

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 6929
 Name: Advantage Resources, Inc.
 Address: 1775 Sherman St. - Suite 1900
 City/State/Zip: Denver, CO 80203
 Purchaser: _____
 Operator Contact Person: David Pauly
 Phone: (316) 264-0490
 Contractor: Name: Duke Drilling Co., Inc.
 License: 5929
 Wellsite Geologist: Brad Rine
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW SB-KCL
 Dry Other (Core, WSW, Expl., Cathodic, etc)
 If Workover/Re-entry: Old Well Info as follows:
 Operator: _____
 Well Name: _____
 Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr/SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>08-29-01</u>	<u>09-06-01</u>	<u>10-11-01</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 097-21471-0000
 County: Kiowa County, Kansas
N/2 NW NE Sec. 7 Twp. 28 S. R. 17 East West
330 feet from S / (circle one) Line of Section
1980 feet from (circle one) W Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: McElwain "B" Well #: 1
 Field Name: Hardy
 Producing Formation: Miss. Chat (Osage)
 Elevation: Ground: 2185' Kelly Bushing: 2194'
 Total Depth: 4885' Plug Back Total Depth: 4843'
 Amount of Surface Pipe Set and Cemented at 509 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 509
 feet depth to surface w/ 200 sx cmt.
 Drilling Fluid Management Plan Alt 1 11/7/01 SB
 (Data must be collected from the Reserve Pit)
 Chloride content 28,000 ppm Fluid volume 1,800 bbls
 Dewatering method used Evaporation
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ 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 of 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: Louis C. Bortz
 Title: Vice President Date: 10/19/01

Subscribed and sworn to before me this 19th day of October

23 2001.
 Notary Public Christine K. Pettinger
 Date Commission Expires: 9/9/02

KCC Office Use ONLY

Letter of Confidentiality Attached

If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

RECEIVED
 OCT 25 2001
 KCC
 10-25-01

KCC WICHITA

Operator Name: **Advantage Resources, Inc.** Lease Name: **McElwain "B"** Well #: **1**
 Sec. **7** Twp. **28** S. R. **17** East West County: **Kiowa County, Kansas**

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken 1 attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Density/Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>4014</td> <td>-1820</td> </tr> <tr> <td>Lansing</td> <td>4190</td> <td>-1996</td> </tr> <tr> <td>B/ Kansas City</td> <td>4572</td> <td>-2378</td> </tr> <tr> <td>Miss. Chat</td> <td>4754</td> <td>-2560</td> </tr> <tr> <td>Kinderhook</td> <td>4836</td> <td>-2642</td> </tr> <tr> <td>T.D.</td> <td>4883</td> <td>-2689</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	4014	-1820	Lansing	4190	-1996	B/ Kansas City	4572	-2378	Miss. Chat	4754	-2560	Kinderhook	4836	-2642	T.D.	4883	-2689
Name	Top	Datum																				
Heebner	4014	-1820																				
Lansing	4190	-1996																				
B/ Kansas City	4572	-2378																				
Miss. Chat	4754	-2560																				
Kinderhook	4836	-2642																				
T.D.	4883	-2689																				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermedial, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	509'	ALW Common	200 100	3%cc 2%gel
Production	7-7/8"	4-1/2"	10.5#	4884'	ASC	210	5#/sk kolseal

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
2	4756 - 4768	1500 gal. 10% acid Frac'd w/ 36,500# sand	4756-68 " "

TUBING RECORD		Size 2-3/8	Set At 4744	Packer At n/a	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. Waiting on pipeline		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. -- --	Gas Mcf 472 *	Water Bbls. -0-	Gas-Oil Ratio	Gravity

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

(If vented, Sumit ACO-18.)

*First hour of multi-point test (See attached)

RECEIVED

OCT 25 2001

KCC WICHITA

Federal Tax I.D.# 48-0727860

ORIGINAL

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

SERVICE POINT:

Medicine h.D. G. KS

DATE <u>8-1-01</u>	SEC. <u>18</u>	TWP. <u>28S</u>	RANGE <u>17W</u>	CALLED OUT <u>10:00 P.M.</u>	ON LOCATION <u>12:00AM</u>	JOB START <u>8:10AM</u>	JOB FINISH <u>8:45AM</u>
LEASE <u>Bird Hawk</u>		WELL # <u>#3</u>		LOCATION <u>Greensburg 2E To Foot End</u>		COUNTY <u>Kiowa</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)		of State Hwy Dept Salt House 1/2 N 1/4 E S 6					

CONTRACTOR Duke Orlg #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 509

CASING SIZE 8 5/8 DEPTH 508.55

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 509

TOOL _____ DEPTH _____

PRES. MAX 300 MINIMUM 50

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 45:32

PERFS. _____

DISPLACEMENT Fresh H2O 29 1/2

OWNER Advantage Resources

CEMENT

AMOUNT ORDERED 150 ex 65:35:6+3%

CC 1/4 Flo-seal 200SX A+3%CC

2% gel

COMMON	<u>200</u>	@	<u>6.65</u>	<u>1330.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>10.00</u>	<u>40.00</u>
CHLORIDE	<u>12</u>	@	<u>30.00</u>	<u>360.00</u>
<u>AWW</u>	<u>150</u>	@	<u>6.30</u>	<u>945.00</u>
<u>Flo-seal</u>	<u>38#</u>	@	<u>1.40</u>	<u>53.20</u>
		@		
		@		
HANDLING	<u>374</u>	@	<u>1.10</u>	<u>411.40</u>
MILEAGE	<u>374 x 28</u>	@	<u>.04</u>	<u>418.88</u>

TOTAL 3558.48

EQUIPMENT

PUMP TRUCK CEMENTER David W.

302 HELPER Steve D.

BULK TRUCK

353 DRIVER Kevin B.

BULK TRUCK

_____ DRIVER _____

REMARKS:

Pipe on Bottom - Break Circ

Pump 150 ex 65:35:6+3%CC 1/4 Flo-seal

Pump 200SX A+3%CC 2% gel

Release Plug Displace Plug w/

29 1/2 DBL Fresh H2O Bump Plug

Shuttin Cement Did Circ

SERVICE

DEPTH OF JOB 508

PUMP TRUCK CHARGE 0-300' 520.00

EXTRA FOOTAGE 208' @ .50 104.00

MILEAGE 28 @ 3.00 84.00

PLUG RUBBER 8 5/8" @ 100.00 100.00

_____ @ _____ _____

_____ @ _____ _____

TOTAL 808.00

CHARGE TO: Advantage Resources,

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

1- Baffle Plate @ 45.00 45.00

_____ @ _____ _____

_____ @ _____ _____

_____ @ _____ _____

TOTAL 45.00

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 4411.48

DISCOUNT 441.15 IF PAID IN 30 DAYS

3970.33

John R. Sawaya

PRINTED NAME

SIGNATURE [Signature]

RECEIVED

ORIGINAL

OCT 25 2001

KCC WICHITA

Federal Tax I.D.# 48-0727860

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

SERVICE POINT
Med Lodge

DATE <i>8-10-01</i>	SEC. <i>18</i>	TWP. <i>28 S</i>	RANGE <i>17 W</i>	CALLED OUT <i>5:00 PM</i>	ON LOCATION <i>8:00 PM</i>	JOB START <i>7:45 AM</i>	JOB FINISH <i>3:25 AM</i>
LEASEE <i>Byrd Hardy</i>	WELL# <i>3</i>	LOCATION <i>Greensburg NE to</i>			COUNTY <i>Kiowa</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)			State Salt Dome 1 N 1/2 E 3/4				

CONTRACTOR <i>Duke #1</i>	OWNER <i>Advantage Resources</i>
TYPE OF JOB <i>Production</i>	
HOLE SIZE <i>7 7/8</i>	T.D. <i>4909</i>
CASING SIZE <i>4 1/2 x 10.5</i>	DEPTH <i>4908</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <i>latchdown Insert</i>	DEPTH <i>4898</i>
PRES. MAX <i>1500</i>	MINIMUM <i>200</i>
MEAS. LINE	SHOE JOINT <i>10</i>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <i>79 BBLs Fresh H₂O</i>	

EQUIPMENT	
PUMP TRUCK	CEMENTER <i>Justin Hart</i>
# <i>360-265</i>	HELPER <i>Mark Brungardt</i>
BULK TRUCK	
# <i>240-251</i>	DRIVER <i>Eric H.</i>
BULK TRUCK	
#	DRIVER

CEMENT			
AMOUNT ORDERED	<i>200</i>	<i>5x ASC + 5[#]</i>	
<i>Kal-seal</i>	<i>1 each</i>	<i>500</i>	<i>Bals ASF</i>
<i>25</i>	<i>5x</i>	<i>60-70 lb</i>	<i>Rat + Mouse Holes</i>
COMMON	<i>15</i>	@ <i>6.65</i>	<i>99.75</i>
POZMIX	<i>10</i>	@ <i>3.55</i>	<i>35.50</i>
GEL	<i>1</i>	@ <i>10.00</i>	<i>10.00</i>
CHLORIDE		@	
<i>ASC</i>	<i>200</i>	@ <i>8.50</i>	<i>1700.00</i>
<i>Kal-seal</i>	<i>1000 #</i>	@ <i>.50</i>	<i>500.00</i>
<i>Allied Super Flush</i>	<i>500 Gal</i>	@ <i>1.00</i>	<i>500.00</i>
HANDLING	<i>282</i>	@ <i>1.10</i>	<i>310.20</i>
MILEAGE	<i>282 x 28</i>	@ <i>1.04</i>	<i>315.84</i>

TOTAL *3471.29*

REMARKS:

*Pipe on Bottom Drop Ball
Break Circ Pump 500 Bals ASF
Pump 5 BBLs Fresh H₂O Plug Rat +
Mouse Holes 25 5x
Mix 200 5x ASC @ 4.5[#] = 56 BBLs
Release Plug Disp 79 BBLs Fresh
H₂O Pump Plug @ 700 # to 1500 #
Release Press Float Held*

SERVICE

DEPTH OF JOB	<i>4909</i>		
PUMP TRUCK CHARGE			<i>1264.00</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>28</i>	@ <i>3.00</i>	<i>84.00</i>
PLUG <i>1/2 latchdown</i>		@ <i>300.00</i>	<i>300.00</i>
<i>Rotating Head</i>		@ <i>75.00</i>	<i>75.00</i>
		@	

TOTAL *1723.00*

CHARGE TO: *Advantage Resources*
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

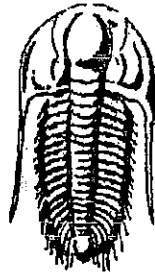
<i>1/2</i>			
<i>1- Float shoe</i>		@	<i>200.00</i>
<i>7- centralizers</i>		@ <i>45.00</i>	<i>315.00</i>
		@	
		@	
		@	

TOTAL *515.00*

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	<i>5709.29</i>		
DISCOUNT	<i>510.93</i>	IF PAID IN 30 DAYS	
	<i>45</i>		<i>5138.36</i>
SIGNATURE <i>David Finn</i>		PRINTED NAME	

ORIGINAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Advantage Res. Inc.**

1775 Sherman St. #1900
Denver CO 80203

ATTN: Brad Rine

18-28S-17W Kiowa KS

Byrd-Hardy #3

Start Date: 2001.08.09 @ 13:45:05

End Date: 2001.08.09 @ 22:48:05

Job Ticket #: 14816 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

RECEIVED

OCT 25 2001

KCC WICHITA

Printed: 2001.08.13 @ 10:34:44 Page 1

Advantage Res. Inc.

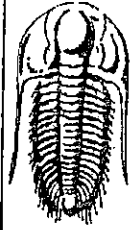
Byrd-Hardy #3

18-28S-17W Kiowa KS

DST # 1

Mississippi

2001.08.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Advantage Res. Inc.

Byrd-Hardy #3

1775 Sherman St. #1900
Denver CO 80203

18-28S-17W Kiowa KS

ATTN: Brad Rine

Job Ticket: 14816

DST#: 1

Test Start: 2001.08.09 @ 13:45:05

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:57:35
Time Test Ended: 22:48:05

Test Type: Conventional Bottom Hole
Tester: Lanny Saloga
Unit No: 14

Interval: **4743.00 ft (KB) To 4828.00 ft (KB) (TVD)**
Total Depth: **4828.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2204.00 ft (KB)**
2193.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 3289

Inside

Press@RunDepth: **102.54 psig @ 4747.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2001.08.09** End Date: **2001.08.09**

Last Calib.: **2001.01.13**

Start Time: **13:45:10** End Time: **22:48:05**

Time On Btm: **2001.08.09 @ 15:51:05**

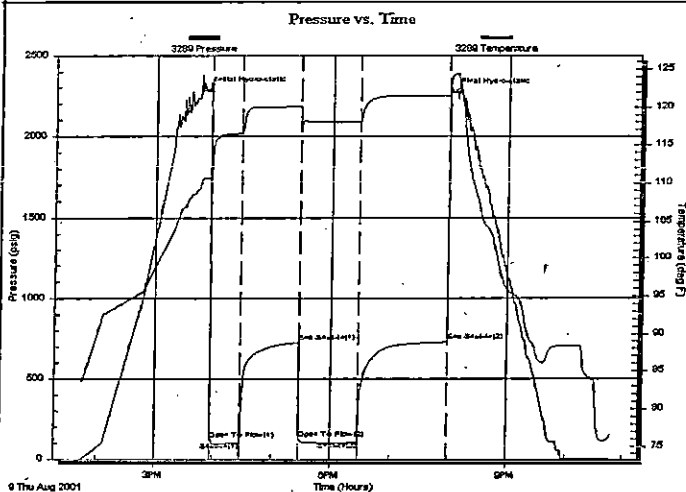
Time Off Btm: **2001.08.09 @ 20:02:20**

TEST COMMENT: Strong OBB in 50 sec. GTS in 7 min. See flow chart. I.F.P.

No blow-back. I.S.I.P.

See flow chart. F.F.P. "Gas burned."

No blow-back. F.S.I.P.



PRESSURE SUMMARY

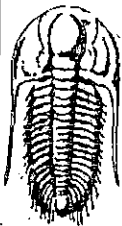
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.47	110.66	Initial Hydro-static
7	116.42	110.70	Open To Flow (1)
37	100.44	116.58	Shut-in(1)
97	724.57	120.09	End Shut-in(1)
98	122.67	117.52	Open To Flow (2)
157	102.54	118.06	Shut-in(2)
248	726.91	121.50	End Shut-in(2)
252	2269.53	124.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Sli Gas cut Mud 6%G 94%M	0.98
4548.00	GIP	63.73

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.00	137.61
Last Gas Rate	0.50	14.00	191.58
Max. Gas Rate	0.50	18.00	218.56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Advantage Res. Inc.

Byrd-Hardy #3

1775 Sherman St. #1900
Denver CO 80203

18-28S-17W Kiowa KS

Job Ticket: 14816

DST#: 1

ATTN: Brad Rine

Test Start: 2001.08.09 @ 13:45:05

Tool Information

Drill Pipe:	Length: 4541.00 ft	Diameter: 3.80 inches	Volume: 63.70 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 3000.00 lb
			Total Volume: 64.72 bbl	Tool Chased: ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4743.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4717.00	
S.I. Tool	5.00			4722.00	
HMV	5.00			4727.00	
Jars	5.00			4732.00	
Safety Joint	2.00			4734.00	
Packer	4.00			4738.00	27.00 Bottom Of Top Packer
Packer	5.00			4743.00	
Stubb	1.00			4744.00	
Perforations	3.00			4747.00	
Recorder	0.00	3289	Inside	4747.00	
Perforations	15.00			4762.00	
C.O. Sub	1.00			4763.00	
Blank Spacing	62.00			4825.00	
Recorder	0.00	10242	Inside	4825.00	
C.O. Sub	1.00			4826.00	
Bullnose	2.00			4828.00	85.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Advantage Res. Inc.

Byrd-Hardy #3

1775 Sherman St. #1900
Denver CO 80203

18-28S-17W Kiowa KS

Job Ticket: 14816

DST#: 1

ATTN: Brad Rine

Test Start: 2001.08.09 @ 13:45:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
200.00	Sli Gas cut Mud 6%G 94%M	0.984
4548.00	GIP	63.733

Total Length: 4748.00 ft

Total Volume: 64.717 bbl

Num Fluid Samples: 1

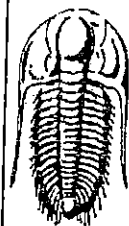
Num Gas Bombs: 1

Serial #: 1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Advantage Res. Inc.

Byrd-Hardy #3

1775 Sherman St. #1900
Denver CO 80203

18-28S-17W Kiowa KS

Job Ticket: 14816 DST#: 1

ATTN: Brad Rine

Test Start: 2001.08.09 @ 13:45:05

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	6.00	137.61
1	20	0.50	11.00	171.34
1	30	0.50	12.00	178.09
2	10	0.50	18.00	218.56
2	20	0.50	18.00	218.56
2	30	0.50	16.00	205.07
2	40	0.50	14.00	191.58
2	50	0.50	14.00	191.58
2	60	0.50	14.00	191.58

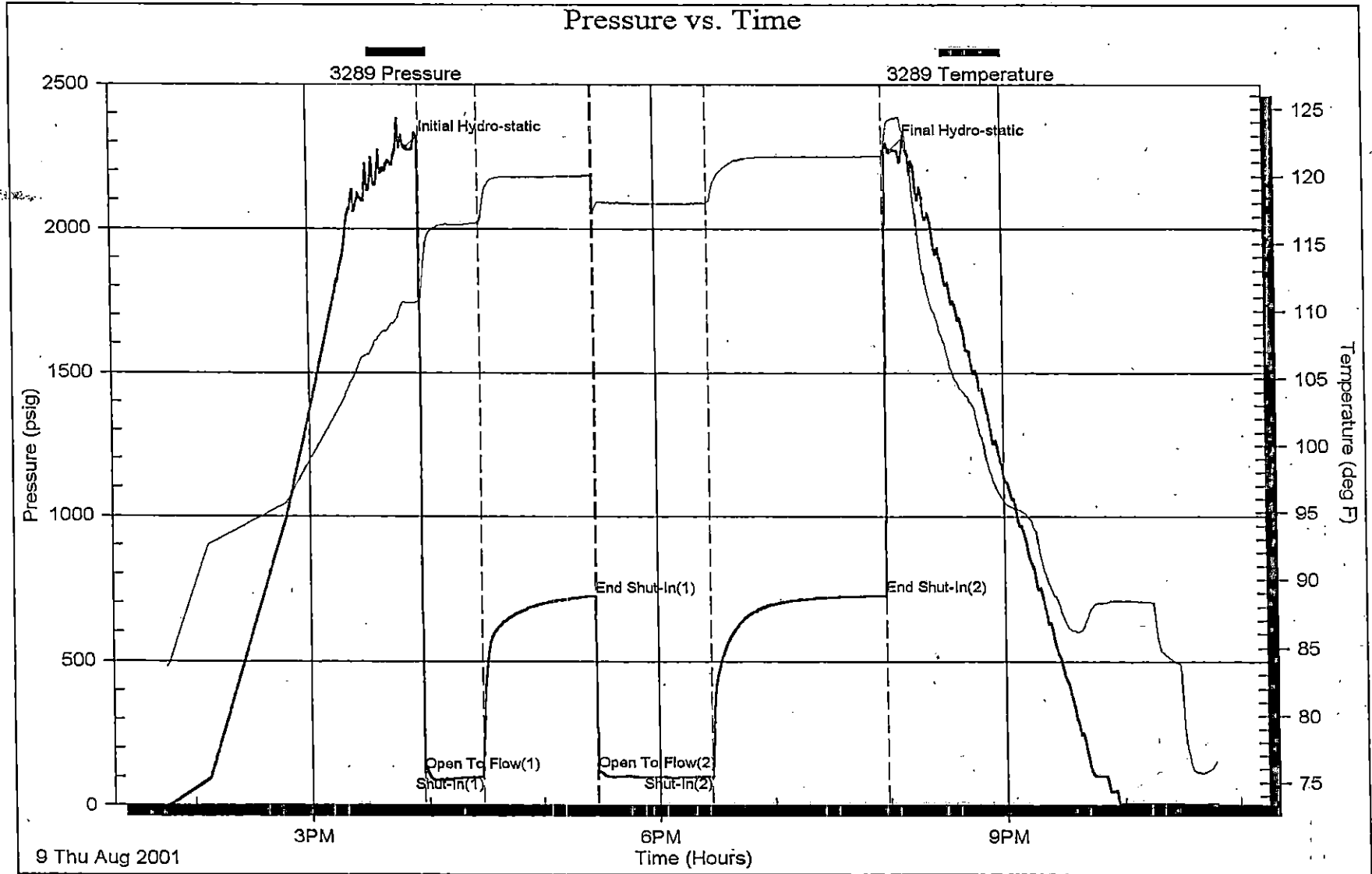
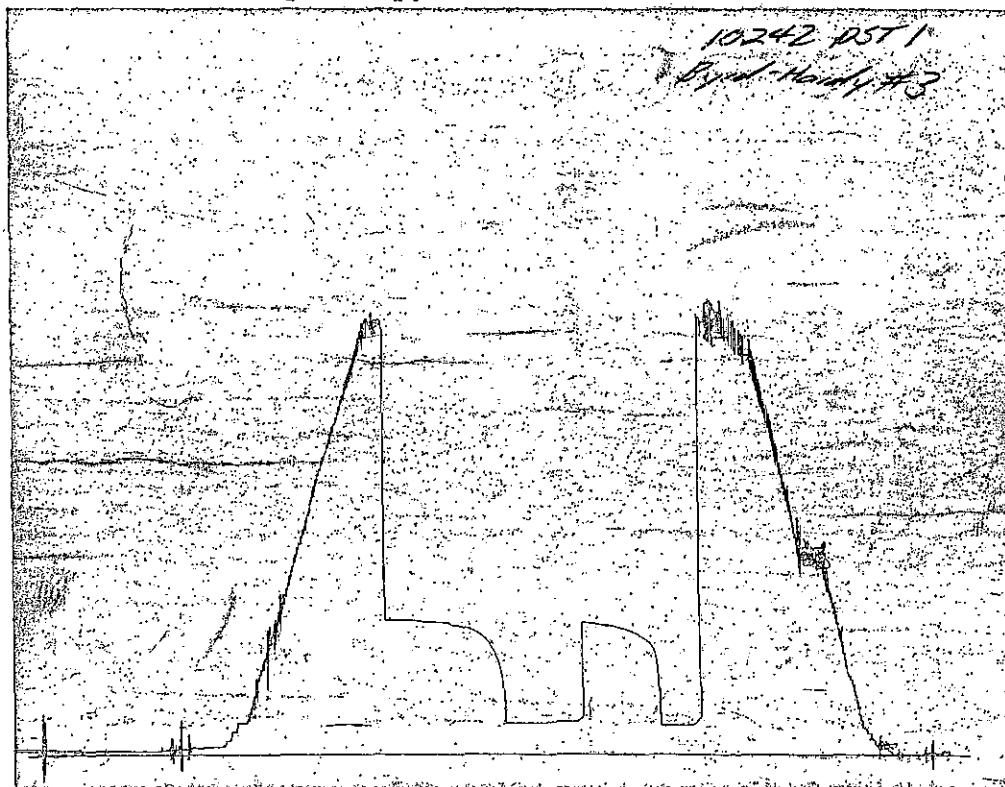
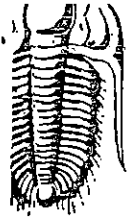


CHART PAGE

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





LIQUID TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 825-4778

GAS VOLUME REPORT

Adventure Res. OPERATOR Byrd-Hardy #3 WELL NAME AND NO. 1 DST NO.

TS 7 Min. into I.F.P.

I.F.P.

F.F.P.

In.	Ins. of Water (PSIG)	Orifice Size	CF/D	Min.	Ins. of Water (PSIG)	Orifice Size	CF/D
10	6	1/2"	116,700	10	18	1/2"	184,600
20	11	"	145,000	20	18	"	184,600
30	12	"	150,700	30	16	"	173,300
				40	14	"	162,000
				50	14	"	162,000
				60	14	"	162,000

Remarks: Gas burned
1 sample to Coraway

Our Representative Tammie L. Johnson

TOTAL PRICE \$ 1295.00