

CONFIDENTIAL

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 32058
Name: DRW Operating Company
Address: P. O. Box 4462
Englewood, CO 80155-4462

Purchaser: _____
Operator Contact Person: Douglas E. Wood
Phone (303) 629-1523
Contractor: Name: Murfin Drilling
License: #30606
Wellsite Geologist: Christopher Gough

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:
Operator: _____ **RELEASED**
Well Name: _____
Comp. Date _____ Old Total Depth SEP 16 1998
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back FROM CONFIDENTIAL
 Conningled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
5.24.97 6.8.97
Spud Date Date Reached TD Completion Date

API NO. 15- 071-2067 10000 **ORIGINAL**
County Greeley
S/2 SW - NW - Sec. 35 Twp. 17 Rge. 43 ^E _W
2310' Feet from S/N (circle one) Line of Section
530' Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Sell Well # 1
Field Name Wildcat
Producing Formation N/A
Elevation: Ground 3928' KB 3936'
Total Depth 5380' PBDT _____
Amount of Surface Pipe Set and Cemented at 362 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set N/A Feet
If Alternate II completion, cement circulated from N/A
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT II DIA
(Date must be collected from the Reserve Pit) 7-29-97
Chloride content 7000 ppm Fluid volume 10,000 bbls
Dewatering method used None - evaporate
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____
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 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 Douglas E. Wood
Title President Date 6/24/97
Subscribed and sworn to before me this 24 day of June 1997.
Notary Public Yvonne Patterson
Date Commission Expires 12/22/98

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

SIDE TWO

Operator Name DRW Operating Company

Lease Name Sell Well # 1

Sec. 35 Twp. 17S Rge. 43
 East
 West

County Greeley

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Top Anhydrite	2680'	+1258'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Top Lansing	4208'	- 270'
List All E.Logs Run:		Top Marmaton	4558'	- 728'
- BHC Sonic		Top Cherokee Shale	4790'	- 850'
- SSD/CNA		Top Atoka	5040'	-1102'
- DIL		Top Morrow Shale	5124'	-1184'
		Top Morrow Sand	5204'	- 20'
		Top Morrow Line	5262'	-1324'
		Top Miss	5302'	-1364'

CASING RECORD <input 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"	24#	362'	65/35	300	6% GEL 3% cc 1/4# Floccul

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, SMD or Inj.		Producing Method <input 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	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 Other (Specify) _____

Production Interval: _____

ALLIED CEMENTING CO., INC.

CONFIDENTIAL ORIGINAL

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

SERVICE POINT: Newton, KS

DATE <u>9-8-97</u>	SEC. <u>35</u>	TWP. <u>17</u>	RANGE <u>43</u>	CALLED OUT <u>3:15pm</u>	ON LOCATION <u>6:50pm</u>	JOB START <u>7:15</u>	JOB FINISH <u>11:00pm</u>
LEASE <u>Sedg</u>	WELL # <u>1-35</u>	LOCATION <u>K-990</u>	<u>KS + CO. 4200</u>	COUNTY <u>Shawnee</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR W. J. ... #14

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 5380

CASING SIZE 5 7/8 DEPTH 362

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED
255 1/2" 67' 10" 2" 1/2" 10' 10" 10'

COMMON	<u>1.50</u>	@	<u>7.20</u>	<u>108.00</u>
POZMIX	<u>1.05</u>	@	<u>3.15</u>	<u>240.00</u>
GEL	<u>1.00</u>	@	<u>1.00</u>	<u>10.00</u>
CHLORIDE		@		
<u>1/2" 2" 10' 10"</u>		@	<u>1.15</u>	<u>12.55</u>
		@		
		@		
		@		
		@		
HANDLING	<u>1.55</u>	@	<u>1.05</u>	<u>16.275</u>
RELEASED	<u>84</u>	<u>.04</u>		<u>3.36</u>

EQUIPMENT

PUMP TRUCK CEMENTER J. ...

224 HELPER B. Norton

BULK TRUCK

116 DRIVER B. ...

BULK TRUCK

_____ DRIVER _____

SEP 16 1998 TOTAL 2254.55

REMARKS: FROM CONFIDENTIAL SERVICE

<u>50 1/2" e 2675</u>
<u>80 1/2" e 1700</u>
<u>50 1/2" e 800</u>
<u>40 1/2" e 370</u>
<u>10 1/2" e 40</u>
<u>15 1/2" RH</u>
<u>10 1/2" MH</u>

DEPTH OF JOB	<u>2675</u>		
PUMP TRUCK CHARGE			<u>1230.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>84</u>	@	<u>1.85</u> <u>154.80</u>
PLUG <u>Top Wood</u>		@	
		@	
		@	

TOTAL 1369.40

CHARGE TO: DRU! Open Co

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

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 [Signature]

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ALLIED CEMENTING CO., INC.

3971

Federal Tax I.D.# 48-0727860

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

ORIGINAL

SERVICE POINT:

OKley

DATE <u>5/29/97</u>	SEC <u>35</u>	TWP. <u>17</u>	RANGE <u>43</u>	CALLED OUT	ON LOCATION <u>7:30 AM</u>	JOB START <u>7:45 AM</u>	JOB FINISH <u>9:20 AM</u>
LEASE <u>5-11</u>	WELL # <u>1</u>	LOCATION <u>5th Line on 96 4th N/S</u>		CONFIDENTIAL		COUNTY <u>Greene</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN #14 OWNER DRW Operating Co.
 TYPE OF JOB Cmt 5/8 Surface CSG **RELEASED**

HOLE SIZE <u>12 1/2</u>	T.D. <u>367</u>	CEMENT
CASING SIZE <u>9 5/8</u>	DEPTH <u>367</u> SEP 16 1998	AMOUNT ORDERED
TUBING SIZE	DEPTH	<u>200 SKS 65/35 + 162 gal 3 1/2 cc 4" Flo Seal</u>
DRILL PIPE	DEPTH FROM CONFIDENTIAL	<u>1 1/2 cc Class # + 3 1/2 cc</u>
TOOL	DEPTH	
PRES. MAX <u>500</u>	MINIMUM <u>50</u>	COMMON <u>100 SKS</u> @ <u>7.20</u> = <u>720.00</u>
MEAS. LINE	SHOE JOINT <u>44</u>	POZMIX @
CEMENT LEFT IN CSG.		GEL @
PERFS.		CHLORIDE <u>10 SKS</u> @ <u>28.00</u> = <u>280.00</u>
DISPLACEMENT <u>20.25</u>		<u>Lite 200 SKS</u> @ <u>6.65</u> = <u>1,330.00</u>
		<u>Flo-Seal 50</u> @ <u>1.15</u> = <u>57.50</u>

EQUIPMENT

PUMP TRUCK # <u>191</u>	CEMENTER <u>NO X</u>
	HELPER <u>442 YNT</u>
BULK TRUCK # <u>347</u>	DRIVER <u>TERRY</u>
BULK TRUCK #	DRIVER

HANDLING <u>300 SKS</u>	@ <u>1.02</u>	= <u>315.00</u>
MILEAGE <u>44 per SK/mile</u>		= <u>1,224.00</u>
		TOTAL 3,926.00

REMARKS:

Cmt 5/8 Surface CSG with 200 SKS 65/35
1 1/2 gal 3 1/2 cc 4" Flo-Seal + 162 SKS Class #
+ 3 1/2 cc Drop Displace 20.25 GAL
Lead Plug Close in Head Cement
Did Circulate

SERVICE

DEPTH OF JOB <u>367</u>	
PUMP TRUCK CHARGE	<u>445.00</u>
EXTRA FOOTAGE <u>63'</u>	@ <u>4.14</u> = <u>25.98</u>
MILEAGE <u>102 - Mi.</u>	@ <u>2.85</u> = <u>290.70</u>
PLUG <u>5/8 Woodc</u>	@ = <u>45.00</u>
TOTAL 806.68	

CHARGE TO: MURFIN DRG
 STREET 250 N Water St 300
 CITY Winchita STATE Mo ZIP 67202

FLOAT EQUIPMENT

<u>1-8 1/2 Baffle</u>	@	= <u>135.00</u>
<u>1-8 1/2 Centralizer</u>	@	= <u>61.00</u>
<u>1-Thread Lock</u>	@	= <u>30.00</u>
TOTAL 226.00		

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.

SIGNATURE Jillane P. [Signature]

PRINTED NAME

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

CONFIDENTIAL

ORIGINAL

15-071-20671

WELL NAME: Sell #1
COMPANY: DRW Operating Co.
LOCATION: 35-17S-43W
Greeley County Kansas
DATE: 06/09/97

RELEASED

RCC

SEP 16 1998

JUN 24

CONFIDENTIAL

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : DRW Operating Co
 WELL NAME: Sell #1
 LOCATION : 35-17S-43W Greeley Co KS
 INTERVAL : 5100.00 To 5235.00 ft

DATE 6-6-97
 KB 3938.00 ft TICKET NO: 9941 DST #1
 GR 3928.00 ft FORMATION: morrow sand
 TD 5235.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057		2342			PF Fr. 0814 to 0844 hr
SI 60 Range(Psi)	4500.0	0.0	4995.0	0.0	0.0	IS Fr. 0844 to 0944 hr
SF 60 Clock(hrs)	12		alpin			SF Fr. 0944 to 1044 hr
FS 120 Depth(ft)	5230.0	0.0	5137.0	0.0	0.0	FS Fr. 1044 to 1244 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2471.0	0.0	0.0	T STARTED 0530 hr
B. First Flow	0.0	0.0	428.0	0.0	0.0	T ON BOTM 0810 hr
B1. Final Flow	0.0	0.0	804.0	0.0	0.0	T OPEN 0814 hr
C. In Shut-in	0.0	0.0	961.0	0.0	0.0	T PULLED 1244 hr
D. Init Flow	0.0	0.0	830.0	0.0	0.0	T OUT 1154 hr
E. Final Flow	0.0	0.0	962.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	995.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2467.0	0.0	0.0	
Inside/Outside	i		o			

RECOVERY

Tot Fluid 2050.00 ft of 424.00 ft in DC and 1626.00 ft in DP
 465.00 ft of Slightly water cut drilling mud
 0.00 ft of 30%water 70%mud
 186.00 ft of Water cut mud 60%water 40%mud
 93.00 ft of Muddy water 80% water 20% mud
 1306.00 ft of Sulfur water 100%
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 45000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
 Tool Wt. 5000.00 lbs
 Wt Set On Packer 35000.00 lbs
 Wt Pulled Loose 155000.00 lbs
 Initial Str Wt 105000.00 lbs
 Unseated Str Wt 116000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 0.00 in
 D.C. Length 516.00 ft
 D.P. Length 4663.00 ft

BLOW DESCRIPTION

I.O.- B.O.B. in 1 min

I.S.I.- bleed off blow for 3 min return
 blow in 3 min. built to

F.F.-
 25 min. died back to 2" in.

F.S.I.-

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type chem
 Weight 9.10 lb/cf
 Vis. 51.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 149.00 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 Shane McBride
 Co. Rep. Chris
 Contr. Murfin
 Rig # 14
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Sell #1
 LOCATION : 35-17-43
 TICKET No. 9941 D.S.T. No. 1 DATE 6-6-97
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 43
 TOTAL TOOL 73
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands1 Single Total 92
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 165
 D.C. ABOVE TOOLS.Stands4 Single 2 Total 424
 D.P. ABOVE TOOLS.Stands49 Single 2 Total 4663
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5252
 TOTAL DEPTH 5235
 TOTAL DRILL PIPE ABOVE K.B. 17
 REMARKS:
 GAS;
 OIL;
 WATER; 4000
 MUD;
 Pressure; 60 psi.
 Total; 4,000 ml
 Chlorides in sampler 45,000 RW .14 @ 77°F

P.O. SUB	
C.O. SUB 1'	5070
S.I. TOOL 5'	5076
sampler 3'	5079
HMV 5'	5084
JARS 5'	5089
SAFETY JOINT 2'	5091
PACKER top	5095
PACKER bottom	5100
DEPTH 5100	
STUBB 1'	5101
ANCHOR 35' perf	5136
1' c.o.	5137
alpine recorder	5137
T.C.	
DEPTH	
92' collars	5229
1' c.o.	5230
AK -1 recorder	5230
BULLNOSE 5' bullplug	5235
T.D.	5235

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.

DATE: 06/06/97

TIME: 04:31:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	164.00	2471.7	0.0	122.91		
***** Start Flow 1	0.00	428.2	0.0	123.30		
	1.00	456.0	27.8	123.49		
	2.00	467.9	39.7	123.91		
	3.00	473.3	45.2	124.36		
	4.00	490.2	62.0	124.77		
	5.00	507.6	79.4	125.19		
	6.00	524.5	96.3	125.68		
	7.00	542.1	113.9	126.32		
	8.00	560.0	131.8	127.11		
	9.00	577.1	148.9	128.05		
	10.00	594.1	165.9	129.12		
	11.00	610.5	182.3	130.28		
	12.00	625.9	197.7	131.50		
	13.00	641.0	212.8	132.74		
	14.00	655.0	226.8	133.97		
	15.00	668.6	240.5	135.16		
	16.00	681.1	253.0	136.34		
	17.00	693.1	264.9	137.47		
	18.00	704.5	276.3	138.56		
	19.00	715.4	287.2	139.59		
	20.00	725.8	297.6	140.54		
	21.00	735.7	307.5	141.46		
	22.00	744.9	316.7	142.30		
	23.00	754.0	325.8	143.10		
	24.00	762.6	334.4	143.81		
	25.00	770.5	342.3	144.47		
	26.00	778.4	350.2	145.09		
	27.00	785.7	357.5	145.62		
	28.00	792.4	364.2	146.13		
	29.00	798.9	370.7	146.57		
***** End Flow 1	30.00	804.9	376.7	146.99		
***** Start Shutin 1	0.00	804.9	0.0	146.99	0.0000	0.648
	1.00	856.4	51.5	147.35	31.0000	0.733
	2.00	864.7	59.8	147.70	16.0000	0.748
	3.00	870.9	66.1	148.02	11.0000	0.758
	4.00	876.2	71.3	148.31	8.5000	0.768
	5.00	880.7	75.9	148.57	7.0000	0.776
	6.00	885.0	80.2	148.81	6.0000	0.783
	7.00	888.8	83.9	149.01	5.2857	0.790
	8.00	892.2	87.4	149.16	4.7500	0.796
	9.00	895.5	90.6	149.30	4.3333	0.802
	10.00	898.4	93.6	149.40	4.0000	0.807
	11.00	901.2	96.3	149.50	3.7273	0.812
	12.00	903.9	99.0	149.57	3.5000	0.817
	13.00	906.2	101.4	149.62	3.3077	0.821
	14.00	908.5	103.7	149.64	3.1429	0.825
	15.00	910.9	106.0	149.66	3.0000	0.830
	16.00	912.9	108.0	149.66	2.8750	0.833
	17.00	915.1	110.2	149.66	2.7647	0.837
	18.00	917.0	112.1	149.65	2.6667	0.841

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.

DATE: 06/06/97 TIME: 04:31:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
19.00	918.7	113.9	149.63	2.5789	0.844	
20.00	920.5	115.7	149.59	2.5000	0.847	
21.00	922.3	117.4	149.55	2.4286	0.851	
22.00	924.0	119.1	149.50	2.3636	0.854	
23.00	925.5	120.6	149.45	2.3043	0.856	
24.00	927.1	122.2	149.39	2.2500	0.859	
25.00	928.6	123.7	149.33	2.2000	0.862	
26.00	930.0	125.1	149.26	2.1538	0.865	
27.00	931.3	126.5	149.20	2.1111	0.867	
28.00	932.7	127.8	149.12	2.0714	0.870	
29.00	934.1	129.2	149.05	2.0345	0.873	
30.00	935.2	130.3	148.97	2.0000	0.875	
31.00	936.5	131.6	148.90	1.9677	0.877	
32.00	937.6	132.8	148.83	1.9375	0.879	
33.00	938.8	133.9	148.75	1.9091	0.881	
34.00	940.0	135.1	148.68	1.8824	0.884	
35.00	941.1	136.2	148.60	1.8571	0.886	
36.00	942.2	137.3	148.53	1.8333	0.888	
37.00	943.3	138.4	148.46	1.8108	0.890	
38.00	944.3	139.4	148.38	1.7895	0.892	
39.00	945.2	140.3	148.31	1.7692	0.893	
40.00	946.2	141.3	148.23	1.7500	0.895	
41.00	947.1	142.3	148.16	1.7317	0.897	
42.00	948.1	143.3	148.09	1.7143	0.899	
43.00	949.0	144.2	148.01	1.6977	0.901	
44.00	949.9	145.0	147.95	1.6818	0.902	
45.00	950.9	146.0	147.87	1.6667	0.904	
46.00	951.7	146.9	147.81	1.6522	0.906	
47.00	952.6	147.7	147.73	1.6383	0.907	
48.00	953.3	148.5	147.68	1.6250	0.909	
49.00	954.2	149.3	147.60	1.6122	0.910	
50.00	954.9	150.1	147.54	1.6000	0.912	
51.00	955.8	150.9	147.48	1.5882	0.913	
52.00	956.5	151.7	147.42	1.5769	0.915	
53.00	957.3	152.4	147.36	1.5660	0.916	
54.00	957.9	153.1	147.29	1.5556	0.918	
55.00	958.8	153.9	147.24	1.5455	0.919	
56.00	959.5	154.7	147.18	1.5357	0.921	
57.00	960.2	155.4	147.11	1.5263	0.922	
58.00	960.9	156.0	147.07	1.5172	0.923	
***** End Shut-in 1	59.00	961.6	156.8	147.00	1.5085	0.925
***** Start Flow 2	0.00	830.3	0.0	146.94		
	1.00	835.2	4.9	146.89		
	2.00	843.9	13.6	146.84		
	3.00	852.4	22.1	146.77		
	4.00	859.7	29.5	146.72		
	5.00	866.7	36.4	146.67		
	6.00	873.3	43.0	146.62		
	7.00	878.8	48.5	146.60		
	8.00	884.2	53.9	146.59		
	9.00	889.0	58.7	146.61		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.

DATE: 06/06/97

TIME: 04:31:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.00	893.2	62.9	146.66		
11.00	897.3	67.0	146.72		
12.00	900.9	70.6	146.80		
13.00	904.1	73.9	146.89		
14.00	907.2	76.9	147.01		
15.00	910.2	79.9	147.11		
16.00	912.9	82.6	147.23		
17.00	915.4	85.1	147.35		
18.00	917.7	87.5	147.47		
19.00	919.9	89.6	147.58		
20.00	921.9	91.6	147.69		
21.00	923.9	93.6	147.79		
22.00	925.8	95.5	147.88		
23.00	927.4	97.1	147.97		
24.00	929.2	98.9	148.03		
25.00	930.8	100.5	147.98		
26.00	932.3	102.1	147.80		
27.00	933.8	103.5	147.57		
28.00	935.2	104.9	147.34		
29.00	936.5	106.2	147.14		
30.00	937.7	107.4	147.03		
31.00	939.1	108.9	146.98		
32.00	940.2	109.9	146.99		
33.00	941.3	111.0	147.02		
34.00	942.3	112.0	147.09		
35.00	943.3	113.1	147.17		
36.00	944.4	114.1	147.25		
37.00	945.4	115.1	147.35		
38.00	946.4	116.1	147.43		
39.00	947.3	117.0	147.52		
40.00	948.3	118.0	147.59		
41.00	949.1	118.8	147.66		
42.00	950.0	119.7	147.73		
43.00	950.8	120.5	147.79		
44.00	951.6	121.4	147.84		
45.00	952.6	122.3	147.88		
46.00	953.6	123.3	147.91		
47.00	954.3	124.0	147.94		
48.00	955.0	124.7	147.97		
49.00	955.8	125.6	147.99		
50.00	956.5	126.2	148.00		
51.00	957.1	126.8	148.01		
52.00	957.9	127.6	148.01		
53.00	958.4	128.2	148.02		
54.00	959.2	128.9	148.02		
55.00	959.8	129.5	148.02		
56.00	960.4	130.1	148.01		
57.00	961.0	130.8	148.00		
58.00	961.6	131.3	148.00		
59.00	962.1	131.9	147.98		
60.00	962.7	132.4	147.96		

***** End Flow 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.

DATE: 06/06/97

TIME: 04:31:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Start Shutin 2	0.00	962.7	0.0	147.96	0.0000	0.927
	1.00	966.3	3.6	147.95	91.0000	0.934
	2.00	967.8	5.0	147.94	46.0000	0.937
	3.00	968.7	6.0	147.93	31.0000	0.938
	4.00	969.5	6.8	147.91	23.5000	0.940
	5.00	970.3	7.6	147.89	19.0000	0.941
	6.00	971.0	8.3	147.87	16.0000	0.943
	7.00	971.6	8.9	147.85	13.8571	0.944
	8.00	972.3	9.6	147.84	12.2500	0.945
	9.00	973.0	10.2	147.81	11.0000	0.947
	10.00	973.6	10.8	147.79	10.0000	0.948
	11.00	974.2	11.5	147.77	9.1818	0.949
	12.00	974.6	11.9	147.74	8.5000	0.950
	13.00	975.2	12.5	147.72	7.9231	0.951
	14.00	975.7	13.0	147.70	7.4286	0.952
	15.00	976.2	13.4	147.68	7.0000	0.953
	16.00	976.6	13.8	147.66	6.6250	0.954
	17.00	977.1	14.4	147.66	6.2941	0.955
	18.00	977.6	14.9	147.66	6.0000	0.956
	19.00	978.0	15.3	147.54	5.7368	0.956
	20.00	978.5	15.8	147.39	5.5000	0.957
	21.00	978.9	16.2	147.46	5.2857	0.958
	22.00	979.3	16.6	147.45	5.0909	0.959
	23.00	979.7	17.0	147.43	4.9130	0.960
	24.00	980.1	17.4	147.41	4.7500	0.961
	25.00	980.5	17.8	147.38	4.6000	0.961
	26.00	980.9	18.1	147.35	4.4615	0.962
	27.00	981.2	18.5	147.32	4.3333	0.963
	28.00	981.6	18.9	147.29	4.2143	0.964
	29.00	981.9	19.1	147.26	4.1034	0.964
	30.00	982.2	19.5	147.22	4.0000	0.965
	31.00	982.6	19.9	147.20	3.9032	0.966
	32.00	982.9	20.1	147.17	3.8125	0.966
	33.00	983.2	20.5	147.13	3.7273	0.967
	34.00	983.5	20.7	147.11	3.6471	0.967
	35.00	983.7	21.0	147.07	3.5714	0.968
	36.00	984.0	21.2	147.04	3.5000	0.968
	37.00	984.2	21.5	147.01	3.4324	0.969
	38.00	984.5	21.8	146.99	3.3684	0.969
	39.00	984.8	22.1	146.96	3.3077	0.970
	40.00	985.1	22.3	146.93	3.2500	0.970
	41.00	985.3	22.6	146.90	3.1951	0.971
	42.00	985.6	22.8	146.87	3.1429	0.971
	43.00	985.8	23.1	146.85	3.0930	0.972
	44.00	986.1	23.3	146.82	3.0455	0.972
	45.00	986.3	23.6	146.79	3.0000	0.973
	46.00	986.5	23.8	146.76	2.9565	0.973
	47.00	986.7	24.0	146.74	2.9149	0.974
	48.00	986.9	24.2	146.71	2.8750	0.974
	49.00	987.2	24.4	146.68	2.8367	0.974
	50.00	987.3	24.6	146.66	2.8000	0.975

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.

DATE: 06/06/97

TIME: 04:31:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
51.00	987.6	24.8	146.62	2.7647	0.975
52.00	987.8	25.1	146.60	2.7308	0.976
53.00	987.9	25.2	146.58	2.6981	0.976
54.00	988.2	25.4	146.55	2.6667	0.976
55.00	988.3	25.6	146.53	2.6364	0.977
56.00	988.5	25.8	146.50	2.6071	0.977
57.00	988.7	25.9	146.47	2.5789	0.977
58.00	988.8	26.1	146.45	2.5517	0.978
59.00	989.0	26.3	146.43	2.5254	0.978
60.00	989.2	26.4	146.40	2.5000	0.978
61.00	989.3	26.6	146.38	2.4754	0.979
62.00	989.6	26.9	146.35	2.4516	0.979
63.00	989.7	26.9	146.33	2.4286	0.979
64.00	989.8	27.1	146.31	2.4062	0.980
65.00	990.0	27.3	146.27	2.3846	0.980
66.00	990.2	27.4	146.26	2.3636	0.980
67.00	990.3	27.6	146.24	2.3433	0.981
68.00	990.5	27.8	146.22	2.3235	0.981
69.00	990.6	27.9	146.20	2.3043	0.981
70.00	990.8	28.1	146.17	2.2857	0.982
71.00	990.9	28.2	146.15	2.2676	0.982
72.00	991.1	28.4	146.13	2.2500	0.982
73.00	991.2	28.5	146.12	2.2329	0.982
74.00	991.3	28.6	146.09	2.2162	0.983
75.00	991.4	28.7	146.07	2.2000	0.983
76.00	991.5	28.8	146.05	2.1842	0.983
77.00	991.7	29.0	146.03	2.1688	0.983
78.00	991.9	29.1	146.01	2.1538	0.984
79.00	992.0	29.3	145.99	2.1392	0.984
80.00	992.1	29.4	145.98	2.1250	0.984
81.00	992.2	29.5	145.96	2.1111	0.984
82.00	992.3	29.5	145.94	2.0976	0.985
83.00	992.4	29.7	145.92	2.0843	0.985
84.00	992.5	29.8	145.90	2.0714	0.985
85.00	992.6	29.9	145.88	2.0588	0.985
86.00	992.7	30.0	145.87	2.0465	0.985
87.00	992.8	30.0	145.85	2.0345	0.986
88.00	992.9	30.2	145.83	2.0227	0.986
89.00	993.1	30.4	145.80	2.0112	0.986
90.00	993.1	30.4	145.79	2.0000	0.986
91.00	993.2	30.5	145.77	1.9890	0.986
92.00	993.3	30.5	145.76	1.9783	0.987
93.00	993.4	30.6	145.74	1.9677	0.987
94.00	993.5	30.8	145.72	1.9574	0.987
95.00	993.5	30.8	145.70	1.9474	0.987
96.00	993.7	31.0	145.69	1.9375	0.987
97.00	993.7	31.0	145.67	1.9278	0.987
98.00	993.9	31.2	145.66	1.9184	0.988
99.00	993.9	31.2	145.64	1.9091	0.988
100.00	994.0	31.2	145.63	1.9000	0.988
101.00	994.0	31.3	145.61	1.8911	0.988

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9941 DST #1 Sell #1 DRW Oper. Co.
 DATE: 06/06/97 TIME: 04:31:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	102.00	994.1	31.4	145.60	1.8824	0.988
	103.00	994.3	31.6	145.58	1.8738	0.989
	104.00	994.3	31.6	145.57	1.8654	0.989
	105.00	994.5	31.7	145.56	1.8571	0.989
	106.00	994.5	31.7	145.54	1.8491	0.989
	107.00	994.6	31.9	145.53	1.8411	0.989
	108.00	994.7	32.0	145.51	1.8333	0.989
	109.00	994.8	32.1	145.50	1.8257	0.990
	110.00	994.8	32.1	145.48	1.8182	0.990
	111.00	994.9	32.2	145.47	1.8108	0.990
	112.00	995.0	32.2	145.45	1.8036	0.990
	113.00	995.1	32.3	145.44	1.7965	0.990
	114.00	995.1	32.3	145.43	1.7895	0.990
	115.00	995.1	32.4	145.43	1.7826	0.990
	116.00	995.1	32.4	145.40	1.7759	0.990
	117.00	995.2	32.5	145.39	1.7692	0.990
	118.00	995.4	32.6	145.39	1.7627	0.991
***** End Shut-in 2	119.00	995.4	32.6	145.37	1.7563	0.991
***** Final Hydro.	438.00	2467.7	0.0	145.40		

TEST HISTORY

9941 DST #1 Sell #1 DRW Oper. Co.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2471.75
B: 0.00	428.19
C: 30.00	804.86
D: 59.00	961.64
E: 0.00	830.29
F: 60.00	962.73
G: 119.00	995.38
Q: 0.00	2467.72

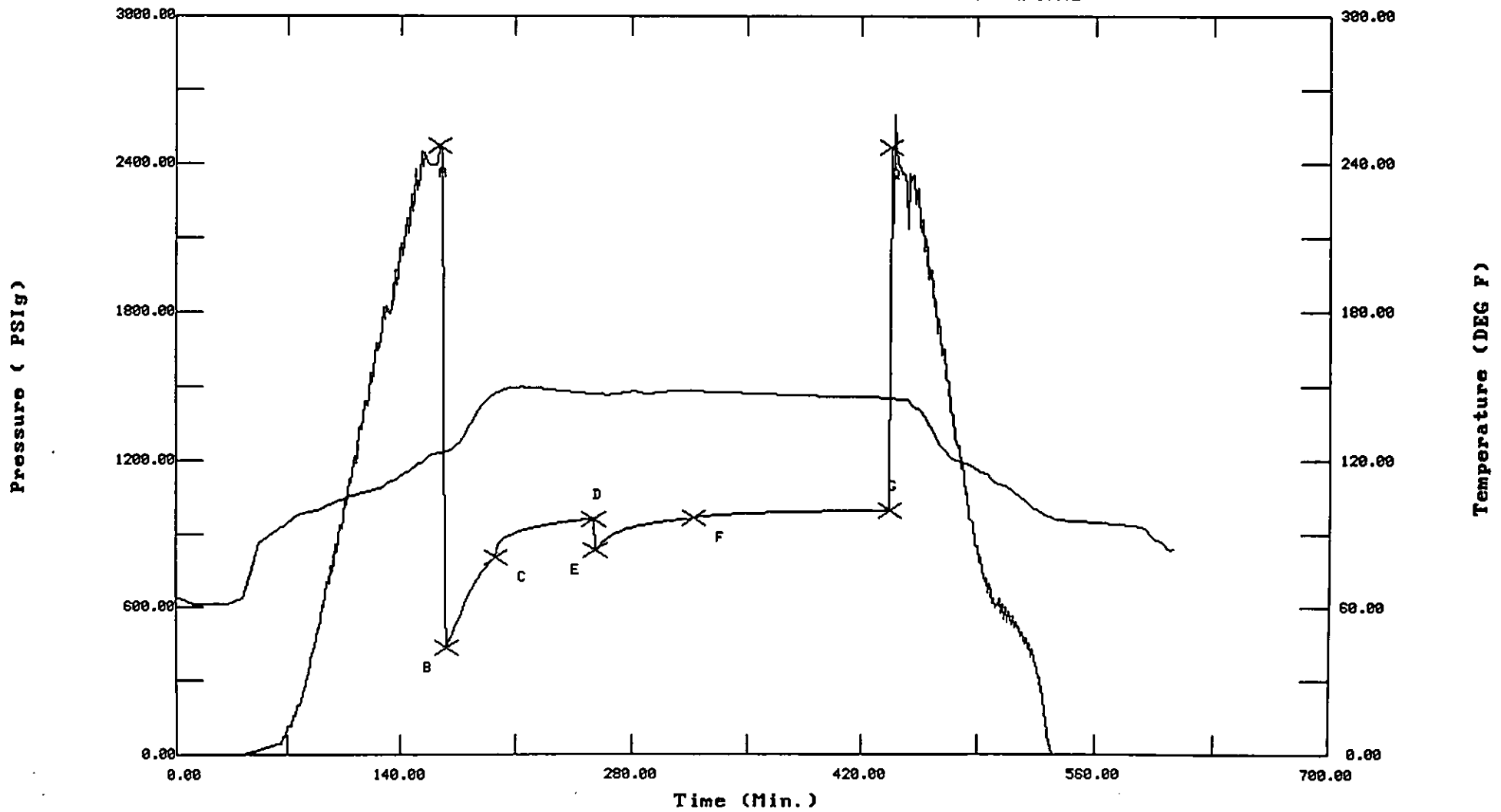
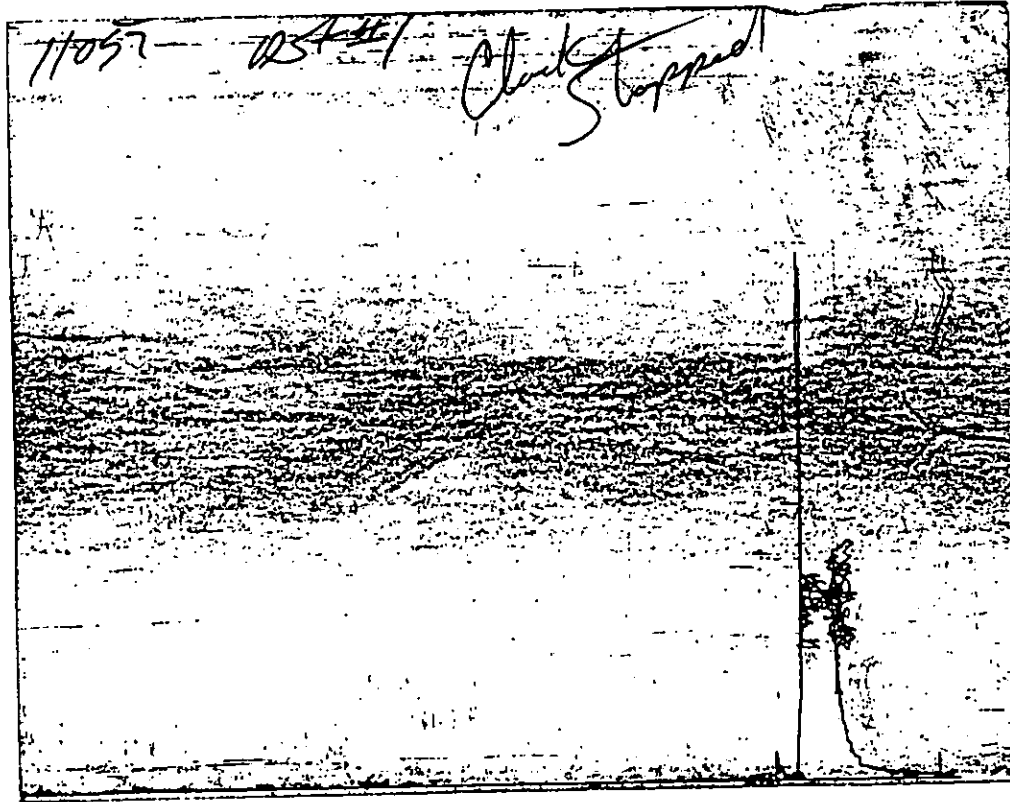


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9941 Date 6-6-97
Company Name DRW Oper. Co.
Lease Sell #1 Test No. #1
County Greeley, KS Sec. 35 Twp. 17 Rng. 43

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 60 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4,800 ppm.
Resistivity 1.38 ohms @ 66 F
Viscosity 51
Mud Weight 9.1
Filtrate 8.8
Other LCM #2

SAMPLER ANALYSIS

Resistivity .14 ohms @ 77 F
Chlorides 45,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .14 ohms @ 77 F
Chlorides 45,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity .14 ohms @ 77 F
Chlorides 45,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 9941

Well Name & No. Sell #1 Test No. 1 Date 6-6-97
 Company DRW Oper. Co. Zone Tested meadow sand
 Address P.O. Box 4462 Englewood Co 80155-4462 Elevation 3728 KB 3728 GL
 Co. Rep / Geo. Chris Cont. Murphy #14 Est. Ft. of Pay Por. %
 Location: Sec. 35 Twp. 17 Rge. 43 Co. Greeley State KS
 No. of Copies None Distribution Sheet (Y, N) Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 5100' 5235' Initial Str Wt/Lbs. 105,000 Unseated Str Wt/Lbs. 116,000
 Anchor Length 135' Wt. Set Lbs. 35,000 Wt. Pulled Loose/Lbs. 155,000
 Top Packer Depth 5095' Tool Weight 5,000
 Bottom Packer Depth 5100' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 5235' Wt. Pipe Run Drill Collar Run 516'
 Mud Wt. 9.1 LCM #2 Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 x 11 Ft. Run 4663'

Blow Description B.O.B in 1 min
IS I: Bleed off for 3 min, return in 3 min built to 1"
F.F.I. B.O.B in 5 min, started dying in 25 min died back to 2"
F.S.I. Bleed off blows 3 min. No return.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>465'</u>	<u> </u>	<u>424'</u>	<u>1626'</u>
Rec. <u>465'</u>	Feet Of <u>slightly w.c.m</u>	%gas	%oil <u>30%</u> %water <u>70%</u> %mud
Rec. <u>186'</u>	Feet Of <u>w.c.m</u>	%gas	%oil <u>60%</u> %water <u>40%</u> %mud
Rec. <u>93'</u>	Feet Of <u>muddy water</u>	%gas	%oil <u>80%</u> %water <u>20%</u> %mud
Rec. <u>1306'</u>	Feet Of <u>Sulfur water</u>	%gas	%oil <u>100%</u> %water <u> </u> %mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil <u> </u> %water <u> </u> %mud

BHT 149° °F Gravity °API D@ °F Corrected Gravity °API
 RW 14 @ 77 °F Chlorides 45,000 ppm Recovery Chlorides 4,800 ppm System

(A) Initial Hydrostatic Mud 2471 PSI Recorder No. 2342 T-Started 05:30 AM
 (B) First Initial Flow Pressure 428 PSI (depth) 5137' T-Open: 08:14 AM
 (C) First Final Flow Pressure 804 PSI Recorder No. 11057 T-Pulled 12:44 P.M.
 (D) Initial Shut-In Pressure 961 PSI (depth) 5230' T-Out 15:45 P.M.
 (E) Second Initial Flow Pressure 830 PSI Recorder No.
 (F) Second Final Flow Pressure 962 PSI (depth)
 (G) Final Shut-In Pressure 995 PSI Initial Opening 30 Test
 (H) Final Hydrostatic Mud 2467 PSI Initial Shut-in 60 Jars X

Final Flow 60 Safety Joint X
 Final Shut-in 120 Straddle
 Circ. Sub X A/C
 Sampler X
 Extra Packer
 Elect. Rec. X
 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 Chris R. [Signature]