

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

API NO. 15-169-203160000

County Saline

SW - SW - NW Sec. 4 Twp. 16 Rge. 3 X W

2495 \* Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

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

Lease Name MacDonald Well # 1

Field Name Wildcat

Producing Formation \_\_\_\_\_

Elevation: Ground 1313 KB 1318

Total Depth 3588 PBSD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 342 Feet

Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan D&A 97 9-19-97  
(Data must be collected from the Reserve Pit)

Chloride content 2250 ppm Fluid volume 2500 bbls

Dewatering method used Hauled to disposal

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Schulze Oil & Gas

Lease Name Carlin SWD License No. 5172

2 Quarter Sec. 24 Twp. 15 S Rng. 3 E/W

County McPherson Docket No. D-21-339

Operator: License # 31852

Name: BONNEVILLE FUELS CORPORATION

Address 1660 Lincoln Street, Ste 1800

City/State/Zip Denver, CO 80264

Purchaser: \_\_\_\_\_

Operator Contact Person: R. A. Schwering

Phone ( 303 ) 863-1555 x 213

Contractor: Name: White & Ellis Drilling, Inc

License: 5420

Wellsite Geologist: Richard J. Hall

Designate Type of Completion

\_\_\_\_ New Well \_\_\_\_ Re-Entry \_\_\_\_ Workover

\_\_\_\_ Oil \_\_\_\_ SWD \_\_\_\_ SLOW \_\_\_\_ Temp. Abd.  
\_\_\_\_ Gas \_\_\_\_ ENHR \_\_\_\_ SIGW  
X 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 \_\_\_\_ PBSD  
\_\_\_\_ Commingled \_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_ Dual Completion \_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_ Other (SWD or Inj?) \_\_\_\_ Docket No. \_\_\_\_\_

6/20/97 6/27/97 P&A 6/28/97  
Spud Date Date Reached TD Completion Date

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 R. A. Schwering

Title Operations Mgr. R. A. Schwering, P.E. Date 7/29/97

Subscribed and sworn to before me this 29th day of July, 1997.

Notary Public: Ruth J. Toliver

Date Commission Expires \_\_\_\_\_ My Commission Expires 02/06/2000

\* Note: Skidded Rig 5'N after drilling 43' of 17 1/4" & dropping 5' bar dn hole. Plugged hole 6/22/97 w/20-sx 60/40 Poz.

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

ORIGINAL

SIDE TWO

Operator Name BONNEVILLE FUELS CORP

Lease Name MacDonald

Well # \_\_\_\_\_

Sec. 4 Twp. 16 Rge. 3

East

County Saline

West

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 (Attach Additional Sheets.)  Yes  No

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run (Submit Copy.)  Yes  No

List All E.Logs Run:

DIL/GR CND BHC CAL/GR

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

See Attached

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
Conductor	17 1/2	13 3/8	48	128	60/40Poz	135	cc 3% gel 4%
Surface	12 1/4	8 5/8	20	342	60/40 Poz	210	cc 4% gel 2%

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	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

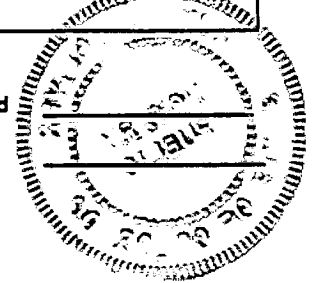
Date of First, Resumed Production, SWD or Inj.	Producing Method
D&A	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil N/A Bbls.	Gas N/A Mcf	Water N/A Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: METHOD OF COMPLETION

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

Production Interval  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_



# ALLIED CEMENTING CO., INC.

5720

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

SERVICE POINT:

Russell

## ORIGINAL

DATE <u>6-28-97</u>	SEC <u>4</u>	TWP. <u>16</u>	RANGE <u>3</u>	CALLED OUT <u>5:30 AM</u> <u>7:30</u>	ON LOCATION <u>8:00 AM</u>	JOB START	JOB FINISH <u>12:15 PM</u>
LEASE <u>Macdonald</u>	WELL # <u>1</u>	LOCATION <u>ASSIRg Exit 22W 1N</u>	COUNTY <u>Saline</u>	STATE <u>Ka</u>			

OLD OR NEW (Circle one)

CONTRACTOR White & Ellis O&G

TYPE OF JOB \_\_\_\_\_

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT \_\_\_\_\_

AMOUNT ORDERED 215 cu 60/40-6

COMMON	129 @ 6.10	786.90
POZMIX	86 @ 3.15	270.90
GEL	11 @ 9.50	104.50
CHLORIDE	@	

### EQUIPMENT

PUMP TRUCK CEMENTER Bill

# 221 HELPER Ron

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

BULK TRUCK DRIVER Brent

# 160 DRIVER \_\_\_\_\_

HANDLING @ 105 225.75

MILEAGE 78m @ 04 670.80

TOTAL 2058.85

### REMARKS:

### SERVICE

1st plug up 35 cu c 3595

2nd plug up 50 cu c 775

3rd plug up 115 cu c 375

15 cu in Rathide

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>550.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>78</u> @ <u>2.85</u>	<u>222.30</u>
PLUG	@	
	@	
	@	

TOTAL 772.30

White & Ellis  
CHARGE TO: Bonnedille Fuels Corp.  
STREET 1660 Lincoln Suite 1800  
CITY Denver STATE Co. ZIP 80264

### 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 Donald A. Deal

# ALLIED CEMENTING CO., INC.

8141

Federal Tax I.D.#

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

**ORIGINAL**

SERVICE POINT: R

DATE <u>8-21-97</u>	SEC <u>4</u>	TWP <u>16<sup>w</sup></u>	RANGE <u>3<sup>s</sup></u>	CALLED OUT	ON LOCATION <u>3' down</u>	JOB START	JOB FINISH <u>9:15 am</u>
LEASE <u>Mr. Donald</u> WELL # <u>1</u>				LOCATION <u>Assaria Exit 2 1/2 W 1/2 N E 1/4</u>		COUNTY <u>Saline</u>	STATE <u>Ks</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR White & Ellis

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 345

CASING SIZE 8 5/8 DEPTH 342 20"

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15' 35"

PERFS.

DISPLACEMENT ZI

OWNER

CEMENT AMOUNT ORDERED 230 20/40 290 290 gel

COMMON	<u>138</u>	@	<u>6.10</u>	<u>841.80</u>
POZMIX	<u>92</u>	@	<u>3.15</u>	<u>289.80</u>
GEL	<u>4</u>	@	<u>9.50</u>	<u>38.00</u>
CHLORIDE	<u>9</u>	@	<u>28.00</u>	<u>252.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>105</u>	<u>241.50</u>
MILEAGE	<u>78m</u>		<u>04</u>	<u>717.60</u>
TOTAL				<u>2380.70</u>

1997 AUG 29  
 RECEIVED  
 KANSAS CEMENT CO. COMM.

EQUIPMENT

PUMP TRUCK CEMENTER Mark

# 153 HELPER Paul

BULK TRUCK

# 291 DRIVER Darin

BULK TRUCK

# DRIVER

REMARKS:

SERVICE

Mixed 190 sx down 8 5/8 Plug  
loaded shot in @ 300' cement did  
not circ.  
Ran 2" between 8 5/8 & 13 3/8 mixed 20sp  
Cement circ.  
Ran 2" in old 13 3/8 hole mixed 20sp  
Cement circ.

DEPTH OF JOB

PUMP TRUCK CHARGE 445.00

EXTRA FOOTAGE 42' @ 41 17.22

MILEAGE @ N/C

PLUG 8 5/8 wooden @ 45.00

TOTAL 507.22

CHARGE TO: White & Ellis Drlg Co.

STREET P.O. Box 48848

CITY Wichita STATE Kan ZIP 67201-8848

FLOAT EQUIPMENT

(Baker)

8 5/8 Baffle Plate @ 135.00

2 8 5/8 Baskets @ 200.00 400.00

TOTAL 535.00

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 Bob Kasper

PRINTED NAME

# ALLIED CEMENTING CO., INC.

Federal Tax I.D. #

8140

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

SERVICE POINT: X

**ORIGINAL**

RECEIVED  
KANSAS CORP  
JUN 7 1971

DATE <u>6-20-97</u>	SEC. <u>4</u>	TWP. <u>16<sup>w</sup></u>	RANGE <u>3<sup>s</sup></u>	CALLED OUT	ON LOCATION <u>2:45</u>	JOB START	JOB FINISH <u>5:00 pm</u>
LEASE <u>Mr. Donald</u> WELL # <u>1</u>		LOCATION <u>Assaria Exit 2 1/2 W 2nd Exit</u>			COUNTY <u>Saline</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR White & Ellis

TYPE OF JOB Conductor

HOLE SIZE 17 7/8 T.D. 128

CASING SIZE 13 3/8 DEPTH 128

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE  SHOE JOINT

CEMENT LEFT IN CSG. 10'

PERFS.

DISPLACEMENT 18 1/2

OWNER

CEMENT

AMOUNT ORDERED 135 6 1/4 4 3/4 cc. 29 gal

COMMON	<u>81</u>	@	<u>610</u>	<u>494.10</u>
POZMIX	<u>54</u>	@	<u>315</u>	<u>170.10</u>
GEL	<u>2</u>	@	<u>950</u>	<u>19.00</u>
CHLORIDE	<u>05</u>	@	<u>2800</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>105</u>	<u>141.75</u>
MILEAGE	<u>78m</u>		<u>04</u>	<u>421.20</u>
TOTAL				<u>1386.15</u>

REMARKS:

SERVICE

Cement Cies

[Signature]

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>445.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>78m</u>	@	<u>285</u>
PLUG <u>13 3/8</u>		@	<u>70.00</u>
		@	
		@	
TOTAL			<u>737.30</u>

CHARGE TO: Bonneville Fuels Corp

STREET 1660 Lincoln, #1800

CITY Denver STATE Co. ZIP 80264

FLOAT EQUIPMENT

<u>13 3/8 Basket</u>	@		<u>\$ 277.00</u>
	@		
	@		
	@		
TOTAL			<u>277.00</u>

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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.

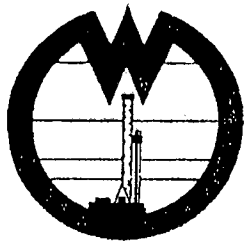
TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE [Signature]

PRINTED NAME



ORIGINAL

15-169-20314-00-00

**WHITE**

AND ELLIS DRILLING, Inc.

DRILLERS LOG

Operator: Bonneville Fuels Corporation  
1660 Lincoln - Suite 1800  
Denver, CO 80264

Contractor: White & Ellis Drilling, Inc.  
P. O. Box 48848  
Wichita, KS 67201-8848

RECEIVED  
KANSAS CORP COMM  
1997 AUG -7 P 11: 01

RECEIVED  
KANSAS CORP COMM  
1997 JUL 16 A 11: 11

Lease Name MacDonald Well No. 1  
Spot 185' S of SW SW NW Section 4 Township 16S Range 3W  
County Saline State Kansas

Casing Record:  
Conductor: 13 3/8" 128' 135 sx.  
Surface: 8 5/8" @ 342' with 210 sx.  
Production: @ with

Type Well: D & A Total Depth 3595'

Drilling Commenced: 6-20-97 Drilling Completed: 6/28/97

<u>Formation</u>	<u>From</u>	<u>To</u>	<u>Tops</u>
Cellar	0	5	
Shale	5	1400	
Shale & Lime	1400	3067	
Lime & Shale	3067	3465	
Shale & Lime	3465	3595	
Brown Lime			2120'
Lansing			2190'
Kansas City	2355'	2567'	2355'
Ft Scott			2643'
Cherokee			2690'
Spergen			2810'
Warsaw			2829'
Osage			2912'
Gilmore City			3041'
Kinderhook			3087'
Hunton			3247'
Maquoketa			3267'
Viola			3380'
Simpson			3462'
Arbuckle			3538'

ORIGINAL

WELL NAME: MacDonald #1  
COMPANY: Bonneville Fuels Corp  
LOCATION: 4-16S-3W  
Saline County Kansas  
DATE: 07/01/97

15-169-20316 -00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Bonneville Fuels Corp  
 WELL NAME: MacDonald #1  
 LOCATION : 4-16S-3W Saline KS  
 INTERVAL : 3323.00 To 3336.00 ft

DATE 6/25/97

KB 1318.00 ft TICKET NO: 10170 DST #1  
 GR 1313.00 ft FORMATION: Maquoketa  
 TD 3336.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13249	13249	13754			PF Fr. 2110 to 2125 hr
SI 30 Range(Psi )	4500.0	4500.0	4000.0	0.0	0.0	IS Fr. 2125 to 2155 hr
SF 60 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 2155 to 2255 hr
FS 120 Depth(ft )	3333.0	3333.0	3326.0	0.0	0.0	FS Fr. 2255 to 0055 hr

	Field	1	2	3	4	
A. Init Hydro	1584.0	1582.0	0.0	0.0	0.0	T STARTED 1945 hr
B. First Flow	22.0	63.0	0.0	0.0	0.0	T ON BOTM 2100 hr
B1. Final Flow	22.0	23.0	0.0	0.0	0.0	T OPEN 2110 hr
C. In Shut-in	33.0	28.0	0.0	0.0	0.0	T PULLED 0055 hr
D. Init Flow	22.0	23.0	0.0	0.0	0.0	T OUT 0200 hr
E. Final Flow	22.0	7.0	0.0	0.0	0.0	
F. Fl Shut-in	271.0	269.0	0.0	0.0	0.0	
G. Final Hydro	1572.0	1569.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt. 1500.00 lbs  
 Wt Set On Packer 25000.00 lbs  
 Wt Pulled Loose 60000.00 lbs  
 Initial Str Wt 42000.00 lbs  
 Unseated Str Wt 42000.00 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 3295.00 ft

RECOVERY

Tot Fluid 1.00 ft of 0.00 ft in DC and 1.00 ft in DP  
 1.00 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 Flow:  
 Weak blow, Died in 3 mins

Final Flow:  
 No blow, Flushed tool, tool help

SAMPLES:  
 SENT TO:

MUD DATA-----

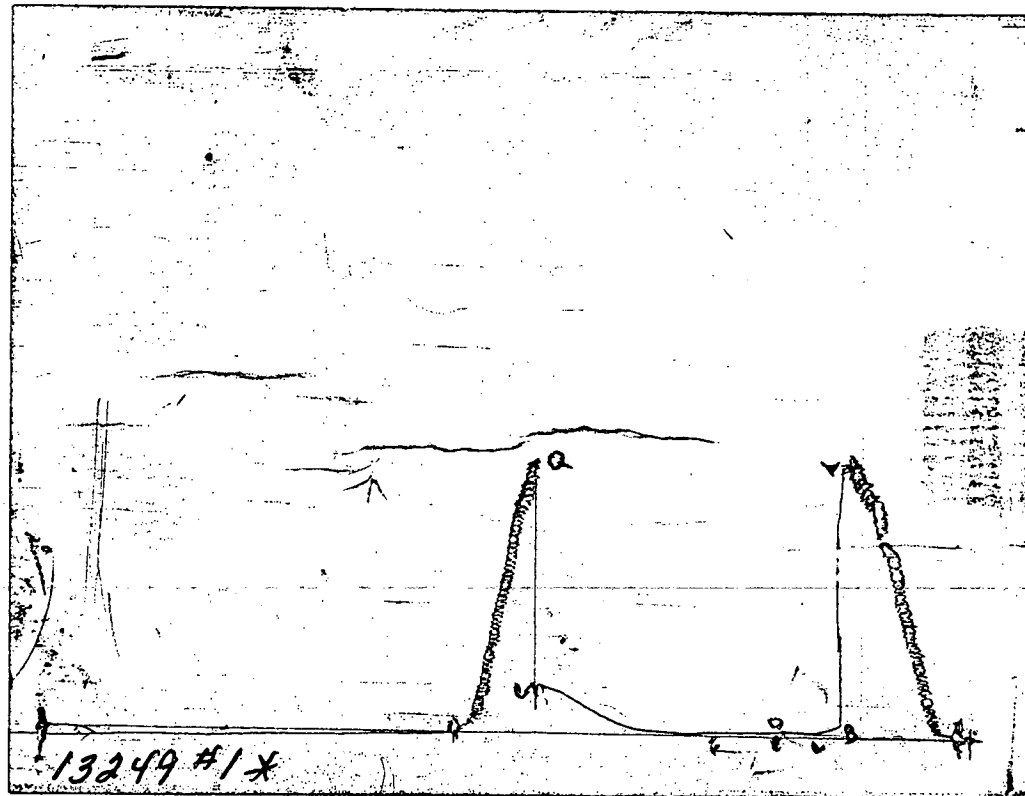
Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 42.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 110.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Dan Bangle  
 Co. Rep. Rick Hall  
 Contr. White & Ellis  
 Rig #  
 Unit #  
 Pump T.

Test Successful: Y



Time	Pressure PSIG	Log Hom T	◇ Pressure	(T+dT)/dT	
***Start Shutin 2	15	19	0.778	19.0	6.0
	30	22	0.544	3.0	3.5
	45	27	0.426	5.0	2.7
	60	54	0.352	27.0	2.3
	75	105	0.301	51.0	2.0
	90	170	0.263	65.0	1.8
	105	232	0.234	62.0	1.7
	120	275	0.211	43.0	1.6

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 10170

Well Name & No. <u>MacDonald #1</u>	Test No. <u>1</u>	Date <u>6-25-97</u>
Company <u>Bonneville Fuels Corp.</u>	Zone Tested <u>Maguoketa</u>	
Address <u>1660 Lincoln - Ste 1800, Denver, Colo. 80264</u>	Elevation <u>1318</u>	KB <u>1313</u> GL
Co. Rep / Geo. <u>Rick Hall</u>	Cont. <u>White + Ellis Drilling</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u>	Twp. <u>16</u>	Rge. <u>3</u> Co. <u>Saline</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3323 - 3336 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000  
Anchor Length 13' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
Top Packer Depth 3318 Tool Weight 1500  
Bottom Packer Depth 3323 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 3336 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 42 WL 9.6 Drill Pipe Size 4.5 X H Ft. Run 3295  
Blow Description I.F. Weak - Died in 3 min.

F.F. No blow. Flushed Tool - No help.

Recovery — Total Feet <u>1</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>1</u>	
Rec. <u>1</u> Feet Of <u>D.M</u>	%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 <u>110</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____	
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>1500</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>1584</u> PSI	Recorder No. <u>13754</u>	T-Started <u>19:45</u>		
(B) First Initial Flow Pressure <u>22</u> PSI	(depth) <u>3326</u>	T-Open <u>21:10</u>		
(C) First Final Flow Pressure <u>22</u> PSI	Recorder No. <u>13249</u>	T-Pulled <u>00:55</u>		
(D) Initial Shut-in Pressure <u>33</u> PSI	(depth) <u>3333</u>	T-Out <u>02:00</u>		
(E) Second Initial Flow Pressure <u>22</u> PSI	Recorder No. _____			
(F) Second Final Flow Pressure <u>22</u> PSI	(depth) _____			
(G) Final Shut-in Pressure <u>271</u> PSI	Initial Opening <u>15</u>	Test <u>600</u>		
(H) Final Hydrostatic Mud <u>1522</u> PSI	Initial Shut-in <u>30</u>	Jars <u>X</u> <u>200</u>		
	Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>		
	Final Shut-in <u>120</u>	Straddle _____		
		Circ. Sub _____		
		Sampler _____		
		Extra Packer _____		
		Elect. Rec. _____		
		Other _____		

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]*

TRILOBITE TESTING L.L.C.

OPERATOR : Bonneville Fuels Corp  
 WELL NAME: MacDonald #1  
 LOCATION : 4-16-3-Saline Co Ks  
 INTERVAL : 3317.50 To 3333.00 ft

DATE 6-27-97

KB 1318.00 ft TICKET NO: 10171 DST #2  
 GR 1313.00 ft FORMATION: Maquoketa  
 TD 3595.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13754	13754	2357	13249		PF Fr. 2155 to 2210 hr
SI 30 Range(Psi )	4000.0	4000.0	4995.0	4200.0	0.0	IS Fr. 2210 to 2240 hr
SF 90 Clock(hrs)	12 hr	12 hr	Elec	12 hr		SF Fr. 2240 to 0010 hr
FS 180 Depth(ft )	3326.0	3326.0	3319.0	3592.0	0.0	FS Fr. 0010 to 0310 hr

	Field	1	2	3	4	
A. Init Hydro	1666.0	1650.0	1624.0	1660.0	0.0	T STARTED 2018 hr
B. First Flow	39.0	50.0	15.0	0.0	0.0	T ON BOTM 2150 hr
B1. Final Flow	39.0	50.0	17.0	0.0	0.0	T OPEN 2155 hr
C. In Shut-in	482.0	489.0	489.0	0.0	0.0	T PULLED 0310 hr
D. Init Flow	59.0	73.0	16.0	0.0	0.0	T OUT 0440 hr
E. Final Flow	59.0	73.0	18.0	0.0	0.0	
F. Fl Shut-in	492.0	493.0	478.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1636.0	1627.0	1572.0	1625.0	0.0	Tool Wt. 1400.00 lbs
Inside/Outside	0	0	I	0		Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 44000.00 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 3294.00 ft
						H.W. I.D 2.70 in

RECOVERY

Tot Fluid 2.00 ft of 0.00 ft in DC and 2.00 ft in DP  
 2.00 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  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Weak blow, Died in 12 min

Final Flow:  
 No blow

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	67.00 S/L
W.L.	8.50 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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	Dan Bangle
Co. Rep.	Richard Hall
Contr.	White & Ellis
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV STRADDLE

WELL NAME: MacDonald #1

LOCATION : 4-16-3-Saline Co Ks

TICKET No. 10171 D.S.T. No. 2 DATE 6-27-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 23

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 16

TOTAL TOOL ..... 39

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 4 Single Total 250

TOTAL ASSEMBLY ..... 289

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 44 Single 1 Total 3294

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3627

TOTAL DEPTH ..... 3595

TOTAL DRILL PIPE ABOVE K.B. .... 32

REMARKS:

P.O. SUB	
C.O. SUB	3294
S.I. TOOL Sterling	3300
HMV Sterling	3305
JARS Sterling	3310
SAFETY JOINT Bowen	3314
n\a	
PACKER	3317.5
DEPTH 3317.5	
STUBB 1'	3318
ANCHOR Alpine Rec. @ 3319	
5' Perfs	3323
Ak-1 Rec. @ 3326	
5' Perfs	3328
1' Perfs	3329
1' Blank-Off	3330
T.C. 3'	3333
DEPTH 3333	
3333	
1' Stub	3334
4' Perfs	3338
PACKER 1' Co Sub	3339
4 Stds Dp	3589
1' Co Sub	3590
Ak-1 Rec. @ 3592	
BULLNOSE 5' Bullplug	3595
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97 TIME: 20:18:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	93.00	1624.2	0.0	107.93		
***** Start Flow 1	0.00	7.6	0.0	108.03		
	1.00	15.3	7.6	108.05		
	2.00	15.5	7.9	108.05		
	3.00	15.9	8.2	108.02		
	4.00	16.4	8.8	108.00		
	5.00	16.4	8.7	107.98		
	6.00	16.5	8.9	107.97		
	7.00	16.4	8.8	107.96		
	8.00	16.4	8.7	107.95		
	9.00	16.4	8.7	107.96		
	10.00	16.5	8.9	107.97		
	11.00	16.7	9.1	107.97		
	12.00	16.5	8.9	107.98		
	13.00	16.5	8.9	108.00		
	14.00	16.5	8.9	108.01		
***** End Flow 1	15.00	16.5	8.9	108.03		
***** Start Shutin 1	0.00	16.5	0.0	108.03	0.0000	0.000
	1.00	14.3	-2.2	108.04	16.0000	0.000
	2.00	18.9	2.3	108.07	8.5000	0.000
	3.00	24.3	7.8	108.08	6.0000	0.001
	4.00	33.5	17.0	108.11	4.7500	0.001
	5.00	49.5	33.0	108.13	4.0000	0.002
	6.00	75.6	59.1	108.15	3.5000	0.006
	7.00	118.5	102.0	108.17	3.1429	0.014
	8.00	170.4	153.8	108.21	2.8750	0.029
	9.00	220.0	203.4	108.23	2.6667	0.048
	10.00	263.9	247.3	108.26	2.5000	0.070
	11.00	299.3	282.7	108.30	2.3636	0.090
	12.00	328.9	312.4	108.32	2.2500	0.108
	13.00	353.0	336.5	108.36	2.1538	0.125
	14.00	373.2	356.7	108.39	2.0714	0.139
	15.00	389.6	373.1	108.42	2.0000	0.152
	16.00	404.0	387.5	108.45	1.9375	0.163
	17.00	416.1	399.6	108.48	1.8824	0.173
	18.00	426.7	410.2	108.51	1.8333	0.182
	19.00	435.5	419.0	108.53	1.7895	0.190
	20.00	443.9	427.4	108.56	1.7500	0.197
	21.00	450.9	434.4	108.59	1.7143	0.203
	22.00	457.4	440.9	108.61	1.6818	0.209
	23.00	462.9	446.4	108.64	1.6522	0.214
	24.00	468.4	451.9	108.66	1.6250	0.219
	25.00	473.1	456.6	108.69	1.6000	0.224
	26.00	477.4	460.8	108.71	1.5769	0.228
	27.00	481.5	465.0	108.73	1.5556	0.232
	28.00	485.1	468.6	108.76	1.5357	0.235
***** End Shut-in 1	29.00	488.7	472.2	108.78	1.5172	0.239
***** Start Flow 2	0.00	15.9	0.0	108.78		
	1.00	16.3	0.3	108.79		
	2.00	16.5	0.6	108.80		
	3.00	16.5	0.6	108.80		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97 TIME: 20:18:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
4.00	16.6	0.7	108.81		
5.00	16.6	0.7	108.82		
6.00	16.8	0.8	108.83		
7.00	16.8	0.8	108.84		
8.00	16.8	0.8	108.86		
9.00	16.9	0.9	108.87		
10.00	16.7	0.8	108.89		
11.00	16.7	0.8	108.91		
12.00	16.7	0.8	108.92		
13.00	16.7	0.8	108.95		
14.00	16.6	0.7	108.96		
15.00	16.6	0.7	108.98		
16.00	16.6	0.7	109.00		
17.00	16.8	0.8	109.02		
18.00	16.7	0.8	109.04		
19.00	16.7	0.8	109.07		
20.00	16.9	0.9	109.08		
21.00	16.9	0.9	109.10		
22.00	16.9	0.9	109.13		
23.00	16.9	0.9	109.15		
24.00	16.7	0.8	109.17		
25.00	16.9	1.0	109.19		
26.00	17.1	1.2	109.21		
27.00	16.9	1.0	109.23		
28.00	16.9	1.0	109.25		
29.00	17.1	1.2	109.27		
30.00	17.1	1.2	109.28		
31.00	17.1	1.2	109.31		
32.00	17.1	1.2	109.33		
33.00	16.9	1.0	109.35		
34.00	17.0	1.1	109.37		
35.00	16.9	0.9	109.39		
36.00	17.0	1.1	109.41		
37.00	17.0	1.1	109.42		
38.00	16.9	1.0	109.44		
39.00	16.9	0.9	109.47		
40.00	17.0	1.1	109.49		
41.00	17.0	1.1	109.50		
42.00	17.1	1.2	109.52		
43.00	16.9	1.0	109.54		
44.00	17.1	1.2	109.56		
45.00	16.9	1.0	109.58		
46.00	17.1	1.2	109.59		
47.00	17.1	1.2	109.61		
48.00	17.1	1.2	109.63		
49.00	17.1	1.2	109.65		
50.00	17.0	1.1	109.67		
51.00	17.0	1.1	109.69		
52.00	17.0	1.1	109.71		
53.00	17.0	1.1	109.72		
54.00	17.0	1.1	109.74		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97 TIME: 20:18:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
55.00	17.2	1.3	109.76			
56.00	17.2	1.3	109.78			
57.00	17.2	1.3	109.79			
58.00	17.1	1.2	109.81			
59.00	17.1	1.2	109.83			
60.00	17.1	1.2	109.85			
61.00	17.3	1.3	109.87			
62.00	17.3	1.3	109.88			
63.00	17.3	1.3	109.90			
64.00	17.2	1.3	109.92			
65.00	17.2	1.3	109.93			
66.00	17.2	1.3	109.95			
67.00	17.0	1.1	109.97			
68.00	17.1	1.2	109.98			
69.00	17.1	1.2	110.00			
70.00	17.2	1.3	110.02			
71.00	17.2	1.3	110.04			
72.00	17.2	1.3	110.05			
73.00	17.2	1.3	110.07			
74.00	17.2	1.3	110.08			
75.00	17.1	1.2	110.10			
76.00	17.1	1.2	110.11			
77.00	17.3	1.3	110.13			
78.00	17.3	1.3	110.14			
79.00	17.1	1.2	110.17			
80.00	17.1	1.2	110.18			
81.00	17.2	1.3	110.20			
82.00	17.0	1.1	110.21			
83.00	17.3	1.3	110.22			
84.00	17.3	1.3	110.25			
85.00	17.2	1.3	110.26			
86.00	17.2	1.3	110.27			
87.00	17.2	1.3	110.29			
88.00	17.4	1.5	110.30			
89.00	17.5	1.6	110.32			
90.00	15.7	-0.3	110.33			
91.00	17.7	1.8	110.35			
***** End Flow 2						
***** Start Shutin 2	0.00	17.7	0.0	110.35	0.0000	0.000
	1.00	20.1	2.4	110.37	107.0000	0.000
	2.00	22.8	5.1	110.38	54.0000	0.001
	3.00	26.3	8.6	110.39	36.3333	0.001
	4.00	30.9	13.2	110.41	27.5000	0.001
	5.00	36.3	18.6	110.43	22.2000	0.001
	6.00	43.6	25.9	110.44	18.6667	0.002
	7.00	53.4	35.7	110.46	16.1429	0.003
	8.00	65.0	47.3	110.47	14.2500	0.004
	9.00	79.8	62.1	110.49	12.7778	0.006
	10.00	99.3	81.6	110.51	11.6000	0.01
	11.00	121.0	103.3	110.52	10.6364	0.015
	12.00	144.1	126.4	110.55	9.8333	0.021
	13.00	167.7	150.0	110.56	9.1538	0.028



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 06/27/97

TIME: 20:18:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
14.00	190.7	173.0	110.59	8.5714	0.036
15.00	210.7	193.0	110.60	8.0667	0.044
16.00	229.8	212.1	110.63	7.6250	0.053
17.00	246.7	229.0	110.64	7.2353	0.061
18.00	261.7	244.0	110.67	6.8889	0.068
19.00	275.4	257.7	110.68	6.5789	0.076
20.00	287.6	269.9	110.70	6.3000	0.083
21.00	298.3	280.6	110.72	6.0476	0.089
22.00	308.2	290.5	110.74	5.8182	0.095
23.00	317.1	299.4	110.76	5.6087	0.101
24.00	325.1	307.4	110.78	5.4167	0.106
25.00	332.5	314.8	110.79	5.2400	0.111
26.00	339.1	321.4	110.81	5.0769	0.115
27.00	345.2	327.5	110.83	4.9259	0.119
28.00	351.0	333.3	110.84	4.7857	0.123
29.00	356.3	338.6	110.86	4.6552	0.127
30.00	361.3	343.6	110.88	4.5333	0.131
31.00	365.8	348.1	110.89	4.4194	0.134
32.00	369.9	352.2	110.91	4.3125	0.137
33.00	374.1	356.4	110.91	4.2121	0.140
34.00	377.8	360.1	110.94	4.1176	0.143
35.00	381.4	363.7	110.95	4.0286	0.145
36.00	384.7	367.0	110.97	3.9444	0.148
37.00	387.9	370.2	110.98	3.8649	0.150
38.00	390.8	373.1	110.99	3.7895	0.153
39.00	393.7	376.0	111.01	3.7179	0.155
40.00	396.4	378.7	111.02	3.6500	0.157
41.00	398.9	381.2	111.04	3.5854	0.159
42.00	401.3	383.6	111.05	3.5238	0.161
43.00	403.7	386.0	111.06	3.4651	0.163
44.00	405.9	388.2	111.07	3.4091	0.165
45.00	408.0	390.3	111.10	3.3556	0.167
46.00	410.1	392.4	111.10	3.3043	0.168
47.00	411.9	394.2	111.11	3.2553	0.170
48.00	413.9	396.2	111.13	3.2083	0.171
49.00	415.9	398.2	111.14	3.1633	0.173
50.00	417.5	399.8	111.15	3.1200	0.174
51.00	419.1	401.4	111.17	3.0784	0.176
52.00	420.8	403.1	111.18	3.0385	0.177
53.00	422.3	404.6	111.19	3.0000	0.178
54.00	423.7	406.0	111.21	2.9630	0.180
55.00	425.3	407.6	111.22	2.9273	0.181
56.00	426.8	409.1	111.23	2.8929	0.182
57.00	428.0	410.3	111.24	2.8596	0.183
58.00	429.5	411.7	111.26	2.8276	0.184
59.00	430.8	413.1	111.27	2.7966	0.186
60.00	431.9	414.2	111.28	2.7667	0.187
61.00	433.1	415.4	111.29	2.7377	0.188
62.00	434.4	416.7	111.31	2.7097	0.189
63.00	435.4	417.7	111.32	2.6825	0.190
64.00	436.4	418.7	111.33	2.6562	0.190

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97

TIME: 20:18:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
65.00	437.7	420.0	111.34	2.6308	0.192
66.00	438.5	420.8	111.36	2.6061	0.192
67.00	439.4	421.7	111.37	2.5821	0.193
68.00	440.5	422.8	111.38	2.5588	0.194
69.00	441.5	423.8	111.39	2.5362	0.195
70.00	442.4	424.7	111.40	2.5143	0.196
71.00	443.1	425.4	111.42	2.4930	0.196
72.00	444.2	426.5	111.42	2.4722	0.197
73.00	445.0	427.3	111.44	2.4521	0.198
74.00	445.7	428.0	111.45	2.4324	0.199
75.00	446.7	429.0	111.47	2.4133	0.200
76.00	447.3	429.6	111.47	2.3947	0.200
77.00	448.2	430.5	111.49	2.3766	0.201
78.00	448.8	431.1	111.50	2.3590	0.201
79.00	449.7	432.0	111.51	2.3418	0.202
80.00	450.3	432.6	111.52	2.3250	0.203
81.00	451.1	433.4	111.53	2.3086	0.203
82.00	451.7	434.0	111.54	2.2927	0.204
83.00	452.4	434.7	111.55	2.2771	0.205
84.00	452.9	435.2	111.57	2.2619	0.205
85.00	453.4	435.7	111.58	2.2471	0.206
86.00	454.2	436.5	111.59	2.2326	0.206
87.00	454.7	437.0	111.60	2.2184	0.207
88.00	455.4	437.7	111.61	2.2045	0.207
89.00	455.9	438.2	111.62	2.1910	0.208
90.00	456.5	438.8	111.63	2.1778	0.208
91.00	457.0	439.3	111.64	2.1648	0.209
92.00	457.3	439.6	111.65	2.1522	0.209
93.00	457.9	440.2	111.67	2.1398	0.210
94.00	458.5	440.8	111.67	2.1277	0.210
95.00	459.1	441.4	111.68	2.1158	0.211
96.00	459.5	441.8	111.70	2.1042	0.211
97.00	460.0	442.3	111.71	2.0928	0.212
98.00	460.3	442.6	111.72	2.0816	0.212
99.00	460.8	443.1	111.73	2.0707	0.212
100.00	461.3	443.6	111.74	2.0600	0.213
101.00	461.7	444.0	111.76	2.0495	0.213
102.00	462.0	444.3	111.76	2.0392	0.213
103.00	462.3	444.6	111.78	2.0291	0.214
104.00	462.9	445.2	111.78	2.0192	0.214
105.00	463.4	445.7	111.78	2.0095	0.215
106.00	463.7	446.0	111.81	2.0000	0.215
107.00	464.1	446.4	111.81	1.9907	0.215
108.00	464.5	446.8	111.82	1.9815	0.216
109.00	465.0	447.3	111.83	1.9725	0.216
110.00	465.1	447.4	111.84	1.9636	0.216
111.00	465.5	447.8	111.85	1.9550	0.217
112.00	466.0	448.3	111.86	1.9464	0.217
113.00	466.3	448.6	111.87	1.9381	0.217
114.00	466.6	448.9	111.88	1.9298	0.218
115.00	467.0	449.3	111.90	1.9217	0.218

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97

TIME: 20:18:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
116.00	467.3	449.6	111.90	1.9138	0.218
117.00	467.7	450.0	111.91	1.9060	0.219
118.00	468.0	450.3	111.92	1.8983	0.219
119.00	468.1	450.4	111.93	1.8908	0.219
120.00	468.5	450.8	111.94	1.8833	0.219
121.00	468.9	451.2	111.95	1.8760	0.220
122.00	469.0	451.3	111.96	1.8689	0.220
123.00	469.3	451.6	111.98	1.8618	0.220
124.00	469.7	452.0	111.98	1.8548	0.221
125.00	470.0	452.3	111.99	1.8480	0.221
126.00	470.2	452.5	112.00	1.8413	0.221
127.00	470.2	452.5	112.01	1.8346	0.221
128.00	470.7	453.0	112.02	1.8281	0.222
129.00	470.9	453.2	112.04	1.8217	0.222
130.00	471.2	453.5	112.04	1.8154	0.222
131.00	471.4	453.7	112.05	1.8092	0.222
132.00	471.7	454.0	112.06	1.8030	0.223
133.00	471.9	454.2	112.07	1.7970	0.223
134.00	472.2	454.5	112.08	1.7910	0.223
135.00	472.5	454.8	112.09	1.7852	0.223
136.00	472.7	455.0	112.09	1.7794	0.223
137.00	472.9	455.2	112.11	1.7737	0.224
138.00	473.1	455.4	112.12	1.7681	0.224
139.00	473.3	455.6	112.12	1.7626	0.224
140.00	473.4	455.7	112.14	1.7571	0.224
141.00	473.7	456.0	112.15	1.7518	0.224
142.00	473.8	456.1	112.15	1.7465	0.224
143.00	473.9	456.2	112.17	1.7413	0.225
144.00	474.2	456.5	112.18	1.7361	0.225
145.00	474.4	456.7	112.19	1.7310	0.225
146.00	474.5	456.8	112.20	1.7260	0.225
147.00	474.8	457.1	112.21	1.7211	0.225
148.00	474.9	457.2	112.21	1.7162	0.226
149.00	474.9	457.2	112.22	1.7114	0.226
150.00	475.3	457.6	112.24	1.7067	0.226
151.00	475.4	457.7	112.24	1.7020	0.226
152.00	475.6	457.9	112.24	1.6974	0.226
153.00	475.7	458.0	112.26	1.6928	0.226
154.00	475.9	458.2	112.26	1.6883	0.227
155.00	476.1	458.4	112.28	1.6839	0.227
156.00	476.4	458.7	112.29	1.6795	0.227
157.00	476.4	458.7	112.28	1.6752	0.227
158.00	476.7	459.0	112.30	1.6709	0.227
159.00	476.8	459.1	112.31	1.6667	0.227
160.00	476.9	459.2	112.32	1.6625	0.227
161.00	477.0	459.3	112.33	1.6584	0.227
162.00	477.4	459.7	112.33	1.6543	0.228
163.00	477.5	459.8	112.34	1.6503	0.228
164.00	477.5	459.8	112.35	1.6463	0.228
165.00	477.7	460.0	112.36	1.6424	0.228
166.00	477.9	460.2	112.37	1.6386	0.228

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

DATE: 06/27/97

TIME: 20:18:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	167.00	478.3	460.6	112.38	1.6347	0.229
	168.00	478.0	460.3	112.39	1.6310	0.229
	169.00	478.3	460.6	112.40	1.6272	0.229
	170.00	478.4	460.7	112.40	1.6235	0.229
	171.00	478.5	460.8	112.41	1.6199	0.229
	172.00	478.6	460.9	112.43	1.6163	0.229
	173.00	478.9	461.2	112.44	1.6127	0.229
	174.00	479.1	461.4	112.43	1.6092	0.230
	175.00	479.1	461.4	112.44	1.6057	0.230
	176.00	474.4	456.7	112.46	1.6023	0.225
	177.00	475.7	458.0	112.47	1.5989	0.226
	178.00	476.6	458.9	112.47	1.5955	0.227
	179.00	477.2	459.5	112.48	1.5922	0.228
***** End Shut-in 2	180.00	477.5	459.8	112.49	1.5889	0.228
***** Final Hydro.	414.00	1572.1	0.0	112.59		

# TEST HISTORY

Tk# 10171 DST# 2 MacDonald #1 Bonneville Fuels Corp

Flag Points  
t(Min.) P( PSig)

A:	0.00	1624.25
B:	0.00	7.63
C:	15.00	16.53
D:	29.00	488.70
E:	0.00	15.94
F:	91.00	17.70
G:	180.00	477.54
Q:	0.00	1572.13

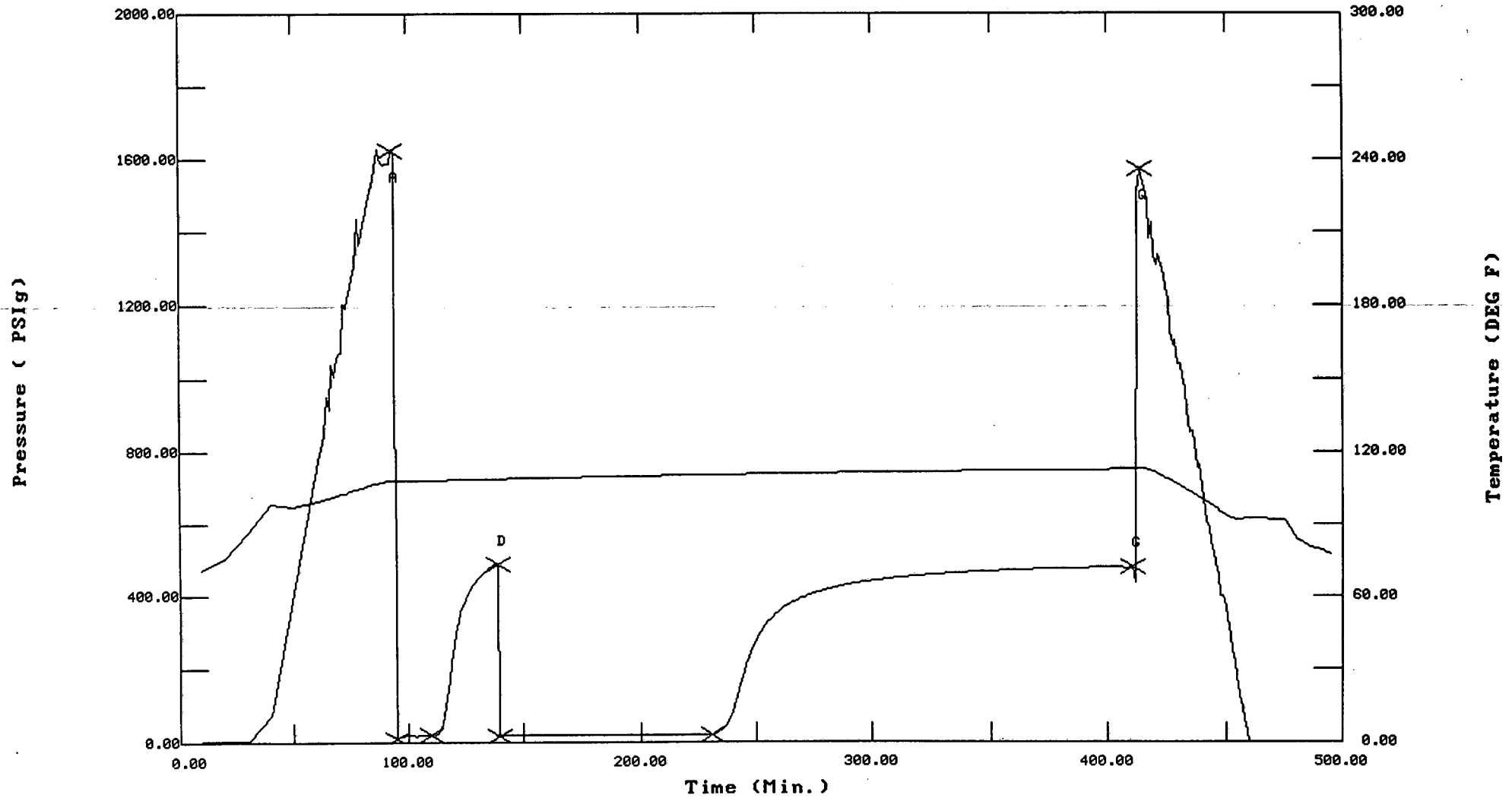
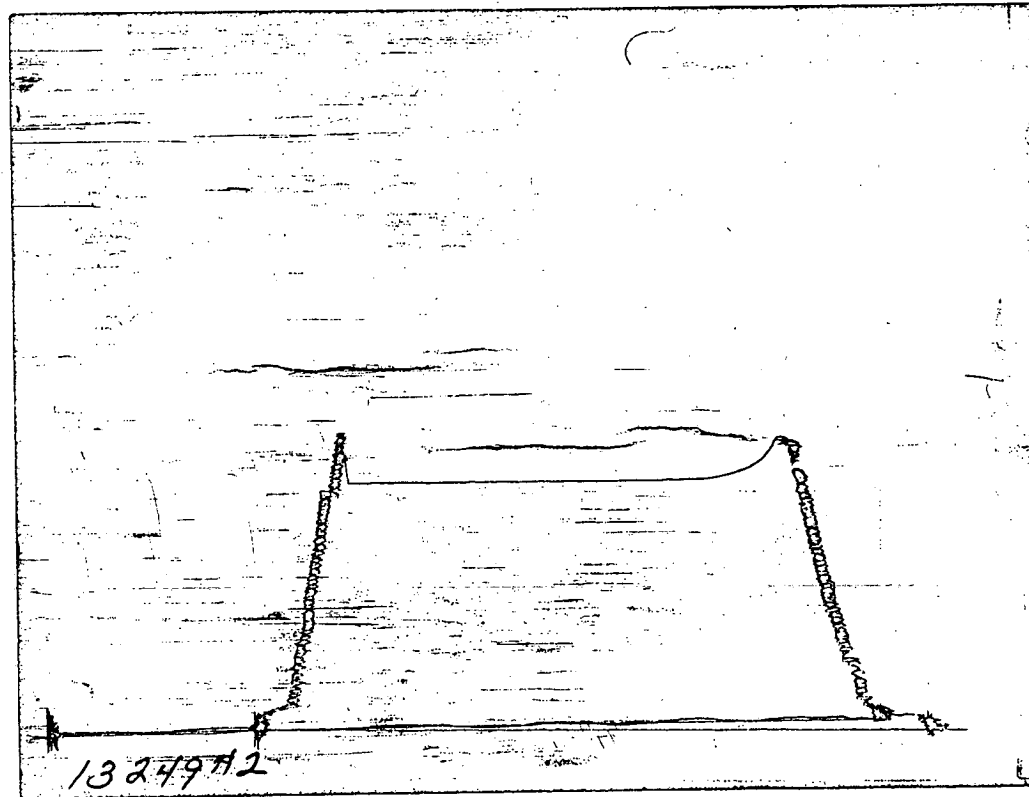


CHART PAGE



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

N<sup>o</sup> 10171

Well Name & No. <u>MacDonald #1</u>	Test No. <u>2</u>	Date <u>6-27-97</u>
Company <u>Booneville Fuels Corp.</u>	Zone Tested <u>Mequoketa</u>	
Address _____	Elevation <u>1318</u> KB <u>1317</u> GL	
Co. Rep / Geo. <u>Rick Hall</u>	Cont. <u>White &amp; Ellis Drlg.</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>4</u> Twp. <u>16</u> Rge. <u>3</u>	Co. <u>Saline</u> State <u>Ks</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) <input checked="" type="checkbox"/> Evaluation (Y, N) _____

Interval Tested <u>3317.5 - 3333</u>	Initial Str Wt./Lbs. <u>44000</u>	Unseated Str Wt./Lbs. <u>44000</u>
Anchor Length <u>16'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>45,000</u>
Top Packer Depth <u>3317.5</u>	Tool Weight <u>1400</u>	
Bottom Packer Depth <u>3333</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3595</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.2</u> LCM _____ Vis. <u>67</u> WL <u>8.5</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3294</u>
Blow Description <u>E.F. Weak - Died in 12 min.</u>		

F.F. No blow

Recovery — Total Feet <u>2</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>2</u>
Rec. <u>2</u> Feet Of <u>D.M.</u>	%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 112 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1300 ppm System

(A) Initial Hydrostatic Mud <u>1666</u>   <u>1624</u> PSI	Recorder No. <u>2357</u>	T-Started <u>20:18</u>
(B) First Initial Flow Pressure <u>39</u>   <u>15</u> PSI	(depth) <u>3319</u>	T-Open <u>21:55</u>
(C) First Final Flow Pressure <u>39</u>   <u>17</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>03:10</u>
(D) Initial Shut-in Pressure <u>482</u>   <u>489</u> PSI	(depth) <u>3326</u>	T-Out <u>04:40</u>
(E) Second Initial Flow Pressure <u>59</u>   <u>16</u> PSI	Recorder No. <u>13249</u>	
(F) Second Final Flow Pressure <u>59</u>   <u>18</u> PSI	(depth) <u>3592</u>	
(G) Final Shut-in Pressure <u>492</u>   <u>478</u> PSI	Initial Opening <u>15</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1636</u>   <u>1572</u> PSI	Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
<u>AK-1</u>   <u>Alpine</u>	Final Flow <u>90</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
	Final Shut-in <u>180</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>

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Approved By [Signature]  
 Our Representative Dan Rangle

Extra Packer \_\_\_\_\_  
 Elect. Rec.  150  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 1250