

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

ORIGINAL

Operator: License # 4058

Name: American Warrior, Inc.

Address P. O. Box 399

Garden City, KS 67846

City/State/Zip \_\_\_\_\_

Purchaser: Koch

Operator Contact Person: Scott Corsair

Phone ( 785 ) 398-2270

Contractor: Name: Discovery Drilling, Inc.

License: 31548

Wellsite Geologist: Scott Corsair

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  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  PBSD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

9-8-97 9-17-97 1-9-1998  
Spud Date Date Reached TD Completion Date

API NO. 15- 135-24027 0000

County Ness

100' NE of C SE Sec. 33 Twp. 18s Rge. 21  E  W

1450 Feet from  N (circle one) Line of Section

1250 Feet from  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE,  SE, NW or SW (circle one)

Lease Name Ryersee Well # 2-33

Field Name Bazine East Abandoned

Producing Formation Mississippian

Elevation: Ground 2179' KB 2187'

Total Depth 4266 PBSD NA

Amount of Surface Pipe Set and Cemented at 229.85 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1383 Feet

If Alternate II completion, cement circulated from 1383

feet depth to 120 w/ 180 sx cmt.

Drilling Fluid Management Plan A14.2, 3-12-98 UC  
(Data must be collected from the Reserve Pit)

Chloride content 14,000 ppm Fluid volume 1500 bbls

Dewatering method used Evaporation

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 Scott Corsair

Title Geologist Date 1-9-1998

Subscribed and sworn to before me this 9th day of January, 1998.

Notary Public Bernice Moore

Date Commission Expires 2/7/98

NOTARY PUBLIC - State of Kansas  
BERNICE MOORE  
My Appt. Exp. 2/7/98

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
✓ KCC  Distribution  
KGS  SWD/Rep  NGPA  
 Plug  Other  
(Specify)

**SIDE TWO**

Operator Name American Warrior, Inc. Lease Name Ryersee Well # 2-33  
 Sec. 33 Twp. 18s Rge. 21  East  West  
 County Ness

**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
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1399	+788
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3639	-1452
List All E.Logs Run:	Dual Induction, Spectral	Lansing	3684	-1497
Density Dual Spaced Neutron II		Base Kansas City	4000	-1813
		Marmaton	4021	-1834
		Pawnee	4087	-1900
		Ft. Scott	4158	-1971
		Cherokee Shale	4174	-1987
		Mississippian Osage	4254	-2067

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	229.85	60/40Poz	150	2%Gel&3%CC
Production St.	7 7/8	5 1/2	14	4258	HLC	25	
					EA-2	75	

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	120			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	1383	MidconII	180	1/4# flocele

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	4254-4258	

<b>TUBING RECORD</b>	Size 2 3/8	Set At 4240	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 1-9-1998	Producing Method <input 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. 15	Gas Mcf	Water Bbls. 25	Gas-Oil Ratio Gravity 39

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 4254-4258

KCC OIL/GAS REGULATORY OFFICE

DATE 12/16/97  
OPERATOR American Warrior, Inc. # 4058  
NAME P.O. Box 399  
& ADDRESS Garden City, KS 67846  
PHONE NO. OPER. 785-398-2270 OTHER

[ ] New Situation  
[ ] Response to Request  
[ ] Follow-up  
RECEIVED  
KANSAS CORP. COMPT  
LOCATION C SE SEC 33 T 18 S R 21 W  
1997 DEC 22 2:14  
LEASE Ryersee Well # 2-33  
COUNTY Ness API#15-135-24,027

REASON FOR INVESTIGATION: Alternate II cement completion

LEASE INSPECTION

PROBLEM:

PERSON(S) CONTACTED:

FINDINGS: 5 1/2" casing set in the Mississippi. 8 5/8" surface pipe set at 229'. Port collar tool set at 1383'. Couldn't open the port collar. Waited for perforators. Perforated 5 1/2" casing at 1365'. Pumped 110 sx Halliburton Midcon II. Had 10 bbls. of circulation and it stopped. Did not circulate cement. Told Scott Corsair to get a cement top and call the district office.

COMPLAINT

12/17/97 Found cement top at 390' with possible strings up to 170'. Pressured 8 5/8" X 5 1/2" annulus to 600#. Couldn't pump.

ACTION/RECOMMENDATIONS: The Alternate II cementing has been completed. photos taken:

FIELD REPORT X

Retain 1 copy Joint District Office  
Send 1 copy Conservation Division

By Richard W. Lacey

12/17/97



HALLIBURTON

HALLIBURTON ENERGY SERVICES

HAL-1906-P

ORIGINAL - DUNCAN COPY TICKET

No. 196937 - [

PAGE 1 of 2

ADDRESS: American warrior INC  
 P.O. B. 399  
 CITY STATE ZIP CODE: Garden City

SERVICE LOCATIONS	WELL PROJECT NO	LEASE	COUNTY PARISH	STATE	CITY OF SHORE LOCATION	DATE	OWNER
1. Hays	2-33	Ryense-	Dress	Ks		9-8-97	Same
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	INITIATED BY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CORRECTION	RIG MAKE NO	SHIPPED VIA	DELIVERED TO	ORDER NO
3.			Discovery	E		LOCATION	
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO	WELL LOCATION		
01	01			010	15-135-2401		2 1/2 E Azgins
REFERENCE LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DI						
000-117	ORIGINAL	1		45	MILEAGE	5179.7	100	miles	3.20	-320
001-014		1		35	Pump O/Rs				696	696
030-503		1		35	8 5/8 wood plug				95	95

INCLUDES STATE APPLICATION COMMISSION  
 JAN 23 1998

B.T. 660104

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

DATE SIGNED: 9-8-97  
 TIME SIGNED: 9:30 AM  
 SIGNATURE: x Bill Skeen

8. SURFACE SAFETY VALVE WAS

PULLED & REFLUID  PULLED  RUN

TYPE LOCK: \_\_\_\_\_ DEPTH: \_\_\_\_\_

DOWNSIZE: \_\_\_\_\_ SPACERS: \_\_\_\_\_

TYPE OF EQUIPMENT: \_\_\_\_\_ CAPPING PRESSURE: \_\_\_\_\_

TUBING SIZE: \_\_\_\_\_ TUBING PRESSURE: \_\_\_\_\_ WELL DEPTH: \_\_\_\_\_

TREE CONNECTION: \_\_\_\_\_ TYPE VALVE: \_\_\_\_\_

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	1111
FROM CONTINUATION PAGE(S)	2025
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	3136.11

**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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR'S ENGINEER	EMP #	HALLIBURTON APPROVAL
Bill Skeen	x Bill Skeen	J Henry	71010	

01-20-98 04:46R P.02

FAX NO.: 1 913 625 2536

FROM: HES HAYS

JOB LOG 4579.6

REGION North America		NWA/COUNTRY		TICKET #	TICKET DATE
MBU ID / EMP #		EMPLOYEE NAME		BCA / STATE	COUNTY
LOCATION		COMPANY		PSL DEPARTMENT	
TICKET AMOUNT		WELL TYPE		CUSTOMER REP / PHONE	
WELL LOCATION		DEPARTMENT		API / UWI #	
LEASE / WELL #		SEC / TWP / RNG		JOB PURPOSE CODE	

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
ORIGINAL							

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (PSI)		JOB DESCRIPTION / REMARKS
				T	C	T27	C26	
	19:30 20:30							Called out on location safety meeting
	11:05		0					Start mixing cement
	11:25		3H					shut down
	11:35		0					Start Displacement
	11:30		1H					shut down
								Wash & Pack up
								Job Complete
								Thank you
								JWC

HALLIBURTON  
 HES HAYS  
 01-20-98  
 JAN 26 1998



HALLIBURTON

TICKET CONTINUATION

TICKET No. 196937

HALLIBURTON ENERGY SERVICES

01-20-98 04:49P FAX NO.: 913 625 2536 FROM: No. B

CUSTOMER	American Warrior	WELL	DATE	PAGE
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Truck# (s)	52418
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PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY U/M		UNIT PRICE	AMOUNT
		LOG	ACCT	DF		QTY	U/M		
504-136				35	40/60 Pozmix Standard	150	sk	\$8.14	\$1,221.00
506-121					Halliburton Gel @2%	2	sk		
509-406					Calcium Chloride	4	sk	\$46.90	\$187.60
ORIGINAL									
RECEIVED BY COMMISSIONER STATE OF MISSISSIPPI JUN 16 1998									

500-207					SERVICE CHARGE	CUBIC FEET	158	1.55	\$244.90
500-306				35	MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	
						12,625	50	315.625	1.18
									\$372.44

CONTINUATION TOTAL	\$ 2025.9
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**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

SERVICE TO: **AMERICAN WARRIOR INC**  
ADDRESS  
CITY, STATE, ZIP CODE

CUSTOMER COPY

TICKET

No. **197158-5**

PAGE 1 OF 2  
MISSION

SERVICE LOCATIONS 1. <b>HAYS, KS</b>	WELL/PROJECT NO. <b>2-33</b>	LEASE <b>PURDISEE</b>	COUNTY/PARISH <b>NESS</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION	DATE <b>9-17-97</b>	OWNER <b>SAG 1991</b>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <b>DESIGNED DRILLING</b>	RIG NAME/NO.	SHIPPED VIA <b>52293</b>	DELIVERED TO <b>10-RTW</b>	ORDER NO.	
3.	WELL TYPE <input checked="" type="checkbox"/> SALES <input checked="" type="checkbox"/> NO	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>035</b>	WELL PERMIT NO. <b>15135240270000</b>	WELL LOCATION <b>S T 33-10-21W</b>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		U/M	U/M		
000-117	ORIGINAL	1			MILEAGE	100	MI	3.20	320.00
001-016		1			PUMP SERVICE	4258	FT	1926.00	1926.00
030-016		1			5 W TOP PLUG	1	ISA	66.00	66.00
019-241		1			ROTATING HEAD	1	JOB	300.00	300.00
314-163		1			CUMEX II	2	GAL	30.50	61.00
018-317		1			SUPERFLUSH	6	SES	112.00	672.00
PORT COLLAR @ 1323' TOP JT # 87									

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

DATE SIGNED: **9-17-97** TIME SIGNED: **2:00**  
 A.M.  P.M.  
 do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					3345.00
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S)
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					2913.87
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE							6258.87

**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) <b>Satt Corra</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X Satt Corra</b>	HALLIBURTON OPERATOR/ENGINEER <b>WAYNE WILSON</b>	EMP # <b>29377</b>	HALLIBURTON APPROVAL
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TICKET #	TICKET DATE
BOA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION	North America	NWA/COUNTRY
MBU ID / EMP #		EMPLOYEE NAME
LOCATION		COMPANY
TICKET AMOUNT	6258.87	WELL TYPE
WELL LOCATION		DEPARTMENT
LEASE / WELL #		SEC / TWP / RNG

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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1800							CALLING OUT
	1900							ON LOCATION - DISCUSS JOB PROCEDURE
	2030							DROP BALL - BREAK CIRCULATION - ROTATE CABLE
1	2359	6	20			300		PUMP CUMEX II PREFLUSH
	0004	6	6			300		PUMP SUPERFLUSH
	0004	6	2					PUMP 1120 SPACER
	0010							PLUG RATIO 15 SKS / MUDHOLE 10 SKS
	0016	6	26.1			250		MUD CEMENT 25 SKS 11C - 75 SKS 50-2
	0025							WASH OUT PUMP - LEDES
	0026	7						RELEASE PLUG
	0028	7	0			600		DISPLACE PLUG
			94					SINT OF ROTATING
	0042	4	103.3			1000		PLUG DOWN
	0043							RELEASE PST
								OK FLOAT HELD
								WASH UP
								RACK UP
	0100							JOB COMPLETE

THANK YOU  
WAYNE, DAVE, LYLE

STATE OF TEXAS  
JAN 10 1987



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

TICKET No. 197158

TRUCK# (S)		CUSTOMER		WELL		DATE		PAGE OF	
4444-5070		American Warrior		Rverses 2 33		9/17/97		2 2	
PRICE	SECONDARY REFERENCE	ACCOUNTING			DESCRIPTION	UNIT		PRICE	AMOUNT
REFERENCE	PART NUMBER	LOC	ACCT	DF		QTY	U/M		
504-308					Standard Cement	75	sk	\$10.83	\$812.25
504-316					Halliburton Light Cement	50	sk	\$9.11	\$455.50
509-966					Salt	18	lb	\$0.17	\$3.06
507-210					Flocele	13	lb	\$1.90	\$24.70
507-153					CFR-3	21	lb	\$5.75	\$120.75
507-127					Cal Seal	4	sk	\$28.00	\$112.00
505-291					Gilsonite	250	lb	\$0.50	\$125.00
507-778					Haiad-344	23	lb	\$29.90	\$687.70
500-207					SERVICE CHARGE	CUBIC FEET	136	1.55	\$210.80
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	
						12.275	50	306.875	\$362.11

ORIGINAL

B 660129

CONTINUATION TOTAL	\$ 2,913.87
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**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

CHARGE TO:

*American Warrior*

ADDRESS

*P.O. Box 399*

CITY, STATE, ZIP CODE

*Garden City, Ks 67846*

CUSTOMER COPY

TICKET

No.

197073 - 8

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Hays 25525</i>	WELL/PROJECT NO. <i>2-33</i>	LEASE <i>Ryervee</i>	COUNTY/PARISH <i>Ness</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION <i>Alexander, Ks</i>	DATE <i>12-16-97</i>	OWNER <i>A.W.</i>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE JOB? <input type="checkbox"/> YES <input type="checkbox"/> SALES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Southern Well Service</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>well site</i>	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE <i>095 195</i>	WELL PERMIT NO.	WELL LOCATION <i>4 1/2 W Alexander Ks</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <i>01</i>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	STATE COMMISSION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF				U/M		
<i>000-117</i>		<i>1</i>			MILEAGE		<i>100</i>	<i>m.</i>	<i>3.20</i>	<i>320.00</i>
<i>009-134</i>	<i>009-019</i>	<i>1</i>			Pump Service		<i>1383</i>	<i>ft</i>	<i>1425.00</i>	<i>1425.00</i>
<i>100-115</i>		<i>1</i>			mileage		<i>100</i>	<i>m.</i>	<i>1.95</i>	<i>195.00</i>
<i>116-437</i>		<i>1</i>			Part Collar Opening Tool		<i>1</i>	<i>EA</i>	<i>350.00</i>	<i>350.00</i>
<i>116-434</i>	<i>124-050</i>	<i>1</i>			Environmental Charge		<i>1</i>	<i>EA</i>	<i>13.75</i>	<i>13.75</i>

ORIGINAL

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	<p>TYPE LOCK</p> <p>BEAN SIZE</p> <p>TYPE OF EQUALIZING SUB.</p> <p>TUBING SIZE</p> <p>TREE CONNECTION</p>	<p>DEPTH</p> <p>SPACERS</p> <p>CASING PRESSURE</p> <p>TUBING PRESSURE</p> <p>WELL DEPTH</p> <p>TYPE VALVE</p>			

*9303 75*

*3525 02*

*5828 77*

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CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>Scott Co</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>X Scott Co</i>	HALLIBURTON OPERATOR/ENGINEER <i>Gail Palmberg</i>	EMP # <i>4489</i>	HALLIBURTON APPROVAL
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**JOB LOG**

TICKET # <b>1976-3</b>	TICKET DATE <b>12-16-97</b>
BDA / STATE <b>Ks</b>	COUNTY <b>WESS</b>
PSL DEPARTMENT <b>5001 5002</b>	CUSTOMER REP / PHONE <b>Scott Conser</b>
API / UWI #	JOB PURPOSE CODE <b>095 195</b>

REGION <b>North America</b>	NWA/COUNTRY <b>mid continent</b>
MBU ID / EMP # <b>HA0508 41489</b>	EMPLOYEE NAME <b>Carl Palmberg</b>
LOCATION <b>Hays 25525</b>	COMPANY <b>American Warrior</b>
TICKET AMOUNT <b>5829</b>	WELL TYPE <b>01</b>
WELL LOCATION <b>SW Alexander Ks</b>	DEPARTMENT <b>5001</b>
LEASE / WELL # <b>Ryersee 2-33</b>	SEC / TWP / RNG

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
<b>E Palmberg 41489</b>			
<b>E Reynolds 47558</b>			
<b>M Yachin 01511</b>			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0700							Called out
	0840							On location
								Dismiss Job
								Set up Equipment
								BPE 3900'
1	0910					250		Circulate out of hole
1	0955		12.6					Hole chase
1	1000					1000		Test Plug & Csg, Held
1	1010		11			150		Spot 25kgs Sand
						<del>1500</del>		Locate fact collar @ 1383'
1	1130					300		Pressure casing could not rotate collar open
1	1140					1000		Pressure casing could not rotate collar open
								made several attempts with & without pressure
								fact collar would not open
								Call for perforator
								Perforate @ 1365'
								Rig up to casing
2	1520	3 1/2				300		Injection Rate
2	1530	5				350		START mixing cement
								150 sks midcap II @ 11.1 * / gal circulating
								30 sks midcap II @ 14.4 * / gal
			50					lost circulation
2	1550	5	9.2			400		Cement mixed
								Wash out pump-line
		5				400		Start displacement
		4	3 1/2			700		Cement displaced 700 1325'
2	1600					500		Close in @ well head
								Wash up
								Back up
								Job Completed

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Thank you  
*Carl Palmberg*



HALLIBURTON

TICKET CONTINUATION

TICKET No 197073

HALLIBURTON ENERGY SERVICES

Truck# (s)	52418	CUSTOMER	American Warrior	WELL	Rverse 2-33	5:53 PM	12/15/97	PAGE	2
PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
504-280			Mid Con II	180	sk			\$13.53	\$2,435.40
509-406			Calcium Chloride	3	sk			\$46.90	\$140.70
507-210			Flocele	45	lb			\$1.90	\$85.50
510-222			Sand	2	sk			\$10.00	\$20.00
500-207			SERVICE CHARGE			CUBIC FEET	200	1.55	\$310.00
500-306			MILEAGE CHARGE			TOTAL WEIGHT	18,082		
						LOADED MILES	50		
						TON MILES	452.050	1.16	\$533.42

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CONTINUATION TOTAL \$ 3,525.02

No. B 660230



ORIGINAL

**SCOTT CORSAIR**

**PETROLEUM GEOLOGIST**

210 Avenue A P.O. Box 6  
Bazine, Ks 67516  
785-398-2270 Mobile 785-731-5060  
FAX 785-398-2586

**GEOLOGICAL REPORT**

**AMERICAN WARRIOR, INC.**

RYERSEE #2-33  
1450' FSL & 1250' FEL  
Section 33-18S-21W  
Ness County, Kansas

JAN 29 1983



# ORIGINAL

OPERATOR: AMERICAN WARRIOR, INC.  
WELL: RYERSEE No. 2-33  
API NO.: 15-135-24027  
LOCATION: 1450' FSL & 1250' FEL, SEC. 33-18S-21W  
WELLSITE: PASTURE  
COMMENCED: SEPTEMBER 8, 1997  
COMPLETED: SEPTEMBER 18, 1997  
ELEVATIONS: 2179' GL ; 2187' KB  
TOTAL DEPTH: 4266' (DRILLER); 4259 (LOGGER)  
CASING: SURFACE: 8 5/8 @ 230' W/150 SKS  
PRODUCTION: 5 1/2 @ 4258' W/75 SKS  
PORT COLLAR @ 1383  
SAMPLES: 10 FT. FROM 3500' TO T.D.  
LOGS: DUAL INDUCTION, SPECTRAL DENSITY  
DUAL SPACED NEUTRON II, BY HALLIBURTON  
DRILLSTEM TESTS: THREE (3) BY TRILOBITE TESTING  
CONTRACTOR: DISCOVERY DRILLING (RIG 1)

REMARKS: Geological supervision: 3500' - T.D. The logger's T.D. is 7 feet higher than the driller's T.D., logger's T.D. is taken as correct.

FORMATION TOPS	ELECTRICAL LOG SUBSEA		SAMPLES SUBSEA	
Anhydrite	1399	+788	1404	+783
Heebner	3639	-1452	3644	-1457
Lansing	3684	-1497	3688	-1501
Base Kansas City	4000	-1813	4002	-1815
Marmaton	4021	-1834	4024	-1837
Pawnee	4087	-1900	4095	-1908
Ft. Scott	4158	-1971	4164	-1977
Cherokee Shale	4174	-1987	4181	-1994
Mississippian Osage	4254	-2067	4259	-2072

ORIGINAL

**SAMPLE ZONE DESCRIPTION**

Logger's Measurements

**LANSING-KANSAS CITY 3684 -1497**

There were no shows of oil/gas observed in the porous zones during the drilling of the Lansing-Kansas City section.

**PAWNEE 4087 -1900**

There were no shows of oil/gas observed during the drilling of the Pawnee section.

**FT. SCOTT 4158 -1971**

There were no shows of oil/gas observed during the drilling of the Ft. Scott section.

**CHEROKEE 4174 -1987**

**4179-4189, Sandstone:** clear to frosted, very fine grained, poorly sorted, angular, clusters, good fluorescence, excellent cut when broke, abundant loose grains.

**Drill Stem Test No. 1:** 4176-4195 /15-15-2-0/ Strong blow building to the bottom of the bucket in 45 seconds during the initial flow; Strong blow building to the bottom of the bucket in 1 minutes during the final flow; No blow during either shut in; Recovered 1520 feet of total fluid, 180 feet of slightly oil & water cut mud, 10% oil, 20% water, 70% mud; 740 feet of slightly oil cut water, 5% oil, 95% water; 600 feet of water.

IHP 2097  
IFP 404-678  
ISIP 1149  
FFP 733-735  
FHP 2100

**4212-4215, Sandstone:** clear to frosted, poorly sorted, sub-rounded to angular, clusters with slight show of free oil, fair fluorescence, good cut when broke.

**4230-4235, Sandstone:** clear and frosted, fairly sorted, angular and sub-rounded, clusters, fair fluorescence and good cut when broke.

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**Drill Stem Test No. 2:** 4207-4244 /30-30-5-0/ Weak 1/8" blow died in 25 minutes; No blow during final flow; Recovered 5 feet of drilling mud.

IHP 2121  
IFP 20-23  
ISIP 72  
FFP 23-23  
FHP 2123

## MISSISSIPPIAN OSAGE 4254 -2067

**Chert:** white to gray, weathered tripolitic, good vuggy porosity, fair show of free oil, good fluorescence and excellent cut, fleeting odor.

**Drill Stem Test No. 3:** 4258-4266 /30-30-30-45/ Weak 1/4" blow building to 4 1/2" during the initial flow; Weak 1/4" blow building to 4 1/2" blow during the final flow; Recovered 125 feet of total fluid and 75 feet of gas; 5 feet of slightly oil cut mud, 5% oil/95% mud; 80 feet of slightly mud and water cut oil, 10% mud/20% water/70% oil; 40 feet of muddy cut water, 20% mud/80% water.

IHP 2164  
IFP 20-109  
ISIP 1237  
FFP 42-68  
FSIP 1231  
FHP 2119

FORMATION	AMERICAN WARRIOR, INC. Ryersee #2-33 1450' FSL & 1250' FEL 33-18S-21W	AMERICAN WARRIOR, INC. Ryersee #1-33 1100' FNL & 1450' FEL 33-18S-21W	L D DRILLING #2 Thomas C NE SW NE 33-18S-21W
Anhydrite	+788	+ 785	+ 782
Lansing	-1497	-1496	-1499
Cherokee	-1987	-1985	-1987
Mississippian Osage	-2067	-2094	-2087

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ORIGINAL

**SUMMARY AND RECOMMENDATIONS**

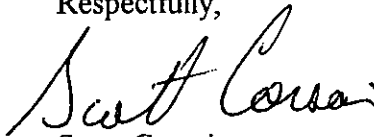
Structural position, Drill stem test results, and Electrical log analysis indicate probable commercial production from the Mississippian Osage and Cherokee. Based upon available data 5 1/2" production casing was set.

Pipe was set 1 foot off bottom @ 4258'. The following zones are recommended for testing.

1. Mississippian Osage: 4254-4258
2. Cherokee Sand: 4178-4180

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

Respectfully,



Scott Corsair  
Petroleum Geologist

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# ORIGINAL

## TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior DATE 09/15/97  
 WELL NAME: Ryersee #2-33 KB 2187.00 ft TICKET NO: 10535 DST #1  
 LOCATION : 33-18S-21W Ness KS GR 2179.00 ft FORMATION: Cherokee Sand  
 INTERVAL : 4176.00 To 4195.00 ft TD 4195.00 ft TEST TYPE: CONV

### RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11084	11084	3227			PF Fr. 2025 to 2040 hr
SI 15 Range(Psi )	4300.0	4300.0	4985.0	0.0	0.0	IS Fr. 2040 to 2055 hr
SF 2 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 2055 to 2057 hr
FS 0 Depth(ft )	4190.0	4190.0	4177.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2165.0	2141.0	2097.0	0.0	0.0	T STARTED 1910 hr
B. First Flow	471.0	452.0	404.0	0.0	0.0	T ON BOTM 2022 hr
B1. Final Flow	699.0	686.0	678.0	0.0	0.0	T OPEN 2025 hr
C. In Shut-in	1185.0	1153.0	1149.0	0.0	0.0	T PULLED 2057 hr
D. Init Flow	0.0	782.0	733.0	0.0	0.0	T OUT 2345 hr
E. Final Flow	0.0	777.0	735.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2145.0	2059.0	2100.0	0.0	0.0	Tool Wt. 2400.00 lb
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lb
						Wt Pulled Loose 46000.00 lb
						Initial Str Wt 36000.00 lb
						Unseated Str Wt 42000.00 lb
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4143.00 ft

### RECOVERY

Tot Fluid 1520.00 ft of 30.00 ft in DC and 1490.00 ft in DP  
 180.00 ft of Slightly Oil & Water Cut Mud  
 0.00 ft of 10% oil 20% water 70% mud  
 740.00 ft of Slightly Oil Cut Water  
 0.00 ft of 5% oil 95% water  
 0.00 ft of  
 600.00 ft of Water  
 0.00 ft of  
 0.00 ft of Rw .15 @ 76  
 SALINITY 46000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.50 lb  
 Vis. 47.00 S/  
 W.L. 10.80 in  
 F.C. 0.00 in  
 Mud Drop

### BLOW DESCRIPTION

Initial Flow-  
 Strong blow building to bottom of  
 bucket in 45 seconds

Initial Shutin-  
 No blow

Final Flow-  
 Strong blow building to bottom of  
 bucket in 1 minute

Final Shutin-  
 None taken

SAMPLES:  
 SENT TO:

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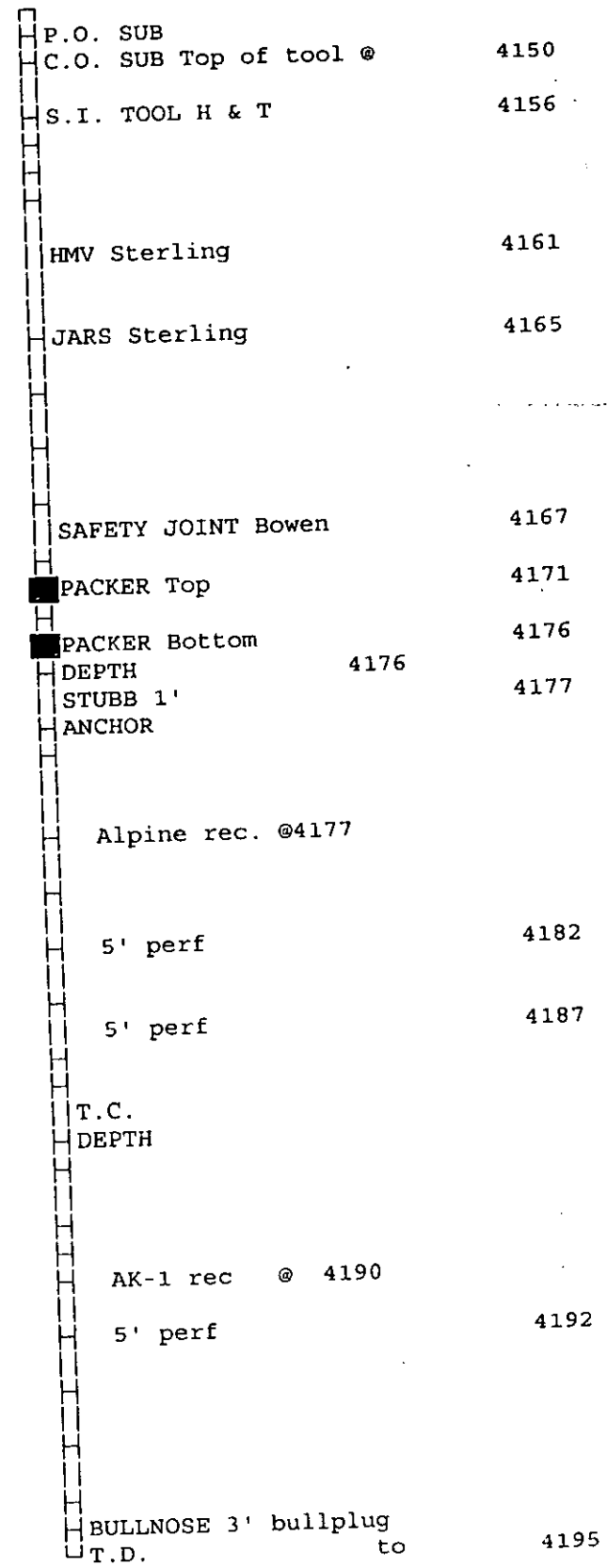
CO. DIVISION

Amt. of fill 0.00 ft  
 Btm. H. Temp. 121.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Paul Simpson  
 Co. Rep. Scott Corsair  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ryersee #2-33  
 LOCATION : 33-18S-21W Ness KS  
 TICKET No. 10535 D.S.T. No. 1 DATE 09/15/97  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 19 perf  
 TOTAL TOOL ..... 46  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 46  
 D.C. ABOVE TOOLS.Stands Single 1 Total 30  
 D.P. ABOVE TOOLS.Stands 67 Single Total 4143  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4219  
 TOTAL DEPTH ..... 4195  
 TOTAL DRILL PIPE ABOVE K.B. .... 24  
 REMARKS:



TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : American Warrior  
 WELL NAME: Ryersee #2-33  
 LOCATION : 33-18S-21W Ness KS  
 INTERVAL : 4207.00 To 4244.00 ft

DATE 09/16/97  
 KB 2187.00 ft TICKET NO: 10536 DST #2  
 GR 2179.00 ft FORMATION: Lower Cherokee Sand  
 TD 4244.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227			PF Fr. 1120 to 1150 hr
SI 30 Range(Psi )	4300.0	4300.0	4985.0	0.0	0.0	IS Fr. 1150 to 1220 hr
SF 5 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 1220 to 1225 hr
FS 0 Depth(ft )	4239.0	4239.0	4211.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2198.0	2143.0	2121.0	0.0	0.0	T STARTED 1025 hr
B. First Flow	44.0	49.0	20.0	0.0	0.0	T ON BOTM 1118 hr
B1. Final Flow	55.0	39.0	23.0	0.0	0.0	T OPEN 1120 hr
C. In Shut-in	88.0	75.0	72.0	0.0	0.0	T PULLED 1225 hr
D. Init Flow	0.0	51.0	23.0	0.0	0.0	T OUT 1335 hr
E. Final Flow	0.0	42.0	23.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	2166.0	2123.0	2123.0	0.0	0.0	

	Field	1	2	3	4	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2900.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 42000.00 lbs
						Initial Str Wt 36000.00 lbs
						Unseated Str Wt 36000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4173.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow-  
 Weak 1/8" blow died in 25 minutes

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Initial Shutin-  
 No blow

Final Flow-  
 No blow

Final Shutin-  
 None taken

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type Chemical  
 Weight 9.20 lb/  
 Vis. 55.00 S/L  
 W.L. 12.80 in3  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 108.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Paul Simpson  
 Co. Rep. Scott Corsair  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ryerse #2-33  
 LOCATION : 33-18S-21W Ness KS  
 TICKET No. 10536 D.S.T. No. 2 DATE 09/16/97  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 37 perf  
 TOTAL TOOL ..... 64  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 64  
 D.C. ABOVE TOOLS.Stands Single 1 Total 30  
 D.P. ABOVE TOOLS.Stands67 Single 1 Total 4173  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4267  
 TOTAL DEPTH ..... 4244  
 TOTAL DRILL PIPE ABOVE K.B. .... 23  
 REMARKS:

P.O. SUB	
C.O. SUB Top of tool @	4181
S.I. TOOL H & T	4187
HMV Sterling	4192
JARS Sterling	4196
SAFETY JOINT Bowen	4198
PACKER Top	4202
PACKER Bottom	4207
DEPTH	4207
STUBB 1'	4208
ANCHOR	
3' perf	4211
Alpine rec. @4211	
5' perf	4216
5' perf	4221
T.C.	
DEPTH	
5' perf	4226
PACKER 5' perf	4231
AK-1 rec @ 4239	
5' perf	4236
5' perf	4241
BULLNOSE 3' bullplug	
T.D. to	4244



TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : American Warrior  
 WELL NAME: Ryersee #2-33  
 LOCATION : 33-18S-21W Ness KS  
 INTERVAL : 4258.00 To 4266.00 ft

DATE 09/16/97  
 KB 2187.00 ft TICKET NO: 10537 DST #3  
 GR 2179.00 ft FORMATION: Mississippi  
 TD 4266.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.			3227			PF Fr. 2305 to 2335 hr
SI 30 Range(Psi )	0.0	0.0	4985.0	0.0	0.0	IS Fr. 2335 to 0005 hr
SF 30 Clock(hrs)			Elec			SF Fr. 0005 to 0035 hr
FS 45 Depth(ft )	0.0	0.0	4259.0	0.0	0.0	FS Fr. 0035 to 0120 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2164.0	0.0	0.0	T STARTED 2155 hr
B. First Flow	0.0	0.0	20.0	0.0	0.0	T ON BOTM 2303 hr
B1. Final Flow	0.0	0.0	109.0	0.0	0.0	T OPEN 2305 hr
C. In Shut-in	0.0	0.0	1237.0	0.0	0.0	T PULLED 0120 hr
D. Init Flow	0.0	0.0	42.0	0.0	0.0	T OUT 0245 hr
E. Final Flow	0.0	0.0	68.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1231.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2119.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	1900.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	42000.00 lbs
Initial Str Wt	36000.00 lbs
Unseated Str Wt	36000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	4173.00 ft

RECOVERY

Tot Fluid 125.00 ft of 30.00 ft in DC and 95.00 ft in DP  
 75.00 ft of Gas In Pipe  
 5.00 ft of Slightly Oil Cut Mud  
 0.00 ft of 5% oil 95% mud  
 80.00 ft of Slightly Mud & Water Cut Oil  
 0.00 ft of 10% mud 20% water 70% oil  
 40.00 ft of Muddy Cut Water  
 0.00 ft of 20% mud 80% water  
 0.00 ft of Rw .31@67  
 SALINITY 23000.00 P.P.M. A.P.I. Gravity 37.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb
Vis.	52.00 S/
W.L.	12.00 in
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow-  
 Weak 1/4" blow building to 4 1/2"

Initial Shutin-  
 No blow

Final Flow-  
 Weak 1/4" blow building to 4 1/2"

Final Shutin-  
 No blow

SAMPLES:  
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COMMUNICATIONS

Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Scott Corsair
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ryerse #2-33

LOCATION : 33-18S-21W Ness KS

TICKET No. 10537 D.S.T. No. 3 DATE 09/16/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 8 perf

TOTAL TOOL ..... 35

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

D.P. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

TOTAL ASSEMBLY ..... 35

D.C. ABOVE TOOLS.	Stands	Single	1	Total	30
-------------------	--------	--------	---	-------	----

D.P. ABOVE TOOLS.	Stands	68	Single	1	Total	4238
-------------------	--------	----	--------	---	-------	------

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4303

TOTAL DEPTH ..... 4266

TOTAL DRILL PIPE ABOVE K.B. .... 37

REMARKS:

P.O. SUB		
C.O. SUB Top of tool @		4232
S.I. TOOL H & T		4238
HMV Sterling		4243
JARS Sterling		4247
SAFETY JOINT Bowen		4249
PACKER Top		4253
PACKER Bottom		4258
DEPTH	4258	
STUBB 1'		4259
ANCHOR		
Alpine rec. @	4259	
T.C. DEPTH		
5' perf		4264
BULLNOSE 2' bullplug		
T.D. to		4266