

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

Operator: License # 30269

Name: Argent Energy, Inc.

Address 110 South Main  
Suite 810

City/State/Zip Wichita KS 67202

Purchaser: T.T.T.I.

Operator Contact Person: James C. Remsberg

Phone ( 316 ) 262-5111

Contractor: Name: L. D. Drilling, Inc.

License: 6039

Wellsite Geologist: Scott A. Oatsdean

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  S10W  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBTB  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

8/14/93 8/24/93 9/14/93  
Spud Date Date Reached TD Completion Date

API NO. 15- 101-21,659 ORIGINAL

County Lane

NE SE SE Sec. 5 Twp. 19S Rge. 28 X<sup>E</sup><sub>W</sub>

990 Feet from S/N (circle one) Line of Section

330 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 Hineman "A" Well # 1

Field Name Royalty West

Producing Formation Lansing-Kansas City

Elevation: Ground 2763 KB 2768

Total Depth 4660 PBTB 4592

Amount of Surface Pipe Set and Cemented at 270 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2097 Feet

If Alternate II completion, cement circulated from 2097

feet depth to surface w/ 380 sx cmt.

Drilling Fluid Management Plan ALT 1 JH 12-20-93  
(Data must be collected from the Reserve Pit)

Chloride content 5,000± ppm Fluid volume 2150 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name N/A

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

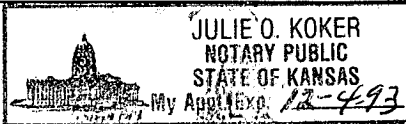
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature James C. Remsberg  
Title President Date 10/13/93

Subscribed and sworn to before me this 13th day of October  
1993.

Notary Public Julie O. Koker

Date Commission Expires December 4, 1993



K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
STATE CORPORATION COMMISSION  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Other (Specify)  
NOV 05 1993  
11-03-1993  
CONSERVATION DIVISION  
Wichita, Kansas

Operator Name **Argent Energy, Inc.**

Lease Name **Hineman "A"**

Well # **1**

Sec. **5** Twp. **19S** Rge. **28**  
 East  
 West

County **Lane**

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

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

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	2117'	+ 652'
Heebner	3937'	-1168'
Lansing	3979'	-1210
B/Kansas City	4343'	-1574'
Mississippian	4620'	-1851'

List All E.Logs Run:

Dual Induction, Resistivity, Caliper, Density, Neutron

**CASING RECORD**

New  Used

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

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	28#	270	60/40 Poz	165	2% gel, 3%CC
Production	7-7/8"	4 1/2"	10.5#	4659	50/50 Poz	225	2% gel, 18% salt

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Surface 2097	Lite	380	1/4#/sk Flocele

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	4271'-76'	none	

**TUBING RECORD** Size **2" EUE** Set At **4336'** Packer At **Liner Run**  Yes  No

Date of First Resumed Production, SWD or Inj. **9/14/93** Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil **100** Bbls. Gas **TSTM** Mcf Water **0** Bbls. Gas-Oil Ratio **39** Gravity **39**

Disposition of Gas: none

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

**METHOD OF COMPLETION**

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

Production Interval

**4271'-76'**

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC. 4788

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
8-4-93	5	19	28	7:30PM	10:45PM	11:15PM	11:45PM
Lease	Well No.	Location		County	State		
Hinemann	A #1	Dighton Cemetery; 34S, W5		Lawr	KS		

Contractor <u>L. D. Drilling</u>	
Type Job <u>Surface</u>	
Hole Size <u>12 1/4"</u>	T.D. <u>272'</u>
Csg. <u>8 3/8"</u>	Depth <u>272'</u>
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. <u>15'</u>	Shoe Joint
Press Max.	Minimum
Meas Line	Displace <u>16 1/2 bbl.</u>
Perf.	

**EQUIPMENT**

#	No.	Cementer	<u>Tim</u>
Pumptrk	<u>158</u>	Helper	<u>Bob W.</u>
#	No.	Cementer	
Pumptrk		Helper	
#		Driver	<u>Bob B.</u>
Bulktrk	<u>116</u>	Driver	

**DEPTH of Job**

Reference:	<u>Pumptrk Charge</u>	
	<u>Pumptrk Mileage</u>	
<u>1</u>	<u>8 3/8 wooden Plug</u>	
	Sub Total	
	Tax	
	Total	

Remarks: Cement did circulate

[Signature]

Owner Same  
 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 listed.

Charge To ARGENT ENERGY, INC.  
 Street  
 City State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
 X Dusty Clark

**CEMENT**

Amount Ordered 165 sks 60/40 3% CC, 2% Gel.

Consisting of  
 Common  
 Poz. Mix  
 Gel.  
 Chloride  
 Quickset

Sales Tax

Handling

Mileage

Sub Total

Total

Floating Equipment

RECEIVED  
 STATE CORPORATION COMMISSION

RECEIVED 1007  
 STATE CORPORATION COMMISSION

CONSERVATION DIVISION

## 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 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.

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

5426

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

Date	9-8-93	Sec.	5	Twp.	19	Range	28	Called Out	7:00 AM	On Location	10:30 AM	Job Start	11:00 AM	Finish	2:45 PM
Lease	HINEMAN	Well No.	A #1	Location	Nighton Cemetary, S5, W5			County	Lawe	State	KS.				

Contractor	Cheyenne Well Service
Type Job	Portcollar
Hole Size	T.D.
Csg. 4 1/2"	Depth
Tbg. Size 2"	Depth
Drill Pipe Bridge Plug 4000'	Depth
Foot Portcollar 2098'	Depth
Cement Left in Csg.	Shoe Joint
Press Max. 1200 #	Minimum
Meas Line	Displace
Perf.	

Owner	Same
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 listed.	
Charge To	Argent Energy Inc.
Street	110 S. Main Suite 810
City	Wichita State Ko. 67202
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>[Signature]</i>

## EQUIPMENT

#	No.	Cementor	Tim - Ben
Pumptrk	158	Helper	Mike
#	No.	Cementor	
Pumptrk		Helper	
#	No.	Driver	Bob W.
Bulktrk	199	Driver	

<b>CEMENT</b>			
Amount Ordered	450 SKS 50 68 Gel, 1/4" H Seal, 10 Gel		
Consisting of 1 sand,			
Common	225	5.75	1293.75
Poz. Mix	225	3.00	675.00
Gel.	37	7.00	259.00
Chloride			
Quickset	Sand - 1	5.00	5.00
F10 Seal	- 113	1.10	124.30
Handling	450	1.00	450.00
Mileage	35		630.00

<b>DEPTH of Job</b>		
Reference:	Pumptrk Change	525.00
	35 Pumptrk Mileage	78.75
	<b>Total</b>	<b>603.75</b>

TOTAL \$ 4040.80	
Disc - 808.16	
<b>\$ 3232.64</b>	Total
Floating Equipment	

Remarks: Tubing at 3980'. Circulated oil out of hole. Pressured tested B Plug to 1000' + Held Spotted 1 SK sand Pulled tubing to 2098' 5 sh. Hcl, opened Portcollar Mixed 5sh Hcl, followed by 34 1/2" Hcl, 1/4" floreal/sh. Displaced 2 1/2 bbl. Closed Port Collar. Ran 3 in tubing. Washed out. Ran tubing + washed sand off Bridge Plug + filled casing with cement. (Circulated 30 sh cement into Pit)

ORIGINAL

DRILLER'S WELL LOG

COMMENCED: 8-14-93  
COMPLETED: 8-24-93

ARGENT EXPLORATION, INC.  
HINEMAN "A" #1  
NE SE SE SEC. 5-T19S-R28W  
LANE COUNTY, KANSAS  
API #15-101-21 659-00-00  
ELEVATION: 2763 GR 2768 KB

0 - 272 Surface  
272 - 1330 Shale  
1330 - 1925 Sand & Shale  
1925 - 2320 Shale  
2320 - 4070 Lime & Shale  
4070 - 4180 Lime  
4180 - 4225 Lime & Shale  
4225 - 4315 Lime  
4315 - 4580 Lime & Shale  
4580 - 4660 Lime  
4660 RTD

CASING:

Surface: 270' W/155 sx. 60/40  
Pozmix, 2% Gel, 3% cc

Production: 4659' W/225 sx.  
50/50 Pozmix, 2% gel, 18% salt,  
3/4% Halad 322

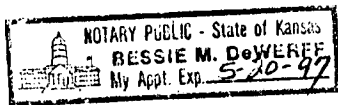
A F F I D A V I T

STATE OF KANSAS )  
COUNTY OF BARTON )<sup>ss</sup>

L. D. DAVIS of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

L. D. Davis  
L. D. Davis

Subscribed and sworn to before me this 26th day of August 1993.



My Commission expires: 5-20-97

Bessie M. DeWerff  
Notary Public: Bessie M. DeWerff

1993 AUG 26  
LANE COUNTY, KANSAS

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

Well Name HINEMAN "A" #1 Test No. 1 Date 8/20/93  
 Company ARGENT ENERGY, INC. Zone KS CITY  
 Address 110 S MAIN #510 WICHITA KS 67202 Elevation 2769  
 Co. Rep./Geo. SCOTT OATSDEAN Cont. L.D. DAVIS RIG #1 Est. Ft. of Pay 6  
 Location: Sec. 5 Twp. 19S Rge. 28W Co. LANE State KS  
APT # 15-101-21659-00-00

Interval Tested 4154-4180 Drill Pipe Size 4.5 XH  
 Anchor Length 26 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 4149 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
 Bottom Packer Depth 4154 Mud Wt. 9.1 lb/Gal.  
 Total Depth 4180 Viscosity 44 Filtrate \_\_\_\_\_

Tool Open @ 5:00 AM Initial Blow WEAK SURFACE BLOW BUILT TO 2.5"

Final Blow WEAK SURFACE RETURN SLOWLY BUILT TO 3"

Recovery - Total Feet 90 Flush Tool? NO

Rec. 30 Feet of GAS IN PIPE  
 Rec. 20 Feet of CLEAN GASSY OIL-10% GAS/ 90% OIL  
 Rec. 70 Feet of GASSY MUD CUT OIL-10% GAS/ 60% OIL/ 30% MUD  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity 34 °API @ 76 °F Corrected Gravity 32.6 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2035.0 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 81.1 PSI @ (depth) 4170 w / Clock No. 25810

(C) First Final Flow Pressure 70.7 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1069.2 PSI @ (depth) 4175 w / Clock No. 22992

(E) Second Initial Flow Pressure 114.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

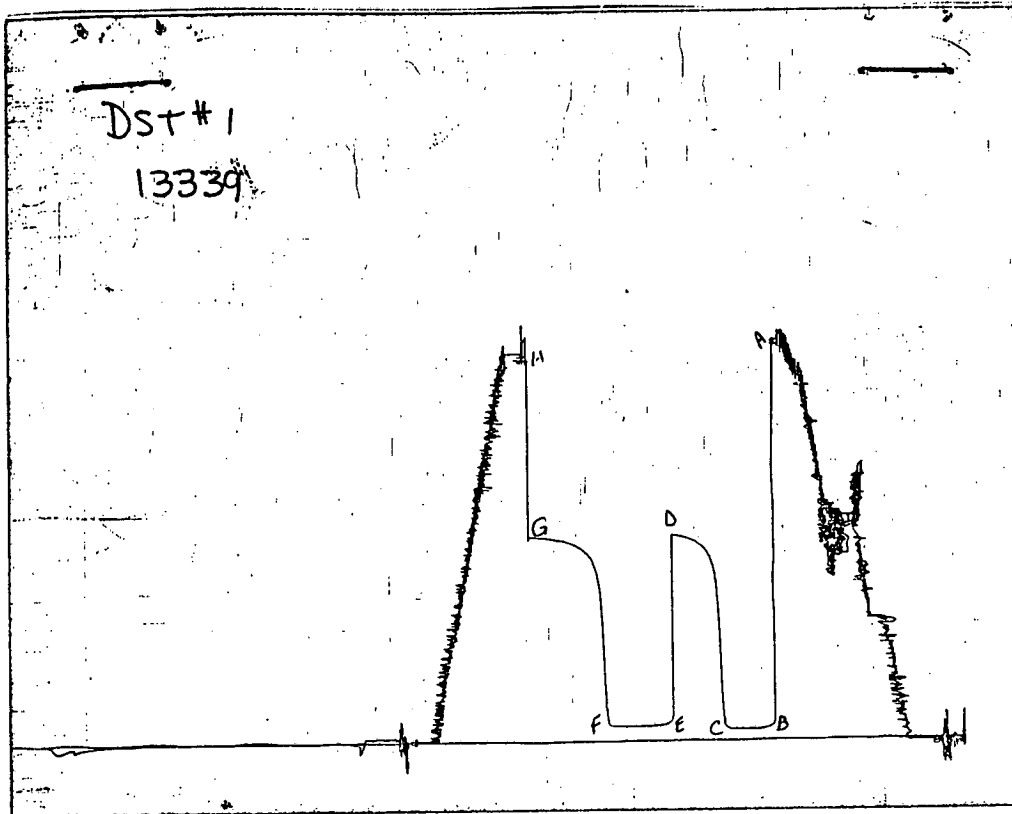
(F) Second Final Flow Pressure 87.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1058.2 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1997.0 PSI Initial Shut-in 45 Final Shut-in \_\_\_\_\_

Our Representative ROD STEINBRINK

RECEIVED  
 NOV 03 1993  
 CONSERVATION DIVISION



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	2023	2035
(B) FIRST INITIAL FLOW PRESSURE	62	81.1
(C) FIRST FINAL FLOW PRESSURE	62	70.7
(D) INITIAL CLOSED-IN PRESSURE	1060	1069.2
(E) SECOND INITIAL FLOW PRESSURE	83	114.3
(F) SECOND FINAL FLOW PRESSURE	83	87.3
(G) FINAL CLOSED-IN PRESSURE	1060	1058.2
(H) FINAL HYDROSTATIC MUD	2003	1997

RECEIVED  
STATE CORPORATION COMMISSION

NOV 03 1993

CONSERVATION DIVISION  
Wichita, Kansas



# TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data API# 15-101-21659

Well Name HINEMAN "A" #1 Test No. 2 Date 8/20/93  
Company ARGENT ENERGY, INC. Zone KS CITY  
Address 110 S MAIN #510 WICHITA KS 67202 Elevation 2769  
Co. Rep./Geo. SCOTT OATSDEAN Cont. L.D. DAVIS RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested	<u>4191-4230</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>39</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4186</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4191</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4230</u>	Viscosity	<u>42</u> Filtrate _____

Tool Open @ 7:15 PM Initial Blow WEAK SURFACE BLOW SLOWLY BUILT TO 3"

Final Blow VERY WEAK SURFACE BLOW AFTER 15 MINUTES STAYING STEADY

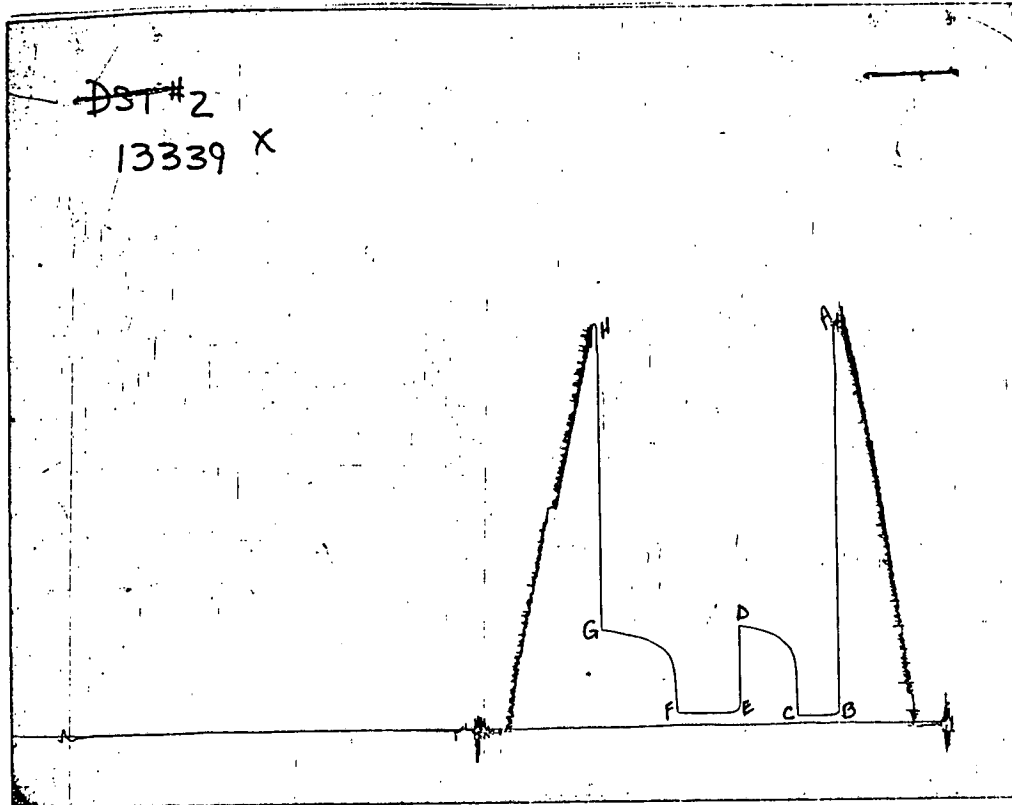
Recovery - Total Feet 90 Flush Tool? NO

Rec. <u>20</u>	Feet of	<u>OIL CUT MUD-10% OIL/ 90% MUD</u>
Rec. <u>70</u>	Feet of	<u>WATERY MUD-20% WTR/ 80% MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 115 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.46 @ 80 °F Chlorides 12000 ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud	<u>2070.0</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(B) First Initial Flow Pressure	<u>40.2</u> PSI	@ (depth)	<u>4220</u>	w / Clock No.	<u>22992</u>
(C) First Final Flow Pressure	<u>41.3</u> PSI	AK1 Recorder No.	<u>13276</u>	Range	<u>4000</u>
(D) Initial Shut-in Pressure	<u>522.4</u> PSI	@ (depth)	<u>4225</u>	w / Clock No.	<u>26191</u>
(E) Second Initial Flow Pressure	<u>70.7</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>70.7</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>513.6</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>45</u>
(H) Final Hydrostatic Mud	<u>2050.0</u> PSI	Initial Shut-in	<u>45</u>	Final Shut-in	<u>60</u>

Our Representative ROD STEINBRINK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2073	2070
(B) FIRST INITIAL FLOW PRESSURE	41	40.2
(C) FIRST FINAL FLOW PRESSURE	41	41.3
(D) INITIAL CLOSED-IN PRESSURE	519	522.4
(E) SECOND INITIAL FLOW PRESSURE	63	70.7
(E) SECOND FINAL FLOW PRESSURE	63	70.7
(G) FINAL CLOSED-IN PRESSURE	509	513.6
(H) FINAL HYDROSTATIC MUD	2053	2050

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

API #15-101-21659-00-00

Well Name HINEMAN "A" #1 Test No. 3 Date 8/21/93  
 Company ARGENT ENERGY, INC. Zone KS CITY  
 Address 110 S MAIN #510 WICHITA KS 67202 Elevation 2769  
 Co. Rep./Geo. SCOTT OATSDEAN Cont. L.D. DAVIS RIG #1 Est. Ft. of Pay 6  
 Location: Sec. 5 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4233-4240  
 Anchor Length 7  
 Top Packer Depth 4228  
 Bottom Packer Depth 4233  
 Total Depth 4240

Drill Pipe Size 4.5 XH  
 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
 Mud Wt. 9.2 lb/Gal.  
 Viscosity 48 Filtrate \_\_\_\_\_

Tool Open @ 8:32 AM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 4 MINUTES  
 PSI: BIED OFF BLOW - SURFACE RETURN BUILT TO 2"  
 Final Blow FAIR TO STRONG RETURN OFF BOTTOM IN 5 MINUTES  
 PSI: BIED OFF BLOW - SURFACE BLOW 10 MIN INTO STEADY THRGOUHOUT

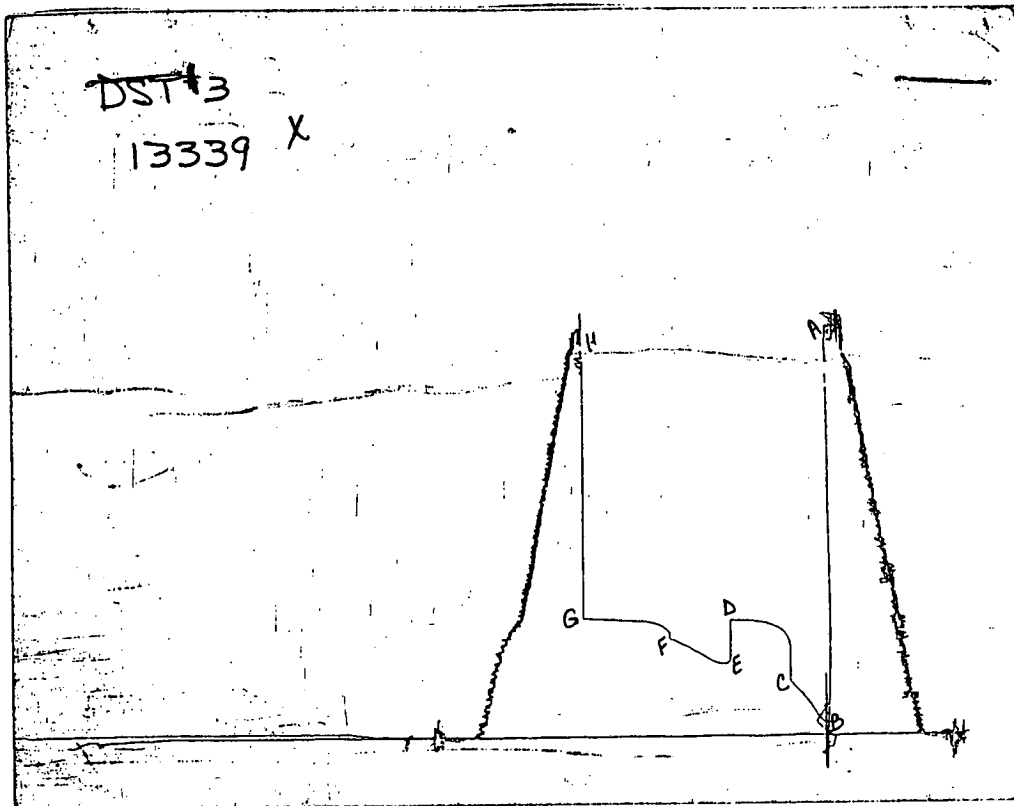
Recovery - Total Feet 1045 Flush Tool? NO

Rec. 65 Feet of GAS IN PIPE  
 Rec. 55 Feet of CLEAN GASSY OIL-10% GAS/ 90% OIL  
 Rec. 90 Feet of GSY OIL & MUD CUT WATER-5% GAS/ 15% OIL/ 50% WTR/ 30%  
 Rec. 900 Feet of SLTLY GSY SALT WATER-5% GAS/ 95% WATER  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT N/A °F Gravity 39.4 °API @ 94 °F Corrected Gravity 36.4 °API  
 RW 0.16 @ 90 °F Chlorides 34000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2070.0 PSI AK1 Recorder No. 13339 Range 4025  
 (B) First Initial Flow Pressure 70.7 PSI @ (depth) 4219 w / Clock No. 22992  
 (C) First Final Flow Pressure 274.6 PSI AK1 Recorder No. 13276 Range 4000  
 (D) Initial Shut-in Pressure 623.8 PSI @ (depth) 4235 w / Clock No. 26191  
 (E) Second Initial Flow Pressure 380.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 513.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
 (G) Final Shut-in Pressure 623.8 PSI Initial Opening 30 Final Flow 45  
 (H) Final Hydrostatic Mud 2050.0 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2063	2070
(B) FIRST INITIAL FLOW PRESSURE	72	70.7
(C) FIRST FINAL FLOW PRESSURE	270	274.6
(D) INITIAL CLOSED-IN PRESSURE	619	623.8
(E) SECOND INITIAL FLOW PRESSURE	384	380.5
(F) SECOND FINAL FLOW PRESSURE	509	513.6
(G) FINAL CLOSED-IN PRESSURE	619	623.8
(H) FINAL HYDROSTATIC MUD	2053	2050

# TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

API# 15-101-21659-00-00

Well Name HINEMAN "A" #1 Test No. 4 Date 8/21/93  
Company ARGENT ENERGY, INC. Zone KS CITY  
Address 110 S MAIN #510 WICHITA KS 67202 Elevation 2769  
Co. Rep./Geo. SCOTT OATSDEAN Cont. L.D. DAVIS RIG #1 Est. Ft. of Pay 6  
Location: Sec. 5 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4255-4275 Drill Pipe Size 4.5 XH  
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4250 Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Bottom Packer Depth 4255 Mud Wt. \_\_\_\_\_ lb/Gal.  
Total Depth 4275 Viscosity \_\_\_\_\_ Filtrate \_\_\_\_\_

Tool Open @ 10:45 PM Initial Blow STRONG BLOW OFF BOTTOM IN 1 1/2 MINUTES  
ISI: bled off blow - SURFACE RETURN OFF BOTTOM IN 20 MINUTES  
Final Blow FAIR TO STRONG BLOW OFF BOTTOM IN 2 1/2 MINUTES  
FSI: bled off blow - NO RETURN

Recovery - Total Feet 2120 Flush Tool? NO

Rec. 930 Feet of GAS IN PIPE  
Rec. 2120 Feet of CLEAN GASSY OIL-35% GAS/ 65% OIL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 115 °F Gravity 38 °API @ 62 °F Corrected Gravity 37.8 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud 2158.3 PSI AK1 Recorder No. 13339 Range 4025

(B) First Initial Flow Pressure 110.2 PSI @ (depth) 4265 w / Clock No. 22992

(C) First Final Flow Pressure 472.9 PSI AK1 Recorder No. 13276 Range 4000

(D) Initial Shut-in Pressure 866.7 PSI @ (depth) 4270 w / Clock No. 26191

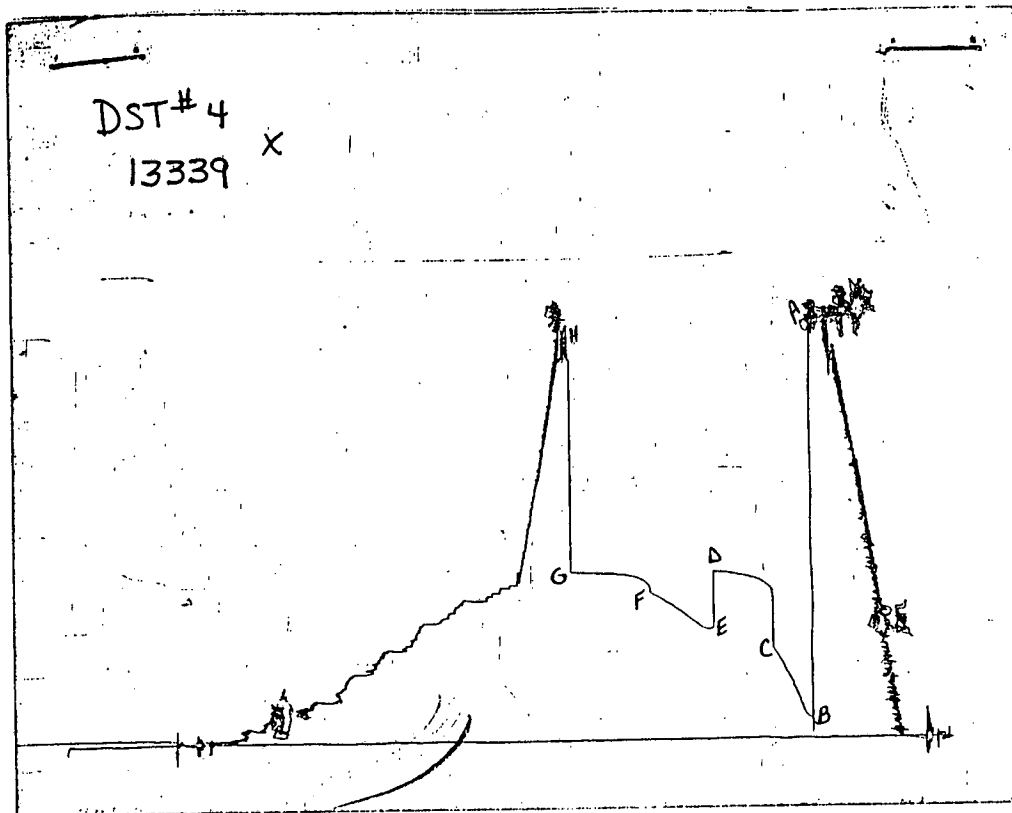
(E) Second Initial Flow Pressure 579.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 749.5 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 867.7 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2121.2 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative ROD STEINBRINK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2143	2158.3
(B) FIRST INITIAL FLOW PRESSURE	104	110.2
(C) FIRST FINAL FLOW PRESSURE	457	472.9
(D) INITIAL CLOSED-IN PRESSURE	869	866.7
(E) SECOND INITIAL FLOW PRESSURE	569	579.1
(F) SECOND FINAL FLOW PRESSURE	749	749.5
(G) FINAL CLOSED-IN PRESSURE	869	867.7
(H) FINAL HYDROSTATIC MUD	2113	2121.2

# TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

API # 15-101-21 659-00-00

Well Name HINEMAN "A" #1 Test No. 5 Date 8/22/93  
Company ARGENT ENERGY, INC. Zone KS CITY  
Address 110 S MAIN #510 WICHITA KS 67202 Elevation 2769  
Co. Rep./Geo. SCOTT OATSDEAN Cont. L.D. DAVIS RIG #1 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4285-4315  
Anchor Length 30  
Top Packer Depth 4280  
Bottom Packer Depth 4285  
Total Depth 4315

Drill Pipe Size 4.5 XH  
Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Drill Collar - 2.25 Ft. Run \_\_\_\_\_  
Mud Wt. \_\_\_\_\_ lb/Gal.  
Viscosity \_\_\_\_\_ Filtrate \_\_\_\_\_

Tool Open @ 3:30 PM Initial Blow WEAK SURFACE BLOW STEADY THROUGHOUT

Final Blow NO RETURN BLOW

Recovery - Total Feet 15 Flush Tool? NO

Rec. 15 Feet of THIN MUD WITH SHOW OF OIL-5% WTR/ 95% MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 115 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

A) Initial Hydrostatic Mud 2133.6 PSI AK1 Recorder No. 13339 Range 4025

B) First Initial Flow Pressure 49.2 PSI @ (depth) 4300 w / Clock No. 26191

C) First Final Flow Pressure 49.2 PSI AK1 Recorder No. 13276 Range 4000

D) Total Shut-in Pressure 894.2 PSI @ (depth) 4310 w / Clock No. 22992

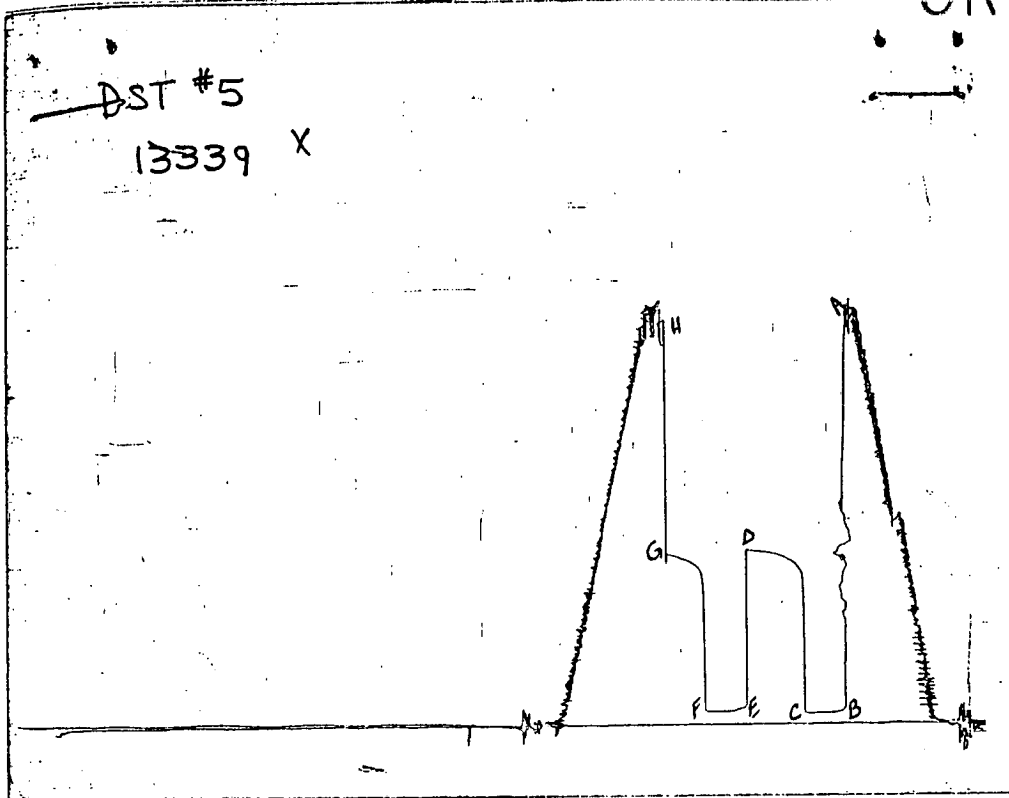
E) Second Initial Flow Pressure 63.1 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

F) Second Final Flow Pressure 63.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

G) Third Shut-in Pressure 871.2 PSI Initial Opening 30 Final Flow 30

H) Final Hydrostatic Mud 2121.2 PSI Initial Shut-in 45 Final Shut-in 30

Representative ROD STEINBRINK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2123	2133.6
(B) FIRST INITIAL FLOW PRESSURE	52	49.2
(C) FIRST FINAL FLOW PRESSURE	52	49.2
(D) INITIAL CLOSED-IN PRESSURE	889	894.2
(E) SECOND INITIAL FLOW PRESSURE	62	63.1
(F) SECOND FINAL FLOW PRESSURE	62	63.1
(G) FINAL CLOSED-IN PRESSURE	869	871.2
(H) FINAL HYDROSTATIC MUD	2113	2121.2