

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 31191
Name: R & B Oil & Gas, Inc.
Address P.O. Box 422
Attica, Kansas 67009-0422
City/State/Zip
Purchaser: AE&M, Inc.
Operator Contact Person: Randy Newberry
Phone (316) 254-7972 / 316-254-7251
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Joe Baker
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGV
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
10-30-97 11-05-97 11-06-97
Spud Date Date Reached TD Completion Date

API NO. 15- 155-21422 0000
County Reno County, Kansas ^{KCC}
C-S/2 NE NW Sec. 15 Twp. 26 ^{SS JH} Rng. 9 ^{XX} E
990 Feet from S (circle one) Line of Section
3300 Feet from N (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
SE NE or SW (circle one)
Lease Name Lawson Well # 2
Field Name Lerado
Producing Formation VIOLA
Elevation: Ground 1666' KB 1674'
Total Depth 4250' PBTD 4300'
Amount of Surface Pipe Set and Cemented at 296' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ SX cat.

Drilling Fluid Management Plan ALT 1 JH 2-19-98
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume 320 bbls
Dewatering method used TRUCKED OFF
Location of fluid disposal if hauled offsite: _____
Operator Name R & B OIL & GAS, INC
Lease Name NUNEMAKER B License No. 31191
SE Quarter Sec. 10 Twp. 26 S Rng. 9 E/W
County RENO Docket No. D-26, 193

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Randy Newberry
Title President Date 2-12-98
Subscribed and sworn to before me this 17th day of February, 1998.
Notary Public Rebecca S. Newberry
Date Commission Expires 7-21-2001

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Logs Received 2-18-1998
C Geologist Report Received

CONSERVATION DIVISION
Wichita, Kansas

KCC KCPA
 CSS Plug Other (Specify)

REBECCA S. NEWBERRY
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-21-2001

Operator Name R & B Oil & Gas, Inc.

Lease Name Lawson

Well # 2

Sec. 15 Twp. 26 ^{Kcc} 9N ^{25S} Rge. 9W
 East
 West

County Reno County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 VIOLA 4150 2457

List All E.Logs Run:

DUAL INDUCTION
 NEUTRON DENSITY

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	296'	60/40 Poz	200	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4249'	ASC	150	5#/sk kolsea

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1	SAND CUT	250 Gal 7 1/2% ACID	4150

TUBING RECORD Size 2 7/8 Set At 3003 Packer At _____ Line Run Yes No

Date of First, Resumed Production, SWD or Inj. 11-26-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 8 bbls. Gas 2 Mcf Water 300 bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas:

Vented Sold Used on Lease
 (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval _____

ALLIED CEMENTING CO., INC. 6384

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:
Medicine Lodge

DATE <u>11-6-97</u>	SEC. <u>15</u>	TWP. <u>26 S</u>	RANGE <u>7 W</u>	CALLED OUT <u>7:00 AM</u>	ON LOCATION <u>9:30 AM</u>	JOB START <u>1:40 PM</u>	JOB FINISH <u>2:25 PM</u>
LEASE <u>Lawson</u>	WELL # <u>2</u>	LOCATION <u>Penalosa</u>		<u>4N, 2E, 1/2N, 1/2W 1/8N 1/4W</u>	COUNTY <u>Ren</u>	STATE <u>Kansas</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>Duke Rig 2</u> TYPE OF JOB <u>production</u> HOLE SIZE <u>7 7/8</u> T.D. <u>4251</u> CASING SIZE <u>5 1/2 x 14 + 15.5</u> DEPTH <u>4253 total</u> TUBING SIZE _____ DEPTH _____ DRILL PIPE _____ DEPTH _____ TOOL _____ DEPTH _____ PRES. MAX <u>1800</u> MINIMUM <u>300/150</u> MEAS. LINE _____ SHOE JOINT <u>29</u> CEMENT LEFT IN CSG. <u>29 feet</u> PERFS: _____ EQUIPMENT PUMP TRUCK CEMENTER <u>Carl Balding</u> # <u>257-265</u> HELPER <u>Shane Winsor</u> BULK TRUCK # <u>301</u> DRIVER <u>James Holt</u> BULK TRUCK # _____ DRIVER _____	OWNER <u>R+B Oil + Gas</u> CEMENT AMOUNT ORDERED <u>25 sk 60:40:4</u> <u>150 sk ASC + 5 sk Kol-seal</u> <u>300 Gal Mud sweep</u> COMMON # <u>15</u> @ <u>6.35</u> = <u>95.25</u> POZMIX " <u>10</u> @ <u>3.25</u> = <u>32.50</u> GEL " <u>1</u> @ <u>9.50</u> = <u>9.50</u> CHLORIDE _____ @ _____ = _____ <u>ASC 150</u> @ <u>8.20</u> = <u>1230.00</u> <u>KOL-SEAL 750#</u> @ <u>.38</u> = <u>285.00</u> <u>MUD CLEAN 300 GALS</u> @ <u>1.80</u> = <u>540.00</u> HANDLING <u>175</u> @ <u>1.05</u> = <u>183.75</u> MILEAGE <u>175 x .35</u> = <u>.04</u> = <u>245.00</u> TOTAL <u>\$2621.00</u>
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REMARKS: <u>Pipe on Bottom Break circulation</u> <u>w/ Rig Reciprocate pipe 10 feet</u> <u>ump 300 Gal mud sweep, plus R+B + MUSEA</u> <u>Hole w/ 35 sk 60:40:4 pump 150 sk ASC + white</u> <u>reciprocating cement in 5 hp pumps, wash pump</u> <u>thrice. Release plug start Displacement stop</u> <u>Reciprocation when cement turns shoe</u> <u>Displace with (104 5.88) Fresh water.</u>	SERVICE DEPTH OF JOB <u>4253</u> PUMP TRUCK CHARGE _____ = <u>1145.00</u> EXTRA FOOTAGE _____ @ _____ = _____ MILEAGE <u>35</u> @ <u>2.85</u> = <u>99.75</u> PLUG <u>Rubber 5/8"</u> @ <u>50.00</u> = <u>50.00</u> TOTAL <u>\$1794.75</u>
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CHARGE TO: R+B Oil + Gas
 STREET P.O. Box 422
 CITY AMECA STATE KANSAS ZIP 67009

FLOAT EQUIPMENT		
<u>Regular Guide shoe</u>	@ <u>168.00</u>	= <u>168.00</u>
<u>API Insert</u>	@ <u>263.00</u>	= <u>263.00</u>
<u>3 Gemco centralizer</u>	@ <u>56.00</u>	= <u>168.00</u>
<u>6 Baker centralizer</u>	@ <u>56.00</u>	= <u>336.00</u>
<u>15 reciprocating, seating</u>	@ <u>35.00</u>	= <u>525.00</u>
		TOTAL <u>\$1460.00</u>

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE \$ 5375.75
 DISCOUNT \$ 806.36 IF PAID IN 30 DAYS
 Net \$ 4569.39

SIGNATURE Randy Newberry Randy Newberry

RECEIVED
 STATE CONSERVATION DIVISION
 FEB 18 1998

ALLIED CEMENTING CO., INC. 6371

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: med. lodges, ks

DATE: 10-30-97	SEC. 15	TWP. 26	RANGE 9	CALLED OUT 4:30 PM	ON LOCATION 6:30 AM	JOB START 10:00 AM	JOB FINISH 11:45 AM
LEASE: Anderson	WELL # 2	LOCATION: Penobscia 4N-2E-3/4N-1/2W		RENO	COUNTY Ks.	STATE Ks.	
OLD OR NEW (Circle one)	1/8N-W/Into						

CONTRACTOR: Duke Oil	OWNER: R+B Oil & Gas
TYPE OF JOB: Surface CSG	CEMENT
HOLE SIZE: 12 1/4	TD: 297'
CASING SIZE: 8 5/8 x 24	DEPTH: 296'
TUBING SIZE:	DEPTH:
DRILL PIPE: 4 1/2 x hole	DEPTH: 297
TOOL:	DEPTH:
PRES. MAX: 150	MINIMUM: 100
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG: 15'	
PERFS:	

AMOUNT ORDERED: 200sxs. CLASS A		
60/40/3% CACL ₂ + 2% Gel		
35sxs. 60/40/3% CACL ₂ + 2% Gel		
COMMON A	141	@ 6.35 895.35
POZMIX	94	@ 3.25 305.50
GEL	4	@ 9.50 38.00
CHLORIDE	B	@ 28.00 224.00
		@
		@
		@
		@
		@
		@
HANDLING	235	@ 1.05 246.75
MILEAGE	235 x .35	.04 379.00

EQUIPMENT

PUMP TRUCK CEMENTER: Andy Dreiling
233-302 HELPER: Justin Hart
BULK TRUCK
259-314 DRIVER: John Kelley
BULK TRUCK
DRIVER

TOTAL: \$2030.60

REMARKS:

Pipe on Bottom. Break Circ.
mix + Pump 200sxs. CLASS A
3% CACL₂ + 2% Gel. Release Plug
Dump + Displace Plug w/ 18 Bbls
Fresh H₂O. Stop Pumps. Shut In.
Cement Circ. to Surface. Cement Fall Back
Top 35sxs. CLASS A + 3% CACL₂ + 2% Gel
Cement to Cellar

SERVICE

DEPTH OF JOB: 296'		
PUMP TRUCK CHARGE: 0-300'		\$10.00
EXTRA FOOTAGE	@	
MILEAGE: 35	@ 2.85	99.75
PLUG wood plug 8 5/8	@ 15.00	15.00
	@	
	@	

TOTAL: \$614.75

CHARGE TO: R+B Oil & Gas
STREET: P.O. Box 422
CITY: ANITA STATE: KANSAS ZIP: 67009

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

Post-It Fax Note	7671	Date: 2-19-98	# of pages: 1
To: Jim Hemmer	From: Backy Newberry		
Co./Dept: KCC	Co: R+B Oil & Gas		
Phone #:	Phone #: 316 254 7251		
Fax #: 337 6211	Fax #:		

TAX	
TOTAL CHARGE	\$2653.25
DISCOUNT	\$398.00 IF PAID IN 30 DAYS
Net	\$2255.25

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE X John J. Armbruster

JOHN J. ARMBRUSTER

ORIGINAL

WELL NAME: Lawson # 2
COMPANY: R & B Oil & Gas
LOCATION: 15-26S-9W
Reno County Kansas
DATE: 11/10/97

15-155-21422

TRILOBITE TESTING L.L.C.

OPERATOR : R & B Oil & Gas DATE 11/3/97
 WELL NAME: Lawson #2 KB 1674.00 ft TICKET NO: 10085 DST #1
 LOCATION : 15-26S-9W Reno Co KS GR 1666.00 ft FORMATION: Lansing KC "H"
 INTERVAL : 3526.00 To 3560.00 ft TD 3560.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13849	13849	10332			PF Fr. 0844 to 0929 hr
SI 45 Range(Psi)	4375.0	4375.0	3557.0	0.0	0.0	IS Fr. 0929 to 1014 hr
SF 60 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 1014 to 1114 hr
FS 60 Depth(ft)	3547.0	3547.0	3557.0	0.0	0.0	FS Fr. 1114 to 1214 hr

	Field	1	2	3	4	
A. Init Hydro	1689.0	1692.0	0.0	0.0	0.0	T STARTED 0600 hr
B. First Flow	56.0	100.0	0.0	0.0	0.0	T ON BOTM 0830 hr
B1. Final Flow	44.0	46.0	0.0	0.0	0.0	T OPEN 0844 hr
C. In Shut-in	489.0	510.0	0.0	0.0	0.0	T PULLED 1214 hr
D. Init Flow	44.0	106.0	0.0	0.0	0.0	T OUT 1330 hr
E. Final Flow	44.0	49.0	0.0	0.0	0.0	
F. Fl Shut-in	400.0	419.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1624.0	1641.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 44000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3521.00 ft

RECOVERY

Tot Fluid	45.00 ft of	0.00 ft in DC and	45.00 ft in DP
45.00	ft of Very Slightly Gassy Oil Cut Mud		
0.00	ft of 8%gas 2%oil 90%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		
SALINITY	0.00 P.P.M.	A.P.I. Gravity	0.00

BLOW DESCRIPTION

Initial Flow:
 30 seconds
 Initial Shut In:
 Bled down for 5 mins, no blow back
 Final Flow:
 Strong blow, bottom of bucket
 1 minute
 Final Shut In:
 Bled down for 5 mins, no blow back

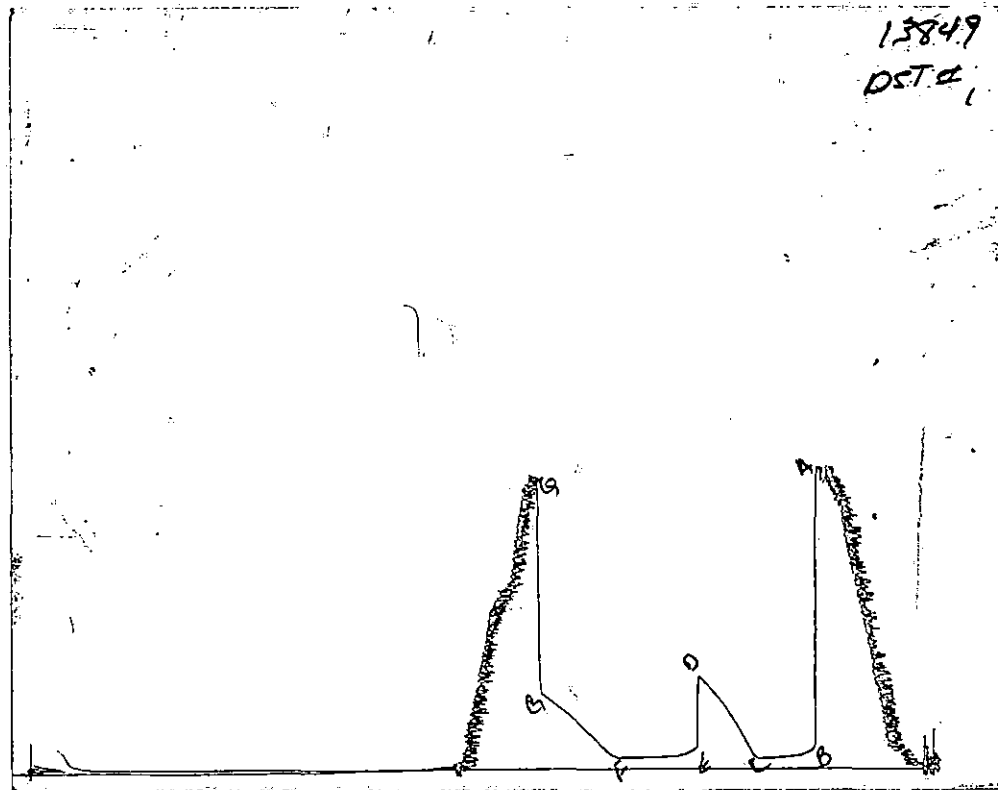
SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 41.00 S/L
 W.L. 0.00 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 110.00 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 Darren Amerine
 Co. Rep. Joe Baker
 Contr. Duke
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 10085

Well Name & No. <u>Lawson #2</u>	Test No. <u>#1</u>	Date <u>11/3/97</u>
Company <u>R&B Oil & Gas</u>	Zone Tested <u>Lansing "H"</u>	
Address <u>P.O. Box 422 Attica, Ks. 67009-0422</u>	Elevation <u>1674</u>	KB <u>1666</u> GL
Co. Rep / Geo. <u>Joe Baker</u>	Cont. <u>Duke #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>15</u>	Twp. <u>26^s</u>	Rge. <u>9^w</u> Co. <u>Rego</u> State <u>Ks</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3526 - 3560</u>	Initial Str Wt./Lbs. <u>42000</u>	Unseated Str Wt./Lbs. <u>44000</u>
Anchor Length <u>34'</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>24000</u>
Top Packer Depth <u>3521</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3526</u>	Hole Size — <u>7 7/8"</u> <input checked="" type="checkbox"/> Rubber Size — <u>6 3/4"</u> <input checked="" type="checkbox"/>	
Total Depth <u>3560</u>	Wt. Pipe Run _____	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.2</u> LCM <input checked="" type="checkbox"/> Vis. <u>72</u> WL: _____	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3521</u>

Blow Description IF: Strong blow. Bob in 30 sec.
IST: Bled down for 5 mins. No bp.
FF: Strong blow. BOB in 1 min.
FST: Bled down for 5 mins. No bp.

Recovery — Total Feet <u>45'</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>45'</u>
Rec. <u>45</u> Feet Of <u>1506CM</u>	<u>8</u> % gas	<u>2</u> % oil	% water <u>90</u> % 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 110° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 12200 ppm System

(A) Initial Hydrostatic Mud <u>1689</u> PSI	Recorder No. <u>13849</u>	T-Started _____
(B) First Initial Flow Pressure <u>56</u> PSI	(depth) <u>3547</u>	T-Open <u>8:44 A</u>
(C) First Final Flow Pressure <u>44</u> PSI	Recorder No. <u>10332</u>	T-Pulled <u>12:14 P</u>
(D) Initial Shut-in Pressure <u>489</u> PSI	(depth) <u>3557</u>	T-Out <u>1:30</u>
(E) Second Initial Flow Pressure <u>44</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>44</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>400</u> PSI	Initial Opening <u>45</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud <u>1624</u> PSI	Initial Shut-in <u>45</u>	Jars _____

Final Flow 60 Safety Joint _____

Final Shut-in 60 Straddle _____

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]

Our Representative Daniel Stummel

Extra Packer _____

Elect. Rec. _____

Other _____

TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : R & B Oil & Gas DATE 11/4/97
 WELL NAME: Lawson #2 KB 0.00 ft TICKET NO: 10086 DST #2
 LOCATION : 15-26S-9W Reno Co KS GR 0.00 ft FORMATION: Hertha
 INTERVAL : 3668.00 To 3700.00 ft TD 3700.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
DF 45	Rec.	13849	13849	10332			PF Fr. 0230 to 0315 hr
DI 60	Range(Psi)	4375.0	4375.0	4025.0	0.0	0.0	IS Fr. 0315 to 0415 hr
JF 45	Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 0415 to 0500 hr
FS 60	Depth(ft)	3697.0	3697.0	3687.0	0.0	0.0	FS Fr. 0500 to 0600 hr

	Field	1	2	3	4	
A. Init Hydro	1852.0	1841.0	0.0	0.0	0.0	T STARTED 0045 hr
B. First Flow	89.0	142.0	0.0	0.0	0.0	T ON BOTM 0215 hr
11. Final Flow	89.0	90.0	0.0	0.0	0.0	T.OPEN 0230 hr
1. In Shut-in	1041.0	1082.0	0.0	0.0	0.0	T PULLED 0600 hr
D. Init Flow	122.0	168.0	0.0	0.0	0.0	T OUT 0730 hr
E. Final Flow	111.0	113.0	0.0	0.0	0.0	
1. Fl Shut-in	985.0	1000.0	0.0	0.0	0.0	TOOL DATA-----
1. Final Hydro	1733.0	1736.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 45000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3678.00 ft

RECOVERY

Dot Fluid	150.00 ft of	150.00 ft in DC and	0.00 ft in DP
3528.00	ft of Gas in Pipe		
0.00	ft of		
0.00	ft of Gassy slightly Watery Mud		
0.00	ft of 10%gas 6%water 84%mud		
50.00	ft of Gassy Slight Oil Cut Watery Mud		
0.00	ft of 20%gas 6%oil 24%water 50%mud		
0.00	ft of		
0.00	ft of RW .4 @ 55 F		
SALINITY	25000.00 P.P.M.	A.P.I. Gravity	0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	40.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow:
 Strong blow, bottom of bucket in 15
 sec, Gas to Surface in 1 mins

Initial Shut In:

Bled down for 5 mins, weak blow back
 1/2"

Final Flow:

Strong blow, bottom of bucket in 30
 sec, Gauge Gas

Final Shut In:

Bled down for 5 mins, blow back to
 1/2" in water bucket

SAMPLES:

SENT TO:

Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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	Darren Amerine
Co. Rep.	Joe Baker
Contr.	Duke
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: R & B Oil & Gas DATE: 11/4/97
WELL NAME: Lawson #2 KB Elev: 0.00 ft TICKET #10086 DST #2
WELL LOCATION: 15-26S-9W Reno Co KS GR Elev: 0.00 ft FORMATION: Hertha
INTERVAL Fr.: 3868.00 To 3700.00 T.D.: 3700.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla Gauge

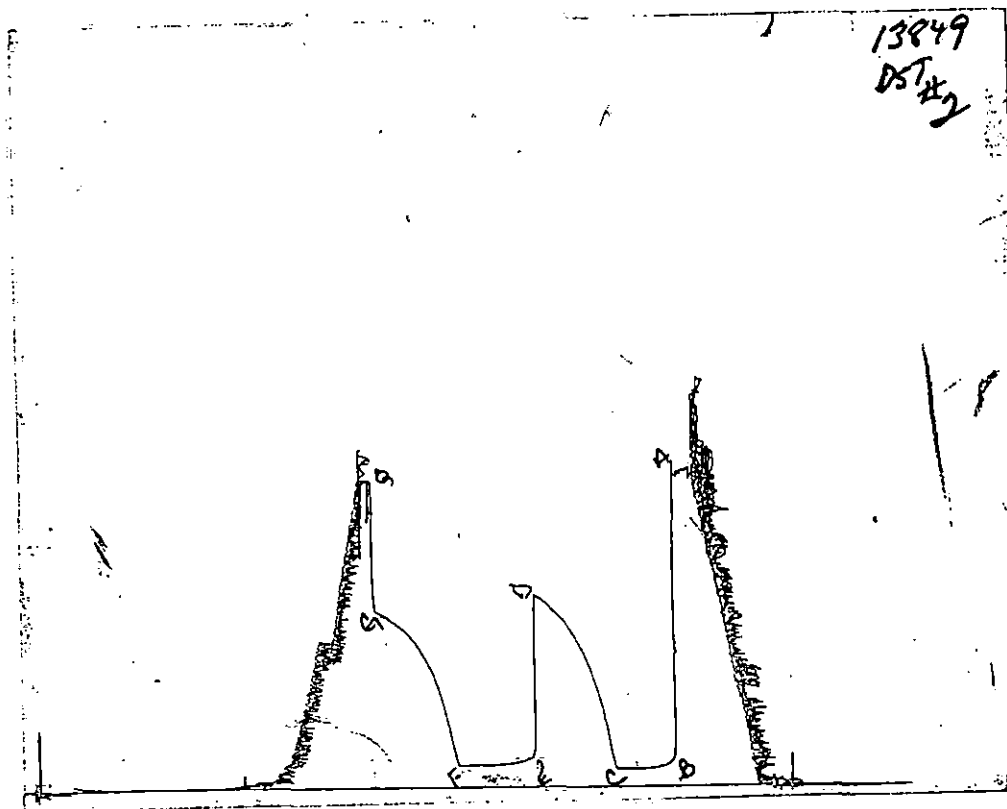
***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.06	0	6	412.0
20	0.06	0	6	412.0
25	0.06	0	5	377.0
30	0.06	0	5	377.0
35	0.06	0	6	412.0
40	0.06	0	6	412.0
45	0.06	0	6	412.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.06	0	10	533.0
10	0.06	0	8	479.0
15	0.06	0	6	412.0
20	0.06	0	6	412.0
25	0.06	0	7	444.0
30	0.06	0	6	412.0
35	0.06	0	6	412.0
40	0.06	0	6	412.0
45	0.06	0	6	412.0
50	0.06	0	6	412.0
55	0.06	0	5	377.0
60	0.06	0	6	412.0

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 602 • Hays, Kansas 67601

Test Ticket

N^o 10086

Well Name & No.	<u>LAWSON #2</u>	Test No.	<u>#2</u>	Date	<u>11/4/97</u>
Company	<u>Reb Oil, Gas</u>	Zone Tested	<u>Hertha</u>		
Address	<u>P.O. box 422 Attica, Ks 67009-0422</u>		Elevation	KB	GL
Co. Rep/Geo.	<u>Joe Baker</u>	Cont.	<u>Duke #2</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>15</u>	Twp.	<u>26S</u>	Rge.	<u>9W</u>
			Co.	<u>Reo</u>	State <u>Ks</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested	<u>3868 - 3700</u>	Initial Str Wt/Lbs.	<u>44000</u>	Unseated Str Wt/Lbs.	<u>45000</u>
Anchor Length	<u>32'</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>85000</u>
Top Packer Depth	<u>3863'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>3668</u>	Hole Size — 7 7/8"	<u>L</u>	Rubber Size — 6 3/4"	<u>L</u>
Total Depth	<u>3700</u>	Wt. Pipe Run		Drill Collar Run	<u>N/A</u>
Mud Wt.	<u>9.2</u> LCM <u>6-2^{II}</u> Vis. <u>40</u> WL	Drill Pipe Size	<u>4 1/2 x 14</u>	Ft. Run	<u>3678'</u>
Blow Description	<u>IF: Strong blow Bob in 15 sec. B.T.S 13 mins.</u>				
	<u>ISP: Bled down for 5 mins. Mud bb. 1/2 in.</u>				
	<u>FF: Strong blow Bob in 30 sec. Gauge 6.2</u>				
	<u>FST: Bled down for 5 mins B.B to 1/2 in in H2O bucket</u>				

Recovery — Total Feet	GIP <u>3628'</u>	Ft. in DC	Ft. in DP	<u>150'</u>
Rec.	<u>100'</u> Feet Of <u>VSWCBM</u>	<u>10</u> %gas	<u>6</u> %oil	<u>84</u> %water %mud
Rec.	<u>50</u> Feet Of <u>SOCWGM</u>	<u>20</u> %gas	<u>6</u> %oil	<u>24</u> %water <u>50</u> %mud
Rec.	Feet Of	%gas	%oil	%water %mud
Rec.	Feet Of	%gas	%oil	%water %mud
Rec.	Feet Of	%gas	%oil	%water %mud

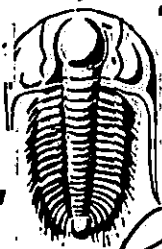
BHT 115° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 4.0 @ 55 °F Chlorides 25,000 ppm Recovery Chlorides 10,000 ppm System

(A) Initial Hydrostatic Mud	<u>1852</u> PSI	Recorder No.	<u>10332</u>	T-Started	<u>12:45</u>
(B) First Initial Flow Pressure	<u>89</u> PSI	(depth)	<u>3687'</u>	T-Open	<u>2:30 A</u>
(C) First Final Flow Pressure	<u>89</u> PSI	Recorder No.	<u>13849</u>	T-Pulled	<u>6:00</u>
(D) Initial Shut-in Pressure	<u>1041</u> PSI	(depth)	<u>3697'</u>	T-Out	<u>7:30</u>
(E) Second Initial Flow Pressure	<u>122</u> PSI	Recorder No.			
(F) Second Final Flow Pressure	<u>111</u> PSI	(depth)			
(G) Final Shut-in Pressure	<u>985</u> PSI	Initial Opening	<u>45</u>	Test	<u>✓</u>
(H) Final Hydrostatic Mud	<u>1733</u> PSI	Initial Shut-in	<u>60</u>	Jars	
		Final Flow	<u>45</u>	Safety Joint	
		Final Shut-in	<u>60</u>	Straddle	

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]
 Our Representative Darryl Stamer

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elect. Rec. _____
 Other _____
 TOTAL PRICE \$ _____



TRILOBITE TESTING

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

R. E. B. Oil & Gas

GAS VOLUME REPORT

Laura #2

OPERATOR

WELL NAME AND NO.

#2
DST NO.

G.T.S 13 min.

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
15	6"	1/16"	41,200				
0	6"	1/16"	41,200				
25	5"	1/16"	37,700				
30	5"	1/16"	37,700				
5	6"	1/16"	41,200				
70	6"	1/16"	41,200				
5	6"	1/16"	41,200				
<i>Second Flow Period</i>							
5	10"	1/16"	53,300				
10	8	1/16"	47,900				
15	6	1/16"	41,200				
20	6	1/16"	41,200				
25	7	1/16"	44,400				
30	6	1/16"	41,200				
35	6	1/16"	41,200				
40	6	1/16"	41,200				
45	6	1/16"	41,200				
50	6	1/16"	41,200				
55	5	1/16"	37,700				
60	6	1/16"	41,200				

Remarks:

TRILOBITE TESTING L.L.C.

OPERATOR : R & B Oil & Gas Inc
 WELL NAME: Lawson # 2
 LOCATION : 15-26S-9W Reno Co KS
 INTERVAL : 4142.00 To 4151.00 ft

DATE 11/5/97
 KB 1674.00 ft TICKET NO: 10074 DST #3
 GR 1666.00 ft FORMATION: Viola
 TD 4151.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	13788			PF Fr. 1146 to 1216 hr
SI 45	Range(Psi)	4400.0	4400.0	4650.0	0.0	0.0	IS Fr. 1216 to 1301 hr
SF 45	Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 1301 to 1346 hr
FS 60	Depth(ft)	4148.0	4148.0	4143.0	0.0	0.0	FS Fr. 1346 to 1446 hr

	Field	1	2	3	4	
A. Init Hydro	2052.0	2104.0	0.0	0.0	0.0	T STARTED 1020 hr
B. First Flow	55.0	79.0	0.0	0.0	0.0	T ON BOTM 1130 hr
B1. Final Flow	120.0	146.0	0.0	0.0	0.0	T OPEN 1146 hr
C. In Shut-in	1178.0	1176.0	0.0	0.0	0.0	T PULLED 1446 hr
D. Init Flow	166.0	185.0	0.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	31.0	319.0	0.0	0.0	0.0	
F. Fl Shut-in	1178.0	1180.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1953.0	1986.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 62000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4142.00 ft

RECOVERY

Tot Fluid 700.00 ft of 0.00 ft in DC and 700.00 ft in DP
 2150.00 ft of Gas In Pipe
 105.00 ft of Gassy Oil Cut Mud
 0.00 ft of 12%gas 38%oil 50%mud
 115.00 ft of Oil Cut Muddy Water
 0.00 ft of 20%oil 25%mud 55%water
 480.00 ft of Salt Water
 0.00 ft of
 0.00 ft of RW .11 @ 70 F
 SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 60.00 S/L
 W.L. 11.20 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 F
 Hole Condition
 % Porosity 14.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Gary Pevoteaux
 Co. Rep. Joe Baker
 Contr. Duke Drilling
 Rig # 2
 Unit #
 Pump T.

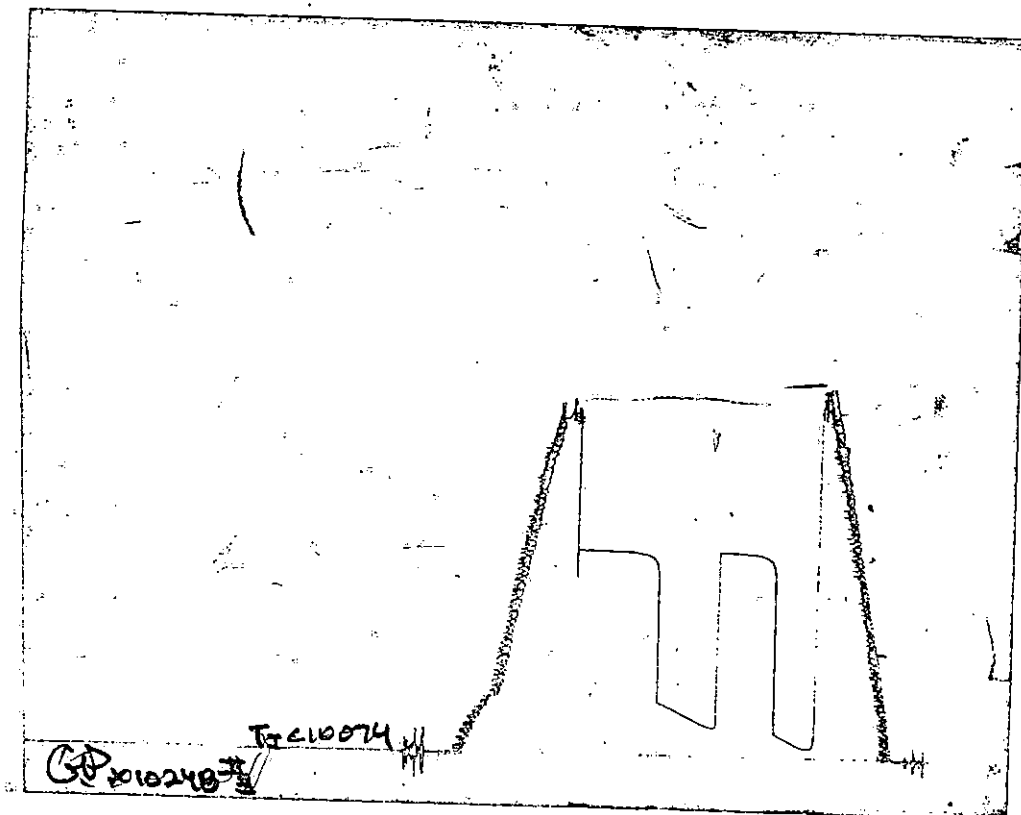
BLOW DESCRIPTION

Initial Flow:
 Strong blow, bottom of bucket in 3.5 minutes
 Initial Shut In:
 Weak to fair blow
 Final Flow:
 Strong blow, bottom of bucket in 6 min
 Final Shut In:
 Fair to strong blow

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 10074

Well Name & No. LAWSON #2 Test No. 3 Date 11-5-97
Company R & B OIL & GAS INC. Zone Tested U20LA
Address P.O. Box 422 ATTICA KS 67009-0422 Elevation 1674 KB 1666 GL
Co. Rep/Geo. SON BAKER Cont. DUKE DRUG #2 Est. Ft. of Pay 7 Por. 14%
Location: Sec. 15 Twp. 26S Rge. 9W Co. RENO State KS
No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4142 - 4151' Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 50,000
Anchor Length 9' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 62,000
Top Packer Depth 4137' Tool Weight 2,100#
Bottom Packer Depth 4142' Hole Size — 77/8" Rubber Size — 63/4"
Total Depth 4151' Wt. Pipe Run NONE Drill Collar Run NONE
Mud Wt. 9.3 LCM Tri. Vis. 60 WL 11.2cc. Drill Pipe Size 4 1/2" X.H. Ft. Run 4142'

Blow Description IF: Strong below. Btm. of bucket in 3.5 mins.
ISI: Weak to fair below.
FE: Strong below. Btm. of bucket in 6 mins.
FSI: Fair to strong below.

Recovery — Total Feet 700' GIP 2150' Ft. in DC --- Ft. in DP 700'
Rec. 105 Feet Of G.O.C.M. %gas 12 %oil 38 %water 50 %mud
Rec. 115 Feet Of O.C.M.W. %gas 20 %oil 55 %water 25 %mud
Rec. 480 Feet Of Salt Water %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud

BHT 123 °F Gravity N/A °API D₄₀ --- °F Corrected Gravity N/A °API
RW .11 @ 70 °F Chlorides 80,000 ppm Recovery Chlorides 9,900 ppm System

(A) Initial Hydrostatic Mud 2052 PSI Recorder No. 13788 T-Started 1020
(B) First Initial Flow Pressure 55 PSI (depth) 4143' T-Open 1146
(C) First Final Flow Pressure 120 PSI Recorder No. 10248 T-Pulled 1448
(D) Initial Shut-in Pressure 1178 PSI (depth) 4148' T-Out 1700
(E) Second Initial Flow Pressure 166 PSI Recorder No. ---
(F) Second Final Flow Pressure 310 PSI (depth) ---
(G) Final Shut-in Pressure 1178 PSI Initial Opening 30 Test ✓ 700⁰⁰
(H) Final Hydrostatic Mud 1953 PSI Initial Shut-in 45 Jars _____

Final Flow 45 Safety Joint _____
Final Shut-in 60 Straddle _____
_____ Circ. Sub _____
_____ Sampler _____

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]
Our Representative [Signature]

Extra Packer _____
Elect. Rec. _____
Other _____
TOTAL PRICE \$ ✓ 700⁰⁰