

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

Operator: License # 4243

Name: CROSS BAR PETROLEUM, INC.

Address 7570 W. 21ST, BLDG 1014-B

City/State/Zip WICHITA KS 67205

Purchaser: N/A

Operator Contact Person: ALBERT BRENSING

Phone (316) 721-4999

Contractor: Name: CHEYENNE DRILLING, INC.

License: 5382

Wellsite Geologist: STEVE DAVIS

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-15-97 10-23-97
Spud Date Date Reached TD Completion Date

API NO. 15- 171-20521000
County SCOTT plugged 10/23/97
- SW SE SE Sec. 2 Twp. 20S Rge. 33 X W

330 Feet from (S)X (circle one) Line of Section

990 Feet from (E)X (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name COLLINGWOOD Well # 1-2

Field Name SHALLOW WATER NE

Producing Formation _____

Elevation: Ground 2951' KB 2962'

Total Depth 4800' PBDT _____

Amount of Surface Pipe Set and Cemented at 10 JTS @ 399; KB

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____
Washed down but drilled out of old hole. TD Plugged.
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D+A, 8-20-98 UC.
(Data must be collected from the Reserve Pit)

Chloride content 1,500 ppm Fluid volume 1,400 bbls

Dewatering method used Allow to evaporate and then fill in pits.

Location of fluid disposal if hauled offsite: 11-3-97

Operator Name ALBERT BRENSING

Lease Name OCT 50 License No. _____

Quarter 1 Sec. 30 Twp. 20S Rng. 33 E/W

County CONFIDENTIAL Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Albert Brensing

Title ALBERT BRENSING, PRESIDENT Date 10/30/97

Subscribed and sworn to before me this 30th day of October, 19 97.

Notary Public Cynthia D. Hendere

Date Commission Expires 7-24-2000

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)



SIDE TWO

Operator Name CROSS BAR PETROLEUM, INC. Lease Name COLLINGWOOD Well # 1-2

Sec. 2 Twp. 20S Rge. 33W East West
 County SCOTT

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.)

List All E.Logs Run: Geologist's Report, Dual Induction Log, Dual Compensated Porosity Log

Log Formation (Top), Depth and Datums Sample
 Name Top Datum

SEE EXHIBIT 'A' ATTACHED HERETO FOR FORMATION TOPS
 PLEASE KEEP THIS INFORMATION CONFIDENTIAL

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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#	399'	60/40 Pozmix	250	2% Gel, 2% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose: Plugging ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom		Type of Cement	#Sacks Used	Type and Percent Additives

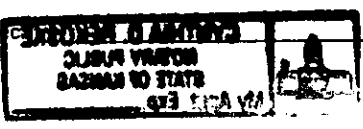
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	

TUBING RECORD N/A Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. N/A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water 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 Production Interval Other (Specify) _____



ORIGINAL

Cross Bar Petroleum, Inc. #1 Collingwood
SW SE SE Section 2-T20S-R33W
(330' FSL and 990' FEL), Scott Co., Kansas
KB: 2962' PTD: 4800' API: #15-171-20521
Contractor: Cheyenne Drlg. Rig #5
Wellsite Geologist: Steve Davis

CONFIDENTIAL

RELEASED

JAN 29 1999

Exhibit of ACO-1

FROM CONFIDENTIAL

Results of DST #1,
4405'-4455'(-1443'-93'), Pawnee/Ft. Scott, 30-30-10-0, 1st open- weak surface blow died in 20',
2nd open-no blow, flushed tool no help. Recovered 10' DM, IHP 2137, IFP 49-49, ISIP 59,
FSIP N/A, FHP 2107. BHT 110 degrees F. Strap 3.35' short to board. Straight hole survey 1
degree.

Results of DST #2,
4568'-4693'(-1606'-1731'), Morrow/Mississippian, 45-60-45-60, 1st open- weak blow
throughout, 2nd open- weak blow throughout. Recovered 30' mud, 180' sw (recovery chlorides
17,000 and mud system chlorides 2200), IHP 2246, IFP 19-67, ISIP 1159, FFP 68-106, FSIP
1142, FHP 2152, BHT 119 degrees F.

Log Tops	Depth/Subsea
Base Anhydrite	2167' (+795')
Hebner	3831' (-869')
Toronto	3849' (-887')
Lansing	3881' (-919')
Stark	4228' (-1266')
Marmaton	4325' (-1363')
Cherokee Shale	4446' (-1484')
Morrow shale	4596' (-1634')
Morrow sand	4631' (-1669')
Mississippian Unconf	4661' (-1699')
RTD	4800 (-1838)
LTD	4802 (-1840)

W
OCT 30
CONFIDENTIAL

ALLIED CEMENTING CO., INC.

8601

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

CONFIDENTIAL

SERVICE POINT:

Oakley

DATE <u>10-14-97</u>	SEC <u>2</u>	TWP. <u>20</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>8:30</u>	JOB START	JOB FINISH <u>11:00^{pm}</u>
<u>Collinwood</u> LEASE	WELL # <u>1-2</u>		LOCATION <u>Shallowater 1/2S-1W-11/2S-61S</u>	COUNTY <u>Scott</u>		STATE <u>Kan.</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Cheyenne Dls #5</u>	OWNER <u>agt 30 Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT <u>3% ACC - 2% GEL</u>
HOLE SIZE <u>12 1/4</u>	T.D. <u>405'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>402'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	COMMON <u>150 SKS @ 7.55</u>
PERFS.	PO/MIX <u>100 SKS @ 3.25</u>
DISPLACEMENT	GEL <u>4 SKS @ 9.50</u>
	CHLORIDE <u>8 SKS @ 28.00</u>

EQUIPMENT			
PUMP TRUCK # <u>191</u>	CEMENTER <u>Walt</u>	HANDLING <u>250 SKS @ 1.05</u>	<u>262.50</u>
	HELPER <u>Dean</u>	MILEAGE <u>4¢ per SK/mile</u>	<u>860.00</u>
BULK TRUCK # <u>212</u>	DRIVER <u>Jeff</u>		
BULK TRUCK #	DRIVER	TOTAL	<u>2,542.00</u>

REMARKS:

SERVICE

<u>Concut Diel Circ.</u>	DEPTH OF JOB <u>402'</u>		
<u>Circ - 4 BBL</u>	PUMP TRUCK CHARGE	<u>470.00</u>	
	EXTRA FOOTAGE <u>102'</u>	<u>4.04</u>	<u>43.62</u>
	MILEAGE <u>56-miles</u>	<u>2.55</u>	<u>154.68</u>
	PLUG <u>8 5/8 Surface</u>		<u>45.00</u>
<u>Thank You</u>			

TOTAL 718.96

CHARGE TO: Cross-Bar Petroleum Inc
 STREET: 151 N Main # 630
 CITY: Wichita STATE: Kansas ZIP: 67202-1407

FLOAT EQUIPMENT

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

Dale P. McDonald

PRINTED NAME

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., INC.

9879

REMIT TO PO BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

OAKLEY

CONFIDENTIAL

DATE 10-22-97	SEC. 2	TWP. 20	RANGE 33	CALLED OUT	ON LOCATION 10:15AM	JOB START 12:30PM	JOB FINISH 2:15PM
Coltswood LEASE	WELL # 1-2	LOCATION SHALLOW WATER 10 1/2 S		COUNTY Scott	STATE KS	KANSAS 10	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR CHEYENNE DRILG REC # 5

TYPE OF JOB PTA

HOLE SIZE 2 1/8" T.D. 4800'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 2145'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER SAME JAN 29 1999

CEMENT FROM CONFIDENTIAL

AMOUNT ORDERED 215 SKS 60/40 @ 2.68 GEL

COMMON	<u>129 SKS</u>	@	<u>7.55</u>	<u>973.95</u>
POZMIX	<u>86 SKS</u>	@	<u>3.25</u>	<u>279.50</u>
GEL	<u>11 SKS</u>	@	<u>9.50</u>	<u>104.50</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>215 SKS</u>	@	<u>1.02</u>	<u>225.75</u>
MILEAGE	<u>4¢ per SK/mile</u>			<u>481.60</u>
TOTAL				<u>2,065.30</u>

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

300 HELPER WAYNE

BULK TRUCK

315 DRIVER ANDREW

BULK TRUCK

_____ DRIVER _____

REMARKS:

50 SKS AT 2145'

80 SKS AT 1326'

50 SKS AT 450'

10 SKS AT 40'

10 SKS MOUSE HOLE

15 SKS RAT HOLE

THANK YOU

SERVICE

DEPTH OF JOB	<u>2145'</u>		
PUMP TRUCK CHARGE			<u>580.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>56 miles</u>	@	<u>2.85</u>
PLUG		@	
		@	
		@	
TOTAL			<u>739.60</u>

CHARGE TO: CROSS BAR

STREET 151 N. Main # 630

CITY Wichita STATE Kansas ZIP 67202-1407

FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			

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 _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Duraine Bell

Duraine Bell
 PRINTED NAME

ORIGINAL

RECEIVED
KANSAS CORP COMM
1977 NOV -3 A 1:33

WELL NAME: Collingwood # 1-2
COMPANY: Cross Bar Petroleum Inc
LOCATION: 2-20S-33W
Scott County Kansas
DATE: 10/24/97

CONFIDENTIAL

15-171-20521

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

KCC

OCT 30

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Petroleum Inc
 WELL NAME: CBP #1-2 Collingwood
 LOCATION : 2-20S-33W Scott Co KS
 INTERVAL : 4405.00 To 4455.00 ft

DATE 10/19/97

KB 2962.00 ft TICKET NO: 10702 DST #1
 GR 2951.00 ft FORMATION: Pawnee/Ft Scott
 TD 4455.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
RF 30 Rec.	13754	13754	13248			PF Fr. 2310 to 2340 hr
RI 30 Range(Psi)	7000.0	7000.0	4250.0	0.0	0.0	IS Fr. 2340 to 0010 hr
SF 10 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 0010 to 0020 hr
FS 0 Depth(ft)	4408.0	4408.0	4452.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2137.0	2193.0	0.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	4.0	52.0	0.0	0.0	0.0	T ON BOTM 2300 hr
C. Final Flow	49.0	50.0	0.0	0.0	0.0	T OPEN 2310 hr
D. In Shut-in	59.0	58.0	0.0	0.0	0.0	T PULLED 0020 hr
E. Init Flow	49.0	51.0	0.0	0.0	0.0	T OUT 0330 hr
F. Final Flow	49.0	48.0	0.0	0.0	0.0	
G. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
J. Final Hydro	2107.0	2133.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	O			Tool Wt. 1000.00 lbs
						Wt Set_On Packer 30000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 80000.00 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 707.00 ft
						D.P. Length 3670.00 ft

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 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

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

BLOW DESCRIPTION

Initial Flow:
 Weak blow, died in 20 mins

Final Flow:
 No blow, flushed tool, no help
 pulled tool

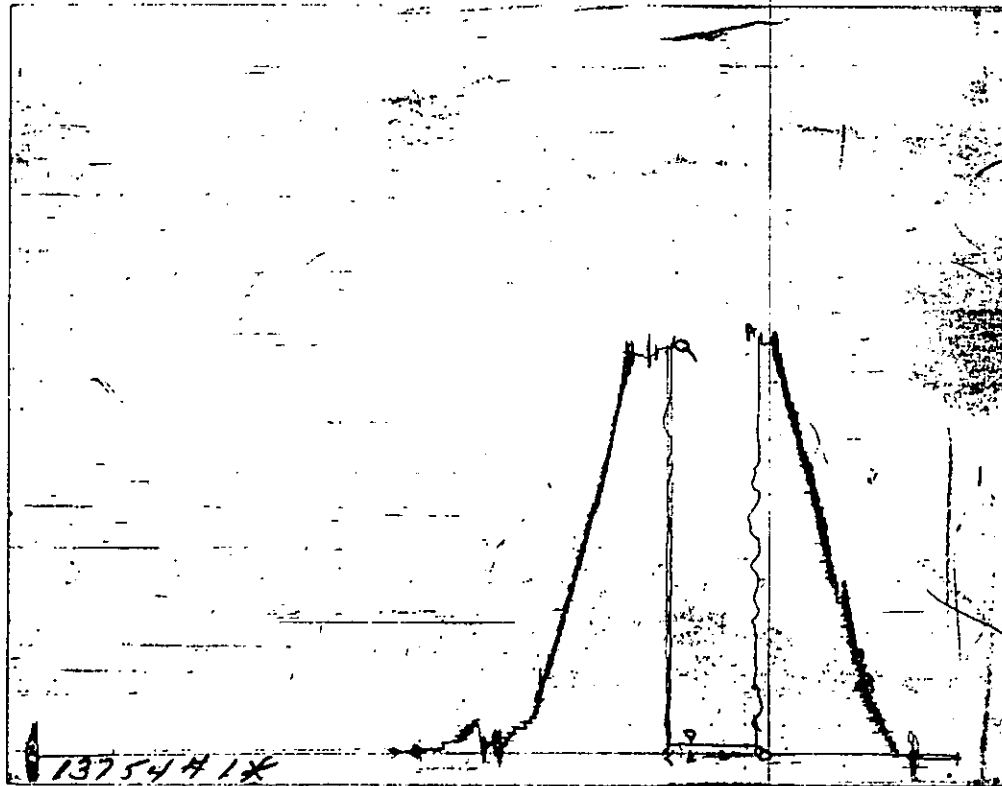
SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	45.00 S/L
W.L.	10.00 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	Dan Bangle
Co. Rep.	Steve Davis
Contr.	Cheyenne
Rig #	5
Unit #	
Pump T.	

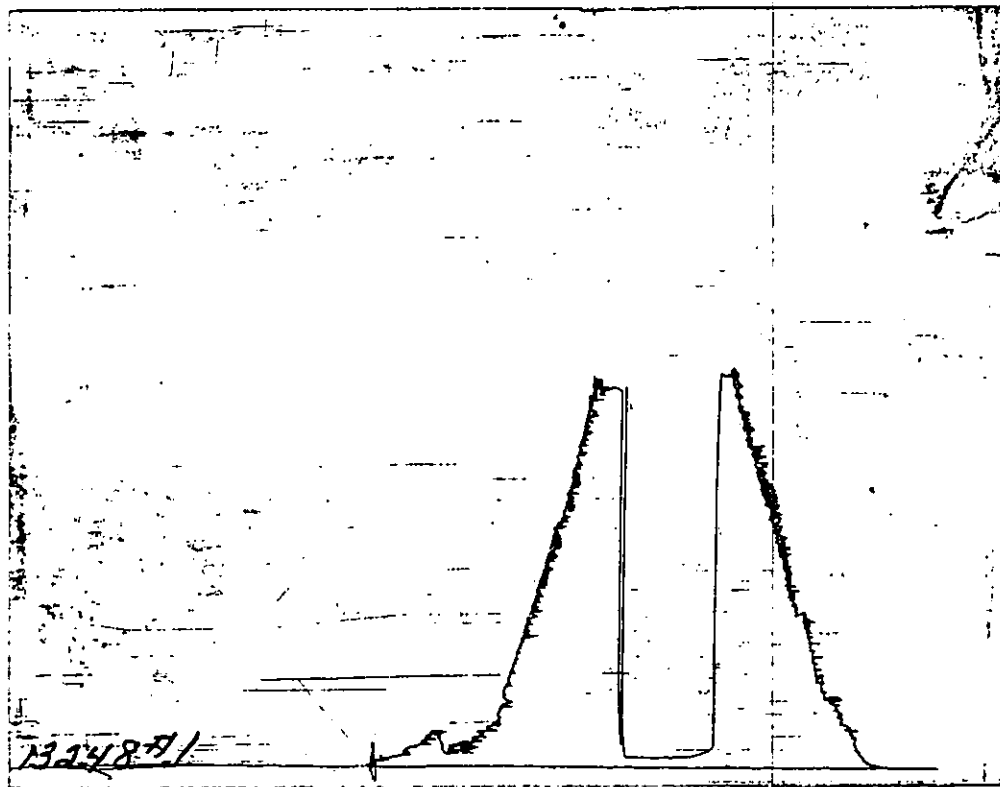
Test Successful: Y

CHART PAGE



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

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

No 10702

Well Name & No. CBP #1-2 Collingwood Test No. 1 Date 10-19-97
Company Cross Bar Petco, Inc Zone Tested Lawrence/FT SCOTT
Address 2570 W. 21st St. Bldg. 1014 Swireb, Wichita, KS 67205 Elevation 2962 KB 2951 GL
Co. Rep / Geo. Steve Davis Cont. Cheyenne #5 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 2 Twp. 20 Rge. 33 Co. SCOTT State KS
No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4405 - 4455 Initial Str Wt/Lbs. 80,000 Unseated Str Wt/Lbs. 80,000
Anchor Length 50 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 85,000
Top Packer Depth 4400 Tool Weight 1000
Bottom Packer Depth 4405 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Total Depth 4455 Wt. Pipe Run _____ Drill Collar Run 707
Mud Wt. — 9.3 LCM. 1# Vis. 45 WL 10 Drill Pipe Size 4.5 XH Ft. Run 3670
Blow Description F.F. Weak - Died in 20 min.

F.F. No blow - Flushed Tool - No Help

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>10</u>	Feet Of <u>D.M.</u>						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						

BHT 110 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2400 ppm System

- (A) Initial Hydrostatic Mud 2137 PSI Recorder No. 13754 T-Started 21:00
(B) First Initial Flow Pressure 49 PSI (depth) 4408 T-Open 23:10
(C) First Final Flow Pressure 49 PSI Recorder No. 13248 T-Pulled 00:20
(D) Initial Shut-in Pressure 59 PSI (depth) 4402 T-Out 03:30
(E) Second Initial Flow Pressure 49 PSI Recorder No. _____
(F) Second Final Flow Pressure 49 PSI (depth) _____
(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Test _____
(H) Final Hydrostatic Mud 2107 PSI Initial Shut-in 30 Jars X

Final Flow 10 Safety Joint X

Final Shut-in 0 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 Dan Rangle

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

TRILOBITE TESTING L.L.C.

OPERATOR : CrossBar Petroleum Inc.
 WELL NAME: Collingwood #1-2
 LOCATION : 2-20-33W Scott KS.
 INTERVAL : 4568.00 To 4693.00 ft

DATE 10-21-97
 KB 2951.00 ft TICKET NO: 10350 DST #2
 GR 2963.00 ft FORMATION: Morrow/Mississippian
 TD 4693.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	13339	13339	2342			PF Fr. 0313 to 0358 hr
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0358 to 0458 hr
SF 45	Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 0458 to 0543 hr
FS 60	Depth(ft)	4693.0	4693.0	4570.0	0.0	0.0	FS Fr. 0543 to 0643 hr

	Field	1	2	3	4	
A. Init Hydro	2273.0	2311.0	2246.0	0.0	0.0	T STARTED 0035 hr
B. First Flow	104.0	161.0	20.0	0.0	0.0	T ON BOTM 0310 hr
31. Final Flow	124.0	153.0	67.0	0.0	0.0	T OPEN 0313 hr
C. In Shut-in	1200.0	1219.0	1159.0	0.0	0.0	T PULLED 0643 hr
D. Init Flow	155.0	211.0	69.0	0.0	0.0	T OUT 0805 hr
3. Final Flow	166.0	190.0	106.0	0.0	0.0	
7. Fl Shut-in	1160.0	1193.0	1142.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2223.0	2229.0	2153.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 35000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 85000.00 lbs
						Unseated Str Wt 85000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 706.00 ft
						D.P. Length 3853.00 ft

RECOVERY

Tot Fluid 210.00 ft of 210.00 ft in DC and 0.00 ft in DP
 30.00 ft of Drilling Mud
 180.00 ft of Sulfur Water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of RW .45 @ 65 deg =
 SALINITY 17000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Surface blow built to 1/2" stayed steady throughout

Initial Shut In:

Final Flow:

Surface return in 10 mins, stayed steady throughout

Final Shut In:

No return blow

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 53.00 S/L
 W.L. 8.20 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 119.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Rod Steinbrink
 Co. Rep. Steve Davis
 Contr. Cheyenne
 Rig # 5
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Collingwood #1-2

LOCATION : 2-20-33W Scott KS.

TICKET No. 10350 D.S.T. No. 2 DATE 10-21-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL 32

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 59

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

D.P. ANCHOR STND.	Stands	1	Single	1	Total	93
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TOTAL ASSEMBLY 152

D.C. ABOVE TOOLS.	Stands	12	Single	Total	706
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D.P. ABOVE TOOLS.	Stands	62	Single	Total	3853
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4711

TOTAL DEPTH 4693

TOTAL DRILL PIPE ABOVE K.B. 18

REMARKS:

P.O. SUB 1' Above 120' DC	4443
C.O. SUB 1'	4563
S.I. TOOL 5'	4569
HMV 5'	4574
JARS 5'	4579
SAFETY JOINT 2'	4581
PACKER 4'	4583
PACKER 5'	4568
DEPTH	
STUBB 1'	4569
ANCHOR	
Alpine Rec. @ 4570	
24' Perf.	4593
1' CO Sub	4594
93' DP	4687
1' CO Sub	4688
T.C.	
DEPTH	
AK-1 Rec. @ 4688	
BULLNOSE 5'	
T.D.	4693

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10350 DST #2 Collingwood #1-2 CrossBar Pet.

DATE: 10/21/97

TIME: 00:35:19

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	155.00	2246.2	0.0	108.51		
***** Start Flow 1	0.00	19.6	0.0	108.79		
	1.00	20.7	1.1	108.96		
	2.00	21.5	1.8	109.11		
	3.00	22.6	2.9	109.25		
	4.00	23.9	4.3	109.36		
	5.00	25.6	6.0	109.46		
	6.00	27.3	7.6	109.54		
	7.00	28.3	8.6	109.62		
	8.00	29.3	9.7	109.68		
	9.00	30.1	10.5	109.75		
	10.00	30.9	11.2	109.81		
	11.00	31.7	12.1	109.86		
	12.00	33.0	13.3	109.90		
	13.00	34.2	14.6	109.96		
	14.00	35.0	15.4	110.01		
	15.00	35.9	16.3	110.06		
	16.00	37.2	17.5	110.11		
	17.00	38.6	19.0	110.16		
	18.00	39.6	20.0	110.21		
	19.00	40.4	20.8	110.25		
	20.00	41.3	21.7	110.31		
	21.00	42.2	22.6	110.36		
	22.00	43.2	23.6	110.41		
	23.00	44.5	24.8	110.47		
	24.00	45.6	26.0	110.52		
	25.00	46.7	27.1	110.58		
	26.00	47.8	28.2	110.64		
	27.00	48.9	29.3	110.69		
	28.00	50.1	30.5	110.77		
	29.00	51.7	32.1	110.83		
	30.00	52.7	33.1	110.89		
	31.00	53.3	33.7	110.97		
	32.00	54.4	34.7	111.04		
	33.00	55.5	35.8	111.12		
	34.00	56.2	36.6	111.20		
	35.00	57.1	37.5	111.27		
	36.00	58.1	38.4	111.35		
	37.00	58.9	39.3	111.43		
	38.00	59.9	40.3	111.51		
	39.00	60.8	41.2	111.59		
	40.00	61.7	42.0	111.68		
	41.00	62.8	43.1	111.77		
	42.00	63.7	44.1	111.85		
	43.00	64.6	45.0	111.94		
	44.00	65.4	45.7	112.04		
	45.00	66.4	46.7	112.13		
***** End Flow 1	46.00	67.2	47.6	112.23		
***** Start Shutin 1	0.00	67.2	0.0	112.23	0.0000	0.005
	1.00	152.7	85.5	112.33	47.0000	0.023
	2.00	406.8	339.6	112.45	24.0000	0.165

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10350 DST #2 Collingwood #1-2 CrossBar Pet.

DATE: 10/21/97

TIME: 00:35:19

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
3.00	630.0	562.7	112.57	16.3333	0.397
4.00	785.4	718.2	112.70	12.5000	0.617
5.00	887.0	819.8	112.84	10.2000	0.787
6.00	949.3	882.1	112.97	8.6667	0.901
7.00	979.4	912.2	113.10	7.5714	0.959
8.00	1002.2	935.0	113.23	6.7500	1.004
9.00	1018.0	950.7	113.36	6.1111	1.036
10.00	1030.4	963.2	113.49	5.6000	1.062
11.00	1040.7	973.5	113.61	5.1818	1.083
12.00	1049.8	982.5	113.73	4.8333	1.102
13.00	1057.6	990.3	113.84	4.5385	1.118
14.00	1064.6	997.4	113.94	4.2857	1.133
15.00	1070.9	1003.7	114.04	4.0667	1.147
16.00	1076.6	1009.4	114.15	3.8750	1.159
17.00	1081.8	1014.6	114.24	3.7059	1.170
18.00	1086.4	1019.2	114.33	3.5556	1.180
19.00	1090.9	1023.7	114.41	3.4211	1.190
20.00	1094.8	1027.6	114.48	3.3000	1.199
21.00	1098.6	1031.4	114.56	3.1905	1.207
22.00	1102.0	1034.8	114.63	3.0909	1.215
23.00	1105.3	1038.1	114.71	3.0000	1.222
24.00	1108.3	1041.0	114.78	2.9167	1.228
25.00	1111.1	1043.9	114.75	2.8400	1.235
26.00	1113.7	1046.5	114.90	2.7692	1.240
27.00	1116.1	1048.9	114.96	2.7037	1.246
28.00	1118.5	1051.3	115.02	2.6429	1.251
29.00	1120.8	1053.5	115.07	2.5862	1.256
30.00	1122.9	1055.6	115.12	2.5333	1.261
31.00	1124.9	1057.7	115.16	2.4839	1.265
32.00	1126.7	1059.5	115.22	2.4375	1.270
33.00	1128.7	1061.4	115.26	2.3939	1.274
34.00	1130.4	1063.2	115.30	2.3529	1.278
35.00	1132.1	1064.9	115.34	2.3143	1.282
36.00	1133.7	1066.5	115.38	2.2778	1.285
37.00	1135.2	1068.0	115.42	2.2432	1.289
38.00	1136.7	1069.5	115.46	2.2105	1.292
39.00	1138.1	1070.9	115.50	2.1795	1.295
40.00	1139.5	1072.3	115.53	2.1500	1.298
41.00	1140.8	1073.6	115.57	2.1220	1.301
42.00	1142.1	1074.9	115.60	2.0952	1.304
43.00	1143.3	1076.0	115.63	2.0698	1.307
44.00	1144.5	1077.3	115.66	2.0455	1.310
45.00	1145.6	1078.4	115.69	2.0222	1.312
46.00	1146.7	1079.5	115.72	2.0000	1.315
47.00	1147.9	1080.7	115.74	1.9787	1.318
48.00	1148.7	1081.5	115.77	1.9583	1.320
49.00	1149.8	1082.6	115.80	1.9388	1.322
50.00	1150.8	1083.6	115.83	1.9200	1.324
51.00	1151.8	1084.6	115.85	1.9020	1.327
52.00	1152.7	1085.4	115.88	1.8846	1.329
53.00	1153.6	1086.4	115.91	1.8679	1.331

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10350 DST #2 Collingwood #1-2 CrossBar Pet.

DATE: 10/21/97

TIME: 00:35:19

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	54.00	1154.5	1087.3	115.92	1.8519	1.333
	55.00	1155.3	1088.1	115.95	1.8364	1.335
	56.00	1156.1	1088.9	115.97	1.8214	1.337
	57.00	1156.9	1089.7	115.99	1.8070	1.339
	58.00	1157.6	1090.4	116.03	1.7931	1.340
	59.00	1158.4	1091.2	116.04	1.7797	1.342
***** End Shut-in 1	60.00	1159.1	1091.9	116.06	1.7667	1.344
***** Start Flow 2	0.00	68.6	0.0	116.15		
	1.00	68.6	0.0	116.31		
	2.00	69.3	0.8	116.46		
	3.00	70.2	1.7	116.59		
	4.00	71.4	2.9	116.68		
	5.00	72.6	4.0	116.76		
	6.00	73.7	5.1	116.82		
	7.00	74.9	6.4	116.87		
	8.00	76.1	7.6	116.90		
	9.00	76.8	8.2	116.93		
	10.00	77.7	9.1	116.96		
	11.00	78.5	9.9	116.97		
	12.00	79.3	10.7	116.99		
	13.00	80.1	11.6	117.00		
	14.00	81.1	12.5	117.01		
	15.00	81.8	13.3	117.02		
	16.00	82.8	14.3	117.04		
	17.00	83.6	15.0	117.05		
	18.00	84.5	15.9	117.07		
	19.00	85.3	16.7	117.08		
	20.00	86.0	17.5	117.09		
	21.00	86.9	18.4	117.11		
	22.00	87.7	19.1	117.14		
	23.00	88.4	19.8	117.16		
	24.00	89.1	20.6	117.18		
	25.00	89.9	21.3	117.21		
	26.00	90.8	22.2	117.23		
	27.00	91.5	22.9	117.27		
	28.00	92.3	23.8	117.30		
	29.00	93.2	24.7	117.34		
	30.00	94.1	25.5	117.37		
	31.00	94.9	26.4	117.40		
	32.00	95.7	27.1	117.44		
	33.00	96.4	27.9	117.48		
	34.00	97.3	28.8	117.52		
	35.00	98.2	29.6	117.57		
	36.00	98.9	30.3	117.60		
	37.00	99.7	31.1	117.65		
	38.00	100.5	32.0	117.70		
	39.00	101.3	32.7	117.74		
	40.00	102.0	33.5	117.79		
	41.00	103.1	34.5	117.84		
	42.00	104.1	35.6	117.88		
	43.00	105.2	36.6	117.93		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10350 DST #2 Collingwood #1-2 CrossBar Pet.

DATE: 10/21/97

TIME: 00:35:19

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** End Flow 2	44.00	106.2	37.7	117.98		
***** Start Shutin 2	0.00	106.2	0.0	117.98	0.0000	0.011
	1.00	253.6	147.4	118.03	91.0000	0.064
	2.00	505.8	399.6	118.10	46.0000	0.256
	3.00	692.4	586.2	118.18	31.0000	0.479
	4.00	818.1	711.9	118.26	23.5000	0.669
	5.00	896.8	790.6	118.34	19.0000	0.804
	6.00	942.8	836.6	118.42	16.0000	0.889
	7.00	970.2	864.0	118.49	13.8571	0.941
	8.00	988.3	882.1	118.57	12.2500	0.977
	9.00	1001.9	895.7	118.65	11.0000	1.004
	10.00	1013.1	906.8	118.71	10.0000	1.026
	11.00	1022.7	916.4	118.77	9.1818	1.046
	12.00	1031.0	924.8	118.83	8.5000	1.063
	13.00	1038.4	932.2	118.88	7.9231	1.078
	14.00	1045.1	938.9	118.93	7.4286	1.092
	15.00	1051.2	944.9	118.97	7.0000	1.105
	16.00	1056.7	950.5	119.01	6.6250	1.117
	17.00	1061.8	955.5	119.06	6.2941	1.127
	18.00	1066.5	960.2	119.10	6.0000	1.137
	19.00	1070.7	964.5	119.14	5.7368	1.146
	20.00	1074.7	968.4	119.16	5.5000	1.155
	21.00	1078.4	972.1	119.20	5.2857	1.163
	22.00	1081.8	975.6	119.23	5.0909	1.170
	23.00	1085.2	978.9	119.25	4.9130	1.178
	24.00	1088.1	981.9	119.29	4.7500	1.184
	25.00	1091.0	984.7	119.29	4.6000	1.190
	26.00	1093.7	987.4	119.33	4.4615	1.196
	27.00	1096.3	990.0	119.37	4.3333	1.202
	28.00	1098.7	992.4	119.39	4.2143	1.207
	29.00	1101.0	994.7	119.41	4.1034	1.212
	30.00	1103.2	997.0	119.43	4.0000	1.217
	31.00	1105.2	999.0	119.46	3.9032	1.222
	32.00	1107.4	1001.2	119.46	3.8125	1.226
	33.00	1109.3	1003.1	119.48	3.7273	1.231
	34.00	1111.2	1005.0	119.50	3.6471	1.235
	35.00	1113.0	1006.7	119.53	3.5714	1.239
	36.00	1114.6	1008.3	119.53	3.5000	1.242
	37.00	1116.2	1010.0	119.55	3.4324	1.246
	38.00	1117.8	1011.6	119.56	3.3684	1.250
	39.00	1119.3	1013.1	119.57	3.3077	1.253
	40.00	1120.8	1014.6	119.58	3.2500	1.256
	41.00	1122.3	1016.0	119.61	3.1951	1.259
	42.00	1123.7	1017.5	119.62	3.1429	1.263
	43.00	1124.9	1018.6	119.63	3.0930	1.265
	44.00	1126.2	1020.0	119.65	3.0455	1.268
	45.00	1127.4	1021.1	119.65	3.0000	1.271
	46.00	1128.7	1022.4	119.66	2.9565	1.274
	47.00	1129.8	1023.6	119.67	2.9149	1.277
	48.00	1131.1	1024.8	119.69	2.8750	1.279
	49.00	1132.2	1025.9	119.70	2.8367	1.282

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10350 DST #2 Collingwood #1-2 CrossBar Pet.

DATE: 10/21/97

TIME: 00:35:19

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	50.00	1133.3	1027.0	119.71	2.8000	1.284
	51.00	1134.4	1028.1	119.72	2.7647	1.287
	52.00	1135.5	1029.2	119.72	2.7308	1.289
	53.00	1136.4	1030.1	119.76	2.6981	1.291
	54.00	1137.4	1031.1	119.74	2.6667	1.294
	55.00	1138.3	1032.1	119.76	2.6364	1.296
	56.00	1139.3	1033.1	119.76	2.6071	1.298
	57.00	1140.2	1033.9	119.77	2.5789	1.300
	58.00	1141.1	1034.8	119.78	2.5517	1.302
***** End Shut-in 2	59.00	1142.0	1035.8	119.79	2.5254	1.304
***** Final Hydro.	370.00	2152.7	0.0	119.85		

TEST HISTORY

10350 DST #2 Collingwood #1-2 CrossBar Pet.

Flag Points

	t (Min.)	Pk (PSig)
A:	0.00	2246.15
B:	0.00	19.63
C:	46.00	67.22
D:	60.00	1159.12
E:	0.00	68.56
F:	44.00	106.24
G:	59.00	1142.00
Q:	0.00	2152.66

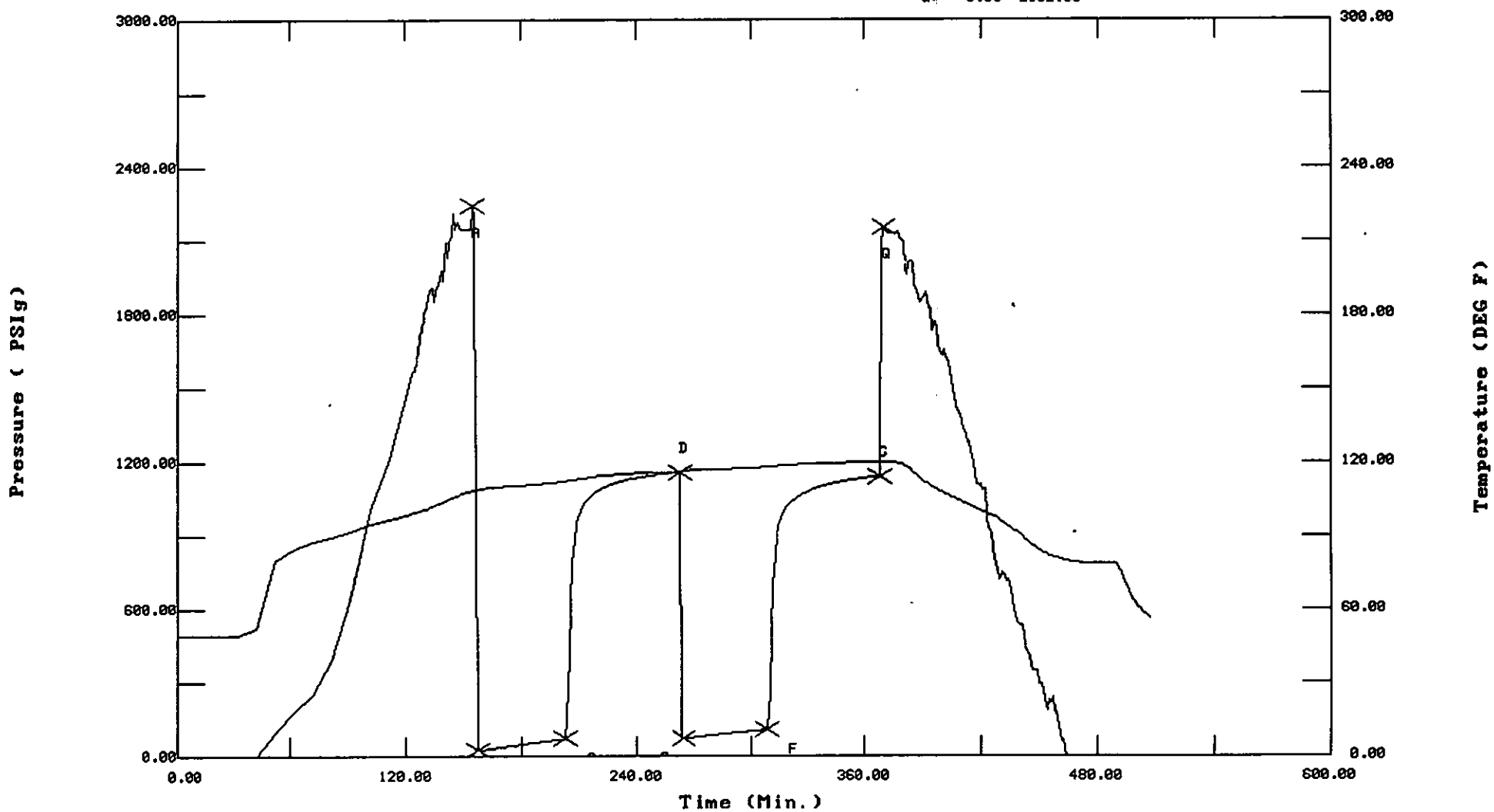
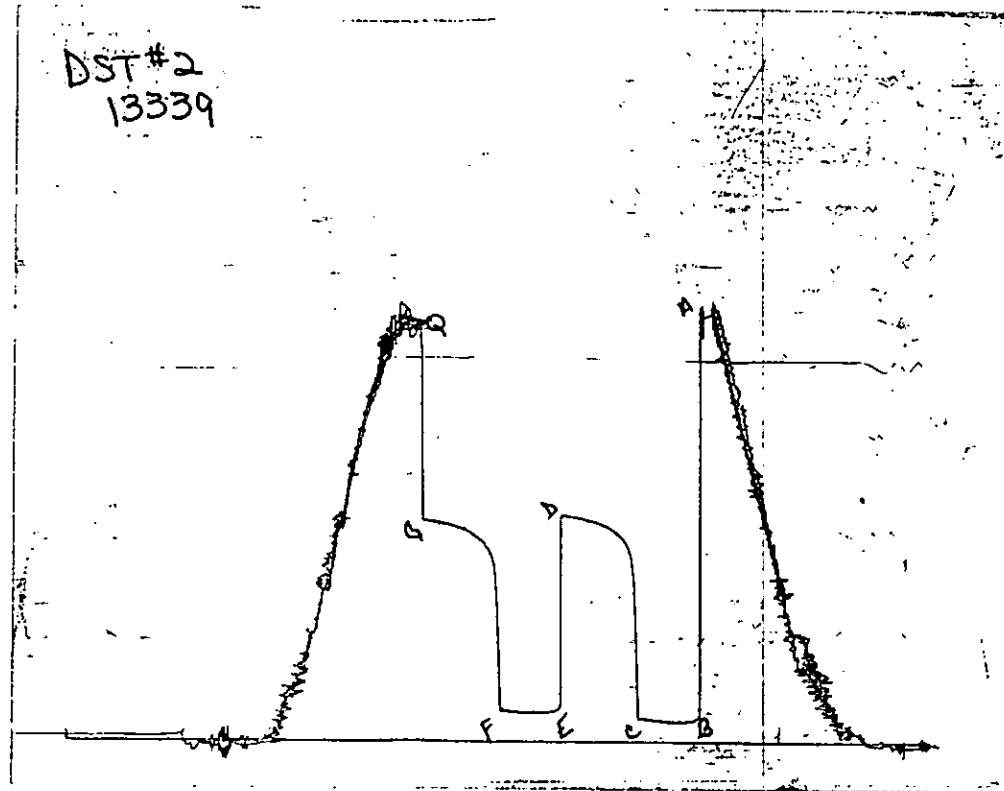


CHART PAGE



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° 10350

Well Name & No. Collingwood #1-2 Test No. 2 Date 10-21-97
Company Cross Bar Petroleum, Inc. Zone Tested Morrow - Miss
Address 1570 W. 21st St Bldg. 1014 Ste B. Wichita, KS. 67205 Elevation 2963 KB 2951 GL
Co. Rep / Geo. Steve Davis Cont. Cheyenne #5 Est. Ft. of Pay Por. %
Location: Sec. 2 Twp. 20^S Rge. 33^W Co. Scott State KS.
No. of Copies Nml. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4568 - 4693 Initial Str Wt/Lbs. 85,000 Unseated Str Wt/Lbs. 85,000
Anchor Length 125' Wt. Set Lbs. 35,000 Wt. Pulled Loose/Lbs. 90,000
Top Packer Depth 4563 Tool Weight 2,000
Bottom Packer Depth 4568 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4693 Wt. Pipe Run Drill Collar Run 706' ¹²
Mud Wt. 9.2 LGM 1/2[#] Vis. 53 WL 8.2 Drill Pipe Size 4 1/2" XH Ft. Run 3853' ⁶²
Blow Description IF: Surface blow built to 1/2" stayed steady thru.
IST: No return blow.
FF: Surface return in 10 mins stayed steady thru.
EST: No return blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>30'</u> Feet Of <u>Drlg Mud</u>		<u>210'</u>	<u> </u>				
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u>180'</u> Feet Of <u>Sulfur Water</u>							
Rec. <u> </u> Feet Of <u> </u>							

BHT 119° °F Gravity °API D@ °F Corrected Gravity °API
RW .45 @ 60° °F Chlorides 17,000 ppm Recovery Chlorides 2,200 ppm System

(A) Initial Hydrostatic Mud	<u>2273</u>	<u>2246</u>	PSI	Recorder No. <u>2342</u>	T-Started <u>0035</u>
(B) First Initial Flow Pressure	<u>104</u>	<u>19</u>	PSI	(depth) <u>4570</u>	T-Open <u>0313</u>
(C) First Final Flow Pressure	<u>124</u>	<u>67</u>	PSI	Recorder No. <u>13339</u>	T-Pulled <u>0643</u>
(D) Initial Shut-in Pressure	<u>1200</u>	<u>1159</u>	PSI	(depth) <u>4688</u>	T-Out <u>0805</u>
(E) Second Initial Flow Pressure	<u>155</u>	<u>68</u>	PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>166</u>	<u>106</u>	PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>1160</u>	<u>1142</u>	PSI	Initial Opening <u>45</u>	Test <u> </u>
(H) Final Hydrostatic Mud	<u>2223</u>	<u>2152</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>

AK-1 Mech. Elec. ALP.

Final Flow 45 Safety Joint X
Final Shut-in 60 Straddle

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Circ. Sub X N/C
Sampler

Approved By [Signature]
Our Representative Rod Steinbrink

Extra Packer
Elect. Rec. X
Other
TOTAL PRICE \$