

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

Operator: License # 4058  
 Name: American Warrior, Inc.  
 Address P. O. Box 399  
 City/State/Zip Garden City, KS 67846  
 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  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workovers:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
4/17/98 4/23/98 8/31/98  
 Spud Date Date Reached TD Completion Date

SIDE ONE

API NO. 15- 135-24053 0000 **ORIGINAL**  
 County Ness  
 100' SW NE - NE - NW Sec. 36 Twp. 19s Rge. 22w  E  
400 Feet from S (circle one) Line of Section  
2240 Feet from E (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE, SE, (NW) or SW (circle one)  
 Lease Name Williams Well # 6  
 Field Name Schaben  
 Producing Formation Mississippian  
 Elevation: Ground 2259 KB 2267  
 Total Depth 4386 PBTB \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 314.57 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set 2479 Feet  
 If Alternate II completion, cement circulated from 2479  
 feet depth to surface w/ 380 sx cmt.  
 Drilling Fluid Management Plan AH-2, 9-21-98 etc.  
 (Data must be collected from the Reserve Pit)  
 Chloride content 12,000 ppm Fluid volume 480 bbls  
 Dewatering method used Evaporation  
 Location of fluid disposal if hauled offsite:  
**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 Operator Name \_\_\_\_\_  
 Lease Name 9-18-98  
SEP 18 1998 License No. \_\_\_\_\_  
 Quarter Sec. Twp. S Rng. E/W  
 County WICHITA, KS CONSERVATION DIVISION  
 Docket No. \_\_\_\_\_

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 Scott Corsair  
 Title Petroleum Engineer Date 9/17/98  
 Subscribed and sworn to before me this 17th day of September, 19 98.  
 Notary Public Bernice Moore  
 Date Commission Expires 2/7/02

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)

NOTARY PUBLIC - State of Kansas  
 BERNICE MOORE  
 My Appt. Exp. 2/7/02

Operator Name American Warrior, Inc.Lease Name WilliamsWell # 6Sec. 36 Twp. 19S Rg. 22W EastCounty Ness 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" 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	1482	+785
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3733	-1466
List All E.Logs Run:		Lansing	3784	-1517
		Base Kansas City	4124	-1857
		Marmatonn	4148	-1881
		Pawnee	4204	-1937
		Ft. Scott	4279	-2012
		Cherokee Shale	4303	-2036
		Mississippian Osage	4374	-2107

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 $\frac{1}{4}$	8 5/8	20	314.57	60/40Poz	180	2%Gel&3%CC
Production St.	7/7/8	5 $\frac{1}{2}$	14	4375	60/40Poz	125	10%Salt $\frac{1}{4}$ #FS

## ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	surface/	midcon II	380	2%cc, 1/4# flocele
<input type="checkbox"/> Plug Back TD	2479			
<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
		500 gallons 20% double strength	
		FE acid	4375-86

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8	4370			
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
9/20/98					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15		150		40

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 4375-4386

(If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_



**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

CHARGE TO: AMERICAN WARRIOR INC.  
ADDRESS:  
CITY, STATE, ZIP CODE:

CUSTOMER NO.: **ORIGINAL**  
No. **196692-1**  
15-135-24053  
PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>HAYS, KS</u>	<u>6</u>	<u>WILLIAMS</u>	<u>WESS</u>	<u>KS</u>		<u>4-17-98</u>	<u>SMME</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>DISCOVERY DRILLING</u>	RIG NAME/NO. <u>#2</u>	SHIPPED VIA <u>2242</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS	<u>01</u>	<u>010</u>	<u>15135240530000</u>	<u>36 - 195 - 22W</u>		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
<u>000-117</u>		<u>1</u>			<u>MILEAGE</u>		<u>90</u>	<u>MI</u>	<u>1</u>	<u>WT</u>	<u>3.65</u>	<u>328.50</u>
<u>001-016</u>		<u>1</u>			<u>PUMP CHARGE</u>		<u>314</u>	<u>FT</u>	<u>6</u>	<u>WAS</u>	<u>1630.00</u>	<u>1630.00</u>
<u>030-503</u>		<u>1</u>			<u>TOP PLUG - 1 1/4</u>		<u>1</u>	<u>EA</u>	<u>2 1/8"</u>		<u>95.00</u>	<u>95.00</u>

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 SEP 18 1998  
 CONSERVATION DIVISION  
 WICHITA KS

**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

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	<b>SURVEY</b> AGREE UN-DECIDED DIS-AGREE	<b>PAGE TOTAL</b> 2053.50
TYPE LOCK DEPTH BEAN SIZE SPACERS	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? <input type="checkbox"/> YES <input type="checkbox"/> NO	<b>FROM CONTINUATION PAGE(S)</b> 2493.46
TYPE OF EQUALIZING SUB. CASING PRESSURE TUBING SIZE TUBING PRESSURE WELL DEPTH TREE CONNECTION TYPE VALVE	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	<b>SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE</b> 4446.96

DATE SIGNED: 4-17-98 TIME SIGNED: 1900  
 A.M.  P.M.  
 do  do not require IPC (Instrument Protection).  Not offered

**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>Gray Chad</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X Gray Chad</u>	HALLIBURTON OPERATOR/ENGINEER <u>Walter E. Wilson</u>	EMP # <u>89277</u>	HALLIBURTON APPROVAL
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HALLIBURTON ENERGY SERVICES

CUSTOMER  
ARTIFICIAL LIFTING

WELL Williams #9  
DATE 4/17/98  
PAGE 2

TRUCK# (S) 5241E

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DP							
504-136					40/60 Pozmix Standard	180	sk			\$5.71	\$1,027.80
506-121					Halliburton Gel (3.2%)	3	sk				N/C
509-406					Calcium Oxide	4	sk			\$45.90	\$183.60
500-207					SERVICE CHARGE					1.65	\$312.06
500-306					MILEAGE CHARGE	15.148		45		1.25	\$425.96

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 SEP 18 1998  
 CONSERVATION DIVISION  
 WICHITA, KS

CONTINUATION TOTAL \$ 2,436.48

No. B 660308

TICKET # <i>19-692</i>	TICKET DATE <i>4-17-98</i>
BDA / STATE <i>MidContinent Kansas</i>	COUNTY <i>Ness</i>
PSL DEPARTMENT <i>CMT</i>	CUSTOMER REP / PHONE
API / UWI # <i>15135240530000</i>	JOB PURPOSE CODE <i>010</i>

REGION <i>North America</i>	NWA/COUNTRY <i>MidContinent USA</i>
WELL ID / EMP # <i>HAD01 B9377</i>	EMPLOYEE NAME <i>Wynne Wilson</i>
LOCATION <i>HKS 18 025525</i>	COMPANY <i>American Wellco</i>
TICKET AMOUNT <i>4546.96</i>	WELL TYPE <i>01</i>
WELL LOCATION <i>S. Brazine 18</i>	DEPARTMENT <i>CMT</i>
EASE / WELL # <i>Williams #6</i>	SEQ / TWP / RNG <i>16-125-22W</i>

ES 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
<i>D. Wilson B9377</i>							
<i>D. Ash E1609</i>							
<i>W. Melton 41511</i>							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	<i>1500</i>							<i>Called out</i>
	<i>1730</i>							<i>On location - Discuss Job, Safety Meeting, Setup</i>
	<i>2020</i>							<i>Break Circ.</i>
	<i>2030</i>	<i>6</i>	<i>42</i>		<input checked="" type="checkbox"/>	<i>200</i>		<i>Mix Cement</i>
	<i>2040</i>							<i>Reverse Plug</i>
	<i>2042</i>	<i>7</i>	<i>0</i>		<input checked="" type="checkbox"/>	<i>250</i>		<i>Displace Plug</i>
	<i>2045</i>		<i>19.5</i>					<i>Plug Down.</i>
								<i>Circulated 20 Sec CMT TO PIT ✓</i>
								<i>Wash up</i>
								<i>Rinse up</i>
	<i>2130</i>							<i>Job Complete</i>
								<i>Thank You</i>
								<i>WYAC, Dave, M&amp;I</i>

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SEP 18 1998

CONSERVATION DIVISION  
WICHITA, KS

TICKET #	132	TICKET DATE	4-17-98
BDA / STATE	M. & Continent Kansas	COUNTY	Ness
PSL DEPARTMENT	CM7	CUSTOMER REP / PHONE	
API / UWI #	152350-2253000	JOB PURPOSE CODE	D10

REGION	North America	NWA/COUNTRY	M. & Continent USA
ABJ ID / EMP #	B9377	EMPLOYEE NAME	Wynne Wilson
LOCATION	AXS KS 025525	COMPANY	American Lection
TICKET AMOUNT	7,546.76	WELL TYPE	O1
WELL LOCATION	S. Brazine KS	DEPARTMENT	CM7
EASE / WELL #	Wilson #6	SEC / TWP / RNG	15 N 23 E 20 W

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
D. Ash E1609							
M. Herlin G1511							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420995	112						
5329311	112						
52418	112						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TIME	4-17-98 1500	4-17-98 1710	4-17-98 2020	4-17-98 2130

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug 2A11 8 7/8	1	Halliburton
Head "	1	"
Packer		
Other		

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	4	200	8 7/8	116	319	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			12 1/2	314	317	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	
4-17	4	4-17	1	898 Surface Job
				<b>RECEIVED</b>
				KANSAS CORPORATION COMMISSION
				SEP 18 1998
				CONSERVATION DIVISION
				WICHITA, KS
<b>TOTAL</b>		<b>TOTAL</b>		

**HYDRAULIC HORSEPOWER**  
 ORDERED \_\_\_\_\_ Avail. \_\_\_\_\_ Used \_\_\_\_\_  
**AVERAGE RATES IN BPM**  
 TREATED \_\_\_\_\_ Disp. \_\_\_\_\_ Overall \_\_\_\_\_  
**CEMENT LEFT IN PIPE**  
 FEET 15' Reason Restricted

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	150	4000	B	2% gel, 3% C.C.	1.31	130

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp(BBI) Gal 19.5
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 4.0	
		Total Volume Gal - BBI _____	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
**THE INFORMATION STATED HEREIN IS CORRECT** CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_



**HALLIBURTON ENERGY SERVICES**

HAL-1906-P

CHARGE TO: American Warrior  
 ADDRESS: Box 399  
 CITY, STATE, ZIP CODE: Garden City, KS 67846

CUSTOMER COPY TICKET  
**ORIGINAL** No. 196590-9  
 15-135-24053  
 PAGE 1 OF 2

SERVICE LOCATIONS 1. Hays, KS.	WELL/PROJECT NO. #6	LEASE Williams	COUNTY/PARISH Ness	STATE KS.	CITY/OFFSHORE LOCATION	DATE 4-23-98	OWNER Same
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Discovery Drilg.	RIG NAME-NO. #1	SHIPPED VIA CT	DELIVERED TO Well Site	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1	50		MILEAGE #53293m	90	mi.			3.65	328.50
001-016		1	35		Pump Charge	4376	ft.			2363.00	2363.00
314-163		1	35		CIA-Fix	2	gal.			326.5	653.00
018-303		1	35		Mud Flush	500	gal.			.30	400.00

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 SEP 18 1998  
 CONSERVATION DIVISION  
 MICHITA, KS

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

DATE SIGNED 4-23-98	TIME SIGNED 2:20	<input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	3156.80
TYPE LOCK BEAN SIZE TUBING SIZE TREE CONNECTION			DEPTH SPACERS CASING PRESSURE TUBING PRESSURE WELL DEPTH TYPE VALVE		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? <input type="checkbox"/> YES <input type="checkbox"/> NO			FROM CONTINUATION PAGE(S)	3003.95
<input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE			6160.75

**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) Scott Cowie	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) x Scott Cowie	HALLIBURTON OPERATOR/ENGINEER Eldon Reynolds	EMP # 47558	HALLIBURTON APPROVAL
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JOB SU ARY 4239-1

**ORIGINAL**

TICKET #	19 590	TICKET DATE	4-23-98
REGION	North America	BDA / STATE	Ks.
NWA/COUNTRY	MID-Continent	COUNTY	Ness
MBU ID / EMP #	HA0503 47558	PSL DEPARTMENT	Cementing
EMPLOYEE NAME	Eldon Reynolds	CUSTOMER REP / PHONE #	Scott Gossair
LOCATION	Hays, Ks.	API / UWI #	15-135-24053
TICKET AMOUNT		JOB PURPOSE CODE	035
WELL LOCATION	S.W. Bazire, Ks		
LEASE / WELL #	Williams #6		

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
E. Reynolds 47558		J. Becker 78222					
T. F. Domestiel 11682							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421270 R4	114	52418 Bm	114				
52293m RCM	114						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
4-23-98	1800	4-23-98	2200	4-23-98	4-24-98

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	14"	5 1/2"	KB	7376	
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	In.
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

**HOURS ON LOCATION**

DATE	HOURS
4-23-98	
4-24-98	
TOTAL	

**OPERATING HOURS**

DATE	HOURS
4-23-98	
4-24-98	
TOTAL	

**DESCRIPTION OF JOB**

035
035
035

**HYDRAULIC HORSEPOWER**

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET	35.46	CEMENT LEFT IN PIPE
		Reason

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	175	40/60		2% Gal. 1/2% CAR-3 1/4" Flocc 10% Salt	1.30	14.0

Circulating	Displacement	Preflush:	Gal - BBI	Type
Breakdown	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal 20.0
Average	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal 170.57
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI	
	15 Min	Total Volume	Gal - BBI	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**

CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_





HALLIBURTON

HALLIBURTON ENERGY SERVICES

INVOICE CONTINUATION

15-135-24053

ORIGINAL

15-135-24053-7

TRUCK# (S)	52418	CUSTOMER	American Warrior	WELL	Williams #8	TIME PW	4/23/98	PAGE	2 of 2
------------	-------	----------	------------------	------	-------------	---------	---------	------	--------

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT		DF	UNIT			U/W
504-136				40/60 Pozmix Standard	175	sk	\$5.71	\$1,024.25	
506-121				Halliburton Gel (32%)	3	sk		N/C	
508-966				Salt	650	lb	\$0.18	\$153.00	
507-210				Fibers	66	lb	\$2.09	\$137.94	
507-153				OCFR-3	71	lb	\$6.15	\$436.65	
500-207				SERVICE CHARGE					
						10000 FEET	192	1.66	\$318.72
500-306				MILEAGE CHARGE					
					TOTAL WEIGHT	LOADED MILES	TON MILES		
					15,410	45	348.714	1.25	\$435.39

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 WICHITA KS

CONTINUATION TOTAL \$ 3,008.95

No. B 650313

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	15-135-24053
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
4-23-98	1800							Called out - Job ready @ 2200 hrs
	2200							Order Reg @ 2200 - Rig Running 5 1/2" Csg
	2250							Csg @ 4376' - Hookup to Circ!
	2259							Rig Start Circ. to Set PRR. Shoe @ 4
								Setup Pump Truck & Bm
								mix mud flush & CIA-Fix spacer
	2318							Hookup to Pump Truck
	2320	4.0	12.0			150		Start 50 gal. mud flush
	2324	4.0	20.0			150		Start 20 bbl. CIA-Fix water
	2329		6.0					Close in Csg - mix 25515 to Plug Rat+Mous hole
	2337	5.0	34.5			200		Start Mixing 40/60 lb. 2861-1270 CT# 3 - 102512 - 14" Flacal
	2343	4.5				100		Finish Mixing Cement
								Close in Csg - Wash up Pump & lines - Drop 5 1/2"
								Latch down Plug
	2347	6.0				175		Start disp.
4-24-98	0002	6.0				325		Start lift press. increase w/ 77 bbl. disp. in
	0006	3.5				450		slow Rate to 3 1/2 BPM (102 bbl in)
	0008					1000		Plug down - 1000' - Holding
	0010					0		Release Press. - latch-down holding
								washup & back up PT
								Complete Tickets
	0130							Job Completed

Thank you  
Eldon, Tim, John

Port Collar @ 2429'

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WICHITA, KS



**HALLIBURTON ENERGY SERVICES**

1906-O

CHARGE TO:

American Wagon

ADDRESS

CITY, STATE, ZIP CODE

Garden City, Ks

FIELD COPY

TICKET

ORIGINAL No.

396482 - 9

PAGE 1 OF 2

15-135-24053

1. SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
2. 75525 Hwy K	#6	Williams	Well	Ks		5-8-98	S. Williams
3. TICKET TYPE	NITROGEN JOB?	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
<input type="checkbox"/> SERVICE	<input type="checkbox"/> YES	Plains well ser.	Plains well ser.	at	well site		
<input type="checkbox"/> SALES	<input type="checkbox"/> NO						
4. WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION			
01	01	030		36-19-22			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						
	east part of well						

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
			LOC	ACCT	DF							
030	000-117		1			MILEAGE 51374 RCM	5	mi	1	unit	3.65	18.25
030	090-910		1			Pump Charge	3	hr			650.00	650.00
030	018-303		1			CIA-Fix II	2	gal			30.50	61.00
030	507-244		1			Halliburton Dye	10	lbs			6.00	60.00

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 WICHITA, KS

**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.

DATE SIGNED: 5-8-98 TIME SIGNED: 1000 A.M.  P.M.

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

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS:		PAGE TOTAL	789.25
BEAN SIZE	<input type="checkbox"/> PULLED & RETURN	<input type="checkbox"/> PULLED <input type="checkbox"/> RUN		
DEPTH	TYPE OF EQUALIZING SUB.	CASING PRESSURE		
SPACERS	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	
	TREE CONNECTION	TYPE VALVE	SUB-TOTAL	9170.38
			APPLICABLE TAXES WILL BE ADDED ON INVOICE	

**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/ENGINEER	EMP #	HALLIBURTON APPROVAL
Scott Corro	X Scott Corro	Allen F. Weal	86101	



HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

15-135-24053

ORIGINAL

TICKET NO.

396482

Truck# (s)		CUSTOMER		WELL		DATE		PAGE		
4444-5070		American Warrior		Williams #6		6:25 AM 5/8/98		2		
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
504-260				Mid Con II	500	sk			\$14.17	<del>87,585.36</del>
509-406				Calcium Chloride	9	sk			\$46.90	\$422.10
507-210				Flocele	125	lb.			\$2.09	\$261.25
<p><b>RECEIVED</b> KANSAS CORPORATION COMMISSION SEP 18 1998 CONSERVATION DIVISION WICHITA, KS</p>										
500-207				SERVICE CHARGE			CUBIC FEET	551	1.66	\$914.66
500-306				WHALEGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES			
					46,725	45	1116.613		1.25	\$1,398.52

CONTINUATION TOTAL \$ 8,381.13  
~~16,561.55~~

No. B 660328



# JOB SUMMARY ORIGINAL

TICKET # <b>396402</b>	TICKET DATE <b>5-8-98</b>
BDA / STATE <b>Ks</b>	COUNTY <b>Ness</b>
PSL DEPARTMENT <b>5001</b>	
CUSTOMER REP / PHONE <b>Scott Corsair</b>	
API / UWI # <b>15-135-24053</b>	
JOB PURPOSE CODE <b>030</b>	

REGION <b>North America</b>	NWA/COUNTRY <b>MIO Cont.</b>
MBU ID / EMP # <b>HA0102 86101</b>	EMPLOYEE NAME <b>Allen F. Werth</b>
LOCATION <b>25525</b>	COMPANY <b>American Warrior</b>
TICKET AMOUNT <b>9170.38</b>	WELL TYPE <b>01</b>
WELL LOCATION <b>S.W. Bazine Ks</b>	DEPARTMENT <b>5001</b>
LEASE / WELL # <b>Williams #16</b>	SEC / TWP / RNG <b>36-19-23</b>

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>Allen F. Werth 86101</b>			
<b>Ron Berens 57220</b>			
<b>John Becker 43227</b>			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>420624 P.U.</b>	<b>2</b>						
<b>51374 Rcm</b>	<b>2</b>						
<b>4444-5070</b>	<b>112</b>						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

**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	<b>10 #s Oye</b>	
Other	<b>2 gal Ch-Six II</b>	
Other		
Other		

DATE	TIME	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<b>5-8-98</b>	<b>0600</b>	<b>5-8-98</b>	<b>0730</b>	<b>5-8-98</b>	<b>0915</b>
				<b>0915</b>	<b>1430</b>

**WELL DATA**

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		<b>5 1/2</b>	<b>15L</b>		
Liner					
Liner					
Tbg/D.P.		<b>2 7/8</b>	<b>KB</b>	<b>2429</b>	
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
<b>5-8-98</b>	<b>7 1/2</b>	<b>5-8-98</b>	<b>3</b>	<b>Open Port Collar @ 2429</b>
<b>TOTAL</b>		<b>TOTAL</b>		

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**SEP 10 1998**

ORDERED	CONSERVATION DIVISION	WICHITA, KS	HYDRAULIC HORSEPOWER	Avail.	Used
<b>TREATED</b>			<b>AVERAGE RATES IN BPM</b>	Disp.	Overall
<b>FEET</b>			<b>CEMENT LEFT IN PIPE</b>	Reason	

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<b>340</b>	<b>MIO CONT</b>	<b>BLK</b>	<b>2 1/2 CC, 1/4 # Floccle</b>	<b>3.22</b>	<b>11.1</b>
	<b>70</b>	<b>MIO CONT</b>	<b>BLK</b>	<b>2 1/2 CC 1/4 Floccle</b>	<b>1.87</b>	<b>13</b>

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

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
<b>THE INFORMATION STATED HEREIN IS CORRECT</b>			
CUSTOMER'S REPRESENTATIVE SIGNATURE <i>Scott Corsair</i>			

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	15-135-24053
JOB PURPOSE CODE	

REGION North America	NW/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT 9170.38	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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) GAL	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1	0730							on location - came from Long string. Be on location @ 1030 AM 5-8-98. Discuss safety setup & plan job. Get on location. 500 sks mud con 11 w/ 200 cc 40 # Fluorel / sk. 10 # cement dye 2 gal CIA for II. WAIT on Head.
	0845							Start opening tool in hole on 2 7/8 tbg. Tally tbg.
	0923							Found Port collar @ 2479.
	1215					250 #		PST Test to 750 #. open csg & spot 10 BBLs Dye water w/ 4 BBLs fresh water behind it. open Port collar & TAKE inj Rate.
	1232	2	5			500 #		pump 5 BBLs @ 2 BPM & Start mix cement pump 1 BBL + mud CIA to pit out of Braden Head - Run 2 Lines to P.T.
		4				550 #		mix Total of 300 sks @ 11.7 #/gal. mix Total of 70 sks @ 13 #/gal. Disp 13 BBLs F.W. 17 bag cap 14.3" CIA Disp.
			177			900 #		Close Port collar & PST up ok.
			23			1000 #		Release PST & wash around tool.
		3	13			300 #		Pump 20 BBLs - Clean @ 2479.
		3	13			300 #		Run 3 Joints 2509' CIA Clean 20 BBLs washup Equip & Rack up Equip. Job Complete.
	1430							Full Tool

Cmt CIA to P.T. ✓  
 Stateman witness  
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 SEP 10 1998  
 CONSERVATION DIVISION  
 WICHITA, KS

thanks Allen, Ron, John

**SCOTT CORSAIR**

**ORIGINAL**  
15-135-24053

**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.**

WILLIAMS #6  
100' SW OF C NE NE NW  
Section 36-19S-22W  
Ness County, Kansas

**RECEIVED**  
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SEP 18 1998

CONSERVATION DIVISION  
WICHITA, KS

# ORIGINAL

OPERATOR: AMERICAN WARRIOR, INC.  
WELL: WILLIAMS #6  
API NO.: 15-135-24053  
LOCATION: 400' FNL & 2240' FWL, SEC. 36-19S-22W  
WELLSITE: FARMGROUND  
COMMENCED: APRIL 17, 1998  
COMPLETED: APRIL 24, 1998  
ELEVATIONS: 2259' GL ; 2264' KB  
TOTAL DEPTH: 4386' (DRILLER);  
CASING: SURFACE: 8 5/8 @ 315' W/180 SKS  
PRODUCTION: 5 1/2 @ 4375' W/125 SKS  
PORT COLLAR @ 2479  
SAMPLES: 10 FT. FROM 3700' TO T.D.  
LOGS: NONE  
DRILLSTEM TESTS: NONE  
CONTRACTOR: DISCOVERY DRILLING (RIG 2)

REMARKS: Geological supervision: 3700' - T.D.

FORMATION TOPS	ELECTRICAL LOG SUBSEA	SAMPLES SUBSEA	
Anhydrite		1482	+785
Heebner		3733	-1466
Lansing		3784	-1517
Base Kansas City		4124	-1857
Marmaton		4148	-1881
Pawnee		4204	-1937
Ft. Scott		4279	-2012
Cherokee Shale		4303	-2036
Mississippian Osage		4374	-2107



# SAMPLE ZONE DESCRIPTION

Driller's Measurements

## LANSING-KANSAS CITY 3784 -1517

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

## FT. SCOTT 4279 -2012

**Limestone:** tan, micritic and sparry, poor intercrystalline porosity, very slight show of free oil, good fluorescence, excellent cut, no odor.

## CHEROKEE 4303 -2036

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

## MISSISSIPPIAN OSAGE 4374 -2107

**Dolomite:** tan, sucrosic, fine grained, good pinpoint porosity, good show of free oil, excellent odor, excellent fluorescence and cut. **Chert:** white, weathered tripolitic, good vuggy porosity, good show of free oil, good fluorescence and excellent cut, good odor.

FORMATION	AMERICAN WARRIOR, INC. Williams #6 100' SW, C NE NE NW 36-19S-22W	SINCLAIR OIL #1 Anna Williams C NE NW 36-19S-22W	SINCLAIR OIL #3 Anna Williams C NW NW 36-19S-22W
Anhydrite	+785		
Lansing	-1517	-1515	-1505
Cherokee	-2036		
Mississippian Osage	-2107	-2105	-2100

## SUMMARY AND RECOMMENDATIONS

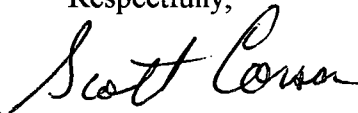
Structural position and sample evaluation indicate probable commercial production from the Mississippian Osage. Based upon available data 5 1/2" production casing was set.

Pipe was set 11 feet off bottom @ 4375'. The following zones are recommended for testing.

1. Mississippian Osage: 4375-4386: Open Hole
2. Ft. Scott: 4287-4294; Before abandonment

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

Respectfully,



Scott Corsair  
Petroleum Geologist