

THIS FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

Operator: License# 31415  
Name: HS Resources, Inc.  
Address: 1999 Broadway, #3600  
City/State/Zip: Denver, CO 80202  
Purchaser: N/A  
Operator Contact Person: Richard Frazey  
Phone: (303) 296-3600  
Contractor Name: Cheyenne Drilling Inc.  
License: 5382  
Wellsite Geologist: R.G. Osterbuhr  
Designate Type of Completion:  
X New Well Re-Entry Workover  
SWD SIOW Temp Abd  
Gas ENHR X SIGW  
Dry Other (Core, WSW, Expl, Cathodic, Etc).

If Workover:  
Operator: NA  
Well Name: NA  
Comp. Date: NA Old Total Depth: NA  
Deepening Re-perf. Conv. to Inj/SWD  
Plug Back PBTD  
Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.  
05-11-94 05-15-94 07-08-94  
Spud Date Date Reached TD Completion Date

API No. 16- 203-20,106 - 0000  
County: Wichita  
C - SW - SW - Sec 15 Twp. 19S Rge 38W  
660 Feet from SN (circle one) Line of Section  
660 Feet from EN (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name: HSR-Bauer Well # 13-15  
Field Name: N/A  
Producing Formation: N/A  
Elevation: Ground 3418' KB: 3431'  
Total Depth: 3110' PBTD: 3081'  
Amount of Surface Pipe Set and Cemented at 9 jts @ 403' Feet  
Multiple Stage Cementing Collar Used? Yes X No  
If yes, show depth set N/A Feet  
If Alternate II completion, cement circulated from N/A  
feet depth to N/A w/ N/A sx cmt.

Drilling Fluid Management Plan ALT 2 JH 10-26-95  
(Data must be collected from the Reserve Pit)  
Chloride content ppm Fluid volume bbls.  
Dewatering method used  
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, 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: *Richard Frazey*  
Title: Landman  
Subscribed and sworn to before me this 15th day of December 1994  
Notary Public: *John Dubler*  
Date Commission Expires: September 10, 1997

STATE CORPORATION COMMISSION RECEIVED  
K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Geologist Report Received  
Distribution: KCC SWD/Rep NGPA, KGS Plug Other (Specify)  
DEC 22 1994

**SIDE TWO**

Operator Name HS Resources, Inc. Lease Name HSR-Bauer Well # 13-15  
 Sec. 15 Twp. 19S Rge. 38W County Wichita

**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) **See Attached DST #1**

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run (Submit Copy)  Yes  No

**List All E. Logs Run:**

- Array Induction Shallow Focused Log
- Long Space Sonic Integrated Transit Time Log
- Compensated Neutron Compensated Photo Density Log

<input checked="" type="checkbox"/> Log	Formation (Top), Depth & Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Dakota	950'	+2481'
Permian	1346'	+2085'
Blaine	1697'	+1734'
Stone Corral	2436'	+995'
Winfield	2796'	+635'
Towanda	2840'	+591'
Ft. Riley	2864'	+567'
Florence	2898'	+533'
Council Grove	3010'	+421'

**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 & Percent Additives
Surface	12-1/4"	8-5/8"	24#	403'	60/40 poz	260	2% Gel, 3% CaCl2
Production	77/8"	5-1/2"	15.5#	3100'	65/35 Poz	460	6% D20, 2% S1, 1/4 pps D29
					"C"	105	2% S1, 1/4 pps D29, 10 pps D42
*5#/sx D42							

**ADDITIONAL CEMENTING / SQUEEZE RECORD**

Purpose	Depth Top Bottom	Type of Cement	# Sacks Used	Type & Percent Additives
Perforate				
Protect Csg	NA	NA	NA	NA
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type - Specify Footage of Each Interval Perf'd	Acid, Fracture, Shot, Cement Squeeze Record (Amount & Kind of Material Used)	Depth
	4 SPF	2804'-2810' - Winfield	

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2-7/8"	3056'	2770'	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.				Producing Method			
NA				<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		
	NA	NA	NA	NA	NA		

**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) \_\_\_\_\_

Dowell

REMIT TO:

P O BOX 890788  
DALLAS TX 75389-0788

# INVOICE

0312

*DOW 244*

INVOICE DATE

05/16/94

INVOICE NUMBER

03-12-6166I

923036  
H.S. RESOURCES

3939 CARSON  
EVANS

CO 80622

PAGE

1

TYPE SERVICE

CEMENTING  
CEMENT PRODUCTIO

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
HSR BAUER 13-15	KS	WICHITA	ULYSSES		
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
SEC 15-19S-38W			05/16/94	CHAD PARKS	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
045019050	D42, KOLITE LOST CIRC ADDITI	LBS	3351	.5200	1,742.52
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	86	2.8000	240.80
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	150.0000	150.00
102871035	CSN CMNT 3001-3500' 1ST 8 HR	8HR	1	1,370.0000	1,370.00
049102000	TRANSPORTATION CMNT TON MILE	MI	2297	.9400	2,159.18
049100000	SERVICE CHG CEMENT MATL LAND	CFT	625	1.2800	800.00
040003000	D903, CEMENT CLASS C	CFT	404	8.7000	3,514.80
045000000	D035, LITEPOZ 3 EXTENDER	CFT	161	4.2200	679.42
045014050	D20, BENTONITE EXTENDER	LBS	2400	.1600	384.00
067005100	S1, CALCIUM CHLORIDE	LBS	998	.3900	389.22
044003025	D29, CELLOPHANE FLAKES	LBS	140	1.7000	238.00
100283000	D027, CHEMICAL WASH CM100	BBL	12	37.5000	450.00
067011000	M117, POTASSIUM CHLORIDE	LBS	250	.3000	75.00
059220003	INCOMPLETE SERV PER MILE PER	MI	172	3.0000	516.00
050101054	SHOE CEM TYPE GUIDE 5-1/2"	EA	1	160.0000	160.00
053003054	INSERT ORIFICE FILL 5-1/2"	EA	1	250.0000	250.00
056011054	CENTR REG 5-1/2, B DIA-9"	EA	10	63.0000	630.00
056711054	CENTR DEF 5-1/2, B DIA 7-3/4"	EA	3	70.0000	210.00
056702054	PLUG CEMG 5-1/2" TOP PLASTIC	EA	1	72.0000	72.00
049102000	TRANSPORTATION CMNT TON MILE	MI	144	.9400	135.36
049100000	SERVICE CHG CEMENT MATL LAND	CFT	67	1.2800	85.76
057499001	K232, THD LKG COMPOUND KIT	EA	1	27.0000	27.00
048601000	CEMENT HEAD RENTAL	JOB	1	.0000	N/C
	DISCOUNT - MATERIAL				2,999.47-
	DISCOUNT - SERVICE				1,855.41-

*941020 222*

RECEIVED  
STATE CORPORATION COMMISSION  
WICHITA, KANSAS

JAN 05 1995

WICHITA, KANSAS  
JAN 05 1994

SUB TOTAL -- 9,424.18

M C STATE TAX ON  
M F C LOCAL TAX ON

7,336.89 359.51  
7,336.89 73.37

EVN-ACCT-REC'D MAY 25 1994

AMOUNT DUE -- 9,857.06

*Eddie Swain*

RECEIVED MAY 25 1994

THANK YOU. WE APPRECIATE YOUR BUSINESS.

*John Bryant*  
J H BRYANT

WITH QUESTIONS CALL 316-356-1272  
FEDERAL TAX ID # 38-239-7173  
TERMS -- NET 30 DAYS DUE ON OR BEFORE JUN 15, 1994

\*\* WE CAN INVOICE YOU VIA EDI. CALL (713)556-7675 FOR INFORMATION \*\*

# ORIGINAL

## DRILLERS LOG

H.S. RESOURCES, INC.  
BAUER #13-15  
SECTION 15-T19S-R38W  
WICHITA COUNTY, KANSAS

API #15-203-20106

COMMENCED: 05-11-94  
COMPLETED: 05-16-94

SURFACE CASING: 390' OF 8 5/8"  
CMTD W/260 SX 60/40 POZ, 2% GEL,  
3% C.C.

FORMATION	DEPTH
SURFACE HOLE	0- 405
SHALE & SAND	405-1405
SHALE & SALT	1405-2115
SHALE	2115-2450
LIME & SHALE	2450-2797
SHALE	2797-3110 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

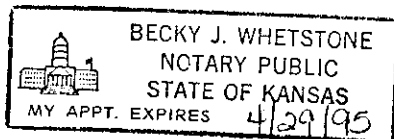
CHEYENNE DRILLING, INC.

*Wray Valente*

WRAY VALENTINE

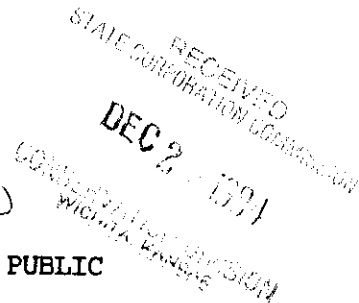
STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 17TH DAY OF MAY, 1994.



*Becky J. Whetstone*

BECKY J. WHETSTONE, NOTARY PUBLIC



API #15-203-20106

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

# ORIGINAL

## Drill-Stem Test Data

Well Name HSR-BAUER #13-15 Test No. 1 Date 5-15-94  
 Company H.S. RESOURCES INC. Zone WINFIELD  
 Address 216 16th ST-SWT #1400 DENVER CO 80202 Elevation 3431 KB  
 Co. Rep./Geo. T. MATHER/R. OSTERBUHR Cont. CHEYENNE DRLG RIG #7 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 15 Twp. 19S Rge. 38W Co. WICHITA State KS

Interval Tested 2774-2838 Drill Pipe Size 4.5" XH  
 Anchor Length 64 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 2769-2774 Drill Collar - 2.25 Ft. Run 559  
 Bottom Packer Depth 2838 Mud Wt. \_\_\_\_\_ 9 lb/Gal.  
 Total Depth 3110 Viscosity 47 Filtrate 8.8

Tool Open @ 10:15 PM Initial Blow CLOSED TEST-RECORDED NO PRESSURE  
 Final Blow RECORDED NO PRESSURE  
SET TOOL & OPENED 8' OFF BTM-TOOL SLID GRADUALLY THROUGHOUT BOTH FLOWS

Recovery - Total Feet 1 Flush Tool? NO

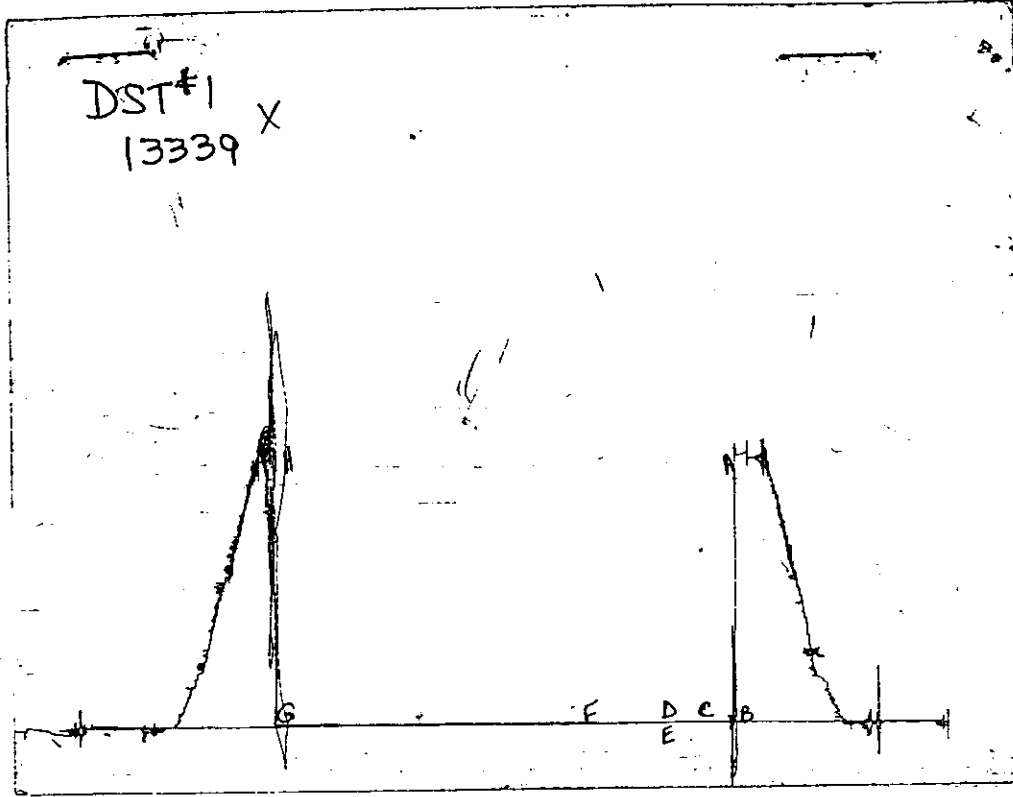
Rec. 1 Feet of DRILLING MUD  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 112 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 0.21 @ 70 °F Chlorides 35000 ppm Recovery Chlorides 37000 ppm System

(A) Initial Hydrostatic Mud 1431.1 PSI AK1 Recorder No. 13309 Range 4700  
 (B) First Initial Flow Pressure 12.9 PSI @ (depth) 2758 w / Clock No. 19960  
 (C) First Final Flow Pressure 12.9 PSI AK1 Recorder No. 13339 Range 4025  
 (D) Initial Shut-in Pressure 12.9 PSI @ (depth) 2830 w / Clock No. 22992  
 (E) Second Initial Flow Pressure 12.9 PSI AK1 Recorder No. 13276 Range 4000  
 (F) Second Final Flow Pressure 12.9 PSI @ (depth) 3105 w / Clock No. 23832  
 (G) Final Shut-in Pressure 12.9 PSI Initial Opening 10 Final Flow 60  
 (H) Final Hydrostatic Mud 1418.2 PSI Initial Shut-in 30 Final Shut-in 240

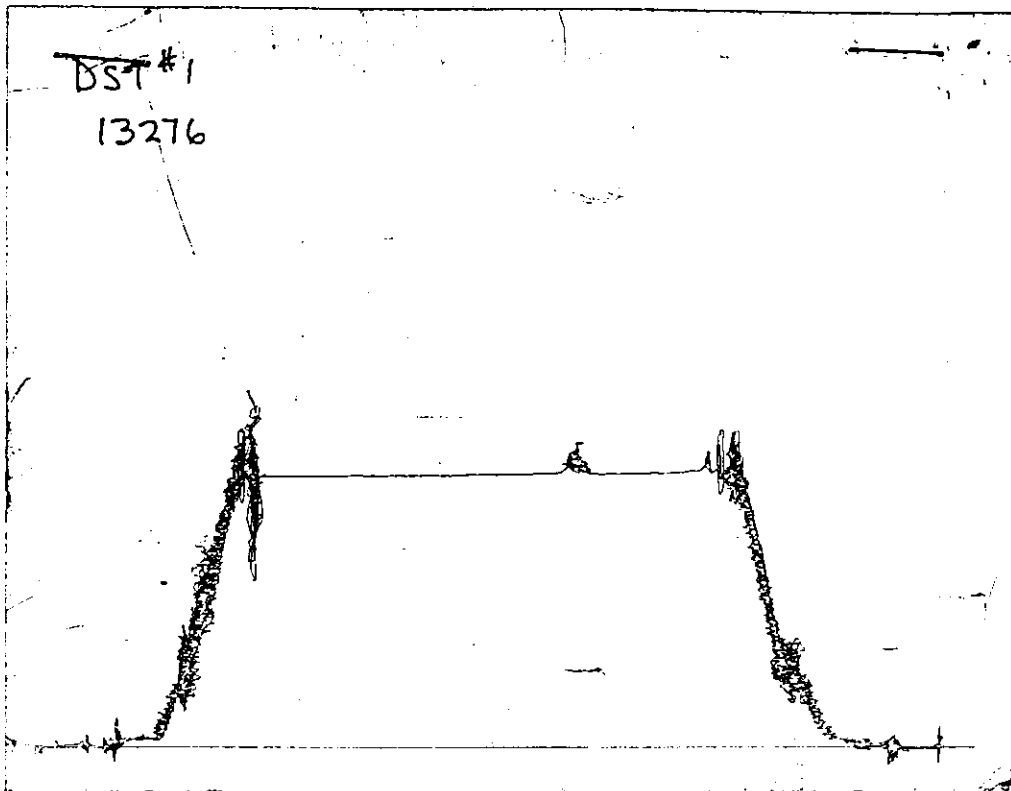
Our Representative ROD STEINBRINK

STATE OF KANSAS RECEIVED  
 DEC 1 1994  
 WICHITA COUNTY



This is an actual photograph of recorder chart #13339

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1411	1431.1
(B) FIRST INITIAL FLOW PRESSURE	10	12.9
(C) FIRST FINAL FLOW PRESSURE	10	12.9
(D) INITIAL CLOSED-IN PRESSURE	10	12.9
(E) SECOND INITIAL FLOW PRESSURE	10	12.9
(F) SECOND FINAL FLOW PRESSURE	10	12.9
(G) FINAL CLOSED-IN PRESSURE	10	12.9
(H) FINAL HYDROSTATIC MUD	1401	1418.2



This is an actual photograph of recorder chart # 13276

FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

FLUID SAMPLER DATA

Ticket No.: 7061 Date: 5-15-94
Company: H.S. RESOURCES INC.
Lease: HSR-BAUER #13-15 Test No.: 1
County: WICHITA Sec.: 15 Twp.: 19S Rng.: 38W

SAMPLER RECOVERY

Gas
Oil
Mud 4000
Water
Other
Pressure 0
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 37000
Resistivity 0.2 ohms@ 70 F
Viscosity 47
Mud Wt. 9
Filtrate 8.8
Other

SAMPLER ANALYSIS

Resistivity 0.21 ohms@ 70 F
Chlorides 35000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm