

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

API NO. 15- 141-203370000 **ORIGINAL**

County Osborne

-NW WNW - SE Sec. 27 Twp. 8S Rge. 12W X ^E _W

2300 Feet from (S)N (circle one) Line of Section

2300 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 Schweitzer Well # 1

Field Name _____

Producing Formation None

Elevation: Ground 1647' KB 1652'

Total Depth 3895' PBTD _____

Amount of Surface Pipe Set and Cemented at 207' Feet

Multiple Stage Cementing Collar Used? _____ Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan DAA JZ 8-20-97
(Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume 380 bbls

Dewatering method used Left to dry

Location of fluid disposal if hauled offsite: _____

Operator Name 7-7-97

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 9860

Name: Castle Resources, Inc.

Address 1200 E. 27th. St., Suite C

City/State/Zip Hays, Kansas 67601

Purchaser: _____

Operator Contact Person: Jerry Green

Phone (913) 625-5155

Contractor: Name: Vonfeldt Drilling, Inc.

License: 9431

Wellsite Geologist: Jerry Green

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: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

5-13-97 5-19-97 6-4-97
Spud Date Date Reached TD Completion Date

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 Jerry Green
Title President Date 6-23-97

Subscribed and sworn to before me this 23rd day of June, 19 97.

Notary Public Katherine Bray
Date Commission Expires 6-19-2000

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)

KATHERINE BRAY
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 6-19-2000

Operator Castle Resources Inc. Lease Name Schweitzer Well # 1
 Sec. 27 Twp. 8S Rge. 12 East West
 County Osborne

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 <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>780</td> <td>-811</td> </tr> <tr> <td>Heebner</td> <td>2827</td> <td>-1175</td> </tr> <tr> <td>Base-KC</td> <td>3200</td> <td>-1548</td> </tr> <tr> <td>Mississippi</td> <td>3530</td> <td>-1878</td> </tr> <tr> <td>Viola</td> <td>3775</td> <td>-2123</td> </tr> <tr> <td>Lansing-KC</td> <td>2886</td> <td>-1234</td> </tr> <tr> <td>Conglomerate</td> <td>3460</td> <td>-1808</td> </tr> <tr> <td>Maquoketa</td> <td>3700</td> <td>-2048</td> </tr> <tr> <td>RTD</td> <td>3894</td> <td>-2242</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	780	-811	Heebner	2827	-1175	Base-KC	3200	-1548	Mississippi	3530	-1878	Viola	3775	-2123	Lansing-KC	2886	-1234	Conglomerate	3460	-1808	Maquoketa	3700	-2048	RTD	3894	-2242
Name	Top		Datum																													
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Conglomerate	3460	-1808																														
Maquoketa	3700	-2048																														
RTD	3894	-2242																														
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 (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
List All E.Logs Run: Dst #1 2864-2940																																

CASING RECORD <input type="checkbox"/> New <input checked="" 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 pipe	12 1/4	8 5/8	20#, 23# 25#	207'	60/40poz	140	2%gel 3%cc
long string	7 7/8	4 1/2	11.5#	3026'	common	75	E A 2

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" 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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	2918-20	2500 gallons

TUBING RECORD		Size	Set At	N/A	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD 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		
	Dry						

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: Dry

COPY

DRILLERS WELL LOG

ORIGINAL

Date Commenced: May 13, 1997
Date Completed: May 19, 1997

Castle Resources, Inc.
Schweitzer #1
NW NW SE Sec. 27-8S-12W
Osborne County, Kansas

ELEVATION: 1647' G.L.
1652' K.B.

0 - 305' Sand & Shale
305 - 1085' Shale & Lime
1085 - 2485' Lime & Shale
2485 - 2720' Shale & Lime
2720 - 3895' Lime & Shale
3895' R.T.D.

15-141-20337

FORMATION DATA

Anhydrite 784'
Base Anhydrite 810'
TIGHT HOLE

Surface Pipe: Set 20#, 23# & 25#,
used, 8 5/8" casing @ 207' with
140 sacks 60/40 Poz., 2% Gel., 3%
CC.

Production Pipe: Set 11 1/2#, used,
4 1/2" casing @ 3026' with 50
sacks 50/50 Poz., 2% Gel, 1/4#
flocele per sack, 18% Salt & 60
sacks EA/2, 5% Cal Seal, .75%
Halad 322, 18% Salt, 14# flocele
per sack.

1997 JUL -7 2
KANSAS
CORP

JOB LOG 4239-5

TICKET #	117207	TICKET DATE	5-17-17
BDA / STATE	Mississ	COUNTY	Ashtabula
PSL DEPARTMENT		CUSTOMER REP / PHONE	
API / UWI #	17-1412-3370010	JOB PURPOSE CODE	035

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #		EMPLOYEE NAME	
LOCATION		COMPANY	
TICKET AMOUNT		WELL TYPE	
WELL LOCATION		DEPARTMENT	
LEASE / WELL #		SEC / TWP / RNG	

ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
								called out to cmt 4 1/2" 11.6" csg w/ 20SKS
								50/50p2 200gpm 18% salt 1/2" float 25 for Rot
								Mouse hole 50SKS EA-2 18% salt 5% col sand
								20% AA-32 1/2" float 20 bbl
								clo fix work ahead & 250gal mud flush
	1730							On loc, Rig crew Laying down DP
	1800							DP. Layed down Rig up to run 4 1/2" csg
								Csg on loc, un load & tology
	1902							St. csg 96SKS 4 1/2" 11.6" csg cont 1-3-5 th collars
								GuidShoe on 1st st of Auto Fill
	1915							TRKS on loc, safety meeting, set up equip
	2020							Drop Doll to knock out Auto fill tube
	2025							Csg to 3030' KB TD 3890'
	2030							Hook up to csg, & establish circulation
	2035							Had cir, rotate pipe
	2050							Shut down & hook up to pump & VK
	2052		20					Pump 20 bbl 2% KCL water w/ 1SK desco
	2056		2					Spacer (2 bbl)
	2059		6					Pump 250 gal mud flush
	2103		3					Spacer (3 bbl)
	2108		2					pump 2 bbl cmt to fill lines, shut in & plug
								Rot & mouse hole w/ 50SKS p2 (25SKS)
	2112		6					Rot & mouse hole plug 25SKS
	2113	6						200 st. Down hole w/ 25SKS 50/50 & 50SKS EA2
								of Rotate pipe
	2120	5	21					cmt mixed, wash pump & line out
	2123	8						200 Rot plug & st. displ Rotate pipe for 43 bbl disp
	2130	3	47					1200 Log @ 3010' KB
	2135							Rel' mass, float held
	2150							Wash & rock up equip.
	2255							finish paper work
	2250							Job complete
								Thank you

RECEIVED
MARSIS COMP GAIN
MAY 17 2017

15-141-20337-00-00

JOB SUMMARY 4239-1

TICKET #	197207	TICKET DATE	5-19-97
BDA / STATE	Moys, KS	COUNTY	Osborne Co, KS
PSL DEPARTMENT	ORIGINAL		
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	Mid con USA
MBU ID / EMP #	NA 0503 - 59734	EMPLOYEE NAME	K. Richmeier
LOCATION	Moys, KS	COMPANY	Castle Resources
TICKET AMOUNT		WELL TYPE	01
WELL LOCATION	14N 2 1/2 E Luroy, KS	DEPARTMENT	5001
LEASE / WELL #	Schweitzer #1	SEC / TWP / RNG	27-8-12W

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
K. Richmeier # 59734							
J. Becker # 43222							
L. Lecker # H-6872							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
40091 - Pk	120						
53892 Cmt Road	120						
38600 Cmt Bank	120						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth **3875'**

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	5-19-97	5-19	5-19	5-19-97
TIME	1540	1730	1900	1045

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 4 1/2 4 1/2	1	Howco
Float Shoe 4 1/2 4 1/2	1	
Guide Shoe 4 1/2 4 1/2	1	
Centralizers 5-4 9 1/2	3	
Bottom Plug		
Top Plug 5W - 4 1/2	1	
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	11.6	4 1/2	KB-5	3036	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-19	5	5-19	5	Cmt 4 1/2" Long string w/ 23 SKS STD 4503KS FAL w/ 2000h KCLWID 415K 0250 2250 901 mud flush Rt end of cmt
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	Reason	

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	50	50	FA-2	2% 90/18% salt + # 5/0c ch/SK	1775	12.79
	50	EA-2	B	18% salt + 5% col seal 2% Na-372	1036	15.49

Circulating Breakdown	Displacement Maximum	Preflush:	Gal - BBI	Type
Average	Frac Gradient	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	5 Min	Treatment	Gal - BBI	Disp: BBI - Gal
	15 Min	Cement Slurr	Gal - BBI	47
		Total Volume	Gal - BBI	7.80 bbl - 1434 bbl



HALLIBURTON ENERGY SERVICES
HAL-1906-P

CHARGE TO: Castle Ros
ADDRESS: RECEIVED KANSAS CORP CONTR
CITY, STATE ZIP CODE: Hays KS

CUSTOMER COPY

TICKET

No.

197207 - X

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Hays, KS 25525
WELL/PROJECT NO.: 1
LEASE: Schweitzer
COUNTY/PARISH: OSBORNE
STATE: KS
CITY/OFFSHORE LOCATION: Loc NE Luroy KS
DATE: 5-19-97
OWNER: Same
TICKET TYPE: SERVICE SALES
NITROGEN JOB? YES NO
CONTRACTOR: VanFude Dng
RIG NAME/NO.: #1
SHIPPED VIA: LT
DELIVERED TO: Loc NE Luroy KS
WELL TYPE: X
WELL CATEGORY: 01
JOB PURPOSE: 035
WELL PERMIT NO.: 15-141-120-3370000
WELL LOCATION: 14 N 2 1/2 E Luroy KS
REFERRAL LOCATION: 01
INVOICE INSTRUCTIONS: 01

15-141-20337-00-00

ORIGINAL

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE #53292	120	mi		BT	3.20	384.00
001-616					Pump chg	3030	FT			1730.00	1730.00
030-016					500 plug	1	ea	4 1/2	M	50.00	50.00
018-303					clo fix II	2	gal			30.50	61.00
018-315					mud flush	250	gal			.75	187.50
019-241					CSAG swivel	1	ea			300.00	300.00
12A	825.201				Guide shoe	1	ea	4 1/2	IN	95.00	95.00
40	806.60004				con + ralizers	3	ea		"	56.00	168.00
24A	815.19101				insert float valve	1	ea		"	100.00	100.00
27	815.19113				Fill up unit	1	ea		"	52.00	52.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

Darryl Kries
DATE SIGNED: 5-19-97 TIME SIGNED: 1855
 A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
BEAN SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?				FROM CONTINUATION PAGE(S) <u>220226</u>
TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
TREE CONNECTION	TYPE VALVE	WE OPERATED THE EQUIPMENT AND PERFORMED THE JOB CALCULATIONS SATISFACTORILY?				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Darryl Kries</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X Darryl Kries</u>	HALLIBURTON OPERATOR/ENGINEER <u>Ken R. [Signature]</u>	EMP # <u>5734</u>	HALLIBURTON APPROVAL
--	---	--	----------------------	----------------------

ALLIED CEMENTING CO., INC.

8366

Federal Tax I.D.#

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

SERVICE POINT: K

15-141-20337-00-00

DATE <u>5-13-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Schwitzer</u>	WELL # <u>1</u>		LOCATION <u>Lacey 14N 2 1/2E 1/4N</u>		<u>6:00pm</u>	<u>8:45</u>	
OLD OR NEW (Circle one)			COUNTY	STATE			
			<u>Osborne</u>	<u>Ks</u>			

CONTRACTOR Vonfeldt Duly

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. ZID

CASING SIZE 8 3/8 DEPTH 207 202325'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 12 1/4

OWNER _____

CEMENT AMOUNT ORDERED 140 60/40 390cc 290 gal

ORIGINAL

EQUIPMENT

PUMP TRUCK CEMENTER Mark

153 HELPER Frank

BULK TRUCK DRIVER Mark

160 DRIVER _____

BULK TRUCK DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

SERVICE

Cement Cure

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 8 3/8 wooden _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Castle Resources

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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 _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Darryl Fowler

PRINTED NAME _____

RECEIVED
 KANSAS CEMENT CO. INC.
 MAY 17 1997

ALLIED CEMENTING CO., INC. 5478

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

SERVICE POINT: Russell

15-141-20337-00-00

DATE <u>6-4-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>6:45 AM</u>
LEASES <u>Schweitzer</u>		WELL # <u>1</u>	LOCATION <u>Lunay 14N 2E 2N</u>		COUNTY <u>Osborne</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

ORIGINAL

CONTRACTOR Pauls Wellser
 TYPE OF JOB Plug
 HOLE SIZE _____ T.D. _____
 CASING SIZE 4 1/2 DEPTH 2502
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 150 ⁶⁰/₄₀ 6 label
2 1/2 Hulls used 120 SKs

COMMON	72 @	6.10	439.20
POZMIX	48 @	3.15	151.20
GEL	6 @	9.50	57.00
CHLORIDE	@		
<u>Hulls</u>	<u>2 1/2 @</u>	<u>1550</u>	<u>38.75</u>
	@		
	@		
	@		
	@		
HANDLING	@	105	157.50
MILEAGE <u>39m</u>	@	04	234.00

EQUIPMENT

PUMP TRUCK CEMENTER McAdoo
 # 177 HELPER Glen
 BULK TRUCK
 # 282 DRIVER Matt
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

SERVICE

Mixed 25 SKs cement with 1 Hull
Dis Placed To 2600'
Mixed 40 SKs with 1 Hull at 850'
30 SKs with 1 Hull at 550'
25 SKs at 150'
~~Top off with~~
Cement Did Cir.

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 430.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 39m @ 2.85 111.15
 PLUG _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL 541.15

CHARGE TO: Castle Res.
 STREET 1200 E. 27th # C
 CITY Lawrence STATE Kansas ZIP 67601

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 _____

RECEIVED
 KANSAS OFFICE
 JUN -7 P 1997

ORIGINAL

15-141-20337

WELL NAME: Schweitzer #1
COMPANY: Castle Resources, Inc.
LOCATION: 27-8S-12W
Osborne County Kansas
DATE: 05/19/97

15-141-20337-00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources, Inc.
WELL NAME: Schweitzer #1
LOCATION : 27-8-12-Osborne
INTERVAL : 2864.00 To 2940.00 ft

DATE 5-17-97

KB 0.00 ft TICKET NO: 10155 DST #1
GR 0.00 ft FORMATION: Lansing KC 'B'
TD 2940.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
45	Rec.	13754	13754	2357			PF Fr. 0345 to 0430 hr
30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0430 to 0500 hr
45	Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 0500 to 0545 hr
30	Depth(ft)	2937.0	2937.0	2867.0	0.0	0.0	FS Fr. 0545 to 0615 hr

	Field	1	2	3	4	
A. Init Hydro	1356.0	1365.0	1365.0	0.0	0.0	T STARTED 0140 hr
B. First Flow	39.0	51.0	17.0	0.0	0.0	T ON BOTM 0340 hr
C. Final Flow	49.0	52.0	37.0	0.0	0.0	T OPEN 0345 hr
D. In Shut-in	1086.0	1079.0	1091.0	0.0	0.0	T PULLED 0615 hr
E. Init Flow	68.0	74.0	39.0	0.0	0.0	T OUT 0800 hr
F. Final Flow	78.0	75.0	54.0	0.0	0.0	
G. Fl Shut-in	1056.0	1052.0	1065.0	0.0	0.0	
H. Final Hydro	1336.0	1305.0	1297.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	1500.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	21000.00 lbs
Unseated Str Wt	21000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	2871.00 ft

RECOVERY

Not Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP
90.00 ft of Drilling Mud w/ oil spots in tool
.00 ft of
.00 ft of
J.00 ft of
0.00 ft of
.00 ft of
.00 ft of
0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/cf
Vis.	40.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Blow-Weak steady surface blow

Final Blow-Weak steady surface blow

Amt. of fill	0.00 ft
Btm. H. Temp.	95.00 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Vonfeldt
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

15-141-20337-00-00

*** TOOL DIAGRAM *** CONV

WELL NAME: Schweitzer #1
 LOCATION : 27-8-12-Osborne
 TICKET No. 10155 D.S.T. No. 1 DATE 5-17-97
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 20
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 14
 TOTAL TOOL 34
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands 1 Single Total 62
 TOTAL ASSEMBLY 96
 D.C. ABOVE TOOLS.Stands Single Total
 D.P. ABOVE TOOLS.Stands 40 Single Total 2871
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2967
 TOTAL DEPTH 2940
 TOTAL DRILL PIPE ABOVE K.B. 27
 REMARKS:

P.O. SUB	
C.O. SUB	2844
S.I. TOOL Sterling	2850
HMV Sterling	2855
JARS n/a	
SAFETY JOINT n/a	
PACKER	2859
PACKER	2864
DEPTH 2864	
STUBB 1'	2865
ANCHOR 1' Perfs	2866
1' Co Sub	2867
Alpine Rec @ 2867	
T.C.	
DEPTH	
1 Std Dp 62'	2929
1' Co Sub	2930
5' Perfs	2935
AK-1 Rec @ 2937	
BULLNOSE 5' Bullplug	2940
T.D.	

15-141-20337-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10155 DST# 1 Schweitzer #1 Castle Res

DATE: 05/17/97

TIME: 01:40:31

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	121.00	1365.1	0.0	92.28		
***** Start Flow 1	0.00	17.4	0.0	92.41		
	1.00	18.6	1.2	92.45		
	2.00	19.2	1.8	92.47		
	3.00	19.5	2.1	92.46		
	4.00	20.1	2.7	92.46		
	5.00	20.5	3.0	92.46		
	6.00	20.9	3.4	92.45		
	7.00	21.2	3.8	92.44		
	8.00	21.9	4.4	92.44		
	9.00	22.1	4.7	92.45		
	10.00	22.7	5.2	92.44		
	11.00	23.1	5.6	92.45		
	12.00	23.5	6.0	92.46		
	13.00	24.0	6.5	92.46		
	14.00	24.2	6.7	92.47		
	15.00	24.8	7.3	92.48		
	16.00	25.0	7.6	92.49		
	17.00	25.6	8.1	92.51		
	18.00	25.8	8.4	92.52		
	19.00	26.1	8.6	92.53		
	20.00	26.5	9.1	92.54		
	21.00	26.9	9.5	92.56		
	22.00	27.3	9.8	92.57		
	23.00	27.8	10.3	92.58		
	24.00	27.9	10.5	92.60		
	25.00	28.4	10.9	92.62		
	26.00	28.6	11.2	92.63		
	27.00	29.0	11.6	92.64		
	28.00	29.3	11.8	92.67		
	29.00	29.9	12.4	92.68		
	30.00	30.1	12.7	92.69		
	31.00	30.3	12.8	92.71		
	32.00	30.8	13.3	92.71		
	33.00	31.3	13.8	92.73		
	34.00	31.7	14.3	92.74		
	35.00	32.3	14.9	92.76		
	36.00	32.8	15.4	92.77		
	37.00	33.4	15.9	92.79		
	38.00	33.8	16.4	92.80		
	39.00	34.2	16.8	92.81		
	40.00	34.5	17.0	92.82		
	41.00	34.7	17.3	92.83		
	42.00	35.2	17.7	92.85		
	43.00	35.3	17.9	92.86		
	44.00	35.7	18.2	92.88		
	45.00	35.7	18.3	92.89		
	46.00	36.0	18.5	92.90		
	47.00	36.2	18.8	92.91		
***** End Flow 1	48.00	36.7	19.2	92.93		
***** Start Shutin 1	0.00	36.7	0.0	92.93	0.0000	0.001

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10155 DST# 1 Schweitzer #1 Castle Res

DATE: 05/17/97

TIME: 01:40:31

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	1.00	58.8	22.2	92.94	49.0000	0.003
	2.00	170.2	133.5	92.96	25.0000	0.029
	3.00	415.6	378.9	92.98	17.0000	0.173
	4.00	622.1	585.5	93.02	13.0000	0.387
	5.00	749.0	712.3	93.06	10.6000	0.561
	6.00	827.6	790.9	93.09	9.0000	0.685
	7.00	878.4	841.7	93.13	7.8571	0.772
	8.00	915.4	878.7	93.17	7.0000	0.838
	9.00	942.8	906.1	93.23	6.3333	0.889
	10.00	964.2	927.5	93.23	5.8000	0.930
	11.00	981.4	944.7	93.27	5.3636	0.963
	12.00	995.6	959.0	93.29	5.0000	0.991
	13.00	1007.7	971.0	93.31	4.6923	1.015
	14.00	1018.3	981.6	93.34	4.4286	1.037
	15.00	1027.4	990.8	93.35	4.2000	1.056
	16.00	1035.7	999.1	93.38	4.0000	1.073
	17.00	1043.0	1006.4	93.40	3.8235	1.088
	18.00	1049.7	1013.0	93.42	3.6667	1.102
	19.00	1055.9	1019.2	93.44	3.5263	1.115
	20.00	1061.3	1024.7	93.51	3.4000	1.126
	21.00	1066.5	1029.9	93.47	3.2857	1.138
	22.00	1071.3	1034.7	93.49	3.1818	1.148
	23.00	1075.7	1039.0	93.49	3.0870	1.157
	24.00	1079.9	1043.2	93.52	3.0000	1.166
	25.00	1083.7	1047.0	93.53	2.9200	1.174
	26.00	1087.3	1050.6	93.54	2.8462	1.182
***** End Shut-in 1	27.00	1090.5	1053.9	93.54	2.7778	1.189
***** Start Flow 2	0.00	38.7	0.0	93.51		
	1.00	39.2	0.5	93.49		
	2.00	39.3	0.6	93.47		
	3.00	39.4	0.8	93.45		
	4.00	39.9	1.2	93.43		
	5.00	40.2	1.5	93.41		
	6.00	40.5	1.8	93.39		
	7.00	41.1	2.4	93.39		
	8.00	41.5	2.8	93.38		
	9.00	41.8	3.1	93.37		
	10.00	42.1	3.4	93.38		
	11.00	42.5	3.9	93.38		
	12.00	42.7	4.0	93.38		
	13.00	43.2	4.5	93.38		
	14.00	43.6	5.0	93.39		
	15.00	44.0	5.3	93.40		
	16.00	44.6	6.0	93.40		
	17.00	44.8	6.1	93.41		
	18.00	45.1	6.5	93.41		
	19.00	45.5	6.8	93.42		
	20.00	46.1	7.4	93.42		
	21.00	46.2	7.6	93.44		
	22.00	46.6	7.9	93.45		
	23.00	46.9	8.2	93.45		

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10155 DST# 1 Schweitzer #1 Castle Res
 DATE: 05/17/97 TIME: 01:40:31

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
24.00	47.2	8.6	93.46		
25.00	47.5	8.8	93.47		
26.00	47.7	9.1	93.48		
27.00	48.0	9.3	93.49		
28.00	48.7	10	93.50		
29.00	48.8	10.2	93.51		
30.00	49.1	10.4	93.51		
31.00	49.3	10.7	93.53		
32.00	49.8	11.1	93.53		
33.00	50.0	11.3	93.54		
34.00	50.5	11.8	93.55		
35.00	50.7	12.0	93.56		
36.00	51.0	12.3	93.57		
37.00	51.3	12.6	93.58		
38.00	51.7	13.0	93.59		
39.00	52.0	13.3	93.61		
40.00	52.2	13.5	93.61		
41.00	52.6	13.9	93.62		
42.00	52.9	14.2	93.63		
43.00	53.1	14.4	93.64		
44.00	53.5	14.9	93.65		
45.00	53.7	15.0	93.66		
***** End Flow 2					
***** Start Shutin 2	0.00	53.7	0.0	93.66	0.0000 0.003
	1.00	67.8	14.1	93.68	94.0000 0.005
	2.00	127.7	74.0	93.69	47.5000 0.016
	3.00	264.3	210.6	93.71	32.0000 0.070
	4.00	465.0	411.2	93.74	24.2500 0.216
	5.00	630.1	576.4	93.77	19.6000 0.397
	6.00	738.5	684.8	93.80	16.5000 0.545
	7.00	808.6	754.8	93.83	14.2857 0.654
	8.00	855.9	802.2	93.87	12.6250 0.733
	9.00	889.8	836.1	93.90	11.3333 0.792
	10.00	915.2	861.5	93.94	10.3000 0.838
	11.00	935.1	881.4	93.97	9.4545 0.874
	12.00	951.6	897.9	93.99	8.7500 0.906
	13.00	965.2	911.5	94.03	8.1538 0.932
	14.00	977.1	923.4	94.05	7.6429 0.955
	15.00	987.2	933.4	94.08	7.2000 0.974
	16.00	996.1	942.4	94.10	6.8125 0.992
	17.00	1004.2	950.5	94.12	6.4706 1.008
	18.00	1011.4	957.7	94.14	6.1667 1.023
	19.00	1017.9	964.2	94.15	5.8947 1.036
	20.00	1024.1	970.4	94.17	5.6500 1.049
	21.00	1029.5	975.8	94.19	5.4286 1.060
	22.00	1034.6	980.9	94.20	5.2273 1.070
	23.00	1039.3	985.6	94.22	5.0435 1.080
	24.00	1043.7	990.0	94.23	4.8750 1.089
	25.00	1047.8	994.1	94.25	4.7200 1.098
	26.00	1051.8	998.1	94.26	4.5769 1.106
	27.00	1055.6	1001.9	94.28	4.4444 1.114
	28.00	1059.1	1005.4	94.28	4.3214 1.122

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10155 DST# 1 Schweitzer #1 Castle Res

DATE: 05/17/97 TIME: 01:40:31

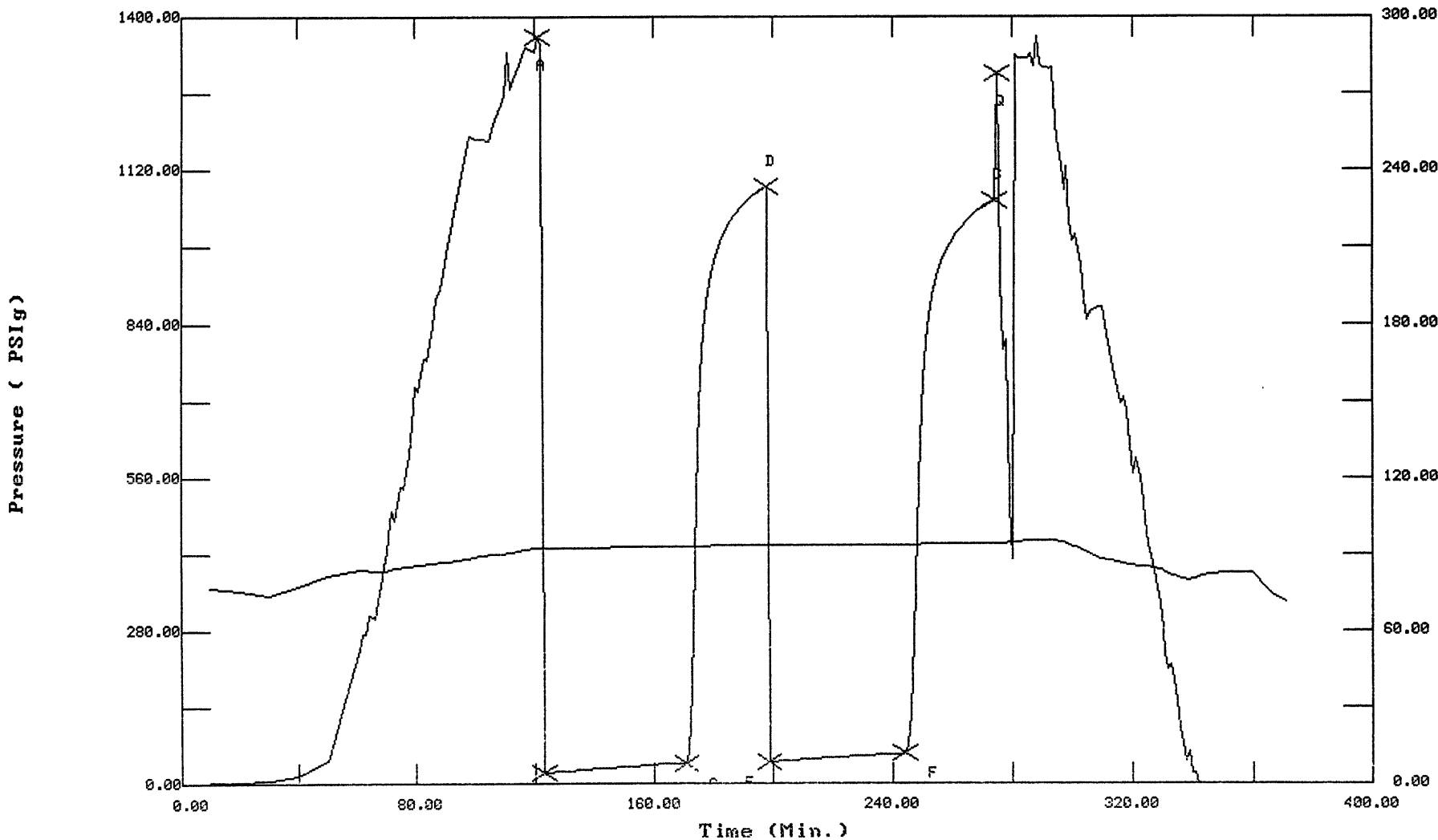
	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
**** End Shut-in 2	29.00	1062.4	1008.7	94.30	4.2069	1.129
	30.00	1065.5	1011.8	94.32	4.1000	1.135
**** Final Hydro.	275.00	1296.8	0.0	94.33		

TEST HISTORY

Tk# 10155 DST# 1 Schweitzer #1 Castle Res

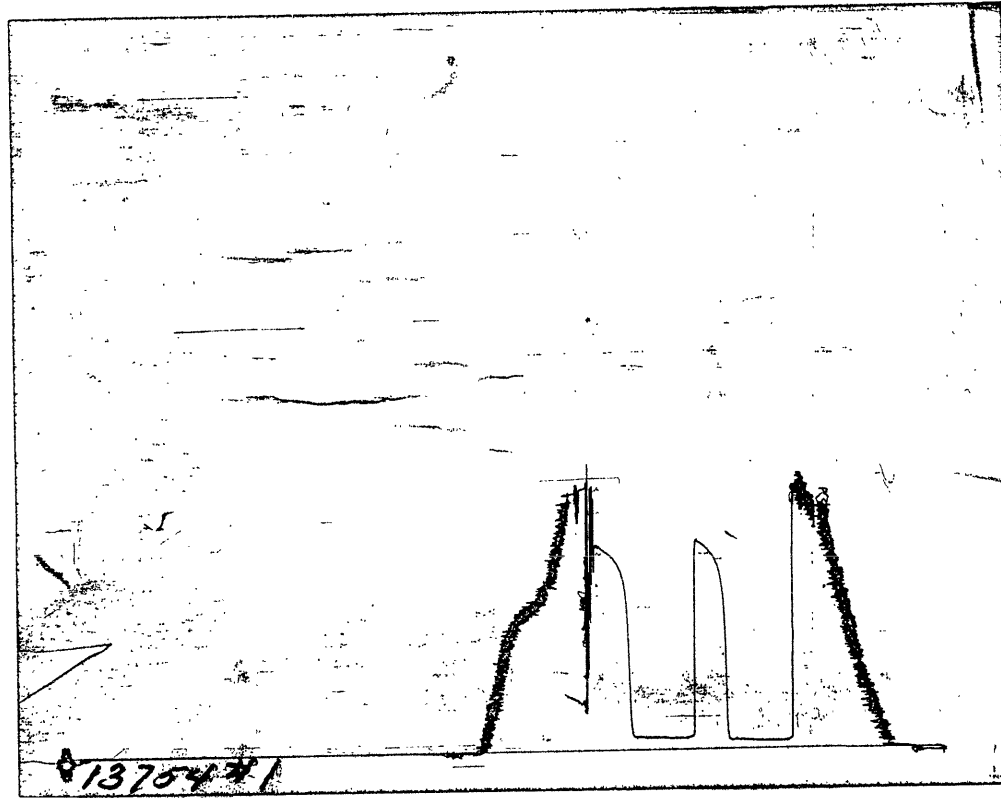
Flag Points

t (Min.)	P (PSig)
A: 0.00	1365.08
B: 0.00	17.45
C: 48.00	36.67
D: 27.00	1090.55
E: 0.00	38.68
F: 45.00	53.71
G: 30.00	1065.46
Q: 0.00	1296.76



15-141-20337-00-00
Temperature (DEG F)

CHART PAGE



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

15-141-20337-20-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-141-20337-00-00

Test Ticket

Nº 10155

Well Name & No. <u>Schweitzer #1</u>	Test No. <u>1</u>	Date <u>5-17-97</u>
Company <u>Castle Res, Inc</u>	Zone Tested <u>'B'</u>	<u>LKC</u>
Address <u>1200 E. 27th St C, Hays, Ks. 67601</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Jerry Green</u>	Cont. <u>Konfeldt #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>27</u>	Twp. <u>8</u>	Rge. <u>12</u> Co. <u>Osborne</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>2864-2940</u>	Initial Str Wt./Lbs. <u>21,000</u>	Unseated Str Wt./Lbs. <u>21,000</u>
Anchor Length <u>76</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>2859</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>2864</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>2940</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>8.8</u> LCM _____	Vis. <u>40</u> WL <u>12</u>	Drill Pipe Size <u>4.5 X H</u> Ft. Run <u>2871</u>
Blow Description <u>I.F. Weak steady surface blow.</u>		

F.F. Weak steady surface blow.

Recovery — Total Feet <u>90</u>	GIP _____	Ft. in DC _____	Ft. in DP <u>90</u>
Rec. <u>90</u> Feet Of <u>D.M w/oil spots</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of <u>in Tool</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT <u>95</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery Chlorides <u>4,000</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>1356</u> <u>1365</u> PSI	Recorder No. <u>2357</u>	T-Started <u>01:40</u>	
(B) First Initial Flow Pressure <u>39</u> <u>17</u> PSI	(depth) <u>2867</u>	T-Open <u>03:45</u>	
(C) First Final Flow Pressure <u>49</u> <u>37</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>06:15</u>	
(D) Initial Shut-in Pressure <u>1086</u> <u>1091</u> PSI	(depth) <u>2937</u>	T-Out <u>08:00</u>	
(E) Second Initial Flow Pressure <u>68</u> <u>39</u> PSI	Recorder No. _____		
(F) Second Final Flow Pressure <u>78</u> <u>54</u> PSI	(depth) _____		
(G) Final Shut-in Pressure <u>1056</u> <u>1065</u> PSI	Initial Opening <u>45</u>	Test _____	
(H) Final Hydrostatic Mud <u>1336</u> <u>1332</u> PSI	Initial Shut-in <u>30</u>	Jars _____	
<u>AK-1 Alpine</u>	Final Flow <u>45</u>	Safety Joint _____	
	Final Shut-in <u>30</u>	Straddle _____	

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Approved By _____
 Our Representative Dan Bangle

Extra Packer _____
 Elect. Rec. X
 Other _____
 TOTAL PRICE \$ _____