



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233286
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: _____

1233286

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 063722

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Great Bend

DATE <u>9-20-14</u>	SEC. <u>15</u>	TWP. <u>18</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION <u>11:30 pm</u>	JOB START <u>1:00 am</u>	JOB FINISH <u>2:00 am</u>
LEASE <u>Delbert</u>	WELL # <u>1-15</u>		LOCATION <u>Bushler 2 W to 4 Rd 25</u>		COUNTY <u>Rice</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>3E Schl</u>				

CONTRACTOR Dale G
TYPE OF JOB surface
HOLE SIZE 12 1/2 T.D. 412
CASING SIZE 8 5/8 24# DEPTH 412
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT H2O 25.28 BBI

OWNER same
CEMENT
AMOUNT ORDERED 250 cc clay & 31 cc 21-gal

EQUIPMENT
PUMP TRUCK CEMENTER Charles King
398 HELPER Ben Newell
BULK TRUCK
871-112 DRIVER Kevin Weighman
BULK TRUCK
DRIVER

COMMON	<u>250</u>	@ <u>17.90</u>	<u>4,475.00</u>
POZMIX		@	
GEL	<u>470</u>	@ <u>.50</u>	<u>235.00</u>
CHLORIDE	<u>705</u>	@ <u>1.10</u>	<u>775.50</u>
ASC		@	
<u>Materials Total</u>			<u>5,485.50</u>
<u>Disc 20%</u>			<u>1,097.10</u>
<u>Service</u>			
HANDLING	<u>270.33</u>	@ <u>2.4%</u>	<u>670.42</u>
MILEAGE	<u>12.34 x 40</u>	@ <u>2.75</u>	<u>1,357.70</u>

REMARKS:

Rig Ran 412' 8 5/8 cas Bore circ 21 Rig
used hook to head pump 5081 H2O
run 250 cc clay & 31 cc 21-gal
shot down Release plug displace
25.28 BBI H2O cement drill circulate
shot cl

DEPTH OF JOB 412
PUMP TRUCK CHARGE 1512.35
EXTRA FOOTAGE @
MILEAGE Hum 40 @ 7.70 308.00
MANIFOLD @
Hum 40 @ 4.40 176.00

CHARGE TO: American warrior
STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL 4,024.07
Disc 20% 804.81

thank you!

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.

PLUG & FLOAT EQUIPMENT
Rubber Plug 131.00
@
@
@
@
@

TOTAL 131.00
Disc 20% 26.20

PRINTED NAME Steve H. Stephens

SALES TAX (If Any) _____
TOTAL CHARGES 9,640.57
DISCOUNT 26% 1,928.11 (20/20/20)
IF PAID IN 30 DAYS

SIGNATURE [Signature]

7,712.46



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

TICKET 27936

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS.** WELL/PROJECT NO.: **DELBERT 1-15** LEASE: **RICE** COUNTY/PARISH: **KS. BUSHTON, KS.** STATE: **KS.** CITY: **BUSHTON, KS.** DATE: **25 Sep 14** OWNER:
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: **DUKE DILLING RIG #8** RIG NAME/NO.: SHIPPED VIA: DELIVERED TO: ORDER NO.:
 3. WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **5 1/2 LONG STRING** WELL PERMIT NO.: WELL LOCATION: **1/2W, 25, 1/8W, S 10 TO**
 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	80		ML		6.00	480.00
578					Pump CHARGE	1		JOB		1500.00	1500.00
402					CENTRALIZERS	8		EA		70.00	560.00
403					CEMENT BASKETS	1		EA		300.00	300.00
406					LATCH DOWN PLUG & BAFFLE	1		EA		275.00	275.00
407					INSERT FLAT SHADE W/ FILL	1		EA		375.00	375.00
419					ROTATING HEAD RENTAL	1		JOB		200.00	200.00
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 *[Signature]*
 DATE SIGNED: **25 Sep 14** TIME SIGNED: **1600** 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	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	436.50
WE UNDERSTOOD AND MET YOUR NEEDS?				2	5289.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	9654.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rice TAX 7.15%	471.29
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	10,125.79
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

WATER

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

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10/12/19

10/12/19

10/12/19

10/12/19

10/12/19

10/12/19



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

TICKET CONTINUATION

TICKET No. 27936

CUSTOMER AMERICAN WARRIOR WELL DELBERT 1-15 DATE 25 Sep 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		
276						FLOCELE	50	lbs			2.50	125.00
283						SALT	900	lbs			.20	180.00
284						CALSEAL	8	sx			35.00	280.00
292						HALAD-322	125	lbs			8.00	1000.00
290						D-AIR	2	gal			42.00	84.00
325						STANDARD EA-2	175	sx			14.50	2537.50
581						SERVICE CHARGE					2.00	350.00
583						MILEAGE CHARGE	18325	TOTAL WEIGHT	80	LOADED MILES	1.00	733.00
											733.00	

CONTINUATION TOTAL 5289.50

WIPED
DECEMBER 25 1981

AMERICAN MARINE

13 1/2
8 1/2
22
180
182

20
100
8
132
2

DEAR
HARD 333
MAY 19
20

333
333
334
335
336

11 1/2 333

112

STANDARD EA-9

332

2381
133
320

133.00
132

1332 80

282
281

UNIT 2

DATE

DEPARTMENT

NAME

NO.

DATE

TIME

11:00

11:30

12:00

12:30

1:00

1:30

2:00

2:30

3:00

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5:00

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7:00

7:30

8:00



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Jim Musgrove

Delbert #1-15

15-18s-10w Rice,KS

Start Date: 2014.09.24 @ 06:28:00

End Date: 2014.09.24 @ 14:58:30

Job Ticket #: 60460 DST #: 1

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

Printed: 2014.09.26 @ 10:12:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
PO Box 399
Garden City KS 67846
ATTN: Jim Musgrove

15-18s-10w Rice, KS
Delbert #1-15
Job Ticket: 60460 **DST#: 1**
Test Start: 2014.09.24 @ 06:28:00

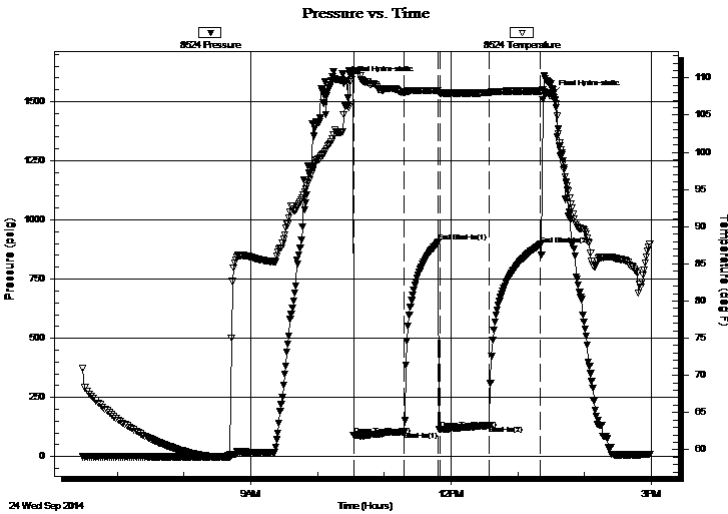
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:32:30
Time Test Ended: 14:58:30
Interval: **3206.00 ft (KB) To 3287.00 ft (KB) (TVD)**
Total Depth: 3287.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3
Reference Elevations: 1774.00 ft (KB)
1766.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8524 Inside
Press@RunDepth: 132.42 psig @ 3283.07 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.24 End Date: 2014.09.24 Last Calib.: 2014.09.24
Start Time: 06:29:00 End Time: 14:58:30 Time On Btm: 2014.09.24 @ 10:24:30
Time Off Btm: 2014.09.24 @ 13:31:00

TEST COMMENT: IFP 45 Fair blow built to 10"
ISI 30 No blow back.
FFP 45 Fair blow built to 8"
FSI45 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.24	106.23	Initial Hydro-static
8	91.05	110.84	Open To Flow (1)
54	106.86	108.10	Shut-In(1)
84	905.20	108.30	End Shut-In(1)
86	114.48	107.99	Open To Flow (2)
130	132.42	108.01	Shut-In(2)
176	896.49	108.24	End Shut-In(2)
187	1529.86	107.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
74.00	100% Clean Oil	1.04
63.00	OCM 20% Oil, 80% Mud	0.88
63.00	OCM 5% Oil, 95% mud	0.88

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
PO Box 399
Garden City KS 67846
ATTN: Jim Musgrove

15-18s-10w Rice, KS
Delbert #1-15
Job Ticket: 60460 **DST#: 1**
Test Start: 2014.09.24 @ 06:28:00

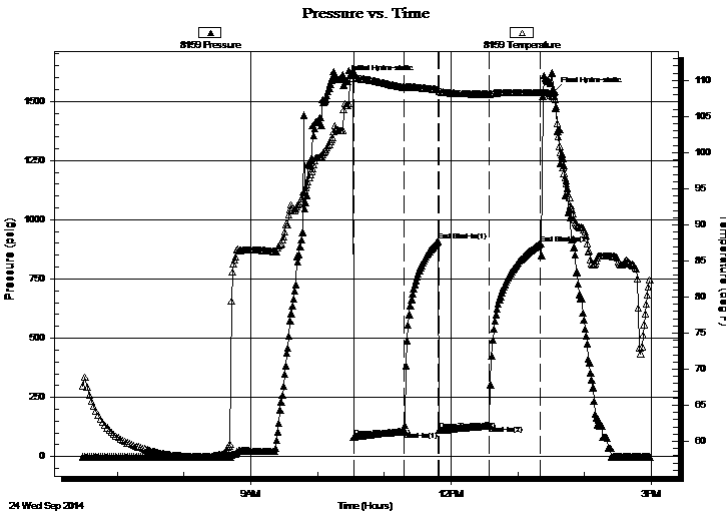
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:32:30
Time Test Ended: 14:58:30
Interval: **3206.00 ft (KB) To 3287.00 ft (KB) (TVD)**
Total Depth: 3287.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3
Reference Elevations: 1774.00 ft (KB)
1766.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8159 Outside
Press@RunDepth: 898.68 psig @ 3284.07 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.24 End Date: 2014.09.24 Last Calib.: 2014.09.24
Start Time: 06:29:00 End Time: 14:59:00 Time On Btm: 2014.09.24 @ 10:24:30
Time Off Btm: 2014.09.24 @ 13:33:00

TEST COMMENT: IFP 45 Fair blow built to 10"
ISI 30 No blow back.
FFP 45 Fair blow built to 8"
FSI45 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.84	106.83	Initial Hydro-static
8	81.70	111.22	Open To Flow (1)
54	106.72	109.04	Shut-In(1)
84	909.15	108.74	End Shut-In(1)
85	110.42	108.49	Open To Flow (2)
130	131.32	108.08	Shut-In(2)
176	898.68	108.31	End Shut-In(2)
189	1539.94	107.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
74.00	100% Clean Oil	1.04
63.00	OCM 20% Oil, 80% Mud	0.88
63.00	OCM 5% Oil, 95% mud	0.88

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.
PO Box 399
Garden City KS 67846
ATTN: Jim Musgrove

15-18s-10w Rice,KS
Delbert #1-15
Job Ticket: 60460 **DST#: 1**
Test Start: 2014.09.24 @ 06:28:00

Tool Information

Drill Pipe:	Length: 3210.00 ft	Diameter: 3.80 inches	Volume: 45.03 bbl	Tool Weight: 2000.00 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: 64000.00 lb
			<u>Total Volume: 45.03 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3206.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.07 ft			
Tool Length:	101.07 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3191.00	
Hydraulic tool	5.00			3196.00	
Packer	5.00			3201.00	20.00 Bottom Of Top Packer
Packer	5.00			3206.00	
Anchor	5.00			3211.00	
Change Over Sub	0.75			3211.75	
Drill Pipe	31.57			3243.32	
Change Over Sub	0.75			3244.07	
Anchor	38.00			3282.07	
Recorder	1.00	8524	Inside	3283.07	
Recorder	1.00	8159	Outside	3284.07	
Bull Plug	3.00			3287.07	81.07 Bottom Packers & Anchor

Total Tool Length: 101.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

15-18s-10w Rice,KS

PO Box 399
Garden City KS 67846

Delbert #1-15

Job Ticket: 60460

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.09.24 @ 06:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 42 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
74.00	100% Clean Oil	1.038
63.00	OCM 20% Oil, 80% Mud	0.884
63.00	OCM 5% Oil, 95% mud	0.884

Total Length: 200.00 ft Total Volume: 2.806 bbl

Num Fluid Samples: 0

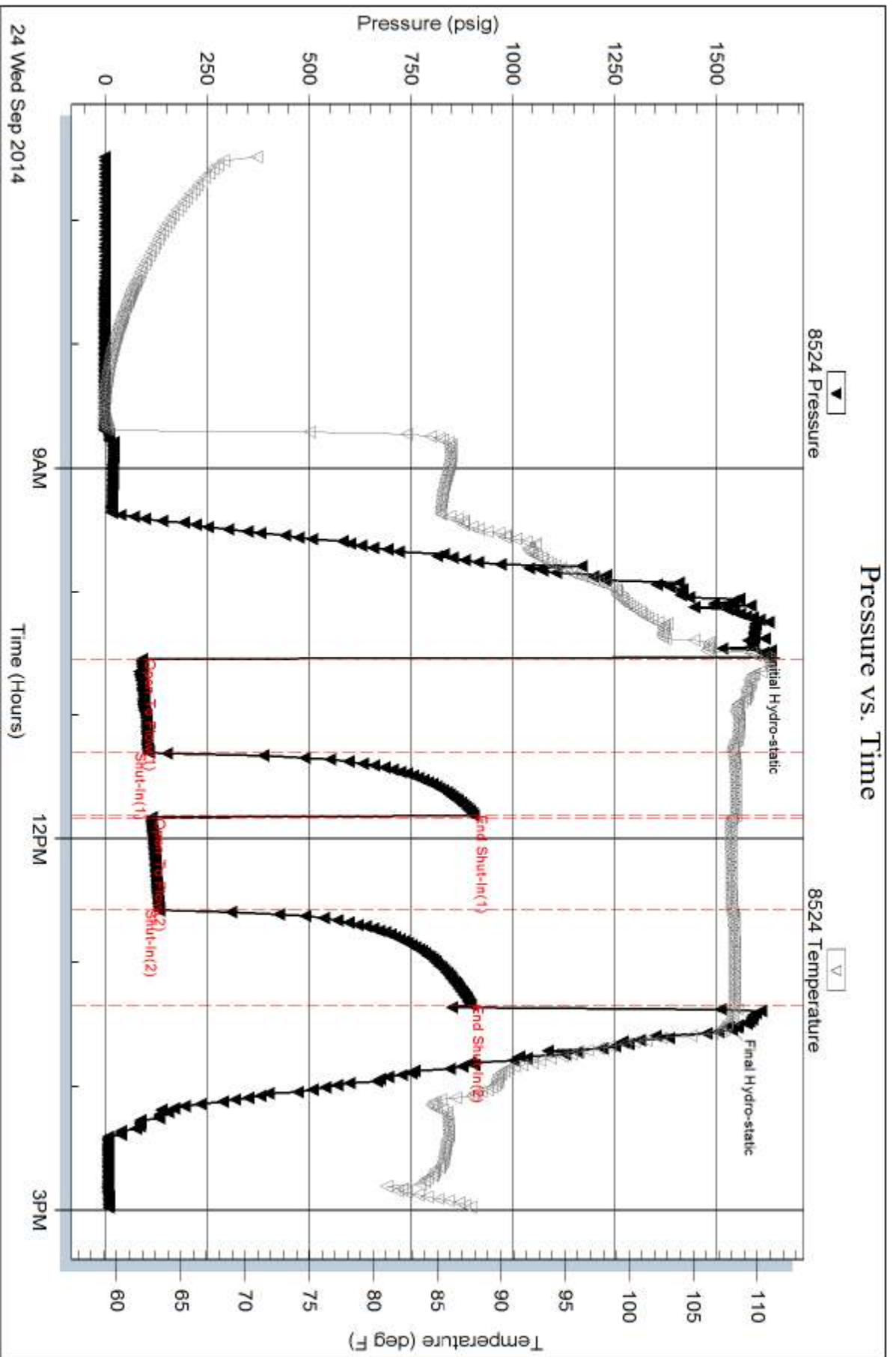
Num Gas Bombs: 0

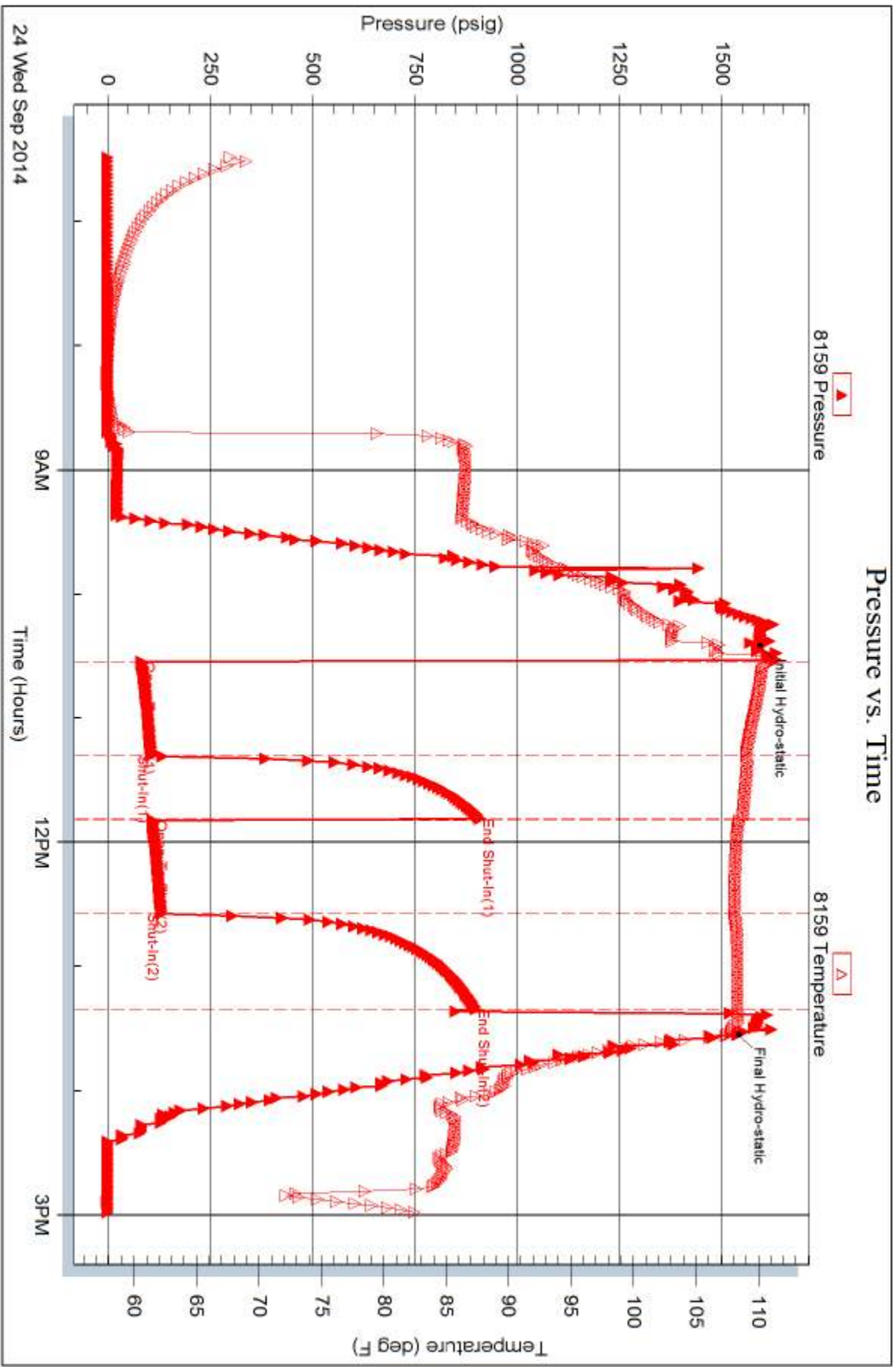
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





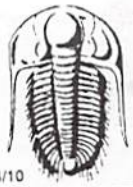
24 Wed Sep 2014

9AM

Time (Hours)

12PM

3PM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60460

Well Name & No. Delbert #1-15 Test No. 1 Date 9-24-14
 Company American Warrior Inc Elevation 1774 KB 1766 GL
 Address 3118 Cummings Rd P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Jim Musgrove Rig Duke #8
 Location: Sec. 15 Twp. 18 S Rge. 10 W Co. Rice State KS

Interval Tested 3206 - 3287 Zone Tested Arbuckle
 Anchor Length 81 Drill Pipe Run 3210 Mud Wt. 9.5
 Top Packer Depth 3201 Drill Collars Run 0 Vis 68
 Bottom Packer Depth 3206 Wt. Pipe Run 0 WL 8.0
 Total Depth 3287 Chlorides 4500 ppm System LCM 0
 Blow Description 1st Open - Fair blow built to 10 inches into water. 1st Shut In - No blow back. 2nd Open - Fair blow built to 8 inches into water.

Rec	Feet of	%gas	%oil	%water	%mud
<u>74</u>	<u>clean oil</u>	<u>100</u>			
<u>63</u>	<u>oil cnt mud</u>	<u>20</u>		<u>80</u>	
<u>63</u>	<u>oil cnt mud</u>	<u>5</u>		<u>95</u>	

Rec Total 200 BHT 110 Gravity 42 API RW 1 @ 1 °F Chlorides 1 ppm

(A) Initial Hydrostatic 1590 Test 1150 T-On Location 0600
 (B) First Initial Flow 91 Jars _____ T-Started 0900
 (C) First Final Flow 106 Safety Joint _____ T-Open 1035
 (D) Initial Shut-In 905 Circ Sub _____ T-Pulled 1315
 (E) Second Initial Flow 114 Hourly Standby _____ T-Out 1500
 (F) Second Final Flow 132 Mileage 54 83.70 Comments _____
 (G) Final Shut-In 896 Sampler _____
 (H) Final Hydrostatic 1529 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 45
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 45

Sub Total 1233.70
 Total 1233.70
 MP/DST Disc't _____

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.



James C. Musgrove
Petroleum Geologist

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY American Warrior Inc.

LEASE Delbert #1-15

FIELD _____

LOCATION SW-NE-NE-NE (349' FUL-339' FEL)

SEC 15 TWP 18S RGE 10W

COUNTY Rice STATE Kansas

CONTRACTOR Duke Drilling (rig #8)

SPUD 9/19/2014 COMP 9/25/2014

RTD 3400 LTD 3400

MUD UP 2600 TYPE MUD Chemical displaced

SAMPLES SAVED FROM 2700

DRILLING TIME KEPT FROM 2700

SAMPLES EXAMINED FROM 2700 TO 2820

GEOLOGICAL SUPERVISION FROM 2820 TO _____

GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS LOG SAMPLES

Anhydrite 484 +1290

Base anhydrite 501 +1273

Hebner 2807 -1033

Toron to 2824 -1050

Douglas 2836 -1062

Brown lime 2926 -1152

Lansing 2947 -1173

Base Kansas (L.B.) 3212 -1438

Anglomerate 3257 -1483

Ar buckle 3273 -1499

RTD 3400 -1676

ELEVATIONS

KB 1774

DF _____

GL 1766

Measurements Are All From -KB-

SURFACE CASING 412'
PRODUCTION 5211' 3399'

ELECTRICAL SURVEYS
Pioneer Dual Inductin,
Dual Compensated Resistivity
log 1/2 miles log.

RTD

REMARKS

5 1/2" production casing was set & cemented on the Delbert #1-15.

Respectfully Submitted,
James C. Musgrove
Petroleum Geologist



LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

DRILLING TIME

LOG

HL

ENG

Z01/001

Logarithmic Scale)

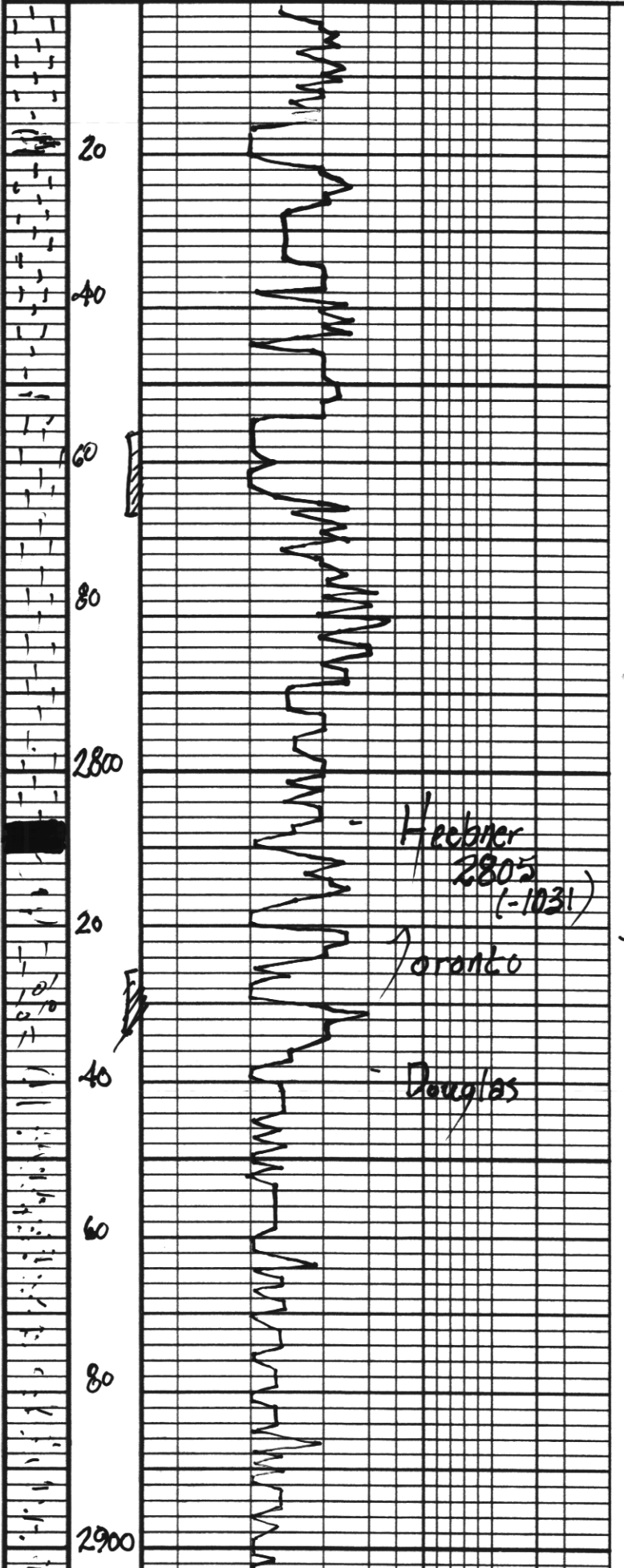
LITHO

DEP

.5 1 2 3 4 5 10 15 20 30

SAMPLE DESCRIPTIONS

REMARKS



~ blk carb. sh.

ls, wh/gry, fxl, ch. kn; few green. nls

1774 KB-

ls; tan/gry. foss; finely com.
Poor fr/good com/fossiliferous
(barren)

fr. gry/dk gry ls

~ blk carb. sh
ls; tan, fxl; few dy (ds)
gry/green sh

ls; tan, slightly dolomitic,
poor vis. nls
(fr. sub com ls) Poor vis. nls

Sand; gry/guish green, vfg,
mica; shaly; sub rounded
few cal & shaly; Poor fr
nls

sd + gry/guish green
silty sh.

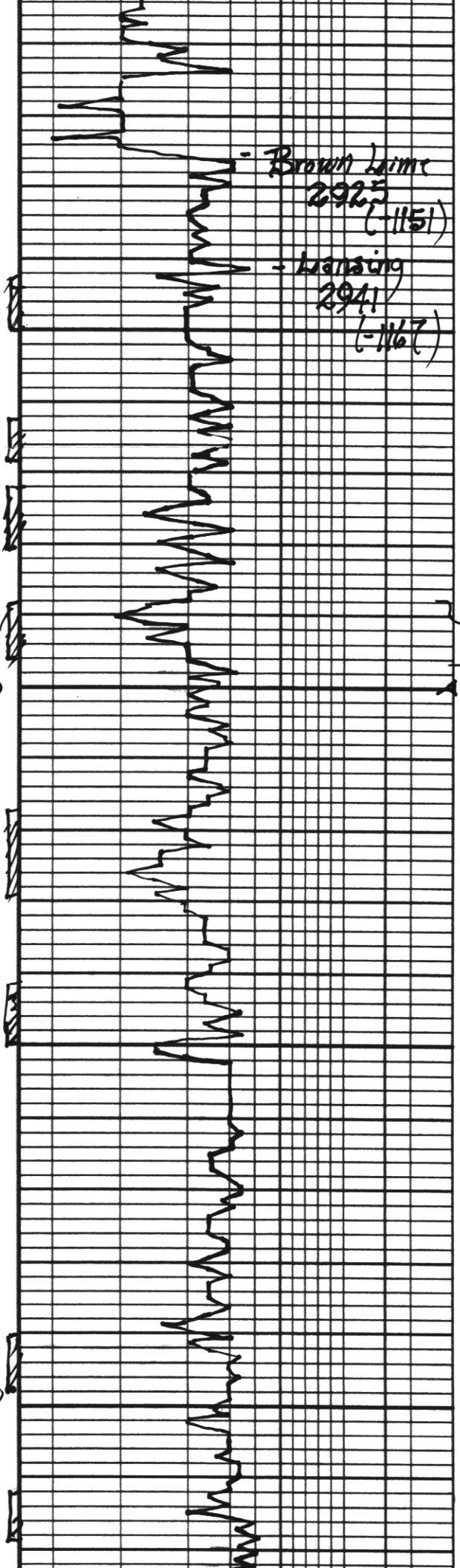
ditto

Heebner
2805
(-1031)

Toronto

Douglas

20
40
60
80
3000
20
40
60
80
3100
20



Brown Limestone
2925
(-1151)
- Lansing
2941
(-1167)

LS, wh/ gm; cherty - Poor
n/s

~ v.l. silty soft mica. sh.

LS, tan, (xk) slightly dy
(dse)

LS, crm, wh, (xk) foss in
part, cherty; poor of n/s

??
and; Poor of

LS, gm/tan/wh; foss;
cherty; n. Poor brown
str. info - ?? odor
(Poor vis o)
fr. gty / blk sh.

LS, tan/gry; foss/oal
scat of, cherty; Poor vis o

LS, gm; wh; tan; oal; cherty
Poor of; ledge str. info
no odor

LS, crm; wh; oal; cherty; n/s

??
LS, tan, fr. dense

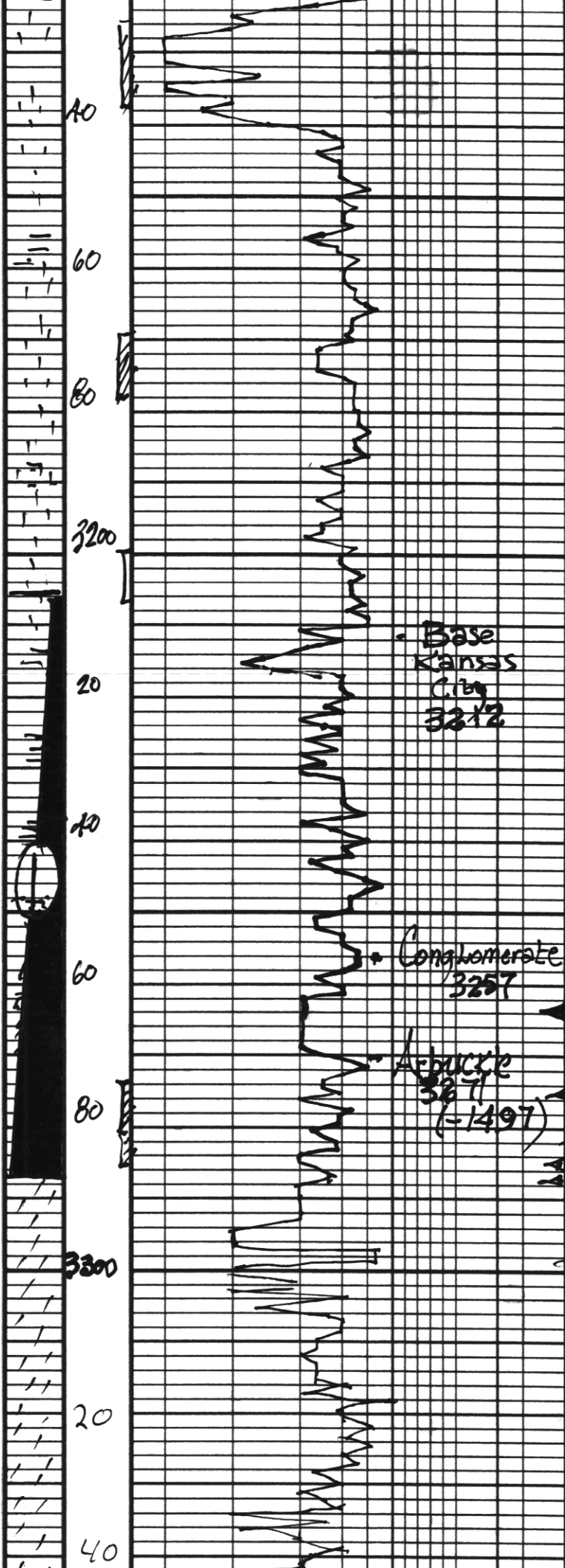
LS, wh/ gm; sub ool,
cherty; Poorly dev of n/s

LS, tan, fr. l. dy
+ wh d

~ blk carb. sh.

LS, wh/ ool, cherty
fr. ool of n/s

LS, wh/ crm; oal; cherty
in part / poor str. info
no odor



LS; tan, buff, con, good o'
n/s

-1774 KB -
=

gray/green sh

LS; tan, wh; cal/foss,
chky; poor visb n/s

LS; wh/gay; chky
+ amber d n/s

Jr LS; wh/crm
foss/chky; Poor o'

Base
Kansas
City
3312

v.c. sh.

DSt #1 3206-3287
45-30-45-45
Blow; fair (10 inches)
2nd opening; fair (8 inches)

+ gray/wh; chky ls

Rec; 74' clean oil
63' oil cut mud
(20% oil; 80% mud)

gray/green soft sh/clay
+ Jr. tan; nodular ls n/s

63' slightly oil cut
mud
(5% oil; 95% mud)

Conglomerate
3257

med purple sh gray sh
+ med tinted shaly ls
v.c. d

pressures:
i'sip 905 psi
f'sip 826
I fp 91-106
f fp 114-132
HSH 1590
-1529 psi

ana (v.c. sh + v.c. d)

Arbuckle
3271
(=1497)

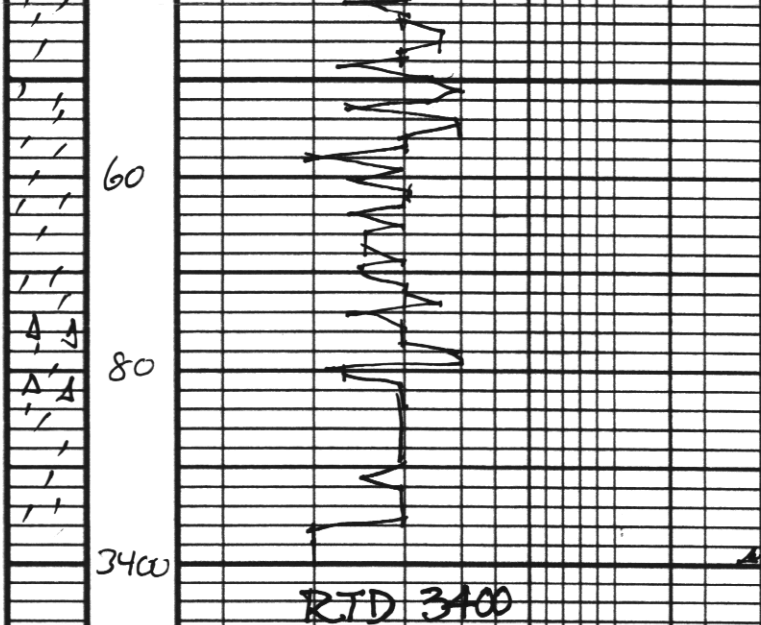
dot wh/crm (v.l.) suc; Poor o'

dot wh/crm/gay; f-med kly

Scott Ex. l.g.; brown sh; r. fa.
f.c. odor

dot, crm; wh; f. l. faw
med v.l.; con to part
f.c. con; v. gray d. Jr. sh
n.s. fo. no odor

dot, crm/wh; f.x.l.; slightly
d'y



aa; suc in part, fr. pp/IX-40'
(barren)

32

del; gry/wh; fr-med xl; fr IX-9'
n/s

32

debbaa + wh A

32