



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235284
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: _____

1235284

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
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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

Federal Tax I.D. # 20-8651475

063966

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

SERVICE POINT: Crackland

DATE <u>10-17-14</u>	SEC. <u>60</u>	TWP. <u>18</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION <u>Open</u>	JOB START <u>3 AM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>Holder</u>	WELL# <u>3-10</u>	LOCATION <u>East Hwy 4 to 4th st</u>			COUNTY <u>Wise</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				S to ced - <u>1/2 E - N into</u>			

CONTRACTOR Duke &
 TYPE OF JOB Surface
 HOLE SIZE 12 5/8 T.D.
 CASING SIZE 8 5/8 DEPTH 413.20
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 FT
 PERFS.
 DISPLACEMENT 24.64 bbl H2O
 EQUIPMENT
 PUMP TRUCK CEMENTER Dash Isaac
 # 366 HELPER Ben Newell
 BULK TRUCK
 # 549-198 DRIVER Dan Cooper
 BULK TRUCK
 # DRIVER

OWNER
 CEMENT
 AMOUNT ORDERED 275 sx class A
3 1/2" 2 1/2" gel
 COMMON 275 @ 17.70 4,922.50
 POZMIX @
 GEL 517 @ .50 258.50
 CHLORIDE 775 @ 1.10 852.50
 ASC @
 Materials Total 6,033.50
 Disc 20% 1,206.70
 Service
 HANDLING 297.37 @ 2.48 737.48
 MILEAGE 13.57 x 29 x 2.75 1,082.21

REMARKS:

on location rig up - had softening
run 8 5/8 casing - Brown circulation
pump 5 bbl H2O
mix 275 sx class A 3 1/2" 2 1/2" gel
Drop plug
Dis placed 24.64 bbl H2O
Spent in 315 Am
Cement did concrete
plug down

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

DEPTH OF JOB 413
 PUMP TRUCK CHARGE 1512.35
 EXTRA FOOTAGE @
 MILEAGE Hum 29 @ 7.70 223.30
 MANIFOLD @
Hum 29 @ 4.40 127.60

TOTAL 3,682.84
 Disc 20% 736.57

PLUG & FLOAT EQUIPMENT

Rubber plug @ 131.00 131.00
 @
 @
 @
 @

TOTAL 131.00
 Disc 20% 26.20

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 Steve H Stephens
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 9,877.34
 DISCOUNT 20% 1,969.47 (20/20/20)
 IF PAID IN 30 DAYS
7,877.87

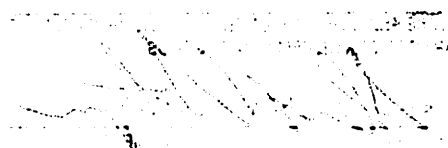
Handwritten text at the top of the page, possibly a title or header.

3-107 Heckerling ...
Dodge ...

312	313	314	315	316	317	318	319	320
...

312 1
313 2
314 3

315 4
316 5
317 6



Handwritten notes or labels associated with the graph.

JOB LOG

SWIFT Services, Inc.

DATE 8/20/14 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 3-10 LEASE Hoelscher JOB TYPE cement long string TICKET NO. 27889

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 cement w/ #4 floccs 5 1/2 x 19.5" casing 81 jts TOTAL PIPE 3400' TD = 3400' shoe pt - 25.7' Basket #3 Centralizers, 1, 2, 4, 5, 6, 8, #11
	0500							on loc TRK 114
	0543							start 5 1/2 x 19.5" casing in well
	0658							circ joint down
	0715							Drop ball - circulate
	0800	4	12				200	Pump 500 gal mud flush
		4	20				200	Pump 20 bbl KCl flush
	0809		7					Plug RH - MH 30 sk - 20 sk
	0814	4	35				200	mix EA-2 cement 125 sk @ 15.3 ppg
								Drop latch drum plug wash out pump & line
	0828	6					200	Displace plug
		6	75				650	
	0845	6	81				1500	Land plug
	0849							Release pressure to truck - dried up
	0855							wash truck
								Rack up
	0930							job complete

Thanks
Blaine, Flint, & Craig



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO .Box 399
Garden City, KS 67846

ATTN: Clint Musgrove

Hoelscher #3-10

10-1`8s-10w Rice,KS

Start Date: 2014.10.21 @ 01:15:00

End Date: 2014.10.21 @ 08:37:30

Job Ticket #: 60389 DST #: 1

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

Printed: 2014.10.23 @ 08:39:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

10-1'8s-10w Rice, KS
Hoelscher #3-10
 Job Ticket: 60389 **DST#: 1**
 Test Start: 2014.10.21 @ 01:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:28:00
 Time Test Ended: 08:37:30
 Interval: **3216.00 ft (KB) To 3286.00 ft (KB) (TVD)**
 Total Depth: 3286.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1793.00 ft (KB)
 1785.00 ft (CF)
 KB to GR/CF: 8.00 ft

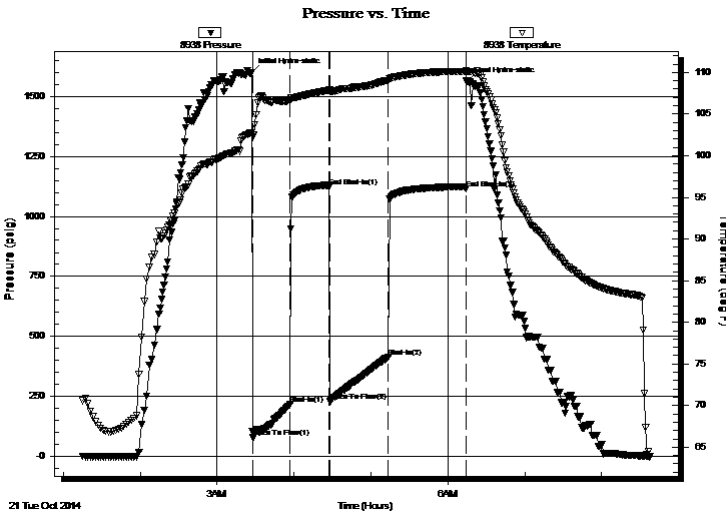
Serial #: 8938

Inside

Press@RunDepth: 413.97 psig @ 3282.36 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.21 End Date: 2014.10.21 Last Calib.: 2014.10.21
 Start Time: 01:15:00 End Time: 08:37:30 Time On Btm: 2014.10.21 @ 03:27:00
 Time Off Btm: 2014.10.21 @ 06:15:00

TEST COMMENT: IFP 30 Minutes BOB in 9 minutes
 ISI 30 Minutes No blow back
 FFP 45 Minutes BOB in 7 minutes
 FSI 60 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.37	102.78	Initial Hydro-static
1	78.93	102.47	Open To Flow (1)
30	217.94	106.62	Shut-In(1)
61	1125.68	107.87	End Shut-In(1)
61	230.33	107.68	Open To Flow (2)
107	413.97	109.07	Shut-In(2)
167	1114.88	110.14	End Shut-In(2)
168	1563.99	110.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil cut mud 2% Gas 24% Oil 74% Mud	1.26
90.00	Heavy oil cut mud 3% Gas 43% Oil 74% M	1.26
750.00	Clean gassy oil 15% Gas 85% Oil	10.52

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: Clint Musgrove

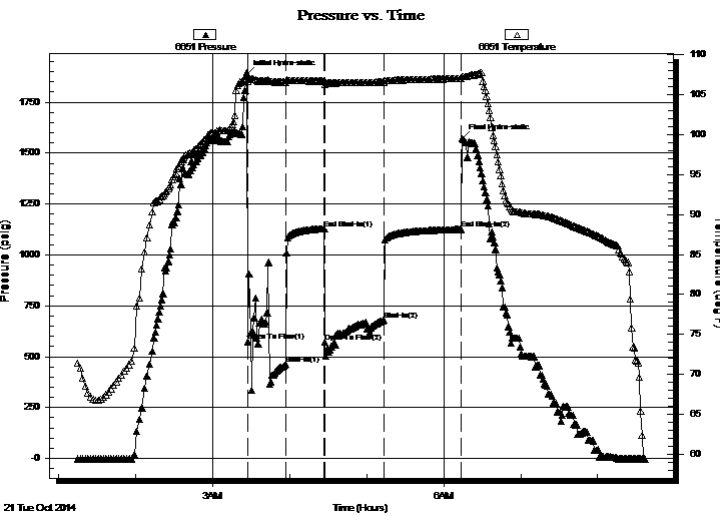
10-1'8s-10w Rice,KS
Hoelscher #3-10
 Job Ticket: 60389 **DST#: 1**
 Test Start: 2014.10.21 @ 01:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:28:00
 Time Test Ended: 08:37:30
 Interval: **3216.00 ft (KB) To 3286.00 ft (KB) (TVD)**
 Total Depth: 3286.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1793.00 ft (KB)
 1785.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 1125.76 psig @ 3283.36 ft (KB) Capacity: psig
 Start Date: 2014.10.21 End Date: 2014.10.21 Last Calib.: 2014.10.21
 Start Time: 01:15:00 End Time: 08:37:00 Time On Btm: 2014.10.21 @ 03:27:00
 Time Off Btm: 2014.10.21 @ 06:14:30

TEST COMMENT: IFP 30 Minutes BOB in 9 minutes
 ISI 30 Minutes No blow back
 FFP 45 Minutes BOB in 7 minutes
 FSI 60 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.27	107.04	Initial Hydro-static
1	574.08	106.64	Open To Flow (1)
30	462.26	106.52	Shut-In(1)
60	1129.07	106.65	End Shut-In(1)
61	571.44	106.20	Open To Flow (2)
107	679.78	106.56	Shut-In(2)
167	1125.76	106.99	End Shut-In(2)
168	1569.51	107.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil cut mud 2% Gas 24% Oil 74% Mud	1.26
90.00	Heavy oil cut mud 3% Gas 43% Oil 74% M	1.26
750.00	Clean gassy oil 15% Gas 85% Oil	10.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

10-1'8s-10w Rice,KS

PO .Box 399
Garden City, KS 67846

Hoelscher #3-10

Job Ticket: 60389

DST#: 1

ATTN: Clint Musgrove

Test Start: 2014.10.21 @ 01:15:00

Tool Information

Drill Pipe:	Length: 3218.00 ft	Diameter: 3.80 inches	Volume: 45.14 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 45.14 bbl</u>	Tool Chased	20.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3216.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.36 ft				
Tool Length:	98.36 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3193.00	
Hydraulic Tool	5.00			3198.00	
Jars	6.00			3204.00	
Safety Joint	2.00			3206.00	
Top Packer	5.00			3211.00	
Packer	5.00			3216.00	28.00 Bottom Of Top Packer
Anchor	5.00			3221.00	
Change Over Sub	0.75			3221.75	
Drill Pipe	30.86			3252.61	
Change Over Sub	0.75			3253.36	
Anchor	28.00			3281.36	
Recorder	1.00	8938	Inside	3282.36	
Recorder	1.00	6651	Outside	3283.36	
Bull Plug	3.00			3286.36	70.36 Anchor Tool

Total Tool Length: 98.36



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

10-1`8s-10w Rice,KS

PO .Box 399
Garden City, KS 67846

Hoelscher #3-10

Job Ticket: 60389

DST#: 1

ATTN: Clint Musgrove

Test Start: 2014.10.21 @ 01:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Oil cut mud 2%Gas 24%Oil 74%Mud	1.262
90.00	Heavy oil cut mud 3%Gas 43%Oil 74%Mud	1.262
750.00	Clean gassy oil 15%Gas 85% Oil	10.521

Total Length: 930.00 ft Total Volume: 13.045 bbl

Num Fluid Samples: 0

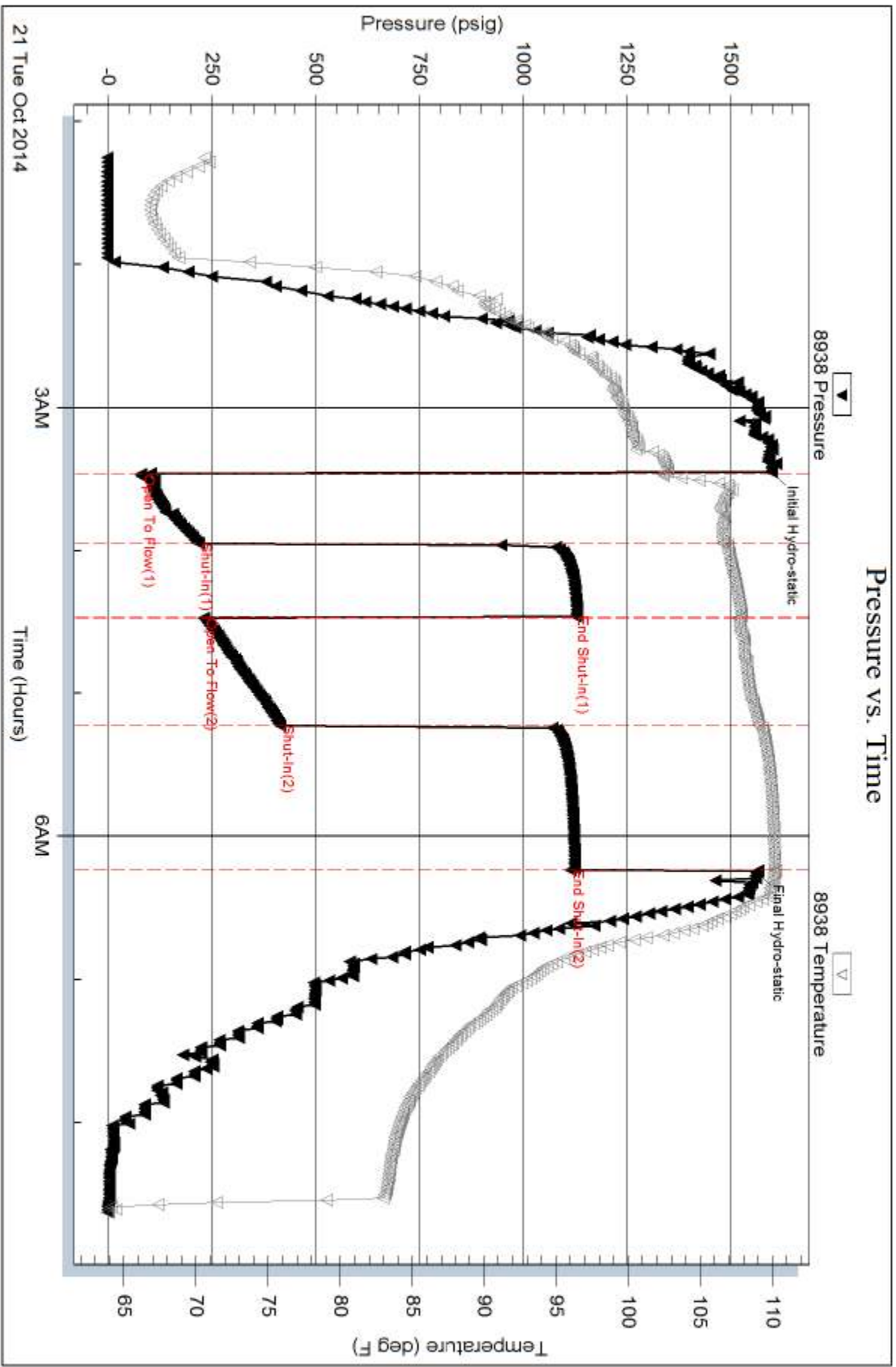
Num Gas Bombs: 0

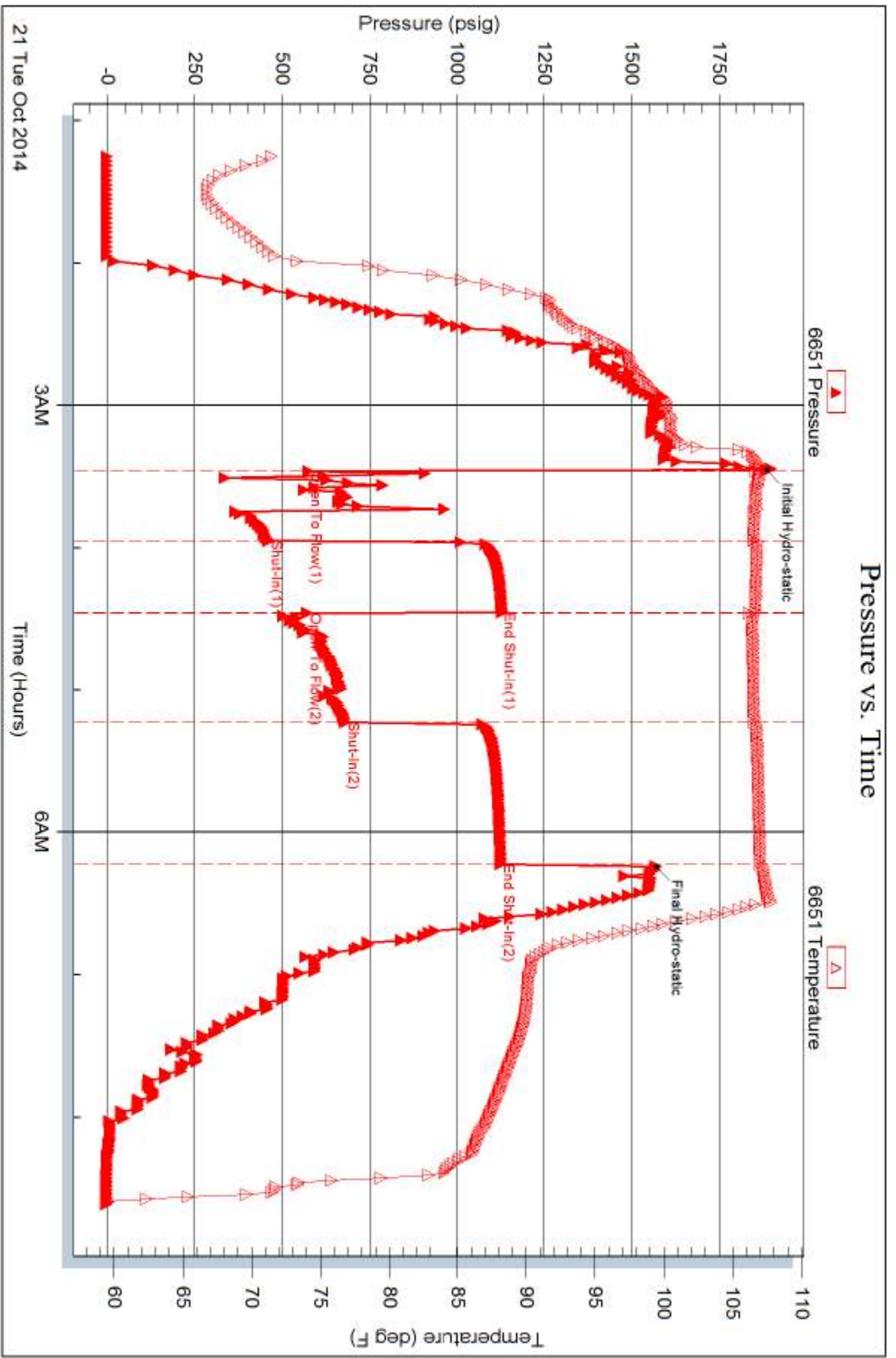
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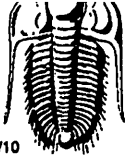
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60389

Well Name & No. Hoelscher #3-10 Test No. 1 Date 10-21-2014
 Company AMERICAN WARRIOR INC. Elevation 1793 KB 1785 GL
 Address 3118 CUMMINGS ROAD P.O. BOX 399, GARDEN CITY KANSAS 67846
 Co. Rep / Geo. CLINTON MUSGRAVE Rig DUKE DRILLING RIG #B
 Location: Sec. 10 Twp. 18^S Rge. 10^W Co. RICE State _____

Interval Tested 3216-3286 Zone Tested ARBUCKLE
 Anchor Length 70 Drill Pipe Run 3189 Mud Wt. 9.05
 Top Packer Depth 3211 Drill Collars Run NONE Vis 46
 Bottom Packer Depth 3216 Wt. Pipe Run NONE WL 8.9
 Total Depth 3216 Chlorides 3100 ppm System LCM 0
 Blow Description 1ST OPEN FAIR blow built to the bottom of the bucket in 9 minutes
2ND OPEN FAIR blow built to the bottom of the bucket in 7 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>750</u>	<u>CLEAN Gassy Oil</u>	<u>15</u>	<u>85</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>HEAVY OIL cut mud</u>	<u>3</u>	<u>43</u>	<u>0</u>	<u>54</u>
<u>90</u>	<u>Oil cut mud</u>	<u>2</u>	<u>24</u>	<u>0</u>	<u>74</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total _____ BHT 110 Gravity 41 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1599</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:15 AM</u>
(B) First Initial Flow <u>78</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:14 AM</u>
(C) First Final Flow <u>217</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:28 AM</u>
(D) Initial Shut-In <u>1125</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:13 AM</u>
(E) Second Initial Flow <u>230</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:58 AM</u>
(F) Second Final Flow <u>413</u>	<input checked="" type="checkbox"/> Mileage <u>60</u> ⁹³	Comments <u>SLID tool 20</u>
(G) Final Shut-In <u>1114</u>	<input type="checkbox"/> Sampler _____	<u>FEET to bottom - out</u>
(H) Final Hydrostatic <u>1563</u>	<input type="checkbox"/> Straddle _____	<u>SIDE Recorder HAD</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer <u>plugging</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1568</u>
	Sub Total <u>1568</u>	MP/DST Disc't _____

Approved By _____ Our Representative Gene Budig
 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.



Geologist's Report

Company: American Warrior Inc.
Lease: Hoelscher #3-10
Field: Unknown
Location: SE-NW-NW-SE (1991 FSL & 2284 FEL)
Sec: 10 **Twsp:** 18S **Rge:** 10W
County: Rice **State:** Kansas
GL: 1785' **KB:** 1793'

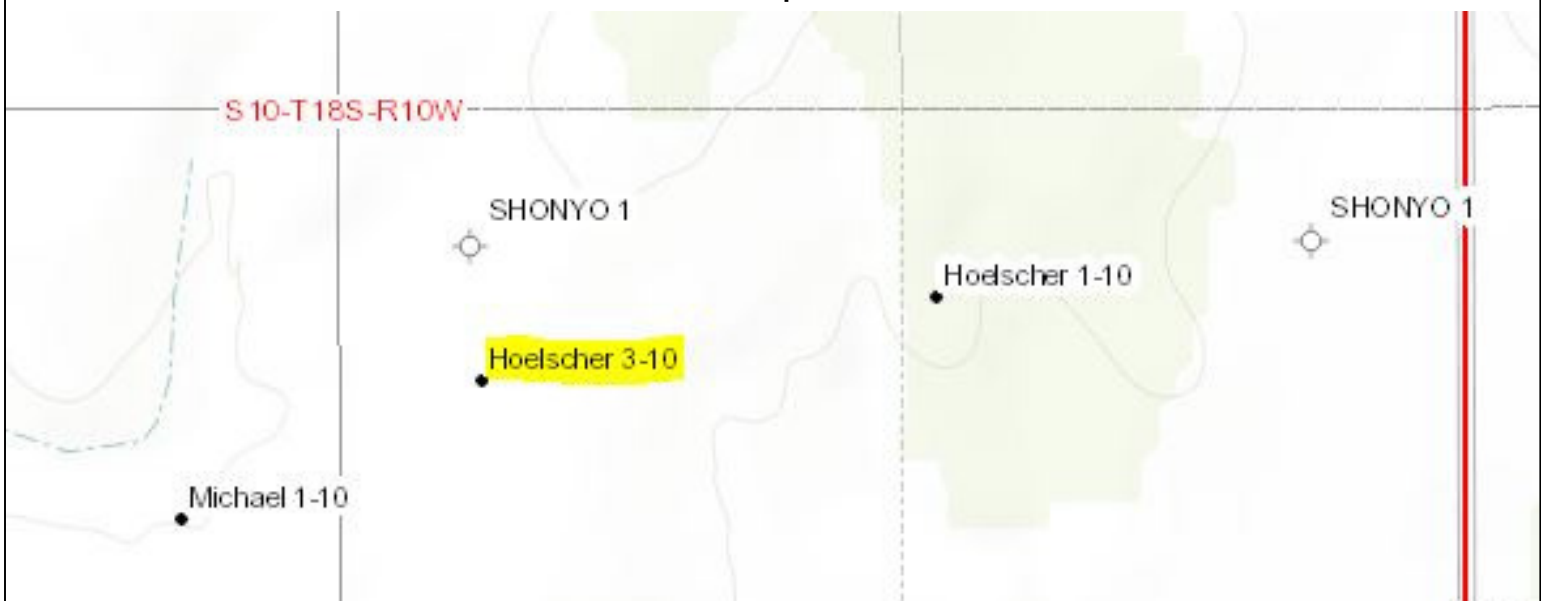
Contractor: Duke Drilling Rig #8
Spud: 10/16/14 **Comp:** 10/22/14
RTD: 3400' **LTD:** 3397'
Mud Up: 2600' **Type Mud:** Chemical/Displaced

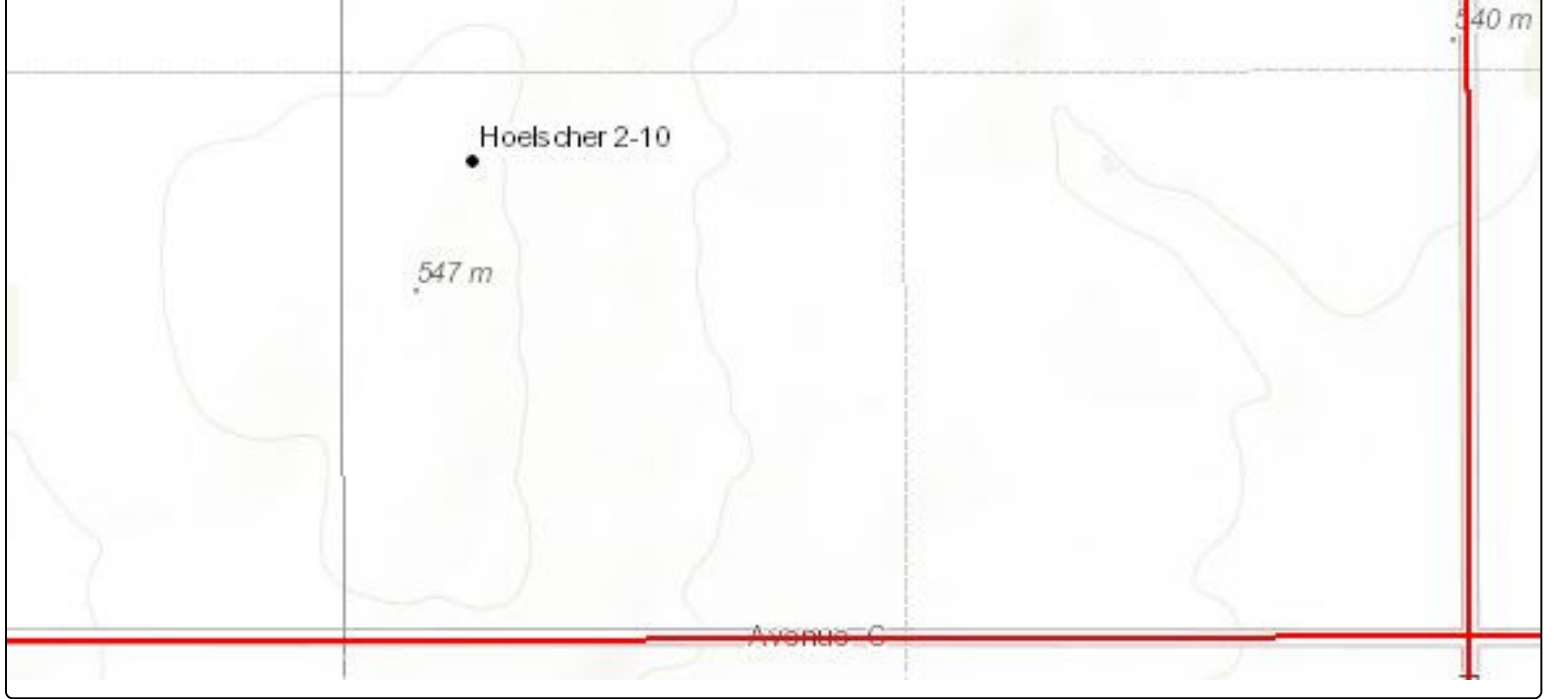
Samples Saved From: 2700' to RTD
Drilling Time Kept From: 2800' to RTD
Samples Examined From: 2800' to RTD
Geological Supervision From: 2800' to RTD
Geologist on Well: Clint Musgrove

Surface Casing: 8 5/8" @ 413'
Production: 5 1/2 @ 3395'

Logs: By Pioneer: CNL/CDL, DIL, & MEL

Map





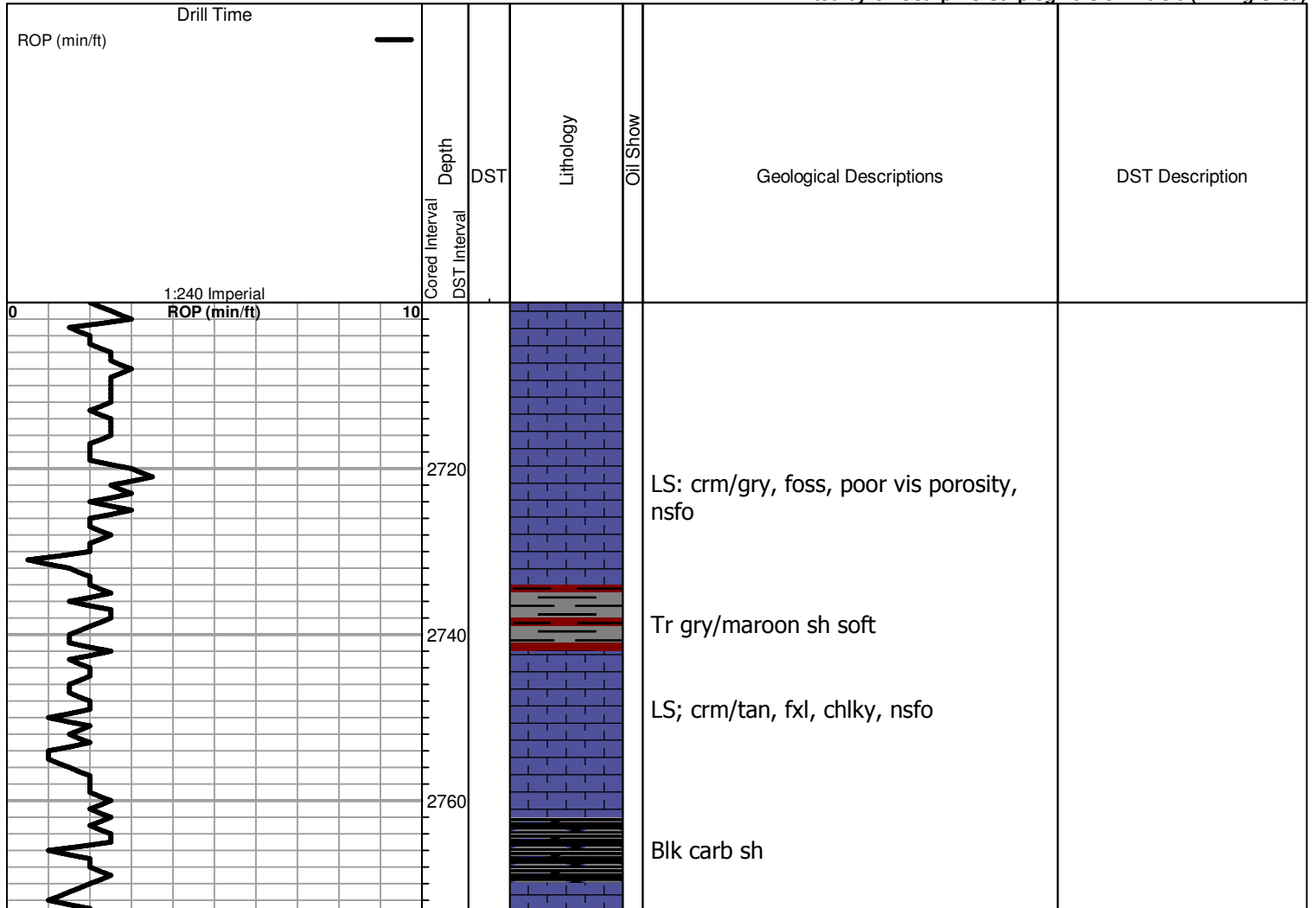
ROCK TYPES

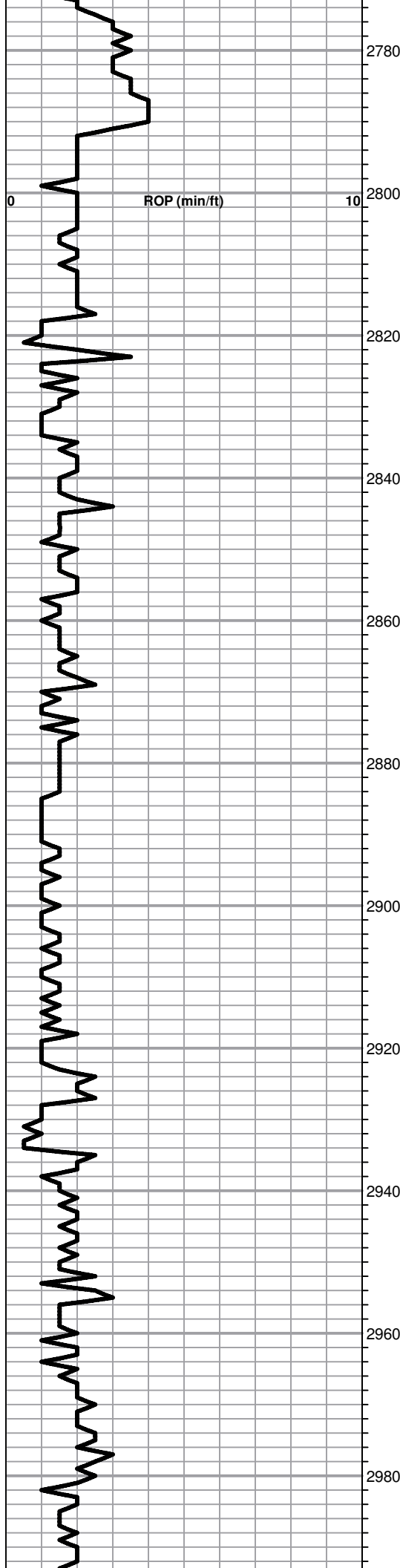


OTHER SYMBOLS



Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





LS; crm/tan, fxl, foss in part, poor vis porosity nsfo

LS; crm/tan, fxl, ool, foss, poor vis porosity, nsfo

Gry sh soft

Heebner
 Sample 2817.0 (-1024.0)
 Log 2817.0 (-1024.0)

Blk carb sh

Toronto
 Sample 2831.0 (-1038.0)
 Log 2838.0 (-1045.0)

LS; crm/tan, fxl, foss, poor vis porosity

Douglas
 Sample 2844.0 (-1051.0)
 Log 2848.0 (-1055.0)

Sh, gry, silty + mica

AA + tr sd

Sh gry, greenish + mica
 well sorted, nsfo, no odor

Sh- gry/grn, silty + mica

AA + gry/ maroon sh

AA

Brown Lime
 Sample 2935.0 (-1142.0)
 Log 2936.0 (-1143.0)

LS; tan/brn, fxl, chlky, poor vis porosity, nsfo + tr gr/red sh

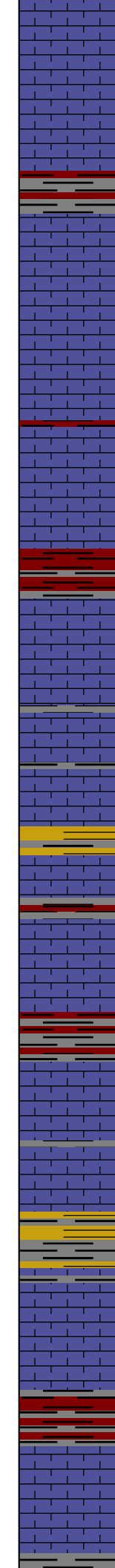
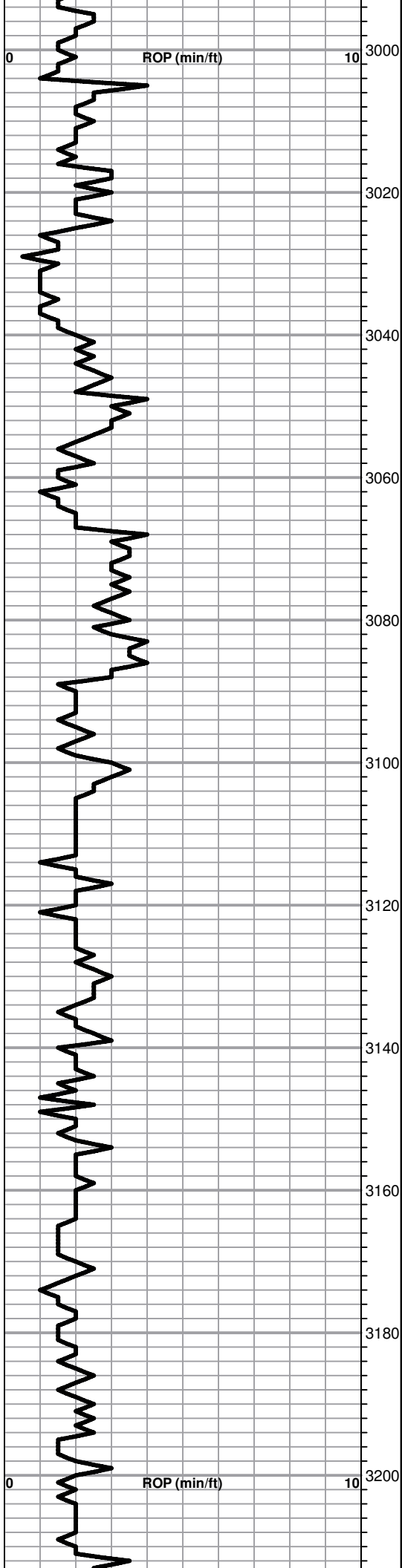
Lansing
 Sample 2952.0 (-1159.0)
 Log 2853.0 (-1160.0)

LS; crm, fxl, foss, nsfo, no odor

Gr sh soft

LS: crm, fxl, cherty in part,
 Tr gry/red sh soft

- 1793 KB -



LS; crm, fxl, chlky, poor vis porosity, nsfo

LS: crm, fxl, foss, poor vis porosity, nsfo

Tr gry sh

LS; crm/gry, fxl, foss, scatt vis porosity, gas bubbles when broken, nsfo, odor??

LS; crm/gry, foss, scatt vis porosity, nsfo

LS; crm/gry, foss, scatt vis porosity, oom, nsfo, no odor

Tr gry sh soft

LS; crm, fxl, cherty, poor vis porosity

LS: crm/tan, fxl, foss, oom, scatt ppt oom porosity

VC sh, blk carb/ sility greenish/gry/red

LS; crm, fxl, chlky, oom in part, nsfo, no odor

LS: crm, fxl, foss, ppt oom porosity, nsfo, no odor

Sh gry/red soft

LS' crm, fxl, chlky, scatt vis porosity, nsfo

LS; crm, fxl, ool, foss in part, nsfo

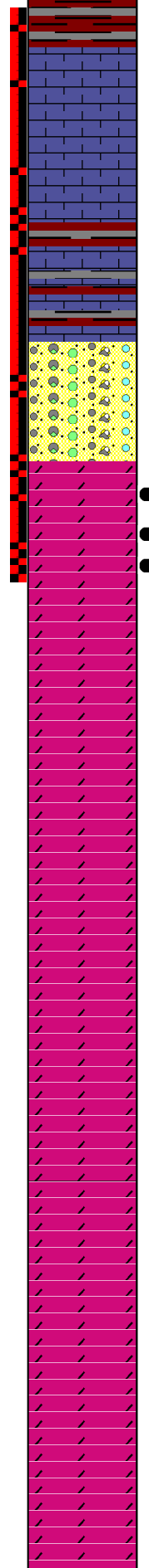
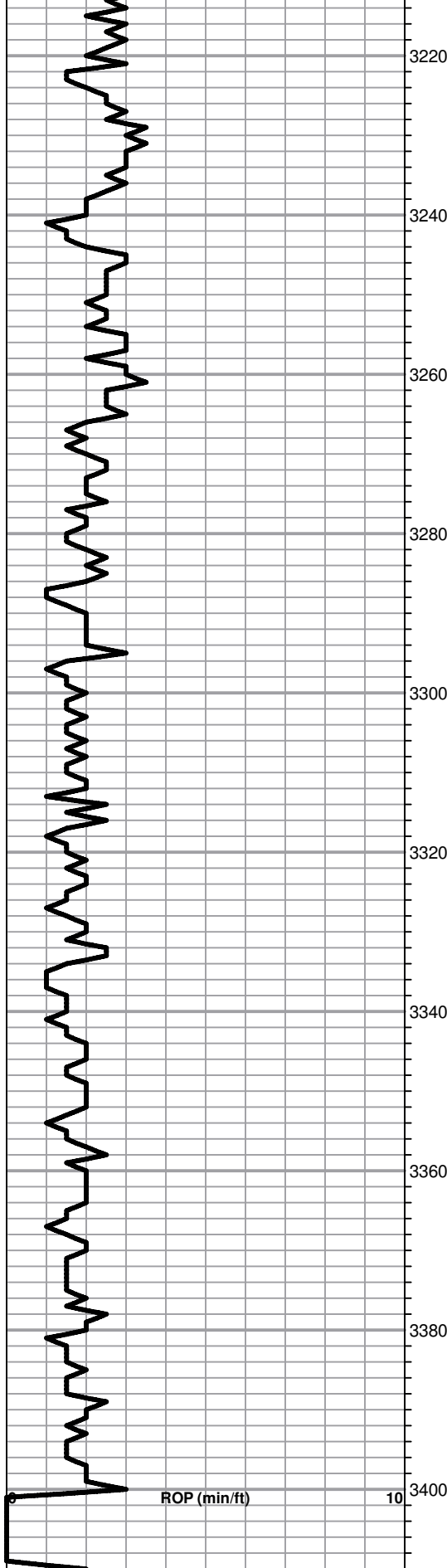
VC sh soft

LS: crm, fxl, foss, chlky in part, ft brn stn nsfo

Tr gr/maroon sh

LS; crm/gry, fxl, foss, poor vis porosity, nsfo

LS; crm, cherty, chlky, scatt vis porosity



porosity

Tr gry/ maroon sh sfot

LS; crm, fxl, cherty, poor vis porosity, nsfo

BKC
Sample 3236.0 (-1443.0)
Log 3237.0 (-1444.0)

LS; wh/crm, fxl, dense, poor vis porosity

Cong
Sample 3261.0 (-1468.0)
Log 3258.0 (-1465.0)

VC chert + LS crm, fxl dense

● **Arbuckle**
 ● **Sample 3276.0 (-1483.0)**
 ● **Log 3270.0 (-1477.0)**

Dol: tan/crm succ in part, poor iner xln porosity, ft brn stn, sfo, very ft odor

Dol: tan, fxl, poor iner xln porosity, ft brn stn, sfo, no odor

AA + ft odor

Dol; wh/tan, fxl, poor vis porosity, nsfo no odor

aa no odor nsfo

Dol: wh/tan, f-med xln, no odor, nsfo

aa

Dol; wh/gry, fxl, dense, med-xln, no odor, nsfo

RTD
Sample 3400.0 (-1607.0)
Log 3397.0 (-1604.0)

DST #1 3216-3286
30-30-45-60

Initial Opening:
 Strong BOB 9 mins
 2nd Opening:
 Strong BOB 7 min

Recovery:
 750' Clean Oil
 90' HOCM (3%G, 43%O, 54%M)
 90' OCM (2%G, 24%O, 74%M)

Pressures:
 ISIP: 1125 psi
 FSIP: 1114 psi
 IFP: 78-217 psi
 FFP: 230-413 psi
 HSH: 1599-1563 psi