



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209131
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: _____

1209131

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Wait 7
Doc ID	1209131

All Electric Logs Run

Sonic
Micro
Dual IND.
Dual Comp. porosity

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Wait 7
Doc ID	1209131

Tops

Name	Top	Datum
Heebner	4150	-2268
Lansing	4341	-2459
Pawnee	4921	-3039
Cherokee	4966	-3084
Miss	5053	-3171
Kinderhook	5758	-3876
Viloa	5848	-3966
Simpson	6102	-4220
Arbuckle	6160	-4278

ALLIED OIL & GAS SERVICES, LLC 062742

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>03/25/14</u>	SEC <u>6</u>	TWP. <u>33S</u>	RANGE <u>19W</u>	CALLED OUT <u>1:30 PM</u>	ON LOCATION <u>4:30 PM</u>	JOB START <u>8:00 PM</u>	JOB FINISH <u>12:00 midnight</u>
LEASE <u>Wait</u>	WELL # <u>7</u>	LOCATION <u>Coldwater KS, South to Jct, 5</u>			COUNTY <u>Comanche</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		West on 160, .4 North, West into					

CONTRACTOR Duke #5 OWNER American Warrior

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 615 CEMENT AMOUNT ORDERED 450 cu Class A + 3% cement

CASING SIZE 8 3/8 24# DEPTH 601 2% Gel

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 600 MINIMUM

MEAS. LINE SHOE JOINT 42

CEMENT LEFT IN CSG. 42

PERFS.

DISPLACEMENT 36 BBLs Fresh H₂O

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thimrich

471/265 HELPER Ron Gilley

BULK TRUCK

421/298 DRIVER CJ Rackley

BULK TRUCK

DRIVER

COMMON Class A 450 cu @ 17.90 8055.00

POZMIX @

GEL 9 cu @ 23.40 210.60

CHLORIDE 16 cu @ 64.00 1024.00

ASC @

@

@

@

@

@

@

@

HANDLING 486.76 cu ft @ 2.48 1207.16

MILEAGE 220 mi @ 54 mi @ 2.60 317.95

TOTAL 13,614.69

REMARKS:

SERVICE

DEPTH OF JOB 601

PUMP TRUCK CHARGE 2058.50

EXTRA FOOTAGE @

MILEAGE 54 mi @ 7.70 415.80

MANIFOLD + Head @ 2.75

LV 54 mi @ 4.40 237.60

TOTAL 2956.90

CHARGE TO: American Warrior

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

8 5/8

Centralizers 3 @ 75.00 225.00

Baskets 2 @ 560.00 1120.00

AFI insert 1 @ 447.00

Rubber Plug 1 @ 131.00

TOTAL 1923.00

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.

PRINTED NAME KENNETH MCGUIRE

SIGNATURE Kenneth McGuire

SALES TAX (If Any) _____

TOTAL CHARGES 18,524.59

DISCOUNT _____ IF PAID IN 30 DAYS

(Net) 15,204.27



CHARGE TO: *American Warrior Inc.*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 25425

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>Hays, Ks.</i>	WELL/PROJECT NO. <i>#7</i>	LEASE <i>Wait</i>	COUNTY/PARISH <i>Comanche</i>	STATE <i>Ks</i>	CITY	DATE <i>4-17-14</i>	OWNER <i>same</i>
2. <i>Ness City, Ks.</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Red Rock Well Service</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Location</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Port Collar</i>	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							
<i>575</i>		<i>1</i>			<i>MILEAGE #111</i>	<i>100</i>	<i>mi</i>			<i>6.00</i>	<i>600.00</i>
<i>576D</i>		<i>1</i>			<i>Pump Charge (Port Collar)</i>	<i>1.00</i>		<i>14</i>	<i>'</i>	<i>1500.00</i>	<i>1500.00</i>
<i>290</i>		<i>1</i>			<i>D-Air</i>	<i>2</i>	<i>gal</i>			<i>42.00</i>	<i>84.00</i>
<i>330</i>		<i>2</i>			<i>SMD Cement</i>	<i>200</i>	<i>sks</i>			<i>18.50</i>	<i>3700.00</i>
<i>276</i>		<i>2</i>			<i>Flooble</i>	<i>50</i>	<i>#</i>			<i>2.50</i>	<i>125.00</i>
<i>581</i>		<i>2</i>			<i>Cement Service Charge</i>	<i>200</i>	<i>sks</i>			<i>2.00</i>	<i>400.00</i>
<i>583</i>		<i>2</i>			<i>Drayage</i>	<i>977.5</i>	<i>TM</i>			<i>1.00</i>	<i>977.50</i>

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 *4-17-14* TIME SIGNED *1355* 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?			
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	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	<i>7386.50</i>
<i>Comanche TAX 6.15%</i>	<i>240.40</i>
TOTAL	<i>7626.90</i>

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!

JOB LOG

SWIFT Services, Inc.

DATE 1-17-14 PAGE NO. 1

CUSTOMER American Warrior Inc WELL NO. #7 LEASE Wait JOB TYPE Port Collar TICKET NO. 25425

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1015							on loc w/P.C. Tool
								2 3/8" x 5 1/2"
	1200							TIH w/PG Tool locate P.C. @ 1418'
	1250						1000	Test Csg to 1000 Psi
								Open P.C.
	1255	3.5	4				300	Take inj. rate & check for blow
	1300	4	0				300	start Cement 200skts SMD
		4	95				500	circ Cement/Raise wgt
		4	100/0				500	End Cement/start Displacement
	1325		4.5				550	Cement Displaced
								Close P.C.
	1330						1000	Test Csg
								run 5jts
		3	0				150	Reversecut
			15					Hole Clean
								200skts SMD
								circ 20skts topit
								Thank you
								Nick, David E. & Jared



CHARGE TO: **AMERICAN WARRIOR**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 26195

PAGE 1 OF 2

1. SERVICE LOCATION NESS CITY, KS.	WELL/PROJECT NO.	LEASE WAIT #7	COUNTY/PARISH COMANCHE	STATE KS	CITY PROTECTION, KS	DATE 8 APR 14	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DUKE DRILLING RIG #5	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.		
3. WELL TYPE OIL/OBSERVE	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2 LONGSTRING	WELL PERMIT NO.	WELL LOCATION 4SE, N INTO			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	100		mi		6 ⁰⁰	600 ⁰⁰
578					Pump CHARGE	1		JOB		1500 ⁰⁰	1500 ⁰⁰
402					CENTRALIZERS	12		EA.		70 ⁰⁰	840 ⁰⁰
403					CEMENT BASKET	3		EA.		300 ⁰⁰	900 ⁰⁰
404					PORT COLLAR	1		EA.	1418 FT.	2900 ⁰⁰	2900 ⁰⁰
405					FORMATION PACKER SHADE	1		EA.		1650 ⁰⁰	1650 ⁰⁰
406					LATCHDOWN PLUG & BAFFLE	1		EA.		275 ⁰⁰	275 ⁰⁰
281					MUD FLUSH	500		gal		1 ²⁵	625 ⁰⁰
221					LIQUID KCL	2		gal		25 ⁰⁰	50 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 *Kenneth McInerney*
 DATE SIGNED: **4-8-14** TIME SIGNED: **16:30** 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	PAGE #1 TOTAL	9340 ⁰⁰
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE #2 TOTAL	9660 ⁵⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				sub total	19,000 ⁵⁰
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Comanche TAX 6.15%	941 ⁴¹
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	19,941⁹¹
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR: *[Signature]* APPROVAL: _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 26195

CUSTOMER AMERICAN WARRIOR WELL WAIT #7 DATE 8 APR 14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		QTY	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M				
276						FLOCELE	60	lbs			2 ⁵⁰	150 ⁰⁰
285						CFR-1	100	lbs.			4 ⁵⁰	450 ⁰⁰
287						GAS STOP	400	lbs			8 ⁰⁰	3200 ⁰⁰
290						D-AIR	2 1/2	gal			42 ⁰⁰	105 ⁰⁰
330						SMD CEMENT	225	sq			18 ⁵⁰	4162 ⁵⁰
581						SERVICE CHARGE					2 ⁰⁰	450 ⁰⁰
583						MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	CUBIC FEET	TON MILES	1 ⁰⁰	1143 ⁰⁰
							22860	100	225 sq	1143.00		

CONTINUATION TOTAL 9660⁵⁰

JOB LOG

SWIFT Services, Inc.

DATE 8 APR 14 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE WAIT # 7 JOB TYPE 5 2 LONGSTRING TICKET NO. 26195

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							ON LOCATION
	1100							START PIPE 5 1/2 - 17 # RTD @ 6400 SET @ 6218 SHDE JT. 20. CENTRALIZERS 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 112 BASKETS, 2, 6, 113. PORT COLLAR # 113 @ 1418
	1415						1200	SET PACKER SHOE - CIRCULATE.
	1500	6	12				400	Pump 500 gal MWD FLUSH
		6	20				400	Pump 20 BBL KCL SPACER.
			7.5					PLUG RH-30Sx, MH-20Sx
	1520	4	60				250	MIX 175 Sx SMD
								WASH OUT Pump & LINES.
	1550	6						START DISPLACING PLUG.
	1610	Ø	144				1500	PLUG DOWN - LATCH PLUG IN.
								RELEASE PSI - DRY
	1645							WASH TRUCK
	1650							JOB COMPLETE.
								THANKS # 115
								JASON DAVE JUAN



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Keith Reavis

Wait #7

6-33s-19w Comanche,KS

Start Date: 2014.04.01 @ 06:57:26

End Date: 2014.04.01 @ 15:53:11

Job Ticket #: 52488 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.09 @ 11:37:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

6-33s-19w Comanche, KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52488

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.04.01 @ 06:57:26

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:40:26

Time Test Ended: 15:53:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 4854.00 ft (KB) To 4900.00 ft (KB) (TVD)

Reference Elevations: 1882.00 ft (KB)

Total Depth: 4900.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8790

Inside

Press@RunDepth: 21.00 psig @ 4860.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.01

End Date:

2014.04.01

Last Calib.: 2014.04.01

Start Time: 06:57:31

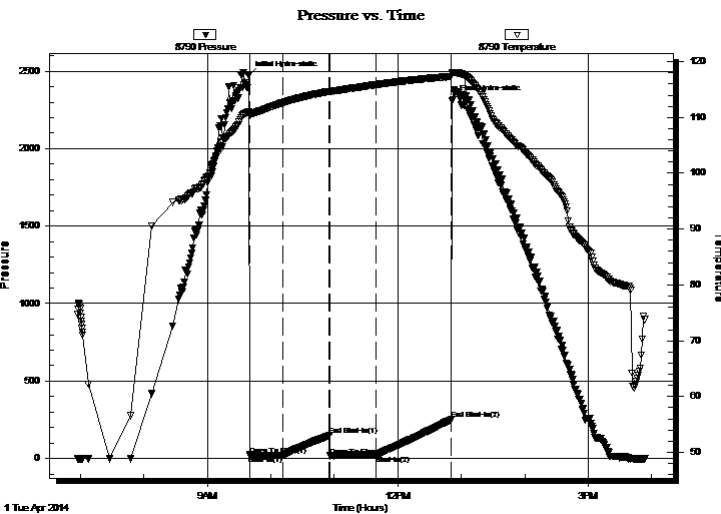
End Time:

15:53:11

Time On Btm: 2014.04.01 @ 09:38:56

Time Off Btm: 2014.04.01 @ 12:52:11

TEST COMMENT: IF: Fair blow . 1" - 5"
IS: No blow
FF: Fair blow . 1" - 3"
FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2471.94	111.01	Initial Hydro-static
2	22.14	110.60	Open To Flow (1)
33	20.09	112.60	Shut-In(1)
77	147.92	114.64	End Shut-In(1)
77	16.77	114.59	Open To Flow (2)
121	21.00	115.84	Shut-In(2)
192	250.93	117.34	End Shut-In(2)
194	2315.87	118.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSLI OspkdM trc%o, 99%m	0.20
0.00	320' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

6-33s-19w Comanche, KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52488

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.04.01 @ 06:57:26

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:40:26

Time Test Ended: 15:53:11

Interval: 4854.00 ft (KB) To 4900.00 ft (KB) (TVD)

Total Depth: 4900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Reference Elevations: 1882.00 ft (KB)

1871.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 4860.00 ft (KB)

Start Date: 2014.04.01

End Date:

2014.04.01

Start Time: 06:52:45

End Time:

15:55:10

Capacity: 8000.00 psig

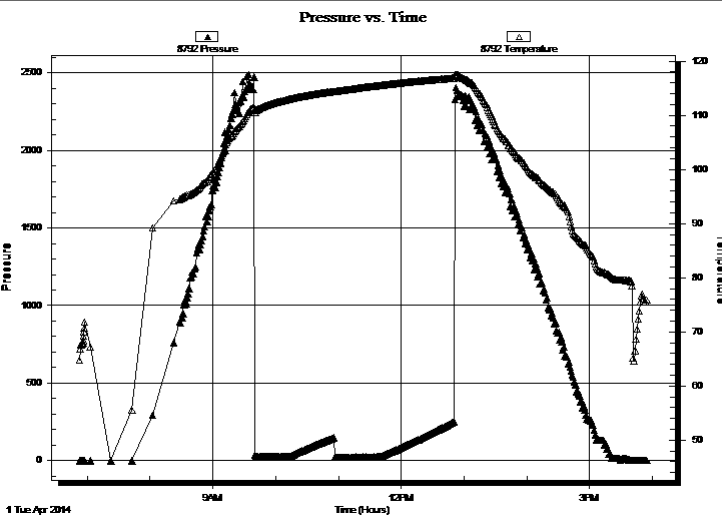
Last Calib.:

2014.04.01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow . 1" - 5"
IS: No blow
FF: Fair blow . 1" - 3"
FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSLI OspkdM trc%o, 99%m	0.20
0.00	320' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52488

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.04.01 @ 06:57:26

Tool Information

Drill Pipe:	Length: 4586.00 ft	Diameter: 3.80 inches	Volume: 64.33 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4854.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4828.00	
Shut In Tool	5.00			4833.00	
Hydraulic tool	5.00			4838.00	
Jars	5.00			4843.00	
Safety Joint	2.00			4845.00	
Packer	5.00			4850.00	27.00 Bottom Of Top Packer
Packer	4.00			4854.00	
Stubb	1.00			4855.00	
Perforations	4.00			4859.00	
Change Over Sub	1.00			4860.00	
Recorder	0.00	8790	Inside	4860.00	
Recorder	0.00	8792	Outside	4860.00	
Drill Pipe	31.00			4891.00	
Change Over Sub	1.00			4892.00	
Perforations	5.00			4897.00	
Bullnose	3.00			4900.00	46.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52488

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.04.01 @ 06:57:26

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:

9000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	VSLI OspkdM trc%o, 99%m	0.197
0.00	320' GIP	0.000

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

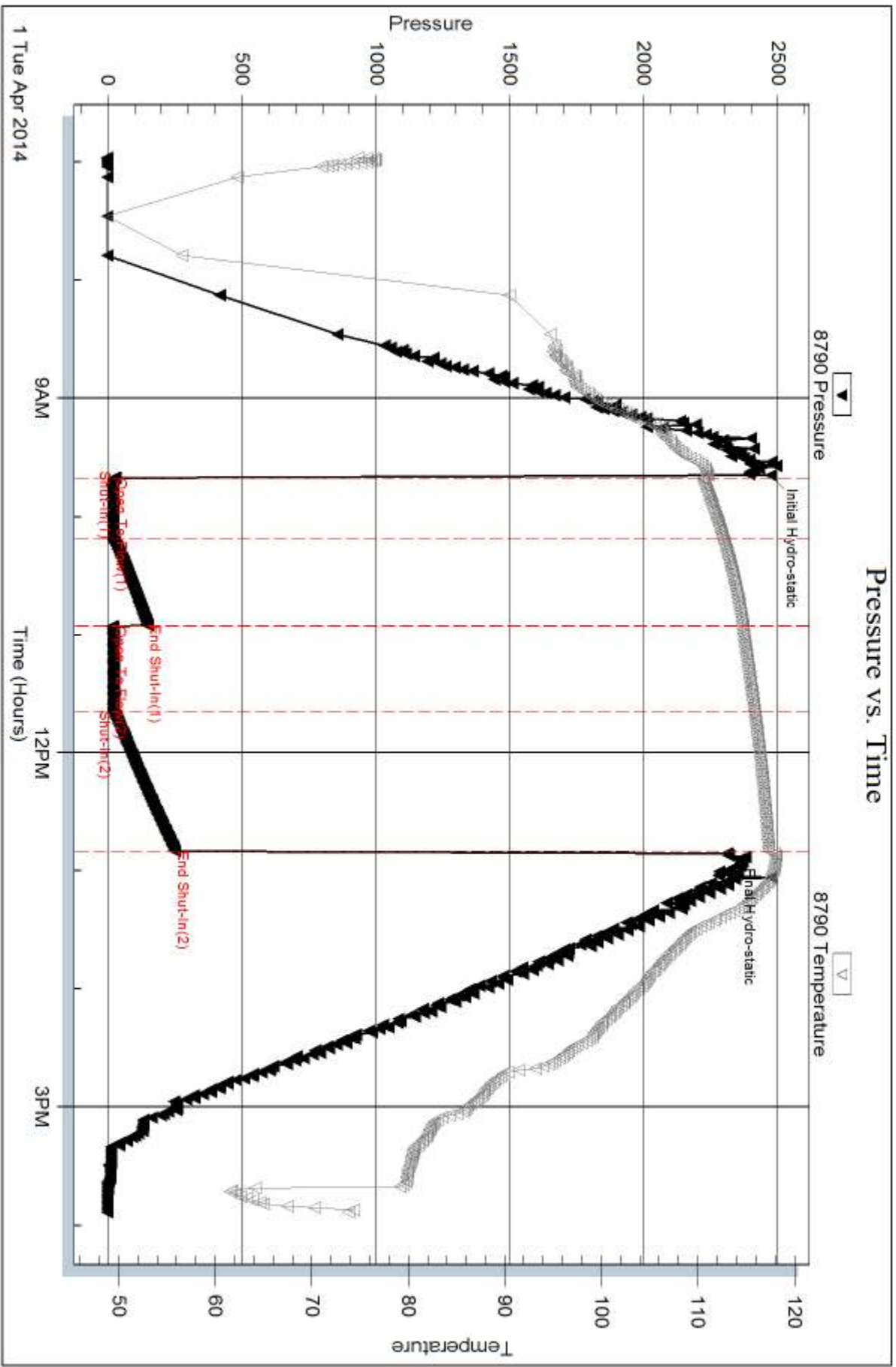
Serial #: 8790

Inside

American Warrior Inc.

Wat #7

DST Test Number: 1

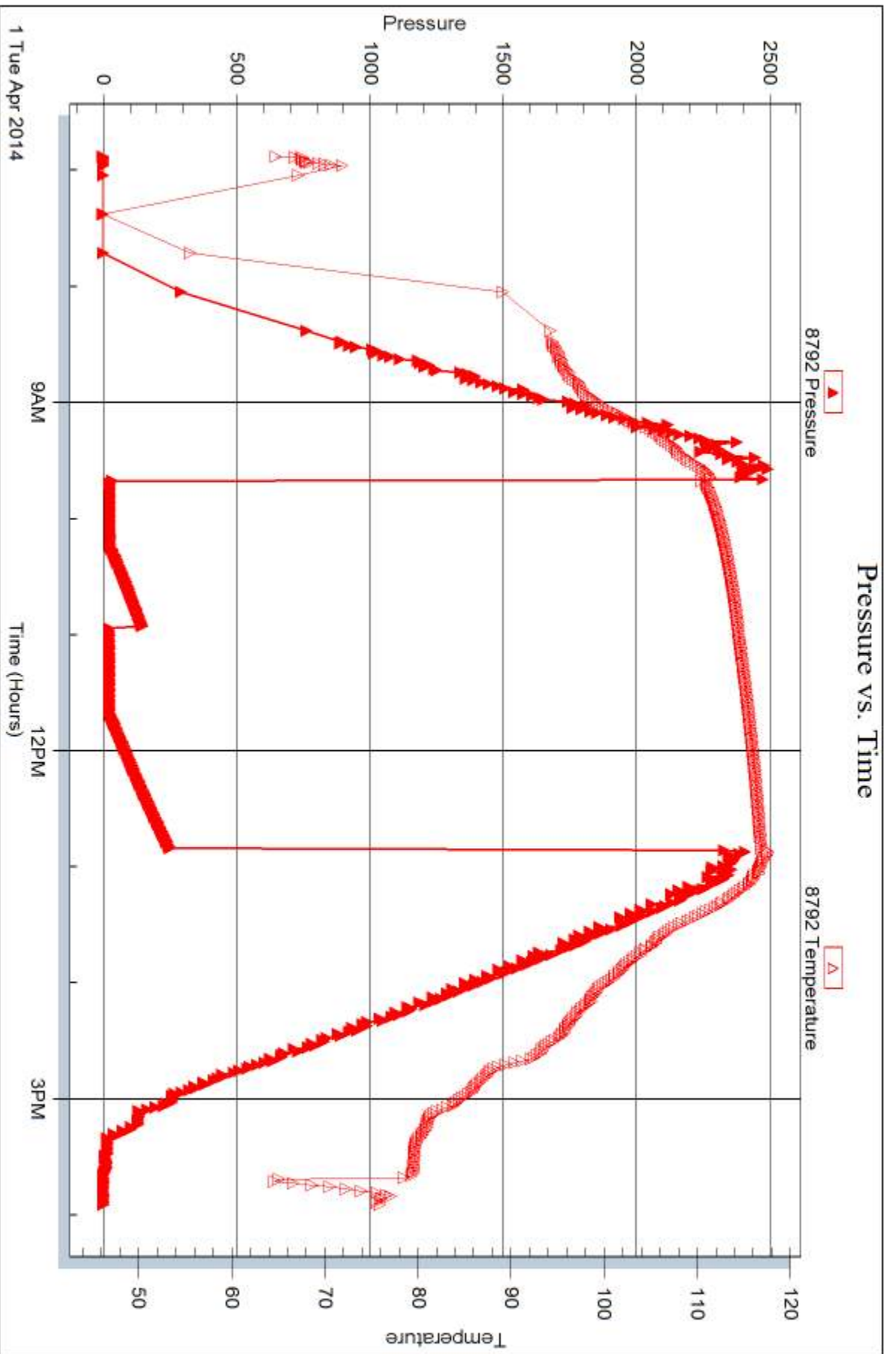


Serial #: 8792

Outside American Warrior Inc.

Wall #7

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 52488

Printed: 2014.04.09 @ 11:37:16



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Keith Reavis

Wait #7

6-33s-19w Comanche,KS

Start Date: 2014.04.02 @ 03:20:09

End Date: 2014.04.02 @ 12:18:54

Job Ticket #: 52489 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.09 @ 11:36:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

6-33s-19w Comanche, KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52489

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.04.02 @ 03:20:09

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:39

Time Test Ended: 12:18:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 4912.00 ft (KB) To 4950.00 ft (KB) (TVD)

Reference Elevations: 1882.00 ft (KB)

Total Depth: 4950.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8792 Outside

Press@RunDepth: 33.67 psig @ 4913.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.02

End Date:

2014.04.02

Last Calib.:

2014.04.02

Start Time: 03:20:14

End Time:

12:18:54

Time On Btm:

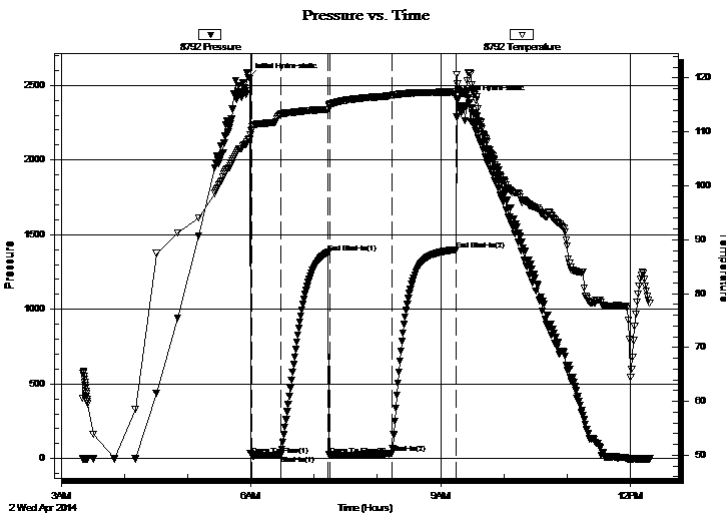
2014.04.02 @ 05:57:24

Time Off Btm:

2014.04.02 @ 09:15:54

TEST COMMENT: IF: Strong blow . BOB @ 8 min.
IS: No blow
FF: Strong blow . BOB immed. GTS @ 42 min.
FS: NO blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2551.74	108.54	Initial Hydro-static
4	19.90	110.39	Open To Flow (1)
31	25.18	113.34	Shut-In(1)
76	1380.57	114.20	End Shut-In(1)
78	24.30	114.97	Open To Flow (2)
137	33.67	116.71	Shut-In(2)
198	1398.83	117.44	End Shut-In(2)
199	2402.13	118.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig mud 100% mud	0.10
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	-
Last Gas Rate	0.13	5.00	1.88
Max. Gas Rate	0.13	5.00	1.88



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52489

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.04.02 @ 03:20:09

Tool Information

Drill Pipe:	Length: 4648.00 ft	Diameter: 3.80 inches	Volume: 65.20 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	71000.00 lb
Drill Pipe Above KB:	7.00 ft			Final	71000.00 lb
Depth to Top Packer:	4912.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4886.00	
Shut In Tool	5.00			4891.00	
Hydraulic tool	5.00			4896.00	
Jars	5.00			4901.00	
Safety Joint	2.00			4903.00	
Packer	5.00			4908.00	27.00 Bottom Of Top Packer
Packer	4.00			4912.00	
Stubb	1.00			4913.00	
Recorder	0.00	8790	Inside	4913.00	
Recorder	0.00	8792	Outside	4913.00	
Perforations	34.00			4947.00	
Bullnose	3.00			4950.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52489

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.04.02 @ 03:20:09

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:

7000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig mud 100%mud	0.098
0.00	GTS	0.000

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 1

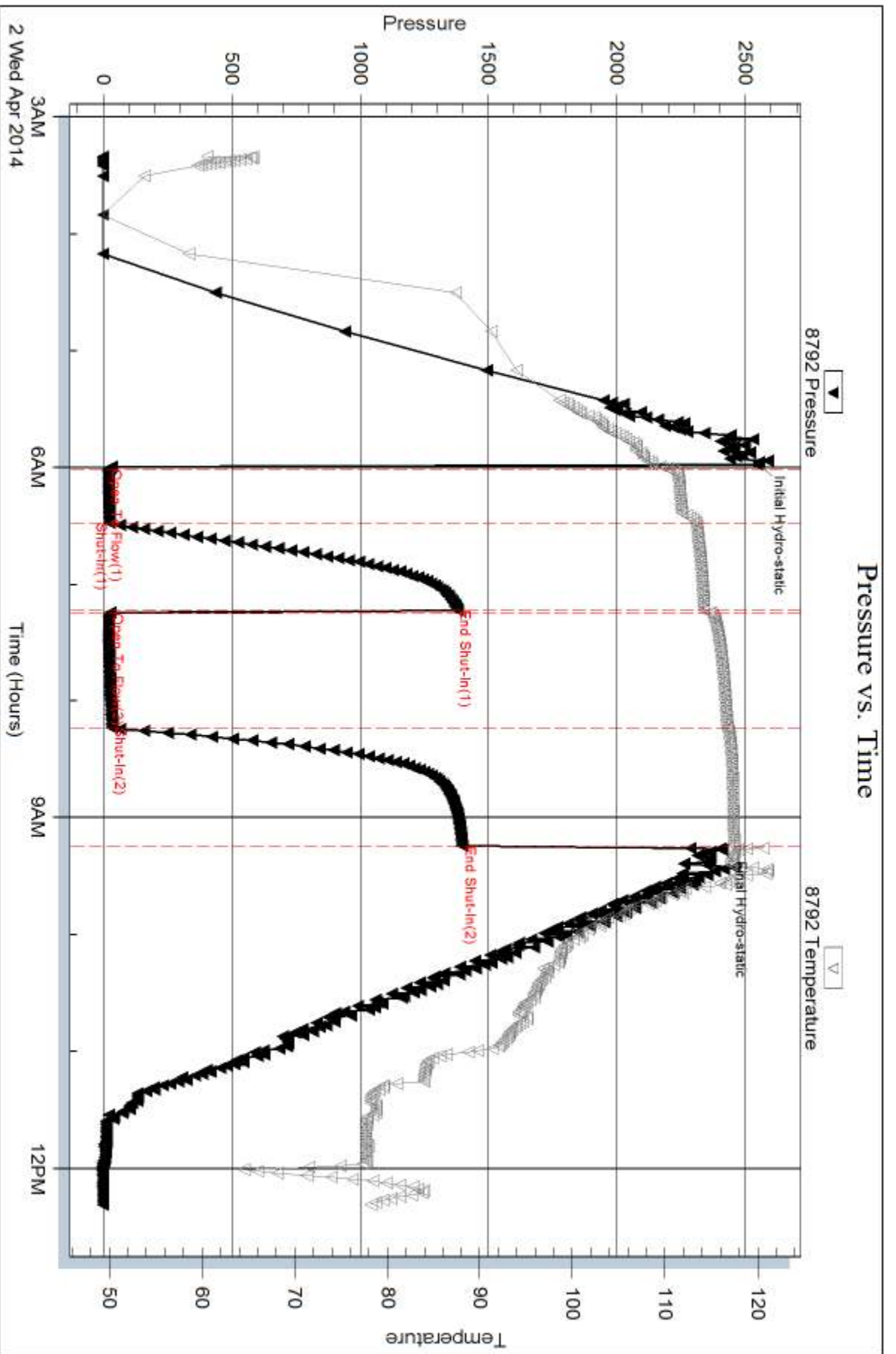
Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



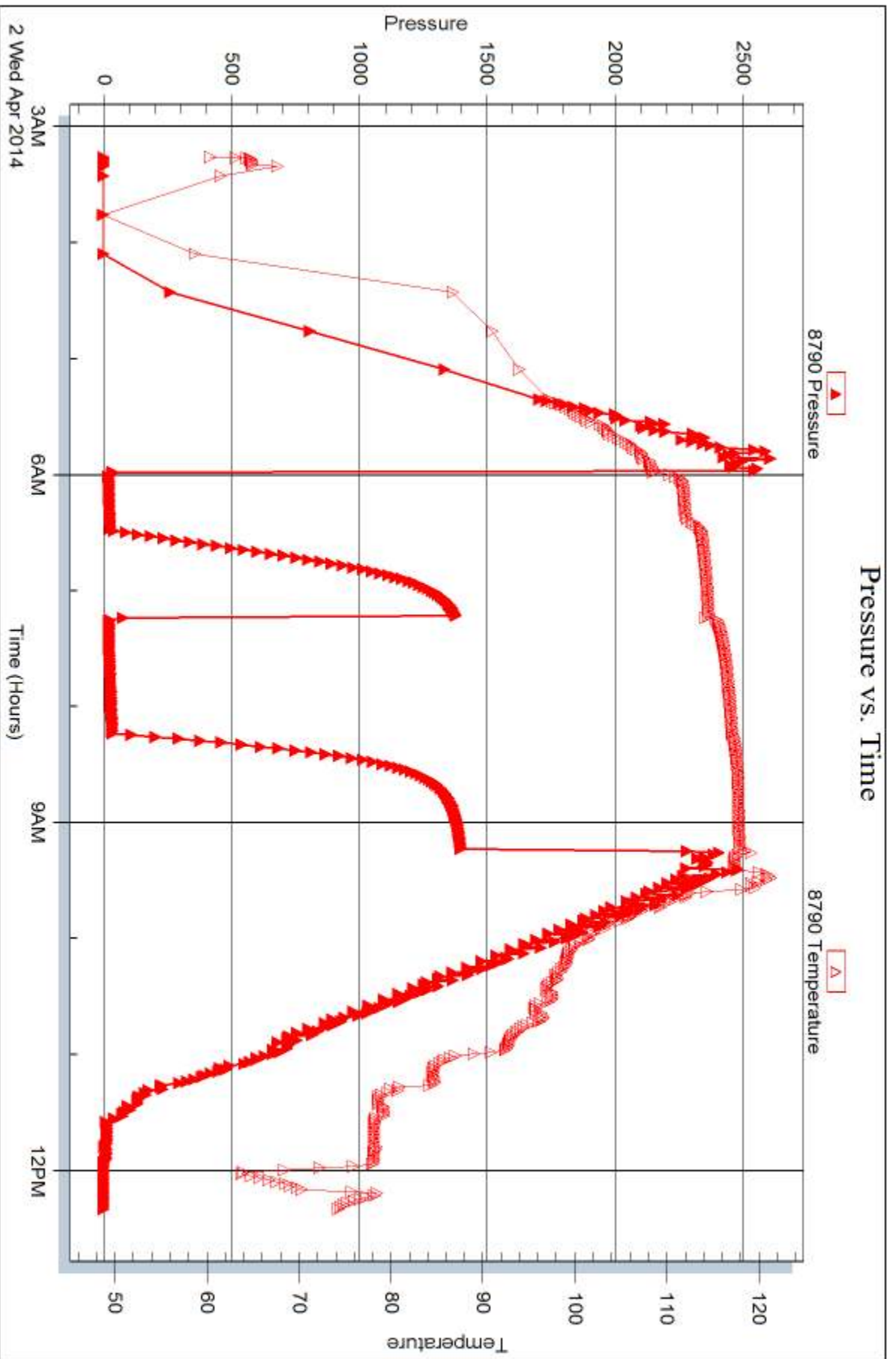
Serial #: 8790

Inside

American Warrior Inc.

Wall #7

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52489

Printed: 2014.04.09 @ 11:36:49



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummings Rd.
Garden City, KS 67846

ATTN: Keith Reavis

Wait #7

6-33s-19w Comanche,KS

Start Date: 2014.04.05 @ 10:45:35

End Date: 2014.04.05 @ 22:50:50

Job Ticket #: 52490 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.09 @ 11:36:00

American Warrior Inc. 6-33s-19w Comanche,KS Wait #7 DST # 3 Viola 2014.04.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

6-33s-19w Comanche, KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52490

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.04.05 @ 10:45:35

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:35

Time Test Ended: 22:50:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 5840.00 ft (KB) To 5877.00 ft (KB) (TVD)

Reference Elevations: 1882.00 ft (KB)

Total Depth: 5877.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8790

Inside

Press@RunDepth: 2005.21 psig @ 5841.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.05

End Date:

2014.04.05

Last Calib.:

2014.04.05

Start Time: 10:45:40

End Time:

22:50:50

Time On Btm:

2014.04.05 @ 14:06:05

Time Off Btm:

2014.04.05 @ 17:45:35

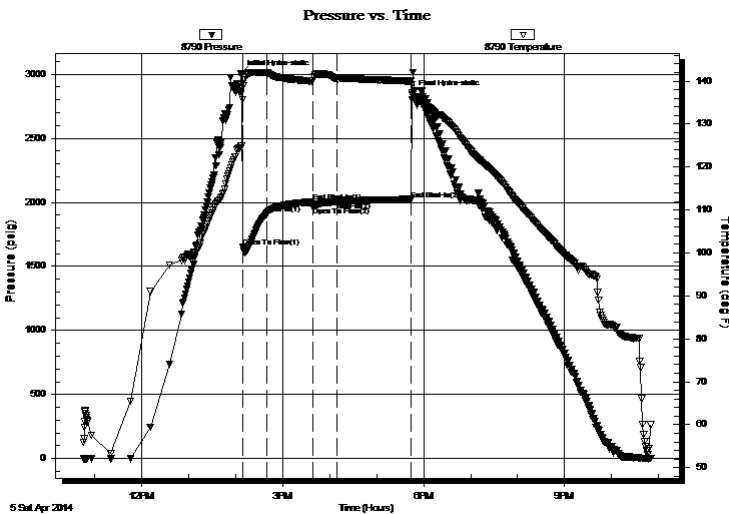
TEST COMMENT: IF: Strong blow . BOB @ 30sec.

IS: Weak surf. blow

FF: Strong blow . BOB @ 1 min. No GTS.

FS: Strong BB. BOB @ 1 hr.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3001.37	124.90	Initial Hydro-static
3	1651.92	135.62	Open To Flow (1)
33	1907.35	141.93	Shut-In(1)
92	2003.27	140.01	End Shut-In(1)
93	1961.87	140.18	Open To Flow (2)
123	2005.21	140.51	Shut-In(2)
218	2024.14	139.97	End Shut-In(2)
220	2839.77	137.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
755.00	GCW 5%g, 95%w	8.37
3215.00	OGCW 2%o, 5%g, 93%w	45.10
250.00	OGWCM 4%o, 16%g, 30%w, 50%m	3.51
0.00	355' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52490

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.04.05 @ 10:45:35

Tool Information

Drill Pipe:	Length: 5590.00 ft	Diameter: 3.80 inches	Volume: 78.41 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	110000.0 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	81000.00 lb
Depth to Top Packer:	5840.00 ft			Final	101000.0 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	64.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5814.00	
Shut In Tool	5.00			5819.00	
Hydraulic tool	5.00			5824.00	
Jars	5.00			5829.00	
Safety Joint	2.00			5831.00	
Packer	5.00			5836.00	27.00 Bottom Of Top Packer
Packer	4.00			5840.00	
Stubb	1.00			5841.00	
Recorder	0.00	8790	Inside	5841.00	
Recorder	0.00	8792	Outside	5841.00	
Perforations	33.00			5874.00	
Bullnose	3.00			5877.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

6-33s-19w Comanche,KS

3118 Cummings Rd.
Garden City, KS 67846

Wait #7

Job Ticket: 52490

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.04.05 @ 10:45:35

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:

63000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
755.00	GCW 5%g, 95%w	8.368
3215.00	OGCW 2%o, 5%g, 93%w	45.098
250.00	OGWCM 4%o, 16%g, 30%w, 50%m	3.507
0.00	355' GIP	0.000

Total Length: 4220.00 ft

Total Volume: 56.973 bbl

Num Fluid Samples: 0

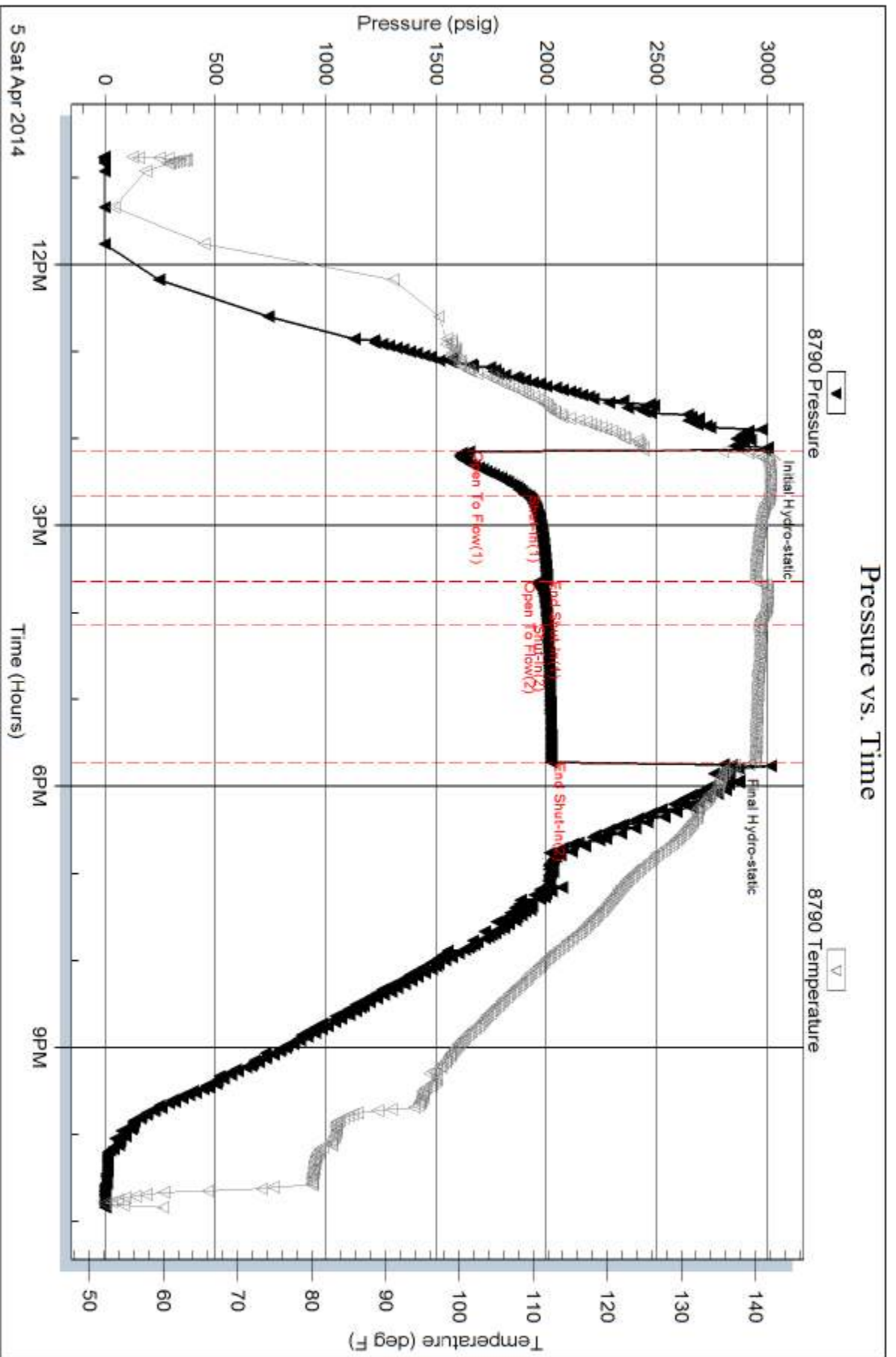
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

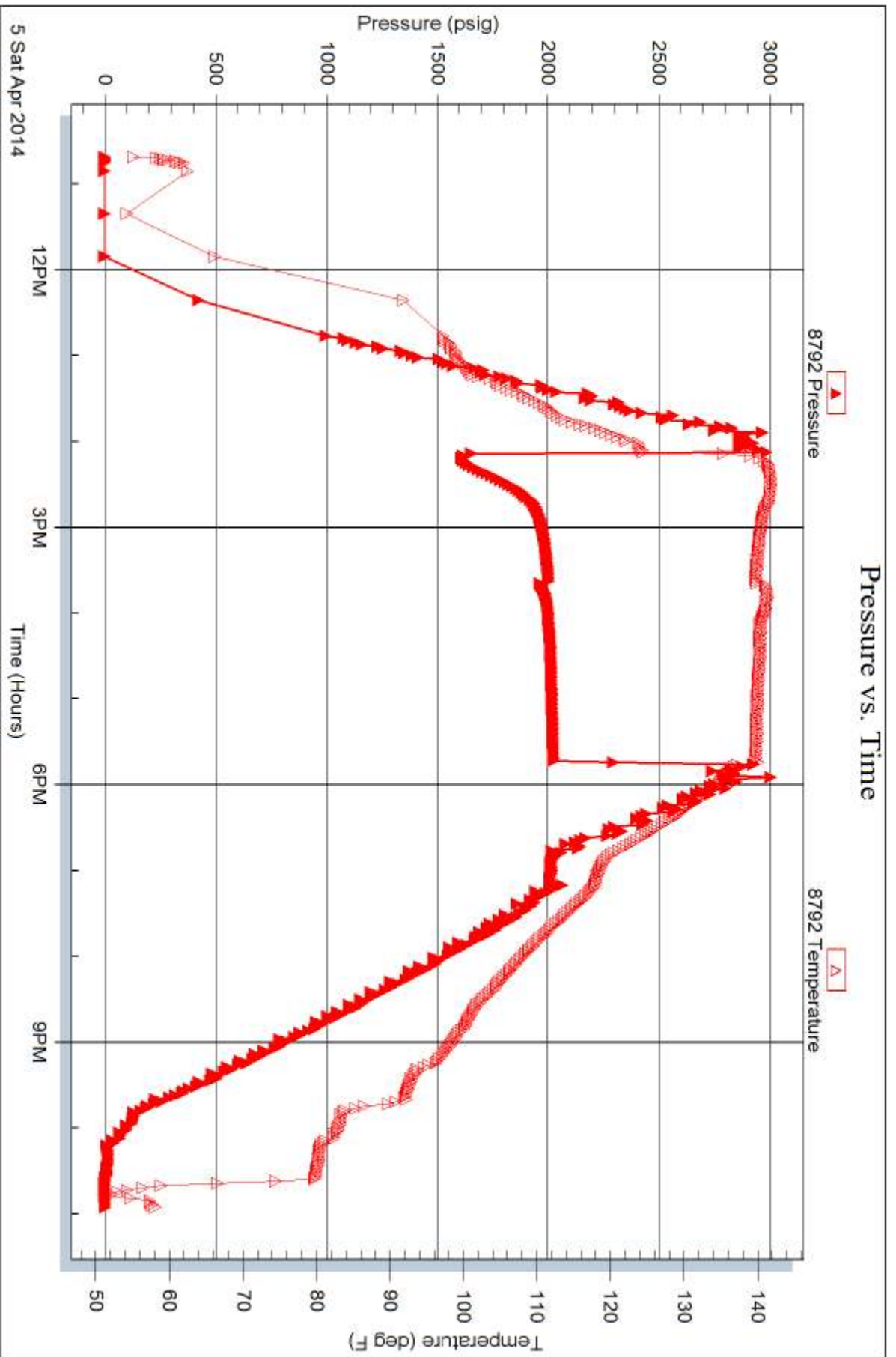


Serial #: 8792

Outside American Warrior Inc.

Well #7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52490

Printed: 2014.04.09 @ 11:36:03



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52488

Well Name & No. Wait #7 Test No. 1 Date 4-1-14
 Company American Warrior Trv. Elevation 1882 KB 1871 GL
 Address 3118 Cummings Rd. Garden City, KS 67846
 Co. Rep / Geo. Keith Reavis Rig Duke #5
 Location: Sec. 6 Twp. 33s Rge. 19w. Co. Comanche State KS

Interval Tested 4854-4900 Zone Tested Altamont
 Anchor Length 46 Drill Pipe Run 4586 Mud Wt. 9.3
 Top Packer Depth 4849 Drill Collars Run 244 Vis 51
 Bottom Packer Depth 4854 Wt. Pipe Run Ø WL 10.8
 Total Depth 4900 Chlorides 9000 ppm System LCM 1#
 Blow Description IF: Fair blow. 1" - 5" ISI: No blow.
FF: Fair blow. 1" - 3" FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>320</u>	<u>GIP</u>				
<u>40</u>	<u>VSLT OSpkd M</u>		<u>Tr</u>		<u>99</u>

Rec Total 40 BHT 118 Gravity n/c API RW n/c @ n/c °F Chlorides 9000 ppm

(A) Initial Hydrostatic <u>2472</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0430</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0657</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0940</u>
(D) Initial Shut-In <u>148</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1240</u>
(E) Second Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1 1/2</u>	T-Out <u>1553</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>142</u> <u>220.10</u>	Comments
(G) Final Shut-In <u>251</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2316</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1795.10</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1795.10</u>	

Approved By _____ Our Representative Ryan Reynolds
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52489

Well Name & No. Wait #7 Test No. 2 Date 4-2-14
 Company American Warrior Inc. Elevation 1882 KB 1871 GL
 Address 3118 Cummings Rd. Garden City, KS 67846
 Co. Rep / Geo. Keith Reavis Rig Duke #5
 Location: Sec. 6 Twp. 33s. Rge. 19w. Co. Comanche State KS

Interval Tested 4912 - 4950 Zone Tested Pawnee
 Anchor Length 38 Drill Pipe Run 4648 Mud Wt. 9.4
 Top Packer Depth 4907 Drill Collars Run 244 Vis 68
 Bottom Packer Depth 4912 Wt. Pipe Run Ø WL 9.2
 Total Depth 4950 Chlorides 7000 ppm System LCM 4#

Blow Description IF: Strong blow. BoB @ 8 min. IST: No blow
FF: Strong blow. BoB immed. GTS @ 42 min. FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Dry mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 117 Gravity N/C API RW N/C @ N/C °F Chlorides 7000 ppm

(A) Initial Hydrostatic <u>2552</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0320</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0600</u>
(D) Initial Shut-In <u>1381</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0915</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1219</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>142</u> <u>220.10</u>	Comments
(G) Final Shut-In <u>1399</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2402</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>1533.33</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>2 days (DST #2-3)</u> <u>2d 22h</u>	Total <u>3328.43</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1795.10</u>	

Approved By _____ Our Representative Ryan Reynolds
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52490

Well Name & No. Wait #7 Test No. 3 Date 4-5-14
 Company American Warrior Inc. Elevation 1882 KB 1871 GL
 Address 3118 Cummings Rd. Garden City, KS 67846
 Co. Rep / Geo. Keith Beavis Rig Duke 5
 Location: Sec. 6 Twp. 33s. Rge. 19w. Co. Comanche State KS

Interval Tested 5840 - 5877 Zone Tested Viola
 Anchor Length 37 Drill Pipe Run 5590 Mud Wt. 9.4
 Top Packer Depth 5835 Drill Collars Run 244 Vis 55
 Bottom Packer Depth 5840 Wt. Pipe Run Ø WL 9.6
 Total Depth 5877 Chlorides 5500 ppm System LCM 6#

Blow Description IF: Strong blow. BoB @ 30 sec. No GTS
IST: Weak surf. blow
FF: Strong blow. BoB @ 1 min. No GTS
FST: Strong BB. BoB @ 1 hr.

Rec	Feet of	%gas	%oil	%water	%mud
<u>355</u>	<u>GIP</u>				
<u>250</u>	<u>OG WCM</u>	<u>16</u>	<u>4</u>	<u>30</u>	<u>50</u>
<u>3215</u>	<u>GOLW</u>	<u>5</u>	<u>2</u>	<u>93</u>	
<u>755</u>	<u>GLW</u>	<u>5</u>		<u>95</u>	

Rec Total 4220 BHT 140 Gravity N/C API RW 0.12 @ 70 °F Chlorides 63000 ppm

(A) Initial Hydrostatic <u>3001</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>1015</u>
(B) First Initial Flow <u>1652</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1046</u>
(C) First Final Flow <u>1907</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1409</u>
(D) Initial Shut-In <u>2003</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1737</u>
(E) Second Initial Flow <u>1962</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2 3/4</u> 2.25h	T-Out <u>2251</u>
(F) Second Final Flow <u>2005</u>	<input checked="" type="checkbox"/> Mileage <u>142</u> 440.20	Comments
(G) Final Shut-In <u>2024</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2840</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby 1 day Pick @ 0100
 Accessibility 1d 2h 4-7-14

Sub Total 2340.20

Sub Total 800
 Total 3140.20
 MP/DST Disc't

Approved By _____ Our Representative Ryan Reynolds
 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.

OPERATOR

Company: American Warrior, Inc.
 Address: 3118 Cummings Road
 P.O. Box 399
 Garden City, KS 67846
 Contact Geologist: Kevin Wiles
 Contact Phone Nbr: 620-275-2963
 Well Name:
 Location: Sec. 6 - T33S - R19W
 Pool:
 State: Kansas
 API: 15-033-21756-0000
 Field: Bird South
 Country: USA

Scale 1:240 Imperial

Well Name:
 Surface Location: Sec. 6 - T33S - R19W
 Bottom Location:
 API: 15-033-21756-0000
 License Number: 4058
 Spud Date: 3/25/2014
 Region: Comanche
 Drilling Completed: 4/8/2014
 Surface Coordinates: 2305' FSL & 335' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1871.00ft
 K.B. Elevation: 1882.00ft
 Logged Interval: 4100.00ft
 Total Depth: 6400.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel
 Time: 07:00
 Time: 01:50
 To: 6400.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 2305' FSL
 E/W Co-ord: 335' FEL
 Latitude:

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136
 Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 5
 Rig Type: mud rotary
 Spud Date: 3/25/2014
 TD Date: 4/8/2014
 Rig Release:
 Time: 07:00
 Time: 01:50
 Time:

ELEVATIONS

K.B. Elevation: 1882.00ft
 K.B. to Ground: 11.00ft
 Ground Elevation: 1871.00ft

NOTES

Evaluation of DST's and electrical logs indicated that the Wait #7 would be commercially non-productive. After electrical logs were ran at RTD of 6200', the operator elected to deepen the well further into the Arbuckle for a total depth of 6400'. Casing was then set into the Arbuckle for utilization as a saltwater disposal well.

A Bloodhound gas detection system operated by Bluestem Environmental was employed on this well. ROP and gas data were imported from the Bloodhound into this report. Gamma ray and caliper curves were imported from the electrical log suite. Electrical log formation tops were consistently around 5 ft. high to formation tops picked from drill time. These curves were not shifted to provide an exact match, but rather, left as recorded in the field.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis


American Warrior
 daily drilling report

DATE	7:00 AM DEPTH	REMARKS
03/29/2014		Geologist Keith Reavis on location @ 1810 hrs, 3698 ft, drilling ahead reset extractor, shale shaker to sample box
03/30/2014	4117	drilling ahead, Lecompton, Heebner, Toronto, Douglas, Lansing
03/31/2014	4656	drilling ahead, Lansing, Marmaton, show and gas kick warrants test
04/01/2014	4900	short trip, TOH w/bit, in with tools, conducting DST #1, complete DST #1, successful test, TIH w/bit, resume drilling, Pawnee
04/02/2014	4950	show in Pawnee warrants test, TOH w/bit, in w/tools, conducting DST #2 successful test, TIH w/bit, resume drilling, Ft. Scott, Cherokee, Miss
04/03/2014	5155	drilling Mississippian, Cowley Facies
04/04/2014	5569	drilling ahead, Cowley, Kinderhook
04/05/2014	5877	drilling Kinderhook, Viola, show and gas kick in Viola warrants test, short trip, TOH w/bit, in with tools, conduct DST #3, successful test TIH w/bit
04/06/2014	5943	back on bottom, resume drilling, Viola, Simpson, Arbuckle
04/07/2014	6201	TD @ 6201 ft., 0110 hrs, ctch, TOH for logs, conduct logging operations complete logging operation, TIH w/bit, resume drilling Arbuckle for disposal
04/08/2014	6400	Second TD 6400 ft @ 0150 hrs, geologist off location 0300 hrs

American Warrior
 well comparison sheet

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Structural Relationship	Log	Sub-Sea	Structural Relationship	Sample	Log
	Am. Warrior - Wait #7 2305' FSL & 335' FEL Sec. 6 - T33S - R19W				Am. Warrior - Wait #6x 1800' FSL & 330' FEL Sec. 6 - T33S - R19W				Corsair - Jellison A 1-5 1980' and 540' FWL Sec. 5 - T33S - R19W			
	1882 KB				1887 KB				1887 KB			
Base Heebner	4155	-2273	4150	-2268	4155	-2268	-5	0	4153	-2266	-7	-2
Douglas	4208	-2326	4203	-2321	4207	-2320	-6	-1	4202	-2315	-11	-6
Lansing	4346	-2464	4341	-2459	4344	-2457	-7	-2	4340	-2453	-11	-6
Muncie Creek	4549	-2667	4544	-2662	4547	-2660	-7	-2	4542	-2655	-12	-7
Stark Shale	4679	-2797	4684	-2802	4675	-2788	-9	-14	4670	-2783	-14	-19
Pawnee	4926	-3044	4921	-3039	4920	-3033	-11	-6	4923	-3036	-8	-3
Cherokee	4969	-3087	4966	-3084	4967	-3080	-7	-4	4969	-3082	-5	-2
Mississippian	5057	-3175	5053	-3171	5057	-3170	-5	-1	5057	-3170	-5	-1
Cowley Facies	5413	-3531	5422	-3540	5426	-3539	8	-1	5416	-3529	-2	-11
Kinderhook	5762	-3880	5758	-3876	5756	-3869	-11	-7	5738	-3851	-29	-25
Viola	5851	-3969	5848	-3966	5850	-3963	-6	-3	5832	-3945	-24	-21
Simpson Shale	6106	-4224	6102	-4220	np				6098	-4211	-13	-9
Simpson Sand	6155	-4273	6151	-4269	np				6157	-4270	-3	1
Arbuckle	6161	-4279	6160	-4278	np				6170	-4283	4	5
Total Depth	6400	-4518	6198	-4316	5914	-4027	-491	-289	6249	-4362	-156	46

Drill Stem Test #1

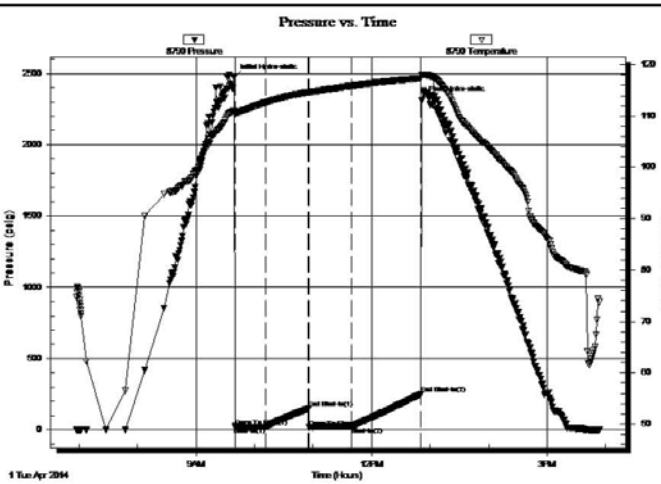
	DRILL STEM TEST REPORT	
	American Warrior Inc. 3118 Cummings Rd. Garden City, KS 67846 ATTN: Keith Reavis	6-33s-19w Comanche Co., KS Wait 7 Job Ticket: 52488 Test Start: 2014.04.01 @ 06:57:26 DST#: 1

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 09:40:26
 Time Test Ended: 15:53:11
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Interval: **4854.00 ft (KB) To 4900.00 ft (KB) (TVD)**
 Total Depth: 4900.00 ft (KB) (TVD)
 Reference Elevations: 1882.00 ft (KB)
 1871.00 ft (CF)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: **8790** Inside
 Press@RunDepth: 21.00 psig @ 4860.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.04.01 End Date: 2014.04.01 Last Calib.: 2014.04.01
 Start Time: 06:57:31 End Time: 15:53:11 Time On Btm: 2014.04.01 @ 09:38:56
 Time Off Btm: 2014.04.01 @ 12:52:11

TEST COMMENT: IF: Fair blow, 1" - 5"
 IS: No blow
 FF: Fair blow, 1" - 3"
 FSI: No blow


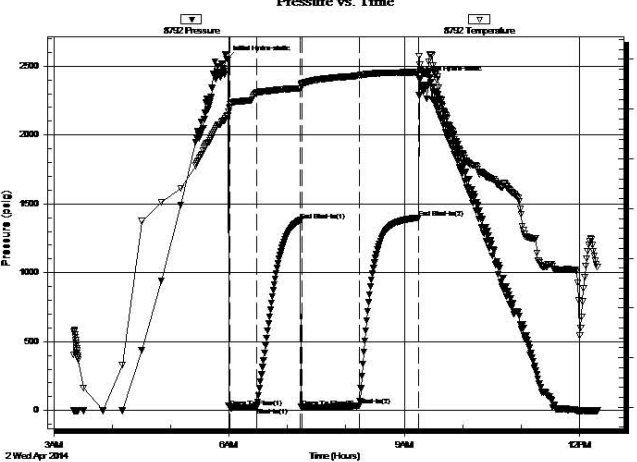


Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2471.94	111.01	Initial Hydro-static
2	22.14	110.60	Open To Flow (1)
33	20.09	112.60	Shut-In(1)
77	147.92	114.64	End Shut-In(1)
77	16.77	114.59	Open To Flow (2)
121	21.00	115.84	Shut-In(2)
192	250.93	117.34	End Shut-In(2)
194	2315.87	118.07	Final Hydro-static


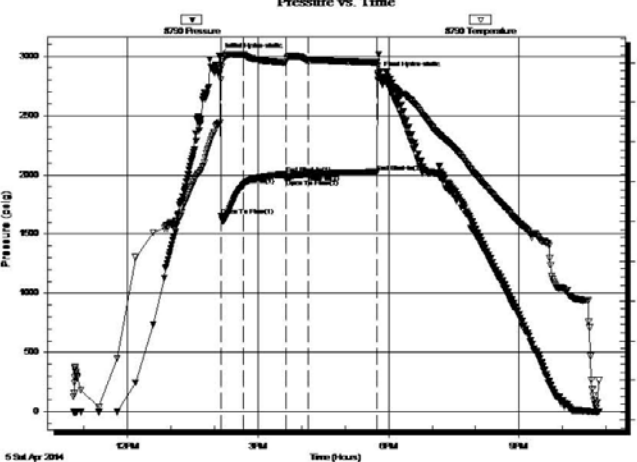
Length (ft)	Description	Volume (bbl)
40.00	VSLI OspidM trco, 99% m	0.20
	320' GIP	

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)

Drill Stem Test #2

	DRILL STEM TEST REPORT																																					
	American Warrior Inc. 3118 Cummings Rd. Garden City, KS 67846 ATTN: Keith Reavis	6-33s-19w Comanche Co., KS Wait 7 Job Ticket: 52489 DST#: 2 Test Start: 2014.04.02 @ 03:20:09																																				
GENERAL INFORMATION: Formation: Pawnee Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 06:00:39 Time Test Ended: 12:18:54 Interval: 4912.00 ft (KB) To 4950.00 ft (KB) (TVD) Total Depth: 4950.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset) Tester: Ryan Reynolds Unit No: 68 Reference Elevations: 1882.00 ft (KB) 1871.00 ft (CF) KB to GR/CF: 11.00 ft																																						
Serial #: 8792 Outside Press@RunDepth: 33.67 psig @ 4913.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.02 End Date: 2014.04.02 Last Calib.: 2014.04.02 Start Time: 03:20:14 End Time: 12:18:54 Time On Btm: 2014.04.02 @ 05:57:24 Time Off Btm: 2014.04.02 @ 09:15:54																																						
TEST COMMENT: IF: Strong blow . BOB @ 8 min. IS: No blow FF: Strong blow . BOB immed. GTS @ 42 min. FSI: NO blow																																						
	PRESSURE SUMMARY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>2551.74</td><td>108.54</td><td>Initial Hydro-static</td></tr> <tr><td>4</td><td>19.90</td><td>110.39</td><td>Open To Flow (1)</td></tr> <tr><td>31</td><td>25.18</td><td>113.34</td><td>Shut-In(1)</td></tr> <tr><td>76</td><td>1380.57</td><td>114.20</td><td>End Shut-In(1)</td></tr> <tr><td>78</td><td>24.30</td><td>114.97</td><td>Open To Flow (2)</td></tr> <tr><td>137</td><td>33.67</td><td>116.71</td><td>Shut-In(2)</td></tr> <tr><td>198</td><td>1398.83</td><td>117.44</td><td>End Shut-In(2)</td></tr> <tr><td>199</td><td>2402.13</td><td>118.87</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	2551.74	108.54	Initial Hydro-static	4	19.90	110.39	Open To Flow (1)	31	25.18	113.34	Shut-In(1)	76	1380.57	114.20	End Shut-In(1)	78	24.30	114.97	Open To Flow (2)	137	33.67	116.71	Shut-In(2)	198	1398.83	117.44	End Shut-In(2)	199	2402.13	118.87	Final Hydro-static
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Drill Stem Test #3

	DRILL STEM TEST REPORT																																						
	American Warrior Inc. 3118 Cummings Rd. Garden City, KS 67846 ATTN: Keith Reavis	6-33s-19w Comanche Co., KS Wait 7 Job Ticket: 52490 DST#: 3 Test Start: 2014.04.05 @ 10:45:35																																					
GENERAL INFORMATION: Formation: Viola Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 14:08:35 Time Test Ended: 22:50:50 Interval: 5840.00 ft (KB) To 5877.00 ft (KB) (TVD) Total Depth: 5877.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Reset) Tester: Ryan Reynolds Unit No: 68 Reference Elevations: 1882.00 ft (KB) 1871.00 ft (CF) KB to GR/CF: 11.00 ft																																							
Serial #: 8790 Inside Press@RunDepth: 2005.21 psig @ 5841.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.05 End Date: 2014.04.05 Last Calib.: 2014.04.05 Start Time: 10:45:40 End Time: 22:50:50 Time On Btm: 2014.04.05 @ 14:06:05 Time Off Btm: 2014.04.05 @ 17:45:35																																							
TEST COMMENT: IF: Strong blow . BOB @ 30sec. IS: Weak surf. blow FF: Strong blow . BOB @ 1min. No GTS. FSI: Strong BB. BOB @ 1hr.																																							
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ROCK TYPES

- | | | | |
|---------|-----------|------------|------------|
| Dolprim | Lmst fw<7 | shale, grn | Carbon Sh |
| Dolsec | Lmst fw>7 | shale, gry | shale, red |
| | | | Ss |

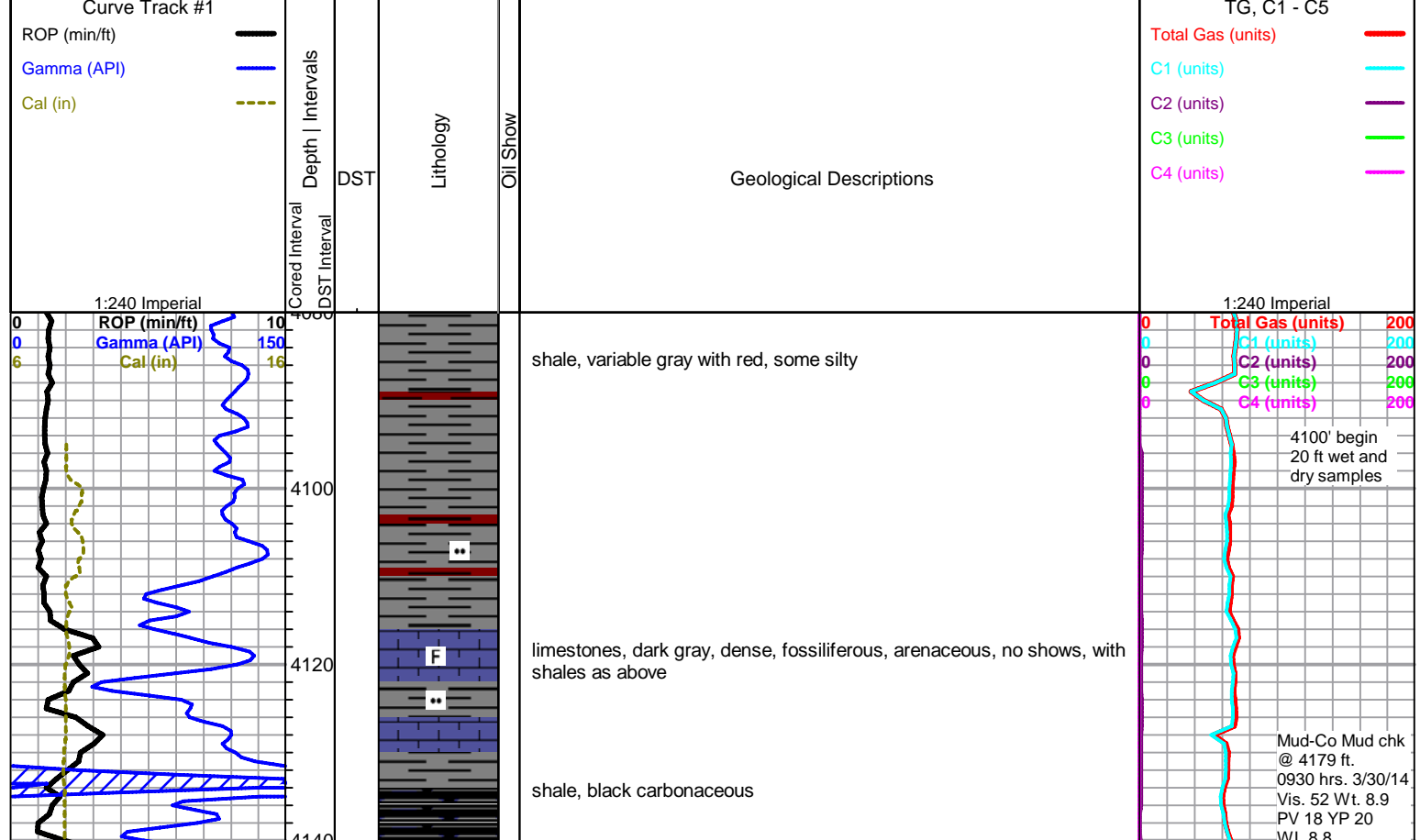
ACCESSORIES

- | | | | |
|--|---|---|----------------------------|
| MINERAL
— Argillaceous
▲ Chert, dark
▲ Dolomitic
P Glaucanite
P Pyrite
. Sandy
^ Siliceous
** Silty
▲ Chert White
Me Mica
■ Argillaceous/Shale | FOSSIL
^ Bioclastic or Fragmental
F Fossils < 20%
φ Oolite
φ Pellets
⚡ Oomoldic | STRINGER
Dolomite
Sandstone
Siltstone
Shale
Green shale
carb shale | TEXTURE
C Chalky |
|--|---|---|----------------------------|

OTHER SYMBOLS

- | | | |
|---|---|---|
| MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt | Oil Show
● Good Show
● Fair Show
○ Poor Show
○ Spotted or Trace
○ Questionable Str
D Dead Oil Str
■ Fluorescence
* Gas | DST
DST Int
DST alt
Core
tail pipe |
|---|---|---|

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



Mud-Co Mud chk @ 4179 ft. 0930 hrs. 3/30/14 Vis. 52 Wt. 8.9 PV 18 YP 20 WI 8.8

scattered sandstone, gray, quartz, micaceous, fine to very fine grain, fair to poor sorted, fair rounded, slightly friable, no shows

Base Heebner 4155 -2273

gray shales, sandstone and limestone a.a.

as above

as above, some lighter gray limestone

Douglas 4208 -2326

gray to dark gray shales as above, with sandstone as above

shale and sandstone as above

shale and sandstone as above, abundantly micaceous gray siltstones

Lansing 4346 -2464

poor samples, abundantly sluff from above, some limestones, tan, microcrystalline, fossiliferous, dense, no shows

limestone, light gray to cream, some tan, microcrystalline, fossiliferous, chalky in part, poor visible porosity, no shows

limestone, gray, fossiliferous, arenaceous, with limestone, light gray to cream, microcrystalline, fossiliferous, trace sub-omoldic, some secondary calcite, no shows, scattered mineral fluorescence

limestone, gray, microcrystalline, fossiliferous, fairly dense, no visible porosity or shows, trace mineral fluorescence

limestones, gray to tan, microcrystalline, fossiliferous, some secondary calcite, some bioclastic, poor visible porosity, no shows, trace mineral fluorescence

limestone, cream to gray, microcrystalline, some secondary calcite, fossiliferous, poor visible porosity, chalky in part, no shows, increase chalk in samples

as above, increasing chalk, some tan grainy bioclastic

Muncie Creek 4549 -2667

limestone, gray, microcrystalline, fossiliferous with tan grainy bioclastic, poor visible porosity, no shows or fluorescence

limestone, gray to tan and brown, microcrystalline, fossiliferous, some grainy, some large secondary calcite crystals, with limestone, light gray to white, fossiliferous, chalky, some scattered gray fossiliferous cherts, no shows

limestone, cream to gray, some tan, micro-cryptocrystalline, fossiliferous, chalky to dense, some tan grainy bioclastic, poor visible porosity, no shows, trace mineral fluorescence

limestones, mixed, dense gray cryptocrystalline, fossiliferous, to variable chalky fossiliferous, some dense brown fossiliferous to sub-pelletal, no shows

Stark Shale 4679 -2797

limestone, tan to gray, microcrystalline, fossiliferous to bioclastic, some scattered small pinpoint porosity, abundant light gray chert, spiculitic, no shows

as above, chalkier, cherts dropping out

Hushpuckney

shale, black carbonaceous

Cake 1/32, pH 10.5, CHL 3000 ppm, Ca 20 ppm, Sol 4.1 LCM 1#, DMC \$3698.50, CMC \$13330.75

re-zero gas detector

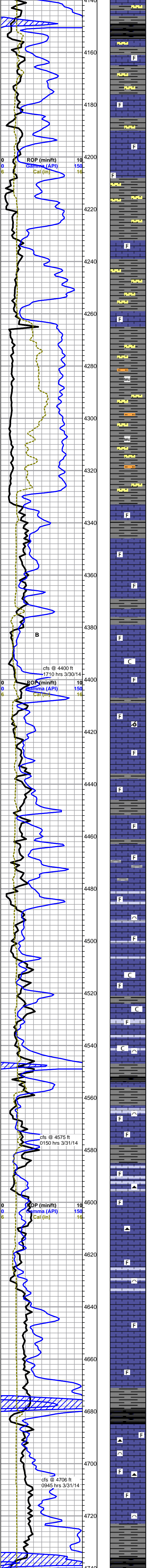
4200' begin 10 ft wet and dry samples

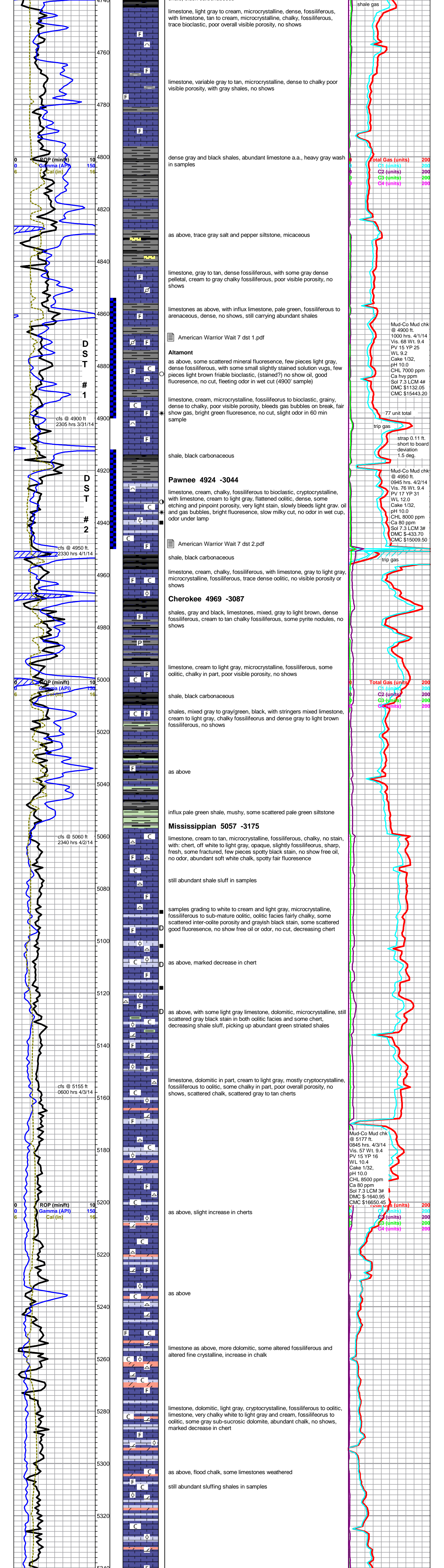
Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

shale gas kick
Mud-Co Mud chk @ 4686 ft. 0845 hrs. 3/31/14. Vis. 51 Wt. 9.3 PV 14 YP 22 WL 10.8 Cake 1/32, pH 10.5, CHL 9000 ppm, Ca 40 ppm, Sol 6.5 LCM 1#, DMC \$980.40, CMC \$14311.15





limestone, light gray to cream, microcrystalline, dense, fossiliferous, with limestone, tan to cream, microcrystalline, chalky, fossiliferous, trace bioclastic, poor overall visible porosity, no shows

limestone, variable gray to tan, microcrystalline, dense to chalky poor visible porosity, with gray shales, no shows

dense gray and black shales, abundant limestone a.a., heavy gray wash in samples

as above, trace gray salt and pepper siltstone, micaceous

limestone, gray to tan, dense fossiliferous, with some gray dense pelletal, cream to gray chalky fossiliferous, poor visible porosity, no shows

limestones as above, with influx limestone, pale green, fossiliferous to arenaceous, dense, no shows, still carrying abundant shales

American Warrior Wait 7 dst 1.pdf

Altamont

as above, some scattered mineral fluorescence, few pieces light gray, dense fossiliferous, with some small slightly stained solution vugs, few pieces light brown friable bioclastic, (stained?) no show oil, good fluorescence, no cut, fleeting odor in wet cut (4900' sample)

limestone, cream, microcrystalline, fossiliferous to bioclastic, grainy, dense to chalky, poor visible porosity, bleeds gas bubbles on break, fair show gas, bright green fluorescence, no cut, slight odor in 60 min sample

shale, black carbonaceous

Pawnee 4924 -3044

limestone, cream, chalky, fossiliferous to bioclastic, cryptocrystalline, with limestone, cream to light gray, flattened oolitic, dense, some etching and pinpoint porosity, very light stain, slowly bleeds light grav. oil and gas bubbles, bright fluorescence, slow milky cut, no odor in wet cup, odor under lamp

American Warrior Wait 7 dst 2.pdf

shale, black carbonaceous

limestone, cream, chalky, fossiliferous, with limestone, gray to light gray, microcrystalline, fossiliferous, trace dense oolitic, no visible porosity or shows

Cherokee 4969 -3087

shales, gray and black, limestones, mixed, gray to light brown, dense fossiliferous, cream to tan chalky fossiliferous, some pyrite nodules, no shows

limestone, cream to light gray, microcrystalline, fossiliferous, some oolitic, chalky in part, poor visible porosity, no shows

shale, black carbonaceous

shales, mixed gray to gray/green, black, with stringers mixed limestone, cream to light gray, chalky fossiliferous and dense gray to light brown fossiliferous, no shows

as above

influx pale green shale, mushy, some scattered pale green siltstone

Mississippian 5057 -3175

limestone, cream to tan, microcrystalline, fossiliferous, chalky, no stain, with: chert, off white to light gray, opaque, slightly fossiliferous, sharp, fresh, some fractured, few pieces spotty black stain, no show free oil, no odor, abundant soft white chalk, spotty fair fluorescence

still abundant shale sluff in samples

samples grading to white to cream and light gray, microcrystalline, fossiliferous to sub-mature oolitic, oolitic facies fairly chalky, some scattered inter-oolite porosity and grayish black stain, some scattered good fluorescence, no show free oil or odor, no cut, decreasing chert

as above, marked decrease in chert

as above, with some light gray limestone, dolomitic, microcrystalline, still scattered gray black stain in both oolitic facies and some chert, decreasing shale sluff, picking up abundant green striated shales

limestone, dolomitic in part, cream to light gray, mostly cryptocrystalline, fossiliferous to oolitic, some chalky in part, poor overall porosity, no shows, scattered chalk, scattered gray to tan cherts

as above, slight increase in cherts

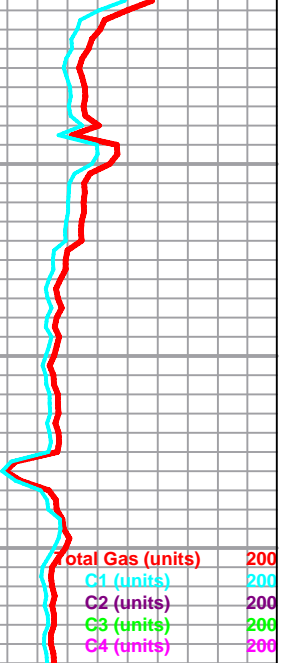
as above

limestone as above, more dolomitic, some altered fossiliferous and altered fine crystalline, increase in chalk

limestone, dolomitic, light gray, cryptocrystalline, fossiliferous to oolitic, limestone, very chalky to light gray and cream, fossiliferous to oolitic, some gray sub-sucrosic dolomite, abundant chalk, no shows, marked decrease in chert

as above, flood chalk, some limestones weathered

still abundant sluffing shales in samples



Mud-Co Mud chk @ 4900 ft. 1000 hrs. 4/1/14 Vis. 68 Wt. 9.4 PV 15 YP 25 WL 9.2 Cake 1/32, pH 10.0 CHL 7000 ppm Ca hvy ppm Sol 7.3 LCM 4# DMC \$1132.05 CMC \$15443.20

77 unit total
trip gas
strap 0.11 ft. short to board deviation 1.5 deg.

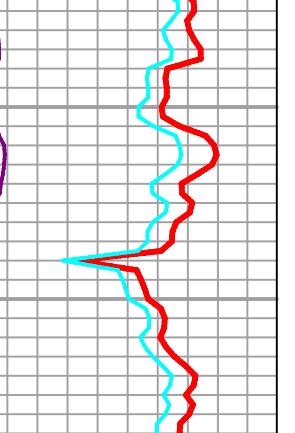
Mud-Co Mud chk @ 4950 ft. 0945 hrs. 4/2/14 Vis. 76 Wt. 9.4 PV 17 YP 31 WL 12.0 Cake 1/32, pH 10.0 CHL 8000 ppm Ca 80 ppm Sol 7.3 LCM 3# DMC \$-433.70 CMC \$15009.50



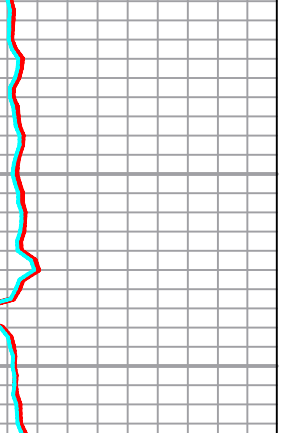
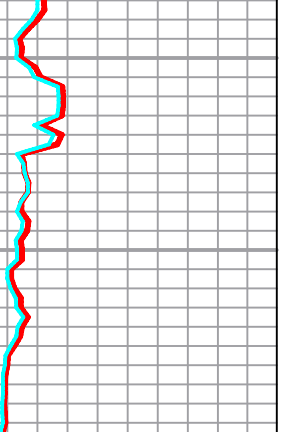
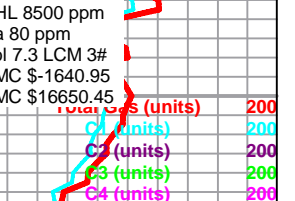
trip gas

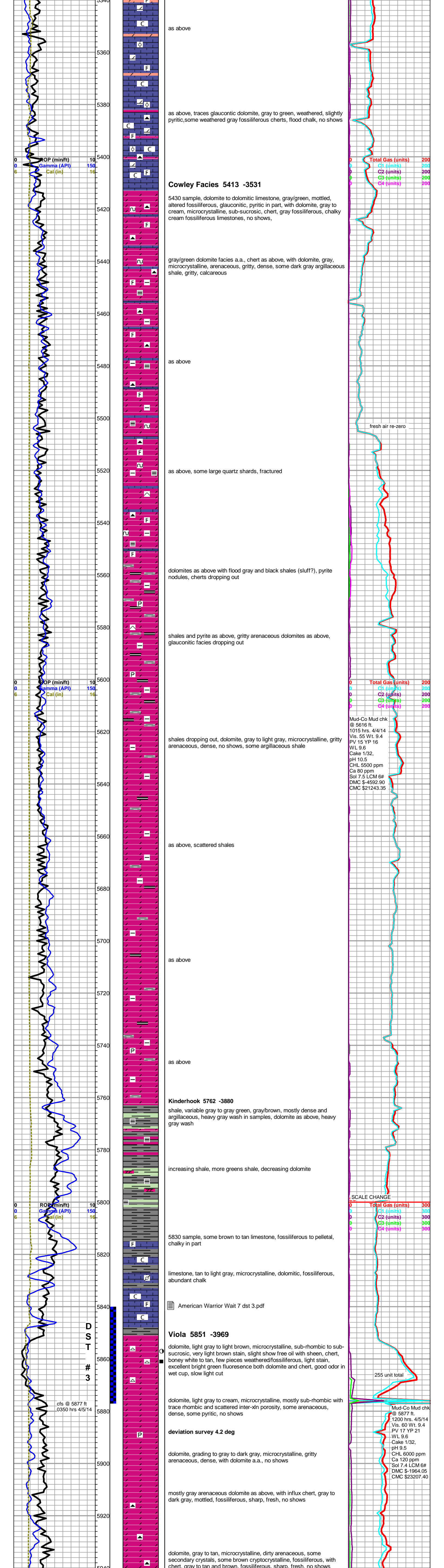


trip gas



Mud-Co Mud chk @ 5177 ft. 0845 hrs. 4/3/14 Vis. 57 Wt. 9.4 PV 15 YP 16 WL 10.4 Cake 1/32, pH 10.0 CHL 8500 ppm Ca 80 ppm Sol 7.3 LCM 3# DMC \$-1640.95 CMC \$16650.45





as above

as above, traces glauconitic dolomite, gray to green, weathered, slightly pyritic, some weathered gray fossiliferous cherts, flood chalk, no shows

Cowley Facies 5413 -5531

5430 sample, dolomite to dolomitic limestone, gray/green, mottled, altered fossiliferous, glauconitic, pyritic in part, with dolomite, gray to cream, microcrystalline, sub-sucrosic, chert, gray fossiliferous, chalky cream fossiliferous limestones, no shows,

gray/green dolomite facies a.a., chert as above, with dolomite, gray, microcrystalline, arenaceous, gritty, dense, some dark gray argillaceous shale, gritty, calcareous

as above

as above, some large quartz shards, fractured

dolomites as above with flood gray and black shales (sluff?), pyrite nodules, cherts dropping out

shales and pyrite as above, gritty arenaceous dolomites as above, glauconitic facies dropping out

shales dropping out, dolomite, gray to light gray, microcrystalline, gritty arenaceous, dense, no shows, some argillaceous shale

as above, scattered shales

as above

as above

Kinderhook 5762 -3880

shale, variable gray to gray green, gray/brown, mostly dense and argillaceous, heavy gray wash in samples, dolomite as above, heavy gray wash

increasing shale, more greens shale, decreasing dolomite

5830 sample, some brown to tan limestone, fossiliferous to pelletal, chalky in part

limestone, tan to light gray, microcrystalline, dolomitic, fossiliferous, abundant chalk

American Warrior Wait 7 dst 3.pdf

Viola 5851 -3969

dolomite, light gray to light brown, microcrystalline, sub-rhombic to sub-sucrosic, very light brown stain, slight show free oil with sheen, chert, boney white to tan, few pieces weathered/fossiliferous, light stain, excellent bright green fluorescence both dolomite and chert, good odor in wet cup, slow light cut

dolomite, light gray to cream, microcrystalline, mostly sub-rhombic with trace rhombic and scattered inter-xtn porosity, some arenaceous, dense, some pyritic, no shows

deviation survey 4.2 deg

dolomite, grading to gray to dark gray, microcrystalline, gritty arenaceous, dense, with dolomite a.a., no shows

mostly gray arenaceous dolomite as above, with influx chert, gray to dark gray, mottled, fossiliferous, sharp, fresh, no shows

dolomite, gray to tan, microcrystalline, dirty arenaceous, some secondary crystals, some brown cryptocrystalline, fossiliferous, with chert, gray to tan and brown, fossiliferous, sharp, fresh, no shows

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

fresh air re-zero

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

Mud-Co Mud chk @ 5616 ft. 1015 hrs. 4/4/14 Vis. 55 Wt. 9.4 PV 15 YP 16 WL 9.6 Cake 1/32, pH 10.5 CHL 5500 ppm Ca 80 ppm Sol 7.5 LCM 6# DMC \$-4592.90 CMC \$21243.35

SCALE CHANGE

Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

255 unit total

Mud-Co Mud chk @ 5877 ft. 1200 hrs. 4/5/14 Vis. 60 Wt. 9.4 PV 17 YP 21 WL 9.6 Cake 1/32, pH 9.5 CHL 6000 ppm Ca 120 ppm Sol 7.4 LCM 6# DMC \$-1964.05 CMC \$23207.40

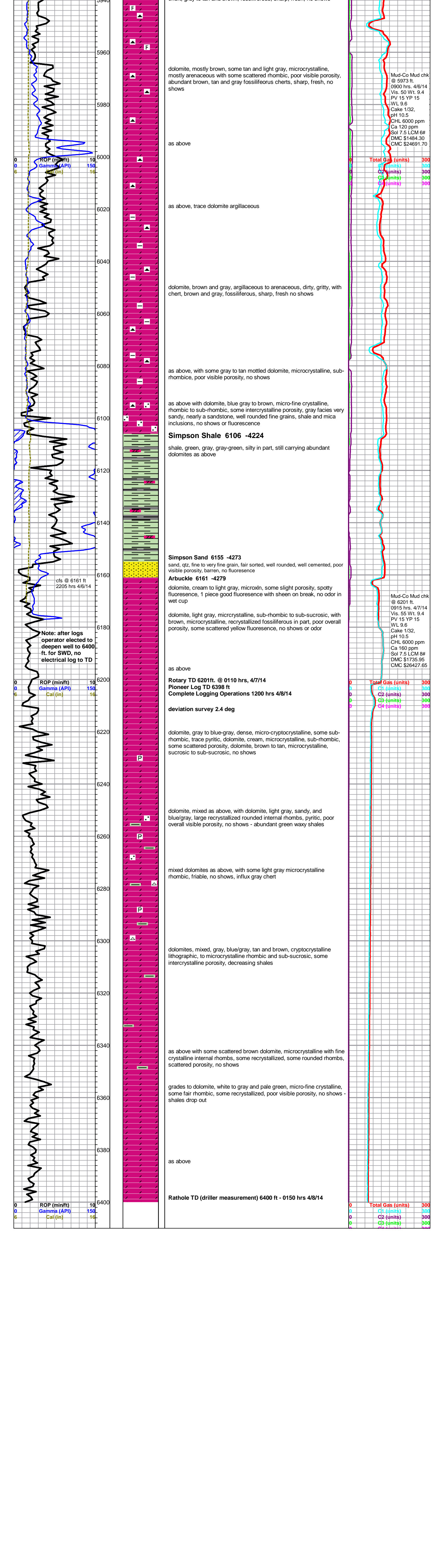
DST # 3

cfs @ 5877 ft 0350 hrs 4/5/14

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16



dolomite, mostly brown, some tan and light gray, microcrystalline, mostly arenaceous with some scattered rhombic, poor visible porosity, abundant brown, tan and gray fossiliferous cherts, sharp, fresh, no shows

as above

as above, trace dolomite argillaceous

dolomite, brown and gray, argillaceous to arenaceous, dirty, gritty, with chert, brown and gray, fossiliferous, sharp, fresh no shows

as above, with some gray to tan mottled dolomite, microcrystalline, sub-rhombic, poor visible porosity, no shows

as above with dolomite, blue gray to brown, micro-fine crystalline, rhombic to sub-rhombic, some intercrystalline porosity, gray facies very sandy, nearly a sandstone, well rounded fine grains, shale and mica inclusions, no shows or fluorescence

Simpson Shale 6106 -4224

shale, green, gray, gray-green, silty in part, still carrying abundant dolomites as above

Simpson Sand 6155 -4273

sand, qtz, fine to very fine grain, fair sorted, well rounded, well cemented, poor visible porosity, barren, no fluorescence

Arbuckle 6161 -4279

dolomite, cream to light gray, microxn, some slight porosity, spotty fluorescence, 1 piece good fluorescence with sheen on break, no odor in wet cup

dolomite, light gray, microcrystalline, sub-rhombic to sub-sucrosic, with brown, microcrystalline, recrystallized fossiliferous in part, poor overall porosity, some scattered yellow fluorescence, no shows or odor

as above

**Rotary TD 6201ft. @ 0110 hrs, 4/7/14
Pioneer Log TD 6398 ft
Complete Logging Operations 1200 hrs 4/8/14**

deviation survey 2.4 deg

dolomite, gray to blue-gray, dense, micro-cryptocrystalline, some sub-rhombic, trace pyritic, dolomite, cream, microcrystalline, sub-rhombic, some scattered porosity, dolomite, brown to tan, microcrystalline, sucrosic to sub-sucrosic, no shows

dolomite, mixed as above, with dolomite, light gray, sandy, and blue/gray, large recrystallized rounded internal rhombs, pyritic, poor overall visible porosity, no shows - abundant green waxy shales

mixed dolomites as above, with some light gray microcrystalline rhombic, friable, no shows, influx gray chert

dolomites, mixed, gray, blue/gray, tan and brown, cryptocrystalline lithographic, to microcrystalline rhombic and sub-sucrosic, some intercrystalline porosity, decreasing shales

as above with some scattered brown dolomite, microcrystalline with fine crystalline internal rhombs, some recrystallized, some rounded rhombs, scattered porosity, no shows

grades to dolomite, white to gray and pale green, micro-fine crystalline, some fair rhombic, some recrystallized, poor visible porosity, no shows - shales drop out

as above

Rathole TD (driller measurement) 6400 ft - 0150 hrs 4/8/14

Mud-Co Mud chk @ 5973 ft.
0900 hrs. 4/6/14
Vis. 50 Wt. 9.4
PV 15 YP 15
WL 9.6
Cake 1/32,
pH 10.5
CHL 6000 ppm
Ca 120 ppm
Sol 7.5 LCM 6#
DMC \$1484.30
CMC \$24691.70

Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

Mud-Co Mud chk @ 6201 ft.
0915 hrs. 4/7/14
Vis. 55 Wt. 9.4
PV 15 YP 15
WL 9.6
Cake 1/32,
pH 10.5
CHL 6000 ppm
Ca 160 ppm
Sol 7.5 LCM 8#
DMC \$1735.95
CMC \$26427.65

Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16

cfs @ 6161 ft
2205 hrs 4/6/14

Note: after logs operator elected to deepen well to 6400 ft. for SWD, no electrical log to TD