



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1235121  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1235121

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

063962

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend

DATE <u>10-10-14</u>	SEC <u>1d</u>	TWP <u>18</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION <u>10 pm</u>	JOB START <u>3 PM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>Unit</u>	WELL # <u>1-14</u>	LOCATION <u>East on 4 Hwy - San 4th St</u>		COUNTY <u>20cc</u>	STATE <u>10</u>		
OLD OR NEW (Circle one) <u>NEW</u>		to CRD - 1E - 4s - EINF					

CONTRACTOR Duke S  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D.  
CASING SIZE 8 1/2 DEPTH 412.92  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15 ft  
PERFS.  
DISPLACEMENT 24.83 bbl H2O

OWNER  
CEMENT  
AMOUNT ORDERED 275 x class A 3%cc  
2 1/2 gal

EQUIPMENT  
PUMP TRUCK CEMENTER Jes 150cc  
# 399 HELPER Brian Lang  
BULK TRUCK  
# 871-112 DRIVER Kevin Vidinos  
BULK TRUCK  
# DRIVER

COMMON	<u>275</u>	@ <u>17.90</u>	<u>4,922.50</u>
POZMIX		@	
GEL	<u>517</u>	@ <u>.50</u>	<u>258.50</u>
CHLORIDE	<u>775</u>	@ <u>1.10</u>	<u>852.50</u>
ASC		@	
Materials Total			<u>6,033.50</u>
Disc 20%			<u>1,206.70</u>
Service			
HANDLING	<u>297.37</u>	@ <u>2.48</u>	<u>737.48</u>
MILEAGE	<u>13.57 x 29 x</u>	<u>2.75</u>	<u>1,082.31</u>

REMARKS:

On location - rig up - had setting meeting  
Run 8 1/2 casing - Break circulation  
pump 5 bbl H2O  
mix 275 x class A 3%cc 2 1/2 gal  
Drop Plug  
Displace 24.83 bbl H2O  
Shut in  
Cement did circulate  
Rig down

DEPTH OF JOB			
PUMP TRUCK CHARGE		<u>1512.35</u>	
EXTRA FOOTAGE		@	
MILEAGE Hum	<u>29</u>	@ <u>7.70</u>	<u>223.30</u>
MANIFOLD		@	
	<u>Hum 29</u>	@ <u>4.40</u>	<u>127.60</u>

CHARGE TO: American Warrior  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3,682.84  
Disc 20% 736.57

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

TOTAL Disc 0% 0

PRINTED NAME X STEVE H. STEPHENS  
SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 9,716.34  
DISCOUNT 20% 1,943.22 IF PAID IN 30 DAYS  
7,773.07



CHARGE TO: American Warrior Inc  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 26820

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays Ks.</u>	WELL/PROJECT NO. <u>#1-14</u>	LEASE <u>Habigor Unit</u>	COUNTY/PARISH <u>Rice</u>	STATE <u>Ks</u>	CITY	DATE <u>10-14-14</u>	OWNER <u>same</u>
2. <u>Ness City Ks.</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drlg #8</u>	RIG NAME/NO.	SHIPPED VIA <u>ET</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>Longstring</u>	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							
575		1			MILEAGE #111	80	mi			6.00	480.00
578		1			Pump Charge (Longstring)	1	eq	3400	'	1500.00	1500.00
221		1			KCL	2	gal			25.00	50.00
281		1			Mud Flush	500	gal			1.25	625.00
290		1			D-Air	2	gal			42.00	84.00
402		1			Centralizers	8	ea	5 1/2"		70.00	560.00
403		1			Basket	1	ea			300.00	300.00
406		1			LD Plug + Ball/le	1	ea			275.00	275.00
407		1			Basket Float Shoe w/ fill	1	ea			375.00	375.00

**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

X [Signature]  
 DATE SIGNED 10-15-14 TIME SIGNED 10345  A.M.  P.M.

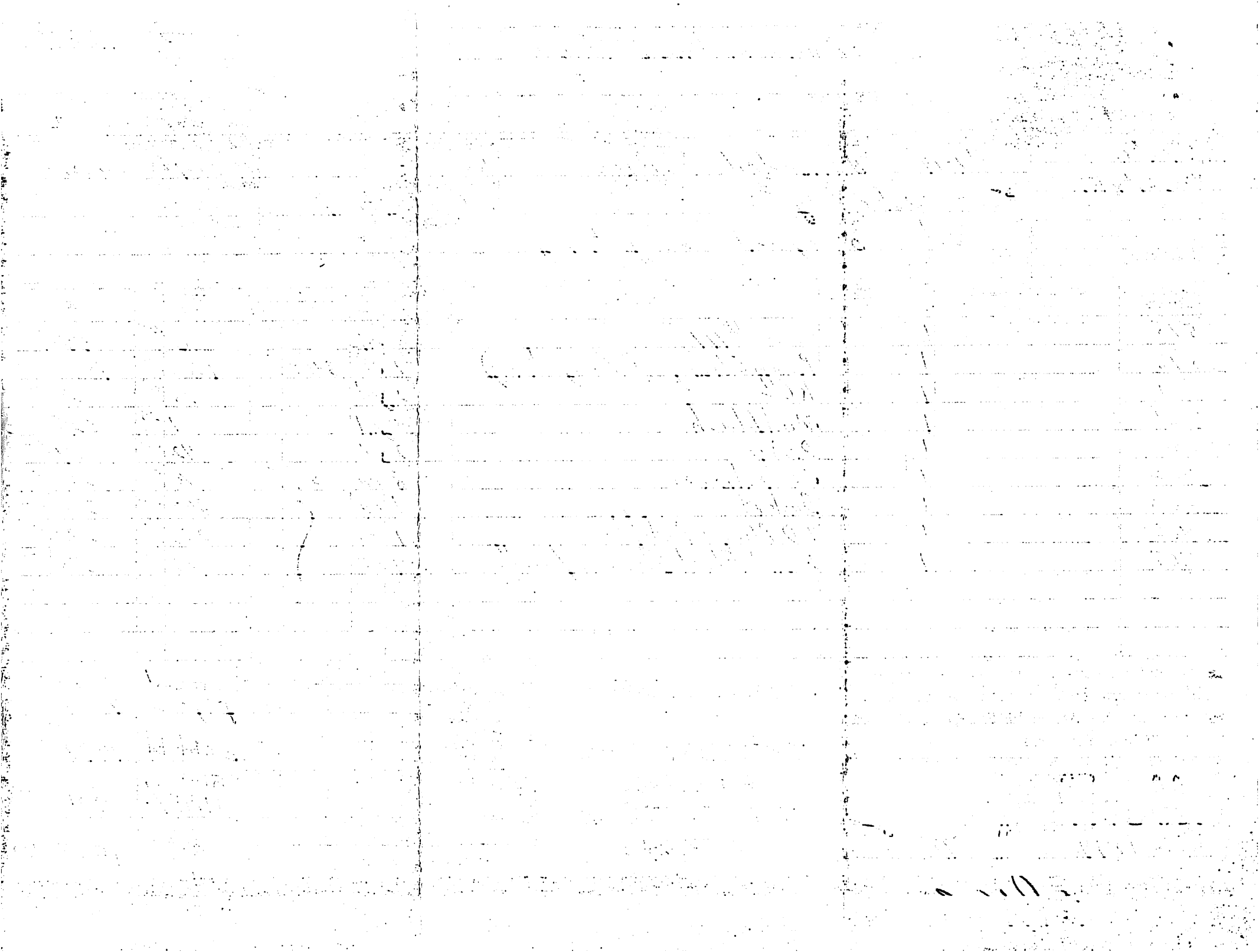
REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	4249.00
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	4873.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	9092.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rice TAX 7.15%	431.25
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	9523.75
<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.

SWIFT OPERATOR [Signature] APPROVAL \_\_\_\_\_

Thank You!





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 26820

CUSTOMER American Warrior Inc.

WELL #1-14 Harpiger Unit

DATE 10-14-14

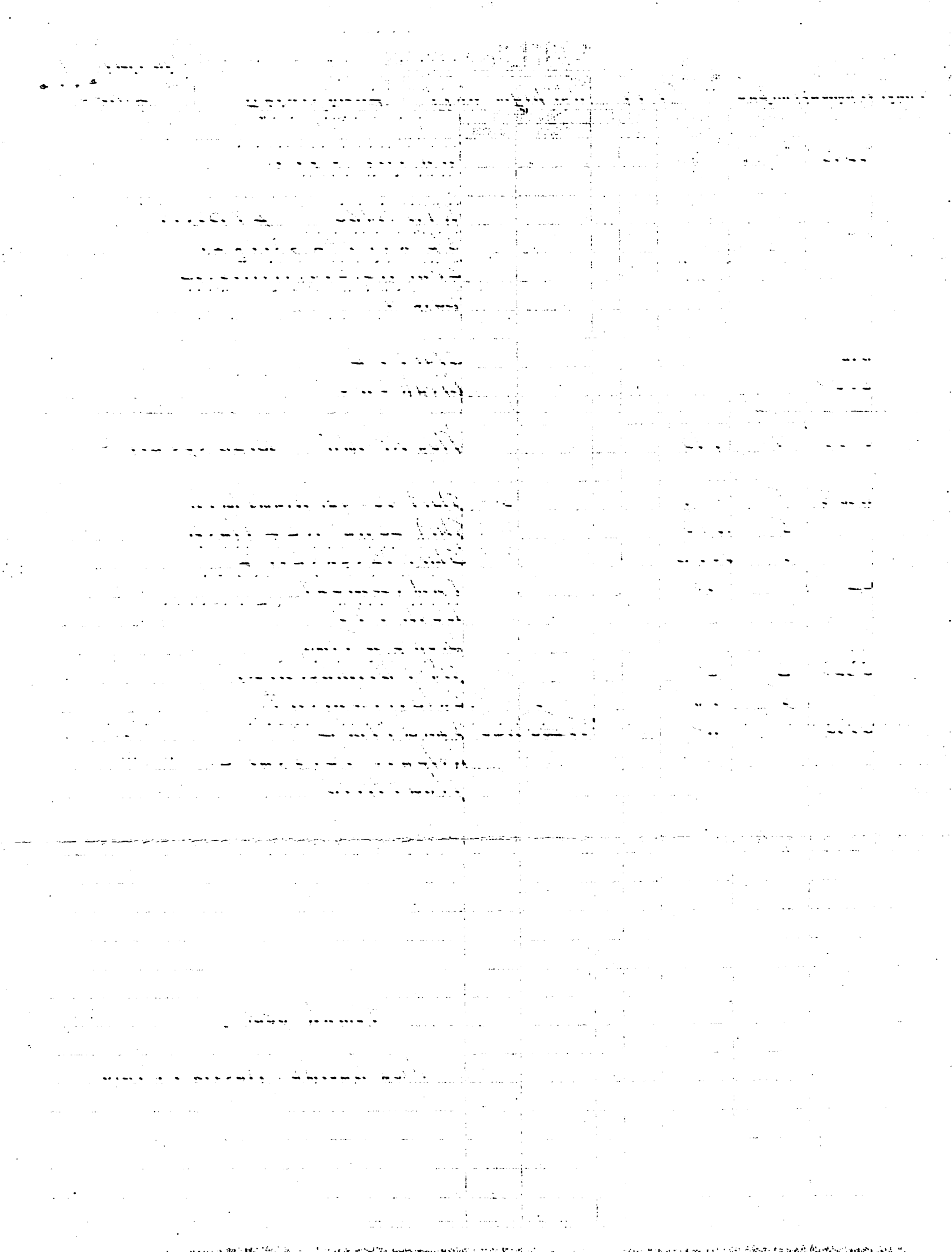
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
325		2				Standard Cement	175	skts			14 <sup>50</sup>	2537 <sup>50</sup>
276		2				Flocele	50	#	1/4	#/sk	2 <sup>50</sup>	125 <sup>00</sup>
283		2				salt	900	#	10	%	2 <sup>0</sup>	180 <sup>00</sup>
284		2				Calseal	8	skts	5	%	35 <sup>00</sup>	280 <sup>00</sup>
292		2				Halad-322	80	#			8	640 <sup>00</sup>
581		2				SERVICE CHARGE	175	skts			2 <sup>00</sup>	350 <sup>00</sup>
583		2				MILEAGE CHARGE	TOTAL WEIGHT 18280		LOADED MILES 80		1 <sup>00</sup>	731 <sup>00</sup>
							CUBIC FEET		TON MILES 731			

CONTINUATION TOTAL 4843<sup>50</sup>









## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd  
Garden City KS 67846

ATTN: Wyatt Urban

### **Habiger Unit #1-14**

### **14-18s-10w Rice,KS**

Start Date: 2014.10.13 @ 23:00:00

End Date: 2014.10.14 @ 04:52:00

Job Ticket #: 60450                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.16 @ 14:05:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 3118 Cummings Rd  
 Garden City KS 67846  
 ATTN: Wyatt Urban

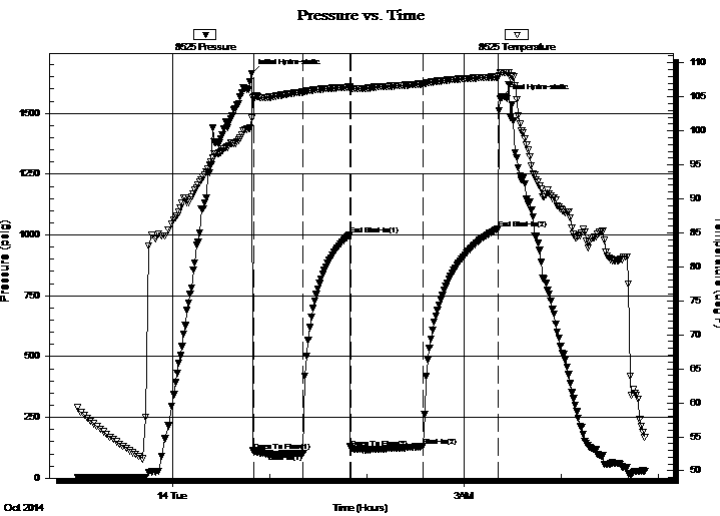
**14-18s-10w Rice, KS**  
**Habiger Unit #1-14**  
 Job Ticket: 60450 **DST#: 1**  
 Test Start: 2014.10.13 @ 23:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:50:00  
 Time Test Ended: 04:52:00  
 Interval: **3204.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: S5  
 Reference Elevations: 1765.00 ft (KB)  
 1757.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8525 Outside**  
 Press@RunDepth: 129.90 psig @ 3271.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.10.13 End Date: 2014.10.14 Last Calib.: 2014.10.14  
 Start Time: 23:01:00 End Time: 04:52:00 Time On Btm: 2014.10.14 @ 00:48:30  
 Time Off Btm: 2014.10.14 @ 03:22:30

**TEST COMMENT:** IFP 30 - Fair blow built bottom of bucket in 22 minutes tool chased 10 feet to bottom  
 ISIP 30 - No blow back  
 FFP 45 - Weak blow built bottom of bucket in 45 minutes  
 FSIP 45 - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.65	101.84	Initial Hydro-static
2	112.00	104.97	Open To Flow (1)
32	103.19	105.69	Shut-In(1)
61	998.92	106.44	End Shut-In(1)
62	123.76	106.23	Open To Flow (2)
106	129.90	106.91	Shut-In(2)
153	1025.81	107.94	End Shut-In(2)
154	1561.66	108.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	oil cut mud 10%oil 90%mud	0.84
60.00	Mud Oil 20%mud 80%oil	0.84
60.00	Gas oil 10%gas 90%oil	0.84

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
3118 Cummings Rd  
Garden City KS 67846  
ATTN: Wyatt Urban

**14-18s-10w Rice,KS**  
**Habiger Unit #1-14**  
Job Ticket: 60450 **DST#: 1**  
Test Start: 2014.10.13 @ 23:00:00

## Tool Information

Drill Pipe:	Length: 3183.00 ft	Diameter: 3.80 inches	Volume: 44.65 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.65 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3204.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3181.00	
Hydraulic tool	5.00			3186.00	
Jars	6.00			3192.00	
Safety Joint	2.00			3194.00	
Packer	5.00			3199.00	28.00 Bottom Of Top Packer
Packer	5.00			3204.00	
Change Over Sub	0.75			3204.75	
Drill Pipe	63.50			3268.25	
Change Over Sub	0.75			3269.00	
Recorder	1.00	8400	Inside	3270.00	
Recorder	1.00	8525	Outside	3271.00	
Anchor	11.00			3282.00	
Bullnose	3.00			3285.00	81.00 Bottom Packers & Anchor

**Total Tool Length: 109.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
3118 Cummings Rd  
Garden City KS 67846  
ATTN: Wyatt Urban

**14-18s-10w Rice,KS**  
**Habiger Unit #1-14**  
Job Ticket: 60450      **DST#: 1**  
Test Start: 2014.10.13 @ 23:00:00

## Mud and Cushion Information

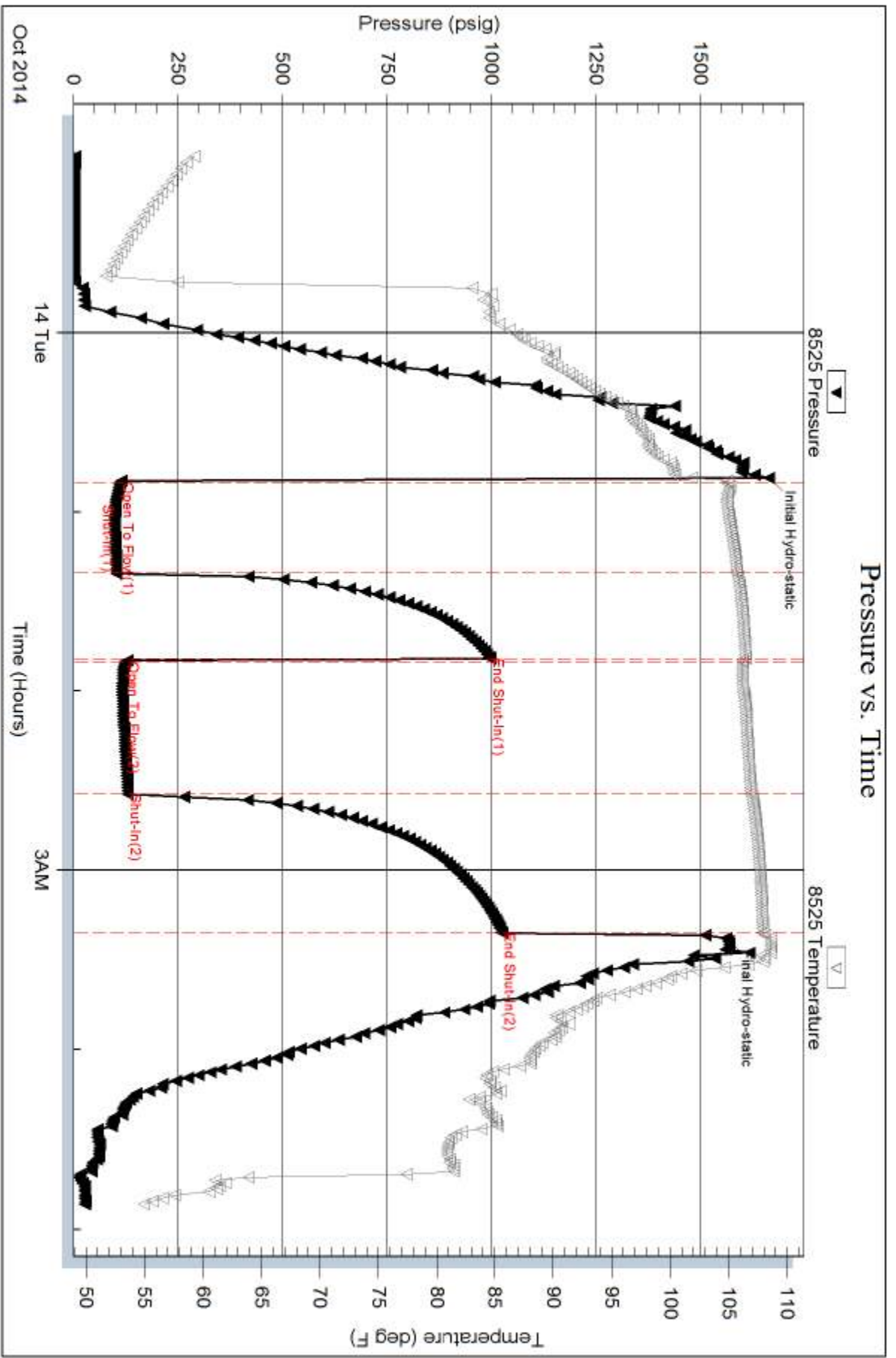
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	oil cut mud 10%oil 90%mud	0.842
60.00	Mud Oil 20%mud 80%oil	0.842
60.00	Gas oil 10%gas 90%oil	0.842

Total Length: 180.00 ft      Total Volume: 2.526 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60450**

4/10

Well Name & No. Habinger Unit # 1-14 Test No. 1 Date 10-13-2014  
 Company American Warrior Inc Elevation 1765 KB 1757 GL  
 Address 3118 Cummings RD Garden City KS 67846  
 Co. Rep / Geo. Wyatt Vidman Rig Duke Drilling Rig #8  
 Location: Sec. 14 Twp. 18 Rge. 10 Co. Rice State KS

Interval Tested 3204-3285 Zone Tested Arbuckle  
 Anchor Length 8100 Drill Pipe Run 3183 Mud Wt. 9.0  
 Top Packer Depth 3199 Drill Collars Run - Vis 50  
 Bottom Packer Depth 3204 Wt. Pipe Run - WL 8.0  
 Total Depth 3285 Chlorides 3400 ppm System LCM -

Blow Description IFP - Fair Blow Built Bottom of Bucket in 22 minutes Tool chesed 10 feet  
ISIP - NO Blow Back  
FFP - Weak Blow Built Bottom Bucket in 45 minutes  
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Gas oil</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>m.o.</u>		<u>80</u>		<u>20</u>
<u>60</u>	<u>spoil cement</u>		<u>10</u>		<u>90</u>

Rec Total 180 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1664  Test 1150 T-On Location 10:40pm  
 (B) First Initial Flow 112  Jars 250 T-Started 11:00pm  
 (C) First Final Flow 103  Safety Joint 75 T-Open 12:45a  
 (D) Initial Shut-In 998  Circ Sub \_\_\_\_\_ T-Pulled 3:15a  
 (E) Second Initial Flow 123  Hourly Standby \_\_\_\_\_ T-Out 4:52a  
 (F) Second Final Flow 129  Mileage 70 RT Great Bend Comments \_\_\_\_\_  
 (G) Final Shut-In 1025  Sampler 52rt 80.60 \_\_\_\_\_  
 (H) Final Hydrostatic 1561  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1555.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1555.60

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# Mudgrouve

**Petroleum Geology**  
**212 Main Street, Claflin KS**

**NOTES**

Company: American Warrior, Inc.  
 Lease: Habiger Unit 1-14  
 Field: None  
 Location: NW-NW-SW-NW ( 1639' FNL & 130' FWL)  
 Sec: 14 Twsp: 18S Rge: 10W  
 County: Rice State: Kansas

KB: 1765" GL: 1757"  
 API #: 15-159-22805-00  
 Contractor: Duke Drilling Inc. (Rig #8)  
 Spud: 10/09/2014 Comp: 10/14/2014  
 RTD: 3400' LTD: 3394'  
 Mud Up: 2600' Type Mud: Chemical

Samples Saved From: 2700' to RTD  
 Drilling Time Kept From: 2700' to RTD  
 Samples Examined From: 2700' to RTD  
 Geological Supervision from: 2700' to RTD  
 Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8" @ 412'  
 Production Casing: 5 1/2" @ 3395'

Electronic Surveys: Logged by Pioneer Energy Services: DIL, MEL, CNL/CDL

# American Warrior, Inc.

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
American Warrior-Habiger Unit 1-14					American Warrior-Delbert 1-15				Circle Oil Co. Mehl #1			
● NW-NW-SW-NW oil 14-18S-10W					● SW-NE-NE-NE oil 15-18S-10W				○ NE-SW-NW dry hole 14-18S-10W			
1765 KB					1774 KB				1764 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	475	1290	477	1288	484	1290	0	-2	458	1306	-16	-18
B. Anhydrite	492	1273	494	1271	501	1273	0	-2				
Heebner	2802	-1037	2803	-1038	2807	-1033	-4	-5	2801	-1037	0	-1
Toronto	2816	-1051	2822	-1057	2824	-1050	-1	-7				
Douglas	2832	-1067	2831	-1066	2836	-1062	-5	-4				
Brown Lime	2922	-1157	2923	-1158	2926	-1152	-5	-6				
Lansing	2936	-1171	2942	-1177	2947	-1173	2	-4	2950	-1186	15	9
BKC	3213	-1448	3212	-1447	3212	-1438	-10	-9	3220	-1456	8	9
Conglomerate	3261	-1496	3257	-1492	3257	-1483	-13	-9				
Arbuckle	3275	-1510	3273	-1508	3273	-1499	-11	-9	3279	-1515	5	7
RTD	3400	-1635	3400	-1635	3400	-1626	-9	-9	3295	-1531	-104	-104
LTD	3394	-1629	3394	-1629	3400	-1626	-3	-3				



## DRILL STEM TEST REPORT

American Warrior Inc

14-18s-10w Rice

2118 Cummings Rd

Habiger Unit #1 14





3118 Cummings Rd  
Garden City KS 67846  
ATTN: Wyatt Urban

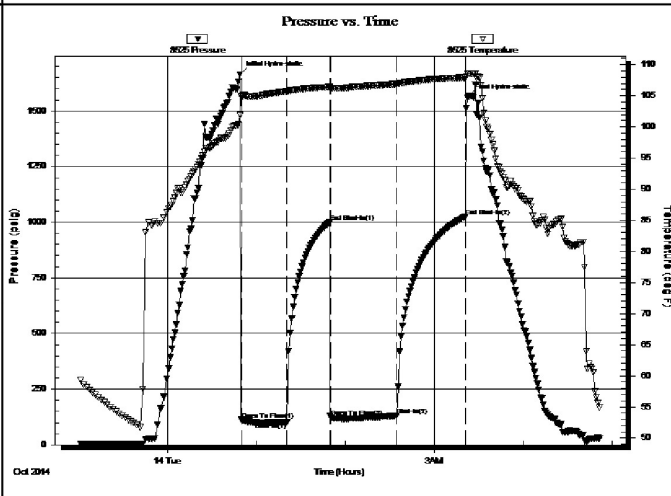
Hubiger Unit #1-14  
Job Ticket: 60450 DST#: 1  
Test Start: 2014.10.13 @ 23:00:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:50:00  
 Time Test Ended: 04:52:00  
 Interval: **3204.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: S5-Great Bend-70  
 Reference Elevations: 1765.00 ft (KB)  
 1757.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8525 Outside**  
 Press@RunDepth: 129.90 psig @ 3271.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.10.13 End Date: 2014.10.14 Last Calib.: 2014.10.14  
 Start Time: 23:01:00 End Time: 04:52:00 Time On Btm: 2014.10.14 @ 00:48:30  
 Time Off Btm: 2014.10.14 @ 03:22:30

**TEST COMMENT:** IFP 30 Minutes-Fair blow built bottom of bucket in 22 minutes tool chased 10 feet to bottom  
 ISIP 30 Minutes-No blow back  
 FFP 45 Minutes-Weak blow built bottom of bucket in 45 minutes  
 FSIP 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.65	101.84	Initial Hydro-static
2	112.00	104.97	Open To Flow (1)
32	103.19	105.69	Shut-In(1)
61	998.92	106.44	End Shut-In(1)
62	123.76	106.23	Open To Flow (2)
106	129.90	106.91	Shut-In(2)
153	1025.81	107.94	End Shut-In(2)
154	1561.66	108.59	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	oil cut mud 10%oil 90%mud	0.84
60.00	Mud Oil 20%mud 80%oil	0.84
60.00	Gas oil 10%gas 90%oil	0.84

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

**ROCK TYPES**

- Cht vari
- Dolprim
- Lmst fw<7
- shale, grn
- shale, gry
- Carbon Sh
- shale, red

**ACCESSORIES**

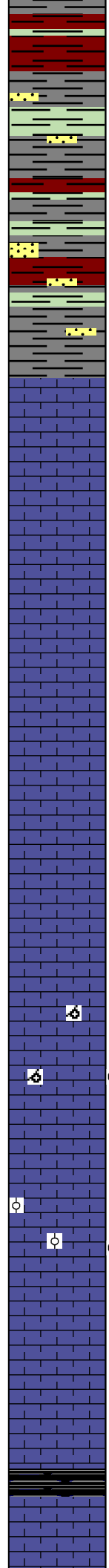
- FOSSIL**  
 Oolite  
 Oomoldic
- STRINGER**  
 Sandstone

**OTHER SYMBOLS**

- Oil Show**  
 Good Show  
 Fair Show  
 Poor Show  
 Spotted or Trace  
 Questionable Stn  
 Dead Oil Stn
- DST**  
 DST Int  
 DST alt  
 Core  
 tail pipe



2880  
2900  
2920  
2940  
2960  
2980  
3000  
3020  
3040  
3060  
3080



Sh. A/A, Trc. Sd. gry, F. grain, well sorted, no shows,

Sh. black, gry, maroon, Trc. Sd. A/A

**Brown Lime 2922.0 (-1157.0)**

LS, brown, FXL, dense, poor visible porosity, no shows

**Lansing 2936.0 (-1171.0)**

LS, cream, tan, FXL, few foss, poor visible porosity, no shows, trc. black stain

LS, cream, tan, FXL, few foss, poor visible porosity, no shows

LS, cream, buff, FXL, poor visible porosity, chalky, no shows,

LS, cream, tan, FXL, few foss, poor visible porosity, no shows

LS, cream, tan, brown, FXL, foss, poor scattered porosity, NSFO, odor???

LS, cream, tan, chalky, ool, poorly developed, poor oom vuggy porosity, Trc. SFO, odor???, trc. black stain

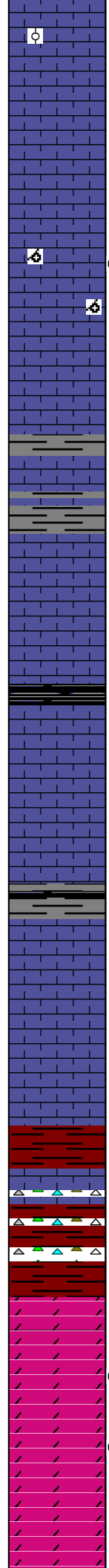
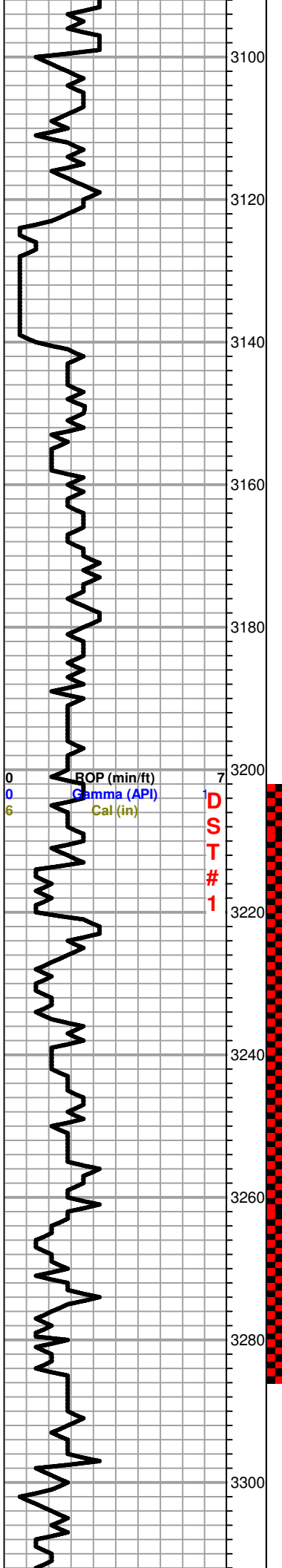
LS, tan, ool, poor oom porosity, Tr. SFO, odor???, trc. brown stain

LS, cream, white, FXL, poor visible porosity, chalky, no shows

Black carb sh.

ROP (min/ft) 7  
Gamma (API) 150  
Gal (in) 16

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS, cream, tan, brown, ool, poor scattered porosity, cherty in pts, no shows,

LS, tan, FXL, foss, poor scattered porosity, no shows, no odor

LS, white, cream, ool, chalky, poor - fair scattered oom porosity, NSFO trc. black stain.

LS, cream, tan, FXL, few foss, poor scattered porosity, chalky in parts, no shows, Trc. gry silty sh.

LS, white, tan, FXL, dense, cherty, poor visible porosity, no shows

Sh. black carb, gry, silty

LS, cream, white, FXL, poor visible porosity, chalky, no shows

**BKC 3213.0 (-1448.0)**

Sh. black, maroon, greenish,

LS, white, cream, white, FXL, chalky, few foss, poor visible porosity, no shows

**Conglomerate 3246.0 (-1481.0)**

Sh. maroon, soft, red wash, trc. cherts white, opaque, orange

LS, cream, tan, FXL, few foss, poor scattered porosity, no shows

Sh. maroon, greenish, trc. cherts, A/A, no shows

**Arbuckle 3275.0 (-1510.0)**

Dol. white, FXL, dense, poor scattered porosity, Lt. spty SFO, Fair odor, Lt. brown stain

Dol. white, F-Med XLN, suc. poor-fair scattered porosity, fair INXLN porosity, Lt. SFO, fair odor, Lt. brown stain

Dol. white, F-Med XLN, rhombic, fair INXLN porosity, no shows, ft. odor,

0	Total Gas (units)	100
0	C1 (units)	100

**DST #1 3204-3285**

30-30-45-45

Blow: BOB 22 min.

Recovery:

60' GO  
(10% G, 90%O)

60' OCM  
(80%O, 20%M)

60' OCM  
(10%O, 90%M)

Pressures

ISIP 998 psi  
FSIP 1025 psi  
IFP 112-103 psi  
FFP 123-129 psi  
HSH 1664-1561 psi

