

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name R.T. McCREIGHT #1 Test No. 1 Date 9/8/92  
Company RITCHIE EXPLORATION, INC. Zone FT SCOTT  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2271  
Co. Rep./Geo. KITT NOAH Cont. WHITE & ELLIS RIG #9 Est. Ft. of Pay 4  
Location: Sec. 2 Twp. 21S Rge. 24W Co. HODGEMEN State KS

Interval Tested 4285-4324 Drill Pipe Size 4.5" XH  
Anchor Length 39 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4280 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4285 Mud Wt. 9.5 lb/Gal.  
Total Depth 4324 Viscosity 45 Filtrate 11.2

Tool Open @ 6:40 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 1 MINUTE  
ISI: BLED OFF BLOW-WEAK BLOW-BUILT TO 1.5"  
Final Blow STRONG BLOW-BUILT TO BOTTOM IN 2 MINUTES  
FSI: BLED OFF BLOW-WEAK BLOW-BUILT TO 1.5"

Recovery - Total Feet 230 Flush Tool? NO

Rec. 3700 Feet of GAS IN PIPE  
Rec. 110 Feet of CLEAN GASSY OIL-60%GAS/40%OIL  
Rec. 120 Feet of GSY OIL CUT MUD-70%GAS/10%OIL/20%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 120 °F Gravity 39 °API @ 70 °F Corrected Gravity 38.3 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2261.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 62.1 PSI @ (depth) 4294 w / Clock No. 27594

(C) First Final Flow Pressure 71.1 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1282.5 PSI @ (depth) 4321 w / Clock No. 30418

(E) Second Initial Flow Pressure 91.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 99.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

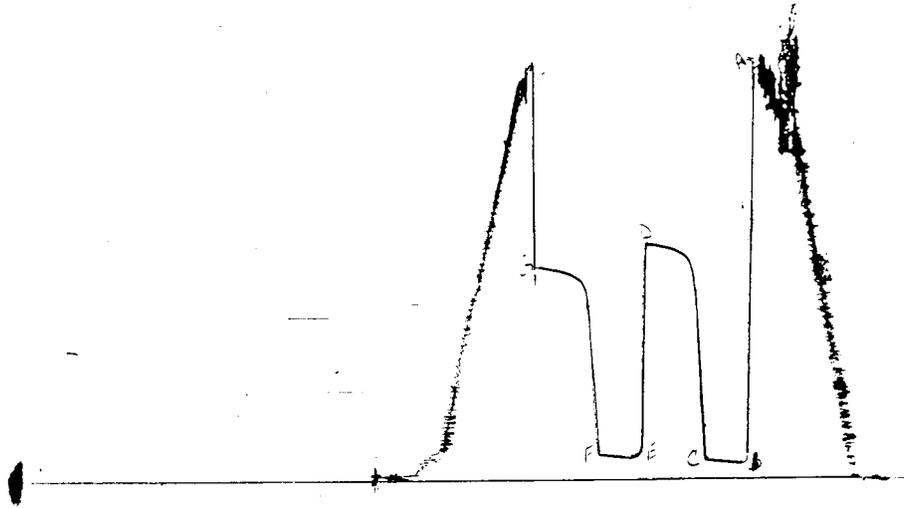
(G) Final Shut-in Pressure 1149.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2226.9 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative TOM HORACEK

CHART PAGE

DS741  
13277



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2259	2261.3
(B) FIRST INITIAL FLOW PRESSURE	55	62.1
(C) FIRST FINAL FLOW PRESSURE	82	71.1
(D) INITIAL CLOSED-IN PRESSURE	1272	1282.5
(E) SECOND INITIAL FLOW PRESSURE	95	91.8
(F) SECOND FINAL FLOW PRESSURE	109	99.6
(G) FINAL CLOSED-IN PRESSURE	1134	1149.9
(H) FINAL HYDROSTATIC MUD	2221	2226.9



COMPUTER EVALUATION BY TRILOBITE TESTING, L.L.C.

RITCHIE EXPLORATION, I R.T. McCREIGHT #1 DST 1

2 21S 24W HODGEMA KS

\*\*\*\*\*

ELEVATION:	2271	KB	EST. PAY	4	FT
DATUM:	-2024		ZONE TESTED:	FT SCOTT	
TEST INTERVAL:	4285-4324		TIME INTERVALS:	30-45-30-45	
RECORDER DEPTH:	4294		VISCOSITY:	2.511	CP
BOTTOM HOLE TEMP:	120		HOLE SIZE:	7.875	IN

\*\*\*\*\*

CUBIC FEET OF GAS IN PIPE:	295.41				
TOTAL FEET OF RECOVERY:	230.00	CORRECTED PIPE FILLUP:	275.138		
TOTAL BARRELS OF RECOVERY:	3.27	CORR. BARRELS OF RECOVERY:	3.912	BBL	
BARRELS IN DRILL PIPE:	3.27	API GRAVITY:	38		
BARRELS IN WEIGHT PIPE:	0.00	FLUID GRADIENT:	0.362		
BARRELS IN DRILL COLLARS:	0.00				
GAS OIL RATIO:	90.3216	CU.FT/BBL			
BUBBLE POINT PRESSURE:	503.561				
UNCORRECTED INITIAL PRODUCTION:			78.49	BBL	
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			93.89	BBL/DAY	
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			6.718		

\*\*\*\*\*

INITIAL SLOPE	93.62	PSI/CYCLE	FINAL SLOPE	96.87	PSI/CYCLE
INITIAL P*	1303	PSI	FINAL P*	1186	PSI

\*\*\*\*\*

TRANSMISSIBILITY	157.60	(MD.-FT./CP.)
PERMEABILITY	98.92	(MD.)
INDICATED FLOW CAPACITY	395.69	)MD.FT)
PRODUCTIVITY INDEX	0.18	(BARRELS/DAY/PSI)
DAMAGE RATIO	2.05	
RADIUS OF INVESTIGATION	77.04	(FT,)
POTENTIOMETRIC SURFACE	727.25	(FT.)
DRAWDOWN FACTOR	8.955	(%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	192.69	
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	13.79	

FINAL FLOW

RECORDER # 13277 DST # 1

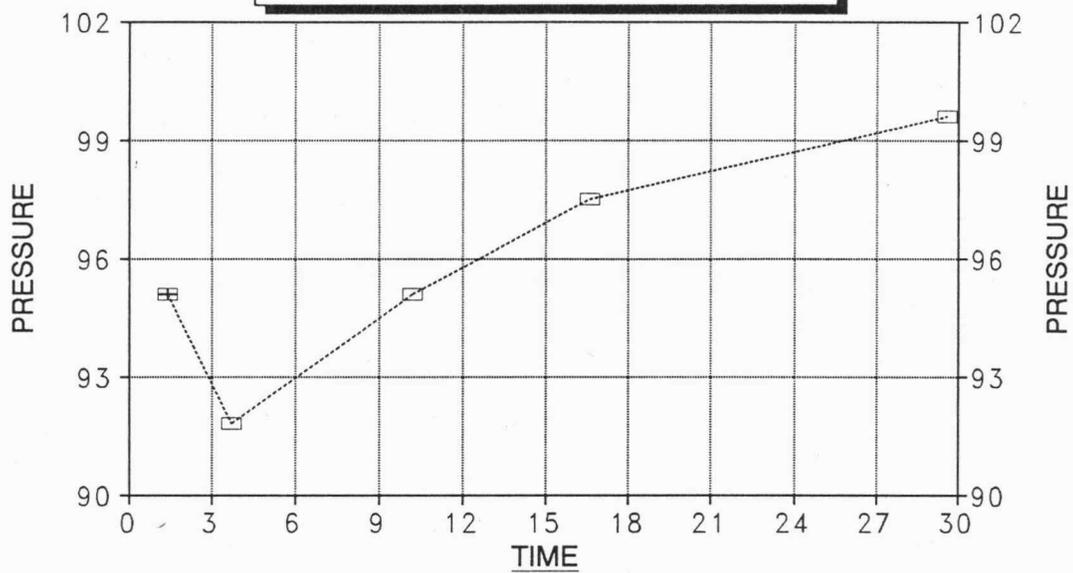
TIME(MIN) PRESSURE <> PRESSURE

---

1.4	95.1	95.1
3.7	91.8	-3.3
10.2	95.1	3.3
16.6	97.5	2.4
29.6	99.6	2.1

# DELTA T DELTA P

FINAL FLOW - DST #1



---□--- R.T. MCCREIGHT #1

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

6.718

MCCREIGHT #1  
INITIAL

DST #1  
SHUTIN  
30 TOTAL FLOW TIME

-----  
Slope            93.62 psi/cycle  
P \*              1303 psi  
-----

	TIME(MIN)	Pws (psi)	Log     <> Horn T	PRESSURE	Horn T
	3.9	513.1	0.939	513.1	9
	5.7	754.8	0.797	241.7	6
	7.5	987.4	0.699	232.6	5
	9.1	1083.6	0.633	96.2	4
	10.7	1139.7	0.580	56.1	4
	13.4	1188.1	0.510	48.4	3
	16.2	1214.2	0.455	26.1	3
	18.7	1231.7	0.416	17.5	3
	22.8	1247.5	0.365	15.8	2
	26.6	1266.1	0.328	18.6	2
X	30.1	1274.5	0.300	8.4	2
	33.1	1280.1	0.280	5.6	2
	36.8	1280.8	0.259	0.7	2
	40.6	1281.1	0.240	0.3	2
X	44.6	1281.7	0.223	0.6	2

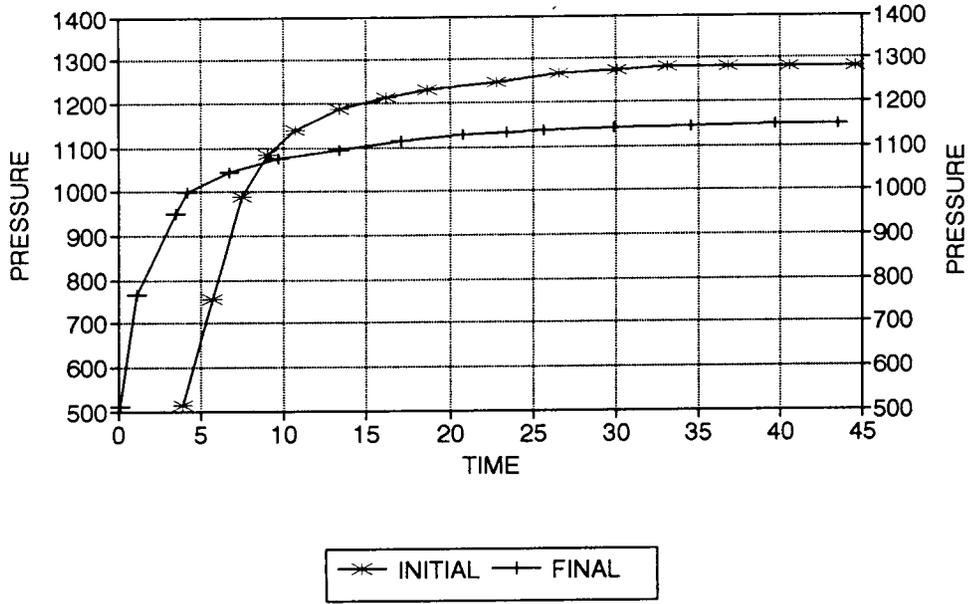
MCCREIGHT #1  
FINAL

DST #1  
SHUTIN  
60 TOTAL FLOW TIME

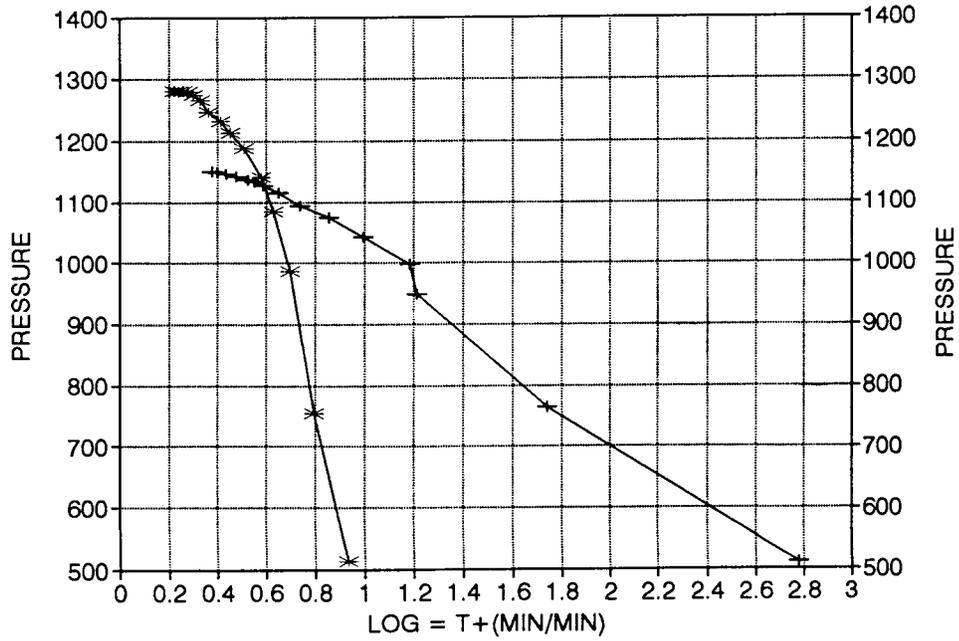
-----  
Slope            96.87 psi/cycle  
P \*              1186 psi  
-----

		Pws (psi)	Log     <> Horn T	PRESSURE	Horn T
	0.1	511.1	2.779	511.1	601
	1.1	764.1	1.745	253.0	56
	3.9	935.5	1.214	171.4	16
	4.2	998.7	1.184	63.2	15
	6.7	1043.1	0.998	44.4	10
	9.7	1074.8	0.856	31.7	7
	13.4	1094.8	0.739	20.0	5
	17.1	1114.7	0.654	19.9	5
	20.8	1127.2	0.589	12.5	4
X	23.4	1132.5	0.552	5.3	4
	25.6	1136.7	0.524	4.2	3
	29.9	1141.6	0.478	4.9	3
	34.5	1145.6	0.438	4.0	3
	39.7	1148.2	0.400	2.6	3
X	43.5	1149.5	0.376	1.3	2

# R.T. MCCREIGHT #1 / DST #1 DELTA T DELTA P



# HORNER PLOT



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

N. 5050

Well Name & No. R. T. McCreight #1 Test No. #1 Date 9-8-92  
 Company Ritchie Exploration, Inc. Zone Tested Ft. Scott  
 Address 125 N. Market, St. 1000 Wichita, Ks, 67202 Elevation 2274 KB  
 Co. Rep./Geo. Kitt Noah Cont. White & Ellis #9 Est. Ft. of Pay 4'  
 Location: Sec. 2 Twp. 21 Rge. 24 Co. Hodgeman State Ks.  
 No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes  No Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4285-4324 Drill Pipe Size 4.5 x-Hole  
 Anchor Length 39' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
 Top Packer Depth 4280 Hole Size — 77/8" \_\_\_\_\_ Rubber Size — 6 3/4" \_\_\_\_\_  
 Bottom Packer Depth 4285 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 4324 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
 Mud Wt. 9.5 lb/gal. Viscosity 45 Filtrate 11.2

Tool Open @ 6:40 AM Initial Blow strong blow - built to bottom of bucket 1 min.  
ISI - bled off blow - weak blow - built to 1 1/2 in.  
 Final Blow Strong blow - built to bottom in 2 min.  
FSI - bled off blow - weak blow - built to 1 1/2 in.

Recovery — Total Feet 230' Feet of Gas in Pipe 3700' Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. <u>110</u>	Feet Of <u>660</u>	<u>60</u> %gas	<u>40</u> %oil	%water	%mud
Rec. <u>120</u>	Feet Of <u>600m</u>	<u>70</u> %gas	<u>10</u> %oil	%water	<u>20</u> %mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 120 °F Gravity 39 °API @ 70 °F Corrected Gravity 38.3 °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 2259 PSI Ak1 Recorder No. 13277 Range 4125  
 (B) First Initial Flow Pressure 55 PSI @ (depth) 4294 w/Clock No. 27594  
 (C) First Final Flow Pressure 82 PSI AK1 Recorder No. 11038 Range 5075  
 (D) Initial Shut-In Pressure 1272 PSI @ (depth) 4321 w/Clock No. 30418  
 (E) Second Initial Flow Pressure 95 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 109 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1134 PSI Initial Opening 30 Test X  
 (H) Final Hydrostatic Mud 2221 PSI Initial Shut-In 45 Jars \_\_\_\_\_

Final Flow 30 Safety Joint \_\_\_\_\_  
 Final Shut-In 45 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_

Approved By Kitt Noah  
 Our Representative Tom Horacek  
 Extra Packer \_\_\_\_\_  
 Other eval

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 R.T. McCREIGHT #1 Test No. 2 Date 9/9/92  
Company RITCHIE EXPLORATION, INC. Zone MISSISSIPPI  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2274  
Co. Rep./Geo. KITT NOAH Cont. WHITE & ELLIS RIG #9 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 21S Rge. 24W Co. HODGEMAN State KS

Interval Tested 4344-4408 Drill Pipe Size 4.5" XH  
Anchor Length 64 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4339 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4344 Mud Wt. 9.6 lb/Gal.  
Total Depth 4408 Viscosity 44 Filtrate 10.8

Tool Open @ 2:55 AM Initial Blow 1/4" BLOW THROUGHOUT

Final Blow SURFACE BLOW-DIED IN 15 MINUTES

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD WITH TRACE OIL-1%OIL/99%MUD  
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 3500 ppm System

(A) Initial Hydrostatic Mud 2185.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 62.1 PSI @ (depth) 4382 w / Clock No. 27594

(C) First Final Flow Pressure 62.1 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 210.7 PSI @ (depth) 4405 w / Clock No. 30418

(E) Second Initial Flow Pressure 62.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 62.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

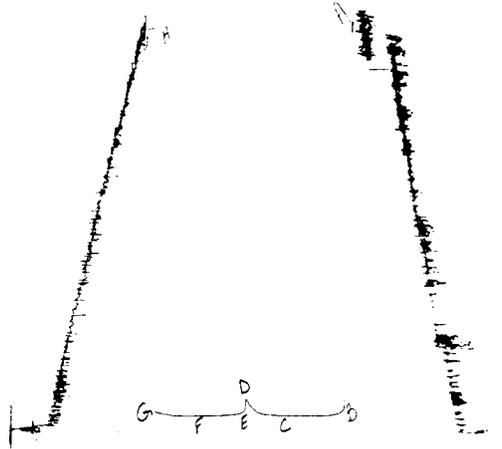
(G) Final Shut-in Pressure 91.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2160.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative TOM HORACEK

CHART PAGE

DST #2  
73277



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2182	2185.6
(B) FIRST INITIAL FLOW PRESSURE	55	62.1
(C) FIRST FINAL FLOW PRESSURE	55	62.1
(D) INITIAL CLOSED-IN PRESSURE	203	210.7
(E) SECOND INITIAL FLOW PRESSURE	55	62.1
(F) SECOND FINAL FLOW PRESSURE	55	62.1
(G) FINAL CLOSED-IN PRESSURE	95	91.8
(H) FINAL HYDROSTATIC MUD	2157	2160.4

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 4826

Well Name & No. R. T. McCreight #1 Test No. #2 Date 9-9-92  
Company Ritchie Exploration Inc. Zone Tested Miss  
Address 125 N. Market St. 1000 Wichita, KS 67202 Elevation 2274 KB  
Co. Rep./Geo. Kitt Neah Cont. White & Ellis #9 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 21 Rge. 24 Co. Hardyman State Ks  
No. of Copies \_\_\_\_\_ Distribution Sheet \_\_\_\_\_ Yes X No Turnkey \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4344-4408 Drill Pipe Size 4.5 x-Hole  
Anchor Length 64' Top Choke — 1" \_\_\_\_\_ Bottom Choke — 3/4" \_\_\_\_\_  
Top Packer Depth 4339 Hole Size — 77/8" \_\_\_\_\_ Rubber Size — 63/4" \_\_\_\_\_  
Bottom Packer Depth 4344 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
Total Depth 4408 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. 9.6 lb/gal. Viscosity 44 Filtrate 10.8  
Tool Open @ 2:55 AM Initial Blow 1/4 in blow through cut

Final Blow Surface blow - died in 15 min.

Recovery — Total Feet 10' Feet of Gas in Pipe \_\_\_\_\_ Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>10'</u> Feet Of <u>Dry mud w/ trace oil</u>	%gas <u>1</u>	%oil	%water <u>99</u>	%mud
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 3500 ppm System

(A) Initial Hydrostatic Mud 2182 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 55 PSI @ (depth) 4382 w/Clock No. 27594

(C) First Final Flow Pressure 55 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-In Pressure 203 PSI @ (depth) 4405 w/Clock No. 30418

(E) Second Initial Flow Pressure 55 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 55 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_

(G) Final Shut-In Pressure 95 PSI Initial Opening 30 Test X

(H) Final Hydrostatic Mud 2157 PSI Initial Shut-In 30 Jars \_\_\_\_\_

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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 \_\_\_\_\_

Sampler \_\_\_\_\_

Extra Packer \_\_\_\_\_

Other \_\_\_\_\_

Approved By Kitt Neah

Our Representative Tom Horacek

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name R.T. MCCREIGHT #1 Test No. 3 Date 9/9/92  
Company RITCHIE EXPLORATION, INC. Zone MISSISSIPPI  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2274  
Co. Rep./Geo. KITT NOAH Cont. WHITE & ELLIS RIG #9 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 2 Twp. 21S Rge. 24W Co. HODGEMAN State KS

Interval Tested	<u>4405-4417</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>12</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4400</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4405</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4417</u>	Viscosity	<u>56</u> Filtrate <u>12.4</u>

Tool Open @ 3:30 PM Initial Blow 1/2" BLOW-BUILT TO BOTTOM OF BUCKET IN 10 MINUTES  
ISI:BLED OFF BLOW-NO BLOW BACK  
Final Blow 1/4" BLOW-BUILT TO BOTTOM OF BUCKET IN 13 MINUTES  
FSI:BLED OFF BLOW-NO BLOW BACK

Recovery - Total Feet 690 Flush Tool? NO

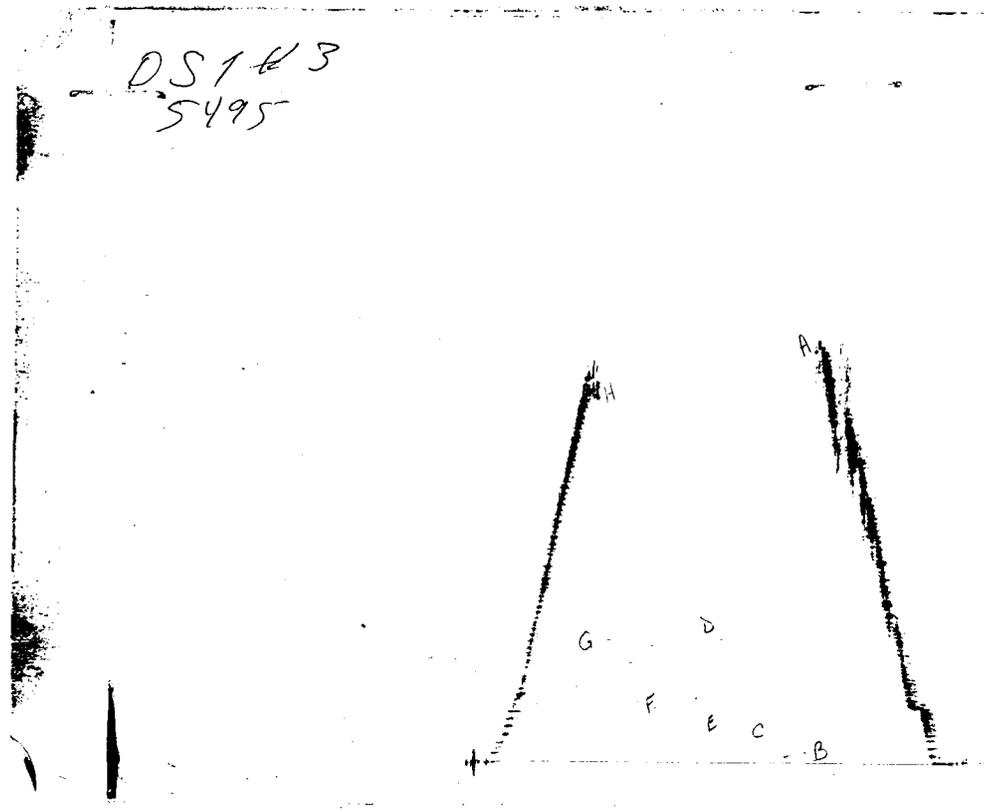
Rec. 690 Feet of SALT WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 122 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.4 @ 80 °F Chlorides 16000 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 2203.5 PSI AK1 Recorder No. 13277 Range 4125  
(B) First Initial Flow Pressure 25.6 PSI @ (depth) 4408 w / Clock No. 27594  
(C) First Final Flow Pressure 148.7 PSI AK1 Recorder No. 11038 Range 5075  
(D) Initial Shut-in Pressure 692.3 PSI @ (depth) 4414 w / Clock No. 30418  
(E) Second Initial Flow Pressure 220.6 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 304.7 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 679.1 PSI Initial Opening 30 Final Flow 30  
(H) Final Hydrostatic Mud 2160.7 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2195	2203.5
(B) FIRST INITIAL FLOW PRESSURE	27	25.6
(C) FIRST FINAL FLOW PRESSURE	149	148.7
(D) INITIAL CLOSED-IN PRESSURE	689	692.3
(E) SECOND INITIAL FLOW PRESSURE	217	220.6
(F) SECOND FINAL FLOW PRESSURE	297	304.7
(G) FINAL CLOSED-IN PRESSURE	676	679.1
(H) FINAL HYDROSTATIC MUD	2157	2160.7

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

№ 4827

Well Name & No.	<u>R. J. McCreight #1</u>	Test No.	<u>#3</u>	Date	<u>9-9-92</u>				
Company	<u>Ritchie Exploration I.M.</u>	Zone Tested	<u>Miss</u>						
Address	<u>125 N. Market St. 1000 W. Wichita 67202</u>	Elevation	<u>2274</u>	<u>KB</u>					
Co. Rep./Geo.	<u>Kitt Noah</u>	cont.	<u>White &amp; Ellis #9</u>	Est. Ft. of Pay _____					
Location: Sec.	<u>2</u>	Twp.	<u>21</u>	Rge.	<u>24</u>	Co.	<u>Hodgeman</u>	State	<u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Turnkey _____	Yes _____	No _____	Evaluation _____		

Interval Tested	<u>4405-4417</u>	Drill Pipe Size	<u>4.5 X-Hole</u>		
Anchor Length	<u>12'</u>	Top Choke — 1"	Bottom Choke — <u>3/4"</u>		
Top Packer Depth	<u>4400</u>	Hole Size — <u>77/8"</u>	Rubber Size — <u>63/4"</u>		
Bottom Packer Depth	<u>4405</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u>-</u>		
Total Depth	<u>4417</u>	Drill Collar — 2.25 Ft. Run	<u>-</u>		
Mud Wt.	<u>9.2</u> lb/gal.	Viscosity	<u>56</u>	Filtrate	<u>12.4</u>

Tool Open @ 3:30 pm Initial Blow 1/2 blow - built to bottom of bucket 10 min  
ISI - bled off blow - NO blow back

Final Blow 1/4 blow - built to bottom of bucket in 13 min  
FSI - bled off blow - NO blow back

Recovery — Total Feet 690' Feet of Gas in Pipe \_\_\_\_\_ Flush Tool? NO

Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____				
Rec. <u>690'</u> Feet Of <u>Salt water</u>				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

BHT 122 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW .4 @ 80 °F Chlorides 16000 ppm Recovery Chlorides 4500 ppm System

- (A) Initial Hydrostatic Mud 2195 PSI AK1 Recorder No. 13277 Range 4125
- (B) First Initial Flow Pressure 27 PSI @ (depth) 4408 w/Clock No. 27594
- (C) First Final Flow Pressure 149 PSI AK1 Recorder No. 11038 Range 5075
- (D) Initial Shut-In Pressure 689 PSI @ (depth) 4414 w/Clock No. 30418
- (E) Second Initial Flow Pressure 217 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_
- (F) Second Final Flow Pressure 297 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_
- (G) Final Shut-In Pressure 676 PSI Initial Opening 30 Test X
- (H) Final Hydrostatic Mud 2157 PSI Initial Shut-In 45 Jars \_\_\_\_\_

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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 45 Straddle \_\_\_\_\_  
Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_

Approved By Kitt Noah

Our Representative Tom Horacek

Extra Packer \_\_\_\_\_

Other \_\_\_\_\_

TOTAL PRICE \$ 500.00