



JAN 1970

SIDE TWO

Operator Name American Warrior, IncLease Name Wells Well # 1-23☐ EastCounty NessSec. 23 Twp. 18S Rge. 21 ☒ West

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 ☒ NoCores Taken ☐ Yes ☒ NoElectric Log Run  
(Submit Copy.) ☒ Yes ☐ NoList All E.Logs Run: Dual Induction, Dual  
Compensated Porosity☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Anhydrite	1342	+791
Chase	2208	- 75

## 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 Pipe	12 $\frac{1}{4}$	8 5/8	20	226.90	60/40 Poz	150	2% Gel & 3% CC
Production St.	7 7/8	4 $\frac{1}{2}$	9.5	2317	SMDC	235	

## 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
4	2269-2274	500g=20% DSFE/3000g 20% reg		2269-74
4	2212-2218	500g 20% DSFE/3000g 20% reg		2212±18
TUBING RECORD		Size	Set At	Packer At
		2 3/8	2305	
		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SMD or Inj.		Producing Method <input checked="" type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf
				250
			Water	Bbls.
				60
			Gas-Oil Ratio	Gravity

Disposition of Gas: METHOD OF COMPLETION

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

 Production Interval  
☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled 2212-18  
☐ Other (Specify) 2269-74

ORIGINAL

**SCOTT CORSAIR**

**PETROLEUM GEOLOGIST**

**KANSAS LICENSE NO. 55**

210 Avenue A P.O. Box 6

Bazine, Ks 67516

785-398-2270 Mobile 785-731-5060

FAX 785-398-2586

**RECEIVED**

KANSAS CORPORATION COMMISSION

NOV 22 1999

CONSERVATION DIVISION  
WICHITA, KS

**GEOLOGICAL REPORT**

**AMERICAN WARRIOR, INC.**

WELLS #1-23

2474' FNL & 2109' FWL

Section 23-18S-21W

Ness County, Kansas

OPERATOR: AMERICAN WARRIOR, INC.

ORIGINAL

WELL: WELLS NO. 1-23

API NO.: 15-135-24079

LOCATION: 2474' FNL & 2109' FWL, SEC. 23-18S-21W

WELLSITE: FARMGROUND

RECEIVED  
KANSAS CORPORATION COMMISSION

COMMENCED: AUGUST 25, 1999

COMPLETED: AUGUST 27, 1999

NOV 22 1999

ELEVATIONS: 2125' GL ; 2133' KB

CONSERVATION DIVISION  
WICHITA, KS

TOTAL DEPTH: 2318' (DRILLER); 2316 (LOGGER)

CASING: SURFACE: 8 5/8 @ 227' W/150 SKS  
PRODUCTION: 4 1/2 @ 2317' W/235 SKS

SAMPLES: NONE

LOGS: DUAL INDUCTION, DUAL COMPENSATED  
POROSITY, BY LOG-TECH

DRILLSTEM TESTS: NONE

CONTRACTOR: DISCOVERY DRILLING (RIG 2)

REMARKS: Geological supervision: 2100' - T.D.

FORMATION TOPS	ELECTRICAL LOG SUBSEA		SAMPLES SUBSEA
Anhydrite	1342	+791	
Chase	2208	- 75	

## SUMMARY AND RECOMMENDATIONS

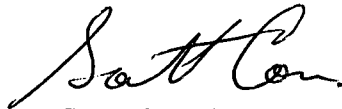
This well was drilled as a Chase gas well. No samples were examined. Log analysis and structural position indicate probable commercial gas production from the Chase. Based upon available data 4 1/2" production casing was set.

Pipe was set 1 foot off bottom @ 2317'. The following zones are recommended for testing.

1. Chase 2268-2274
2. Chase 2212-2218

Measurements were taken from rotary kelly bushing ( 8 feet above ground level).  
Logger's measurements are taken as correct.

Respectfully,

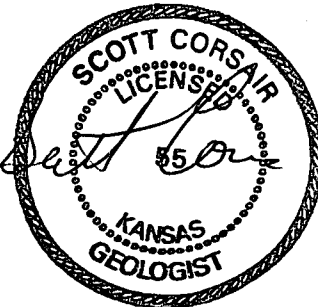


Scott Corsair  
Petroleum Geologist

RECEIVED  
KANSAS CORPORATION COMMISSION

NOV 22 1999

CONSERVATION DIVISION  
WICHITA, KS



*Thank You!*



# JOB LOG

# SWIFT Services, Inc.

DATE 8-28-99 PAGE NO.

CUSTOMER American Water WELL NO. 1-23 LEASE Wells JOB TYPE Long String TICKET NO. 1450

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	10:30							on loc.
								Rig laying down Drill pipe
	11:30							Start in hole with 4 1/2 Cg
								Circle shoe + insert float valve
								Cont. on Cella "1, "2, "3, "4, "5, "24
								Re-set on "6, "25
	12:25							Deep Bed
	12:30							Cg on Bottom Round Circulator
	12:50	5	12					Pump 500 gal Mud Flo.
		5	20					Pump 20' Sal. Flo.
	1300							Plug Ret Hole
	1305	6	130					Start Mixing 235K SMDC 11.2 PRG.
			18					Mix 655K SMDC 14.0 PRG.
								Potential Cg During Mixing
	1343							Finished mixing
								use to cut Pump + line
								Return Top Plug
	1345	5						Depth Plug 36 1/2'
	13:53							Plug down 1100ft
								Return from Floor hold
								Circulated 7' cont to Pit ✓
								water + Red is there
								Is Complete

*[Handwritten signature]*



PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <i>W. C. C. Co.</i>	<i>1-23</i>	<i>W/C</i>	<i>N.</i>	<i>K.</i>		<i>8-25-99</i>	<i>Same</i>
2.	TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	<input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	<i>D. C. C. Co.</i>		<i>411</i>	<i>See below</i>		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	<i>C.</i>	<i>D. C. C. Co.</i>	<i>Cont. Signature Cg.</i>		<i>See 23-185-71w</i>		
	INVOICE INSTRUCTIONS						

[illegible]

**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**

X  
DATE SIGNED

TIME SIGNED

☐ A.M.  
☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

SURVEY		AGREE	UN- DECIDED	DIS- AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					PAGE TOTAL	1,640 56
WE UNDERSTOOD AND MET YOUR NEEDS?					TAX	ORIGINAL
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					TOTAL	
ARE YOU SATISFIED WITH OUR SERVICE?						
<input type="checkbox"/> YES <input type="checkbox"/> NO						
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

ORIGINAL

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

Thank You!

**CUSTOMER**

LEASE

DATE	8-25-77	PAGE NO	1
------	---------	---------	---

**CUSTOMER**

WELL NO.

LEASE

**JOB TYPE**

TICKET NO

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBU) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							Og Loc.
	2000							Ry Pulling Start 8 <sup>th</sup> Cj. in hole
	2030							Cj. on Bottom Band Cracks
	2035							Mix 150 lb. 640 / 2700 37cc
	2050		34					F. Volving R.L. Hrg
			133					Dipht. 138'
	2100							Play down Cj. on wpt 9"
								Wt. L. & D. 2' over
								3-8 Con. Log
								RECEIVED
								NOV 22 1994
								L. J. PATEL, SPEECH
								Handwritten signature and date 11/21/94