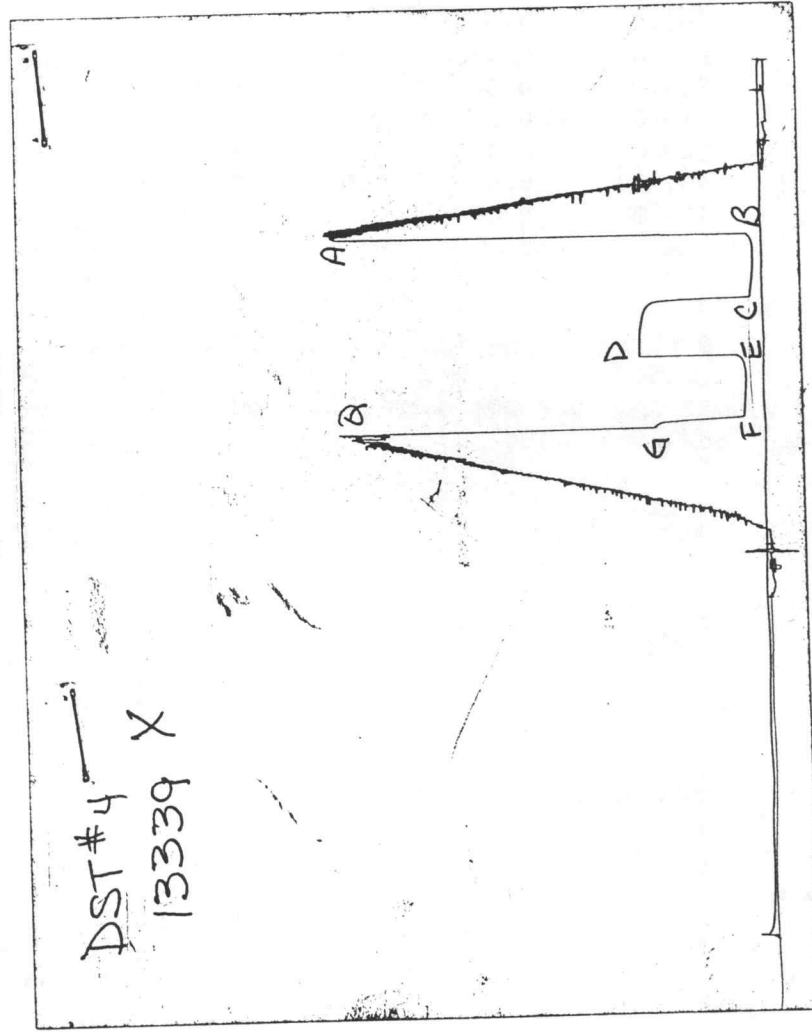
SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA-----

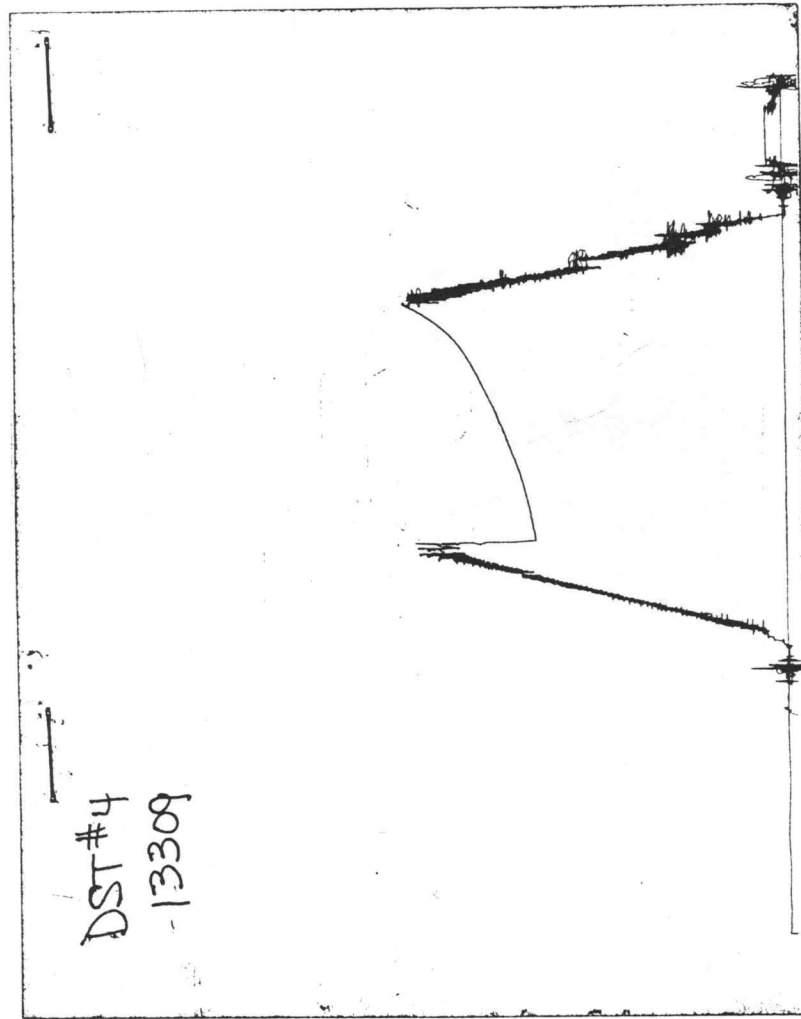
Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	48.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	4
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Bob Mathieson
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7994

Well Name & No.	Suchy #1	Test No.	4	Date	9-6-95
Company	Ritchie Exploration, Inc.	Zone Tested	L/KC	L'zn	
Address	125 N. Market Ste. 1000 Wichita, KS. 67202	Elevation	2730	(KB)	
Co. Rep./Geo.	Bob Mathiesen	Cont.	White & Ellis #9	Est. Ft. of Pay	
Location: Sec.	31	Twp.	18 ^S	Rge.	27 ^W
		Co.	Lane	State	KS.
No. of Copies	Normal	Distribution Sheet	Yes	X	No
		Turnkey	Yes	X	No
		Evaluation			

Interval Tested 4285 - 4320 Drill Pipe Size 4 1/2" X 11
 Anchor Length 35' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4280 - 4285 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 4320 - 4325 Wt. Pipe I.D. — 2.7 Ft. Run —
 Total Depth (RTD) 4340 Drill Collar — 2.25 Ft. Run —
 Mud Wt. 9.3 lb/gal. Viscosity 48 Filtrate 11.2
 Tool Open @ 11:30 am Initial Blow Weak surface blow slowly built to 2 1/2".
ISI: Bled off blow - no return.
 Final Blow Surge at open, very weak surface return in 5 mins.
steady throughout.

Recovery — Total Feet 210' Feet of Gas in Pipe — Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>1/2'</u>	Feet Of <u>Free Oil</u>	%gas	%oil	%water	%mud
Rec. <u>60'</u>	Feet Of <u>WM w/oil specks</u>	%gas	%oil	20	80
Rec. <u>150'</u>	Feet Of <u>MW</u>	%gas	%oil	50	50
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 119° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW -23 @ 80° °F Chlorides 26,000 ppm Recovery Chlorides 3,500 ppm System
 (A) Initial Hydrostatic Mud 2219 PSI AK1 Recorder No. 13276 Range 4000
 (B) First Initial Flow Pressure 29 PSI @ (depth) 4290 w/Clock No. 23573
 (C) First Final Flow Pressure 60 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 661 PSI @ (depth) 4310 w/Clock No. 23934
 (E) Second Initial Flow Pressure 90 PSI AK1 Recorder No. 13309 Range 4700
 (F) Second Final Flow Pressure 110 PSI @ (depth) 4635 w/Clock No. 23832
 (G) Final Shut-In Pressure 642 PSI Initial Opening 345 Test 600
 (H) Final Hydrostatic Mud 2190 PSI Initial Shut-In 45 Jars _____

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Final Flow 45 Safety Joint _____
 Final Shut-In 45 Straddle X 250
 Circ. Sub X N/C
 Sampler _____

Approved By [Signature]
 Our Representative Rod Steinbrink

(2) Extra Packers X 300
 Other _____
 TOTAL PRICE \$ 1150