

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 PBTB
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.
05-31-94 06-04-94 08-23-94
Spud Date Date Reached TD Completion Date

API No. 15- 071-206,29 - 0000
County: Greeley
SW - SW - Sec 4 Twp. 18S Rge 39W

660 Feet from S (circle one) Line of Section
660 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name: HSR-Rauch Well # 13-4
Field Name: N/A
Producing Formation: N/A
Elevation: Ground 3531' KB: 3544'
Total Depth: 3170' PBTD: 3122'

Amount of Surface Pipe Set and Cemented at 9 jts @ 404' 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 87 10-27-95
(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. EW
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 E. Frazey*
Title: Landman

Subscribed and sworn to before me this 15th day of December 19 94

Notary Public: *John A. Kubler*

Date Commission Expires: September 10, 1997

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
DEC 22 1994
CONSERVATION DIVISION
WICHITA, KANSAS
Form ACO-1 (7-91)

SIDE TWO

Operator Name HS Resources, Inc. Lease Name HSR-Rauch Well # 13-4
 Sec. 4 Twp. 18S Rge. 39W 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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run (Submit Copy) Yes No

<input checked="" type="checkbox"/> Log Formation (Top), Depth & Datums <input type="checkbox"/> Sample		
Name	Top	Datum
Dakota	1152'	+2392'
Permian	1544'	+2000'
Blaine	1903'	+1641'
Stone Corral	2604'	+940'
Winfield	2914'	+630'
Towanda	2944'	+600'
Ft. Riley	2978'	+566'
Florence	3013'	+531'
Council Grove	3124'	420'

List All E. Logs Run:
 Array Induction Shallow Focused Log
 Compensated Long Space Sonic Integrated Transit Time
 Compensated Neutron Compensated Photo Density Log

CASING RECORD							
		<input checked="" 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 & Percent Additives
Surface	12-1/4"	8-5/8"	24#	404'	60/40 poz	260	2% Gel, 3% CaCl2
Production	77/8"	5-1/2"	15.5#	3150'	HLC Prem. +	800	15% salt, 1/4 pps Flocele*
					Exp Prem +	85	15% salt, 10% EA2, **
*0.6% Halad 322						**1% CaCl2, .6% Halad 322, 1/4 pps Flocele	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth	Type of Cement	# Sacks Used	Type & Percent Additives
	Top Bottom			
Perforate				
Protect Csg	NA	NA	NA	NA
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Type - Specify Footage of Each Interval Perfd	(Amount & Kind of Material Used)	
1 SPF 4 Shots	2946', 2947', 2980', 2991' Ft. Riley, RBP @ 3019'	13,000# 12/20 mesh sand + 11,398 gal gelled fluid	2991'
4 SPF	2945'-2948'; & 2979'-2982' Ft. Riley; RBP @ 3019'	1000 gal 15% FE acid, 750 gal gelled wtr w/300# rock salt, followed by 1000 gal 15% FE acid	2991'

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2-7/8"	2911'	2918'	<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: Vented Sold Used on Lease

METHOD OF COMPLETION Open hole Perf Dually Comp.
 Commingled
 Other (Specify) _____

(If vented, submit ACO-18).

ORIGINAL

DRILLERS LOG

H.S. RESOURCES, INC.
RAUCH #13-4
SECTION 4-T18S-R39W
GREELEY COUNTY, KANSAS

COMMENCED: 05-31-94
COMPLETED: 06-05-94

SURFACE CASING: 387' OF 8 5/8"
CMTD W/260 SX 60/40 POZ, 2% GEL,
3% C.C.

FORMATION	DEPTH
SURFACE HOLE	0- 410
SAND & SHALE	410- 900
SHALE	900-1540
SHALE, SALT & ANHYDRITE	1540-1925
SHALE & SALT	1925-2530
SHALE	2530-3000
SILTSTONE	3000-3033
SHALE	3033-3170 RTD

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

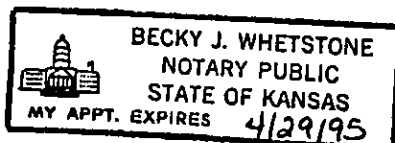
CHEYENNE DRILLING, INC.

Wray Valentine

WRAY VALENTINE

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9TH DAY OF JUNE, 1994


 BECKY J. WHETSTONE
 NOTARY PUBLIC
 STATE OF KANSAS
 MY APPT. EXPIRES 4/29/95

Becky J. Whetstone
 BECKY J. WHETSTONE, NOTARY PUBLIC

RECEIVED
 STATE CORPORATION COMMISSION
 DEC 20 1994
 JERRY WICK

ORIGINAL

INVOICE



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
677537	06/04/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
RAUSCH 13-4		WICHITA		KS	SAME
SERVICE LOCATION	CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL	CHEYENNE		CEMENT PRODUCTION CASING		06/04/1994
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
270972	JOHN LOURY			COMPANY TRUCK	70767

ORIGINAL

ELK EXPLORATION
3939 CARSON AVENUE
EVANS, CO 80620

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				22,353.20
	DISCOUNT-(BID)				6,482.37
	INVOICE BID AMOUNT				15,870.83
	*-KANSAS STATE SALES TAX				633.71
	*-SEWARD COUNTY SALES TAX				129.32
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$16,633.86

941160 222

Eddie Swan

EVN-SSI INPUT JUN 16 1994

EVN-ACCT-REC'D JUN 13 1994

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay all attorney fees of 20% of the unpaid amount plus collection and court costs.

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE				
677539	06/04/1994				
WELL LEAS*NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
RAUSCH 13-4	WICHITA	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL	CHEYENNE	CEMENT PRODUCTION CASING	06/04/1994		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER NO. NUMBER	SHIPPED VIA	FILE
270972	JOHN LOWRY			COMPANY TRUCK	70767

ORIGINAL

ELK EXPLORATION
3939 CARSON AVENUE
EVANS, CO 80620

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	150 MI		2.75	412.50
		1 UNT			
001-016	CEMENTING CASING	3150 FT		1,500.00	1,500.00
		1 UNT			
030-016	CEMENTING PLUG SW ALUM TOP	5 1/2 IN		60.00	60.00
		1 EA			
12A	GUIDE SHOE - 5 1/2" BRD THD.	1 EA		121.00	121.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" BRD	1 EA		110.00	110.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1 EA		55.00	55.00
815.19311					
40	CENTRALIZER-5-1/2 X 8-1/2	10 EA		44.00	440.00
806.60022					
50	CENTRALIZER-TURBO-5-1/2 X 8-1/2	3 EA		63.00	189.00
806.60122					
66	CLAMP-LIMIT-5-1/2 HINGED	4 EA		12.00	48.00
806.72030					
350	HALLIBURTON WELD-A	1 LB		14.50	14.50
870.10802					
018-315	MUD FLUSH	500 GAL		.65	325.00
504-050	CEMENT - PREMIUM PLUS	85 SK		10.36	880.60
504-120	CEMENT - HALL. LIGHT PREM PLUS	800 SK		9.28	7,424.00
507-210	FLOCELE	221 LB		1.65	364.65
507-775	HALAD-322	466 LB		7.00	3,262.00
508-127	CAL SEAL 60	8 SK		25.90	207.20
509-406	ANHYDROUS CALCIUM CHLORIDE	1 SK		36.75	36.75
509-968	SALT	12670 LB		.15	1,900.50
500-207	BULK SERVICE CHARGE	1093 CFT		1.35	1,475.55
500-306	MILEAGE CMTG MAT DEL OR RETURN	3712.575 TMI		.95	3,526.95

***** CONTINUED ON NEXT PAGE *****

STATE CORPORATION COMMISSION

JAN 05 1995

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