

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Trek AEC, LLC
Well Name	EUGENE ROSS TRUST 1-34
Doc ID	1486950

Tops

Name	Top	Datum
Topeka	3185	-979
Oread A	3538	-1132
Heebner Shale	3385	-1179
Toronto	3408	-1202
Lansing A	3422	-1216
Lansing C	3462	-1256
Lansing D	3476	-1272
Lansing E	3496	-1290
Lansing/KC F	3507	-1301
Lansing/KC G	3517	-1311
Muncie Creek	3540	-1334
Lansing/KC H	3552	-1346
Lansing/KC I	3574	-1368
Lansing/KC J	3589	-1383
Lansing/KC K	3612	-1406
Base/Kansas City	3629	-1423
Arbuckle	3664	-1458





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

Date: 11/16/2019  
 Invoice # 1831

P.O.#:  
 Due Date: 12/16/2019  
 Division: Russell

# Invoice

**ENTERED**

Contact:  
 TREK AEC, LLC  
 Address/Job Location:

4925 GREENVILLE AVE  
 SUITE 915  
 BOISE ID 83714

Reference:  
 EUGENE ROSS TRUST SEC 34-6-20

Description of Work:  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 657.71	No				
Common-Class A	135	\$ 2,050.10	Yes				
Calcium Chloride	6	\$ 247.69	Yes				
POZ Mix-Standard	30	\$ 154.81	Yes				
Bulk Truck Matl-Material Service Charge	179	\$ 131.96	No				
Premium Gel (Bentonite)	3	\$ 64.13	Yes				
Pump Truck Mileage-Job to Nearest Camp	37	\$ 122.74	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	37	\$ 95.46	No				

**Invoice Terms:**

Net 30

SubTotal:	\$	3,524.60
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(88.12)
<hr/>		
SubTotal for Taxable Items:	\$	2,453.81
SubTotal for Non-Taxable Items:	\$	982.68
<hr/>		
Total:	\$	3,436.48
Tax:	\$	171.77
<hr/>		
<b>Amount Due:</b>	<b>\$</b>	<b>3,608.25</b>
<b>Applied Payments:</b>		
<b>Balance Due:</b>	<b>\$</b>	<b>3,608.25</b>

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1831

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11/16/19	34	6	20	Rooks	KS		12:30 PM

Location Stockwell 9R N 52nd W 20th N (20) / (18W)

Lease <u>E Gene Ross Trust</u>	Well No. <u>1-34</u>	Owner <u>UIC</u>
Contractor <u>Duke #2</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>Surface</u>		Charge To <u>TIPK AEC LLC</u>
Hole Size <u>13 1/4</u>	T.D. <u>263</u>	Street
Csg. <u>8 5/8</u>	Depth <u>212</u>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>15'</u>	Shoe Joint <u>15'</u>	Cement Amount Ordered <u>10 8/20 3/11 2/10/1</u>
Meas Line	Displace <u>15 1/2 B</u>	<u>170</u>

### EQUIPMENT

Pumptrk <u>5</u>	No. Cementer <u>1</u>	Helper <u>1</u>	Common <u>135</u>
Bulktrk	No. Driver <u>1</u>	Driver <u>1</u>	Poz. Mix <u>35</u>
Bulktrk <u>9</u>	No. Driver <u>1</u>	Driver <u>1</u>	Gel. <u>3</u>
			Calcium <u>6</u>

### JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>8 5/8 on bottom by Cementer</u>	Sand
<u>M. &amp; W. 170 B &amp; Displace</u>	Handling <u>179</u>
<u>Cement Cement</u>	Mileage
	<b>FLOAT EQUIPMENT</b> <u>8 5/8 Surface</u>
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Thanks

Pumptrk Charge Surface  
Mileage 27

X Signature Diana Vinyard

Tax  
Discount  
Total Charge



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraltel.net

Date: 11/23/2019  
 Invoice # 1841

P.O.#:  
 Due Date: 12/23/2019  
 Division: *Russell*

# Invoice

Contact:  
 TREK AEC, LLC  
 Address/Job Location:

4925 GREENVILLE AVE  
 SUITE 915  
 BOISE ID 83714

Reference:  
 EUGENE ROSS TRUST 1-34 SEC 34-6-20

Description of Work:  
 PROD STRING BOTTOM STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No	Bulk Truck Matl-Material Service Charge	137	\$103.65	No
Two Stage Cement Collar, 5 1/2"	1	\$ 3,144.34	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	37	\$97.98	No
Pro-C Cement	120	\$ 2,178.95	Yes				
Gilsonite	600	\$ 680.92	Yes				
Mud Clear	500	\$ 552.30	Yes				
5 1/2" Turbolizer	6	\$ 326.84	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 254.21	Yes				
5 1/2" Basket	1	\$ 211.84	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 201.25	Yes				
Pump Truck Mileage-Job to Nearest Camp	37	\$ 125.97	No				
Salt (Fine)	11	\$ 109.02	Yes				

SubTotal: \$ 8,662.30

Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (216.56)

SubTotal for Taxable Items: \$ 7,468.19

SubTotal for Non-Taxable Items: \$ 977.55

Total: \$ 8,445.74

Tax: \$ 522.77

7.00% Rooks County Sales Tax

**Amount Due: \$ 8,968.51**

Applied Payments:

**Balance Due: \$ 8,968.51**

**Thank You For Your Business!**

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 1841

Cell 785-324-1041

Date	11-23-19	Sec.	34	Twp.	6e	Range	20	County	Rooks	State	KS	On Location	Finish
Location													11:30pm

Lease	Eugene Ross Trust	Well No.	1-34	Owner	N to G RD 1/8 W into
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Contractor	DUKE #2	Bottom Stage	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
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Type Job	DV Job	Charge To	TRK AEC LLC
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Hole Size	7 7/8	T.D.	3730
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Csg.	5 1/2 17#	Depth	3728
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Tbg. Size	DU Tool	Depth	1807
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Cement Left in Csg.	42.20	Shoe Joint	42.20
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Meas Line	Displace	85/23L	500 gal mud clear
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EQUIPMENT			
Pumptrk	20	No.	Cementer <i>[Signature]</i>
			Helper <i>[Signature]</i>
			Driver <i>[Signature]</i>
Bulktrk	21	No.	Driver <i>[Signature]</i>
			Driver <i>[Signature]</i>
Bulktrk	1	No.	Driver <i>[Signature]</i>
			Driver <i>[Signature]</i>

JOB SERVICES & REMARKS	
Remarks:	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
5 1/2 set @ 3728. Baffle 3680	Handling
Est. Circulation. Pump seal mud clear.	Mileage

FLOAT EQUIPMENT	
Clear lines & Displace Plug.	Guide Shoe
Displace with 4.5 bl water	Centralizer 6
36 Bl mud & 5 bl water no land plug.	Baskets 1
Plug land @ 1500#	AFU Inserts DV Tool
Lift pressure - 600#	Float Shoe 1
Drop dart & open DV Tool & Est. Circulation. Circulate 1 hour	Latch Down 1
Tool opened @ 600#	Pumptrk Charge
	Mileage

	Tax	
	Discount	
	Total Charge	

X Signature *Dion Vasquez*





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
 PHONE:785-324-1041 FAX:785-483-1087  
 EMAIL: cementing@ruraitel.net

Date: 11/24/2019  
 Invoice # 1842

P.O.#:  
 Due Date: 12/24/2019  
 Division: Russell

# Invoice

Contact:  
 TREK AEC, LLC  
 Address/Job Location:

4925 GREENVILLE AVE  
 SUITE 915  
 BOISE ID 83714

Reference:  
 EUGENE ROSS TRUST 1-34 SEC 34-6-20

Description of Work:  
 PROD STRING TOP STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	330	\$ 4,918.52	Yes				
Bulk Truck Matl-Material Service Charge	330	\$ 249.67	No				
Flo Seal	100	\$ 151.32	Yes				
Pump Truck Mileage-Job to Nearest Camp	37	\$ 125.97	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	37	\$ 97.98	No				

**Invoice Terms:**

Net 30

SubTotal:	\$	6,218.47
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(155.46)
SubTotal for Taxable Items:	\$	4,943.09
SubTotal for Non-Taxable Items:	\$	1,119.92
Total:	\$	6,063.01
Tax:	\$	346.02
<b>Amount Due:</b>	<b>\$</b>	<b>6,409.03</b>
<b>Applied Payments:</b>		
<b>Balance Due:</b>	<b>\$</b>	<b>6,409.03</b>

7.00% Rooks County Sales Tax

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1842

Date	11-24-19	Sec.	34	Twp.	6	Range	20	County	Rooks	State	KS	On Location		Finish	1100AM
------	----------	------	----	------	---	-------	----	--------	-------	-------	----	-------------	--	--------	--------

Location Stockton W 9 1/2 N + J 20 W to 6 1/2

Lease Eugene Ross Trust Well No. 1-34 Owner NTD GRD 1/8 W into

Contractor DUXE #2 Top Stage To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job DV JOB Charge To TRCK AEC LLC

Hole Size 7 7/8 T.D. 3730 Street \_\_\_\_\_

Csg. 5 1/2 17# Depth 3728 City \_\_\_\_\_ State \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_

Tool DV Tool Depth 1907 The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. \_\_\_\_\_ Shoe Joint \_\_\_\_\_ Cement Amount Ordered 330 @ 20 QMDC 1/4# F10

Meas Line \_\_\_\_\_ Displace 423L

**EQUIPMENT**

Pumptrk	20	No.	Cementer	_____	Common
			Helper	<u>DAVID</u>	Poz. Mix
Bulktrk		No.	Driver	<u>DAVID</u>	Gel.
			Driver		Calcium
Bulktrk	20	No.	Driver	<u>DAVID</u>	Hulls
			Driver		Salt

**JOB SERVICES & REMARKS**

Remarks: \_\_\_\_\_  
Rat Hole 395K \_\_\_\_\_  
Mouse Hole 155K \_\_\_\_\_  
Centralizers \_\_\_\_\_  
Baskets \_\_\_\_\_  
D/V or Port Collar \_\_\_\_\_  
Plug Rathole mouse hole.  
Cement 5 1/2 with 2855K  
Displace Plug.  
Cement Circulated  
Plug lawler @ 1500#

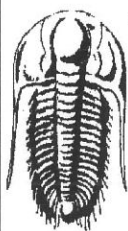
**FLOAT EQUIPMENT**

Guide Shoe	_____
Centralizer	_____
Baskets	_____
AFU Inserts	_____
Float Shoe	_____
Latch Down	_____

Pumptrk Charge \_\_\_\_\_  
Mileage \_\_\_\_\_

Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_

X Signature [Signature]



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Trek AEC, LLC  
200 W Douglas Suite 101  
Wichita Ks 67202  
ATTN: Doug Davis

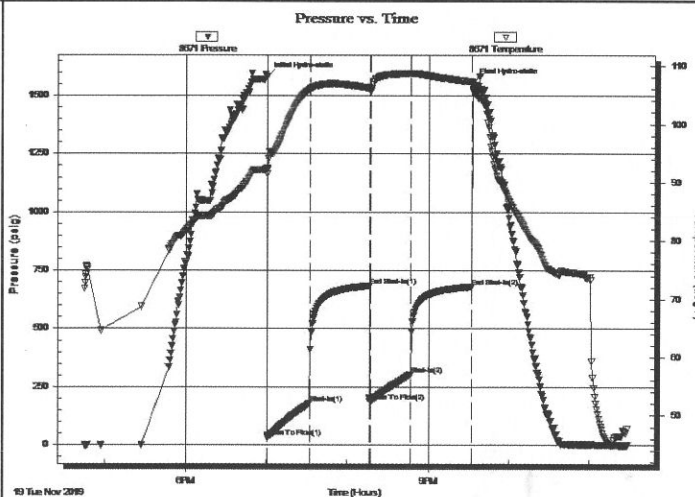
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
Job Ticket: 66330      **DST#: 1**  
Test Start: 2019.11.19 @ 16:45:00

### GENERAL INFORMATION:

Formation: **Oread**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 19:01:00  
Time Test Ended: 23:28:15  
Interval: **3332.00 ft (KB) To 3353.00 ft (KB) (TVD)**  
Total Depth: 3353.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Royal Fisher  
Unit No: #77  
Reference Elevations: 2006.00 ft (KB)  
1998.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8671      Outside**  
Press@RunDepth: 302.66 psig @ 3333.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.11.19      End Date: 2019.11.19      Last Calib.: 2019.11.19  
Start Time: 16:45:05      End Time: 23:28:14      Time On Btm: 2019.11.19 @ 19:00:30  
Time Off Btm: 2019.11.19 @ 21:33:15

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B. in 6 mins  
45 - ISI - No Return  
30 - FFP - Surface blow built to B.o.B. in 10 mins  
45 - FSI - No Return



### PRESSURE SUMMARY

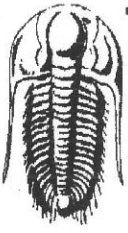
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.60	92.42	Initial Hydro-static
1	34.14	92.13	Open To Flow (1)
32	180.02	106.03	Shut-In(1)
76	684.18	106.23	End Shut-In(1)
77	188.38	105.98	Open To Flow (2)
106	302.66	108.70	Shut-In(2)
152	680.04	107.31	End Shut-In(2)
153	1556.27	105.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
434.00	MW - 25% m - 75% w	4.45
169.00	MW - 5% m - 95% w	1.73

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Trek AEC, LLC  
200 W Douglas Suite 101  
Wichita Ks 67202  
ATTN: Doug Davis

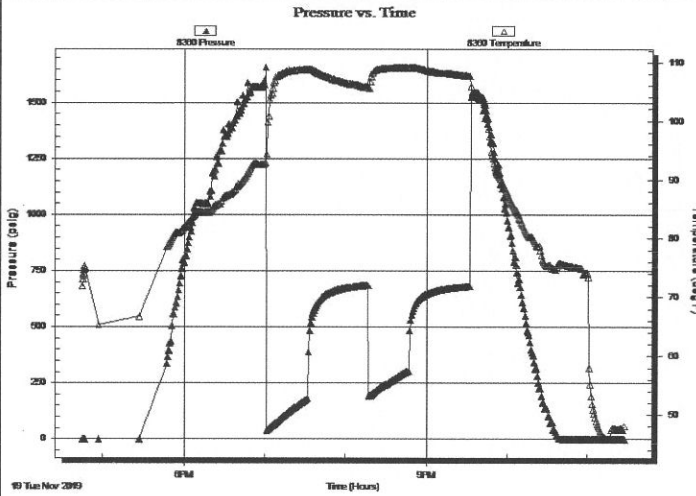
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
Job Ticket: 66330      **DST#: 1**  
Test Start: 2019.11.19 @ 16:45:00

### GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **19:01:00** Tester: **Royal Fisher**  
 Time Test Ended: **23:28:15** Unit No: **#77**  
 Interval: **3332.00 ft (KB) To 3353.00 ft (KB) (TVD)** Reference Elevations: **2006.00 ft (KB)**  
 Total Depth: **3353.00 ft (KB) (TVD)** **1998.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **8.00 ft**

**Serial #: 8360**      **Inside**  
 Press@RunDepth:                  psig @ **3333.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2019.11.19** End Date: **2019.11.19** Last Calib.: **2019.11.19**  
 Start Time: **16:45:05** End Time: **23:28:14** Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B. in 6 mins  
 45 - ISI - No Return  
 30 - FFP - Surface blow built to B.o.B. in 10 mins  
 45 - FSI - No Return



### PRESSURE SUMMARY

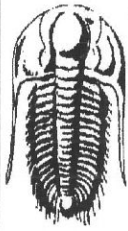
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
434.00	MW - 25% m - 75% w	4.45
169.00	MW - 5% m - 95% w	1.73

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66330

**DST#: 1**

ATTN: Doug Davis

Test Start: 2019.11.19 @ 16:45:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	MW - 25%m - 75%w	4.453
169.00	MW - 5%m - 95%w	1.734

Total Length: 603.00 ft      Total Volume: 6.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

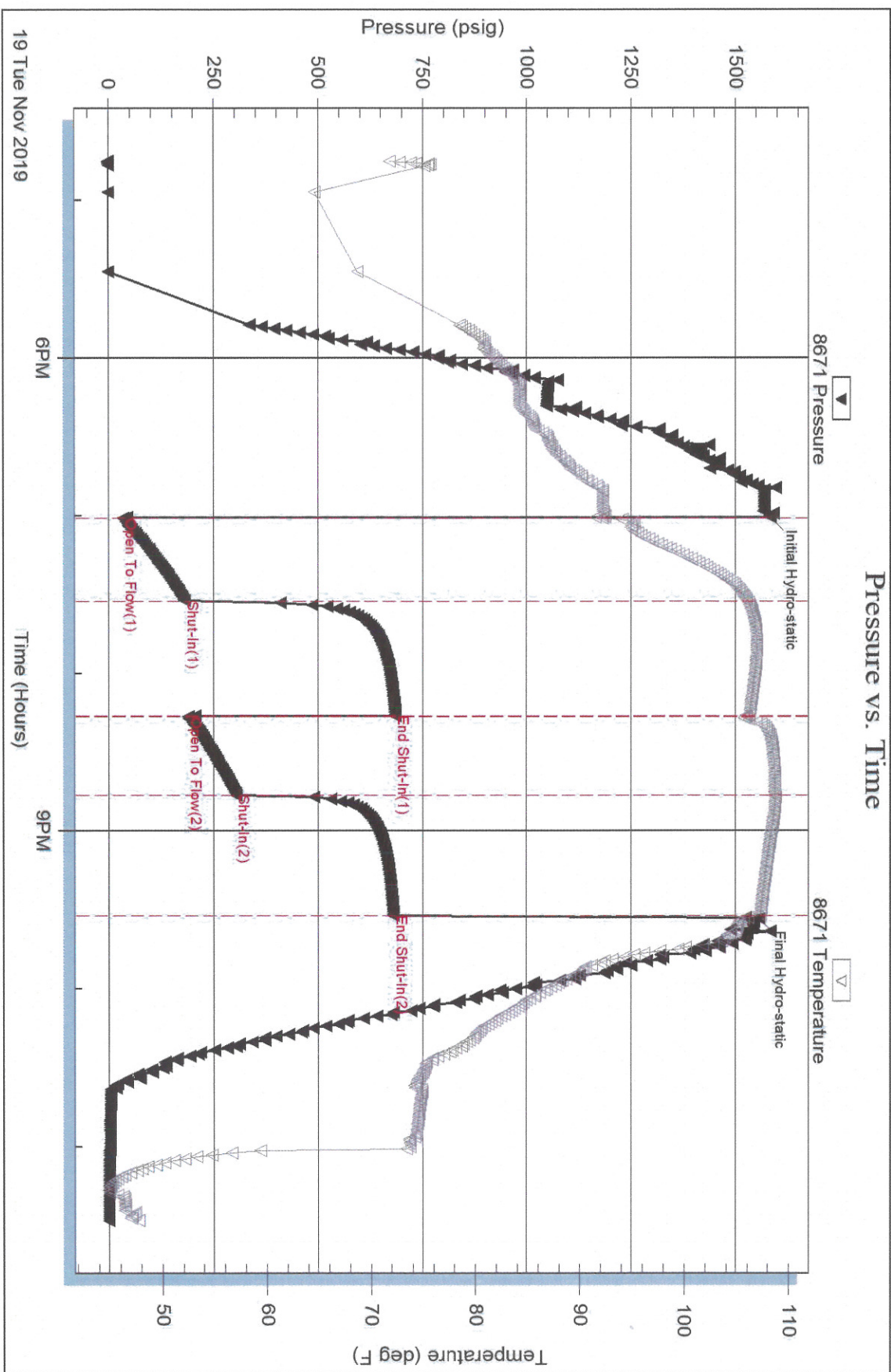
Recovery Comments: Salinity - .238 @ 49 deg.

Serial #: 8671

Outside Trek AEC, LLC

Eugene Ross Tst 1-34

DST Test Number: 1



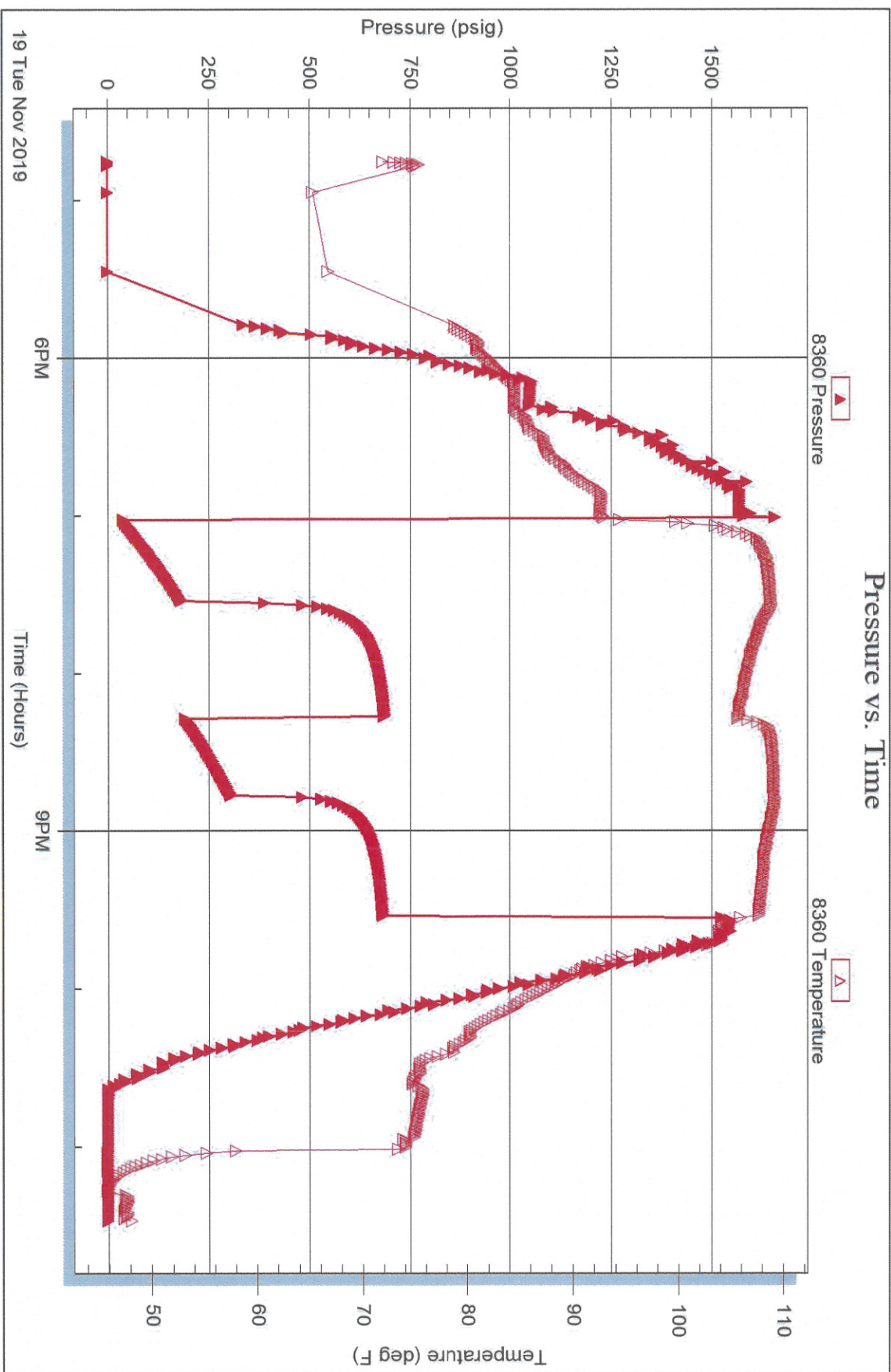
Serial #: 8360

Inside

Trek AEC, LLC

Eugene Ross Test 1-34

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66330

Printed: 2019.11.20 @ 07:46:31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
200 W Douglas Suite 101  
Wichita Ks 67202  
ATTN: Doug Davis

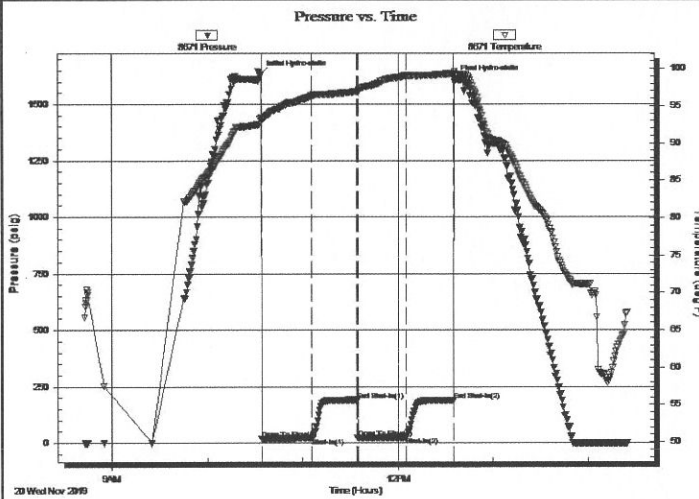
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
Job Ticket: 66331      **DST#: 2**  
Test Start: 2019.11.20 @ 08:43:00

## GENERAL INFORMATION:

Formation: **Lansing A**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 10:34:15  
Time Test Ended: 14:24:30  
Interval: **3414.00 ft (KB) To 3430.00 ft (KB) (TVD)**  
Total Depth: 3430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Royal Fisher  
Unit No: #77  
Reference Elevations: 2006.00 ft (KB)  
1998.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8671      Outside**  
Press@RunDepth: 25.11 psig @ 3415.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.11.20      End Date: 2019.11.20      Last Calib.: 2019.11.20  
Start Time: 08:43:05      End Time: 14:24:29      Time On Btm: 2019.11.20 @ 10:34:00  
Time Off Btm: 2019.11.20 @ 12:35:45

TEST COMMENT: 30 - IFP - Surface blow built to 1 1/2"  
30 - ISI - No Return  
30 - FFP - Surface blow built up to 1"  
30 - FSI - No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.92	93.41	Initial Hydro-static
1	16.39	92.88	Open To Flow (1)
32	21.20	96.35	Shut-In(1)
61	190.53	96.94	End Shut-In(1)
61	21.60	96.87	Open To Flow (2)
91	25.11	99.09	Shut-In(2)
121	188.00	99.38	End Shut-In(2)
122	1610.85	99.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - Oil Spots - 100%	0.15

## Gas Rates

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





**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
200 W Douglas Suite 101  
Wichita Ks 67202  
  
ATTN: Doug Davis

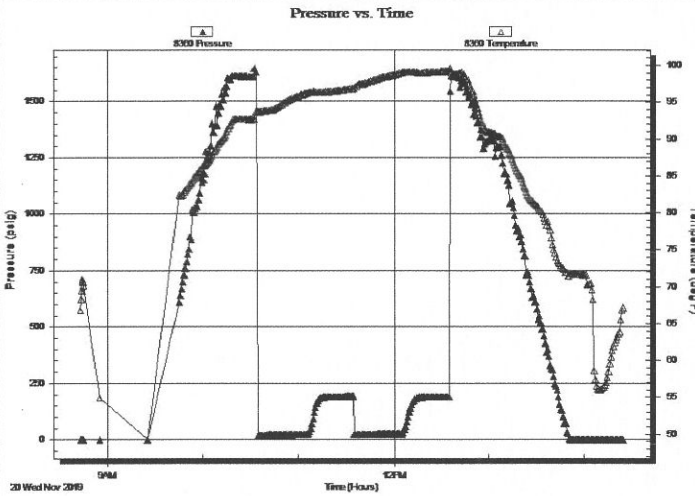
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
Job Ticket: 66331      **DST#: 2**  
Test Start: 2019.11.20 @ 08:43:00

**GENERAL INFORMATION:**

Formation: **Lansing A**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 10:34:15      Tester: Royal Fisher  
Time Test Ended: 14:24:30      Unit No: #77  
  
Interval: **3414.00 ft (KB) To 3430.00 ft (KB) (TVD)**      Reference Elevations: 2006.00 ft (KB)  
Total Depth: 3430.00 ft (KB) (TVD)      1998.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8360      Inside**  
Press@RunDepth:                      psig @ 3415.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.11.20      End Date: 2019.11.20      Last Calib.: 2019.11.20  
Start Time: 08:43:05      End Time: 14:24:29      Time On Btm:  
Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to 1 1/2"  
30 - ISI - No Return  
30 - FFP - Surface blow built up to 1"  
30 - FSI - No Return



**PRESSURE SUMMARY**

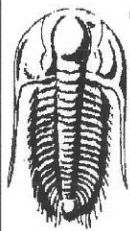
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	OSM - Oil Spots - 100%	0.15

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66331

**DST#: 2**

ATTN: Doug Davis

Test Start: 2019.11.20 @ 08:43:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM - Oil Spots - 100%	0.154

Total Length: 15.00 ft      Total Volume: 0.154 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

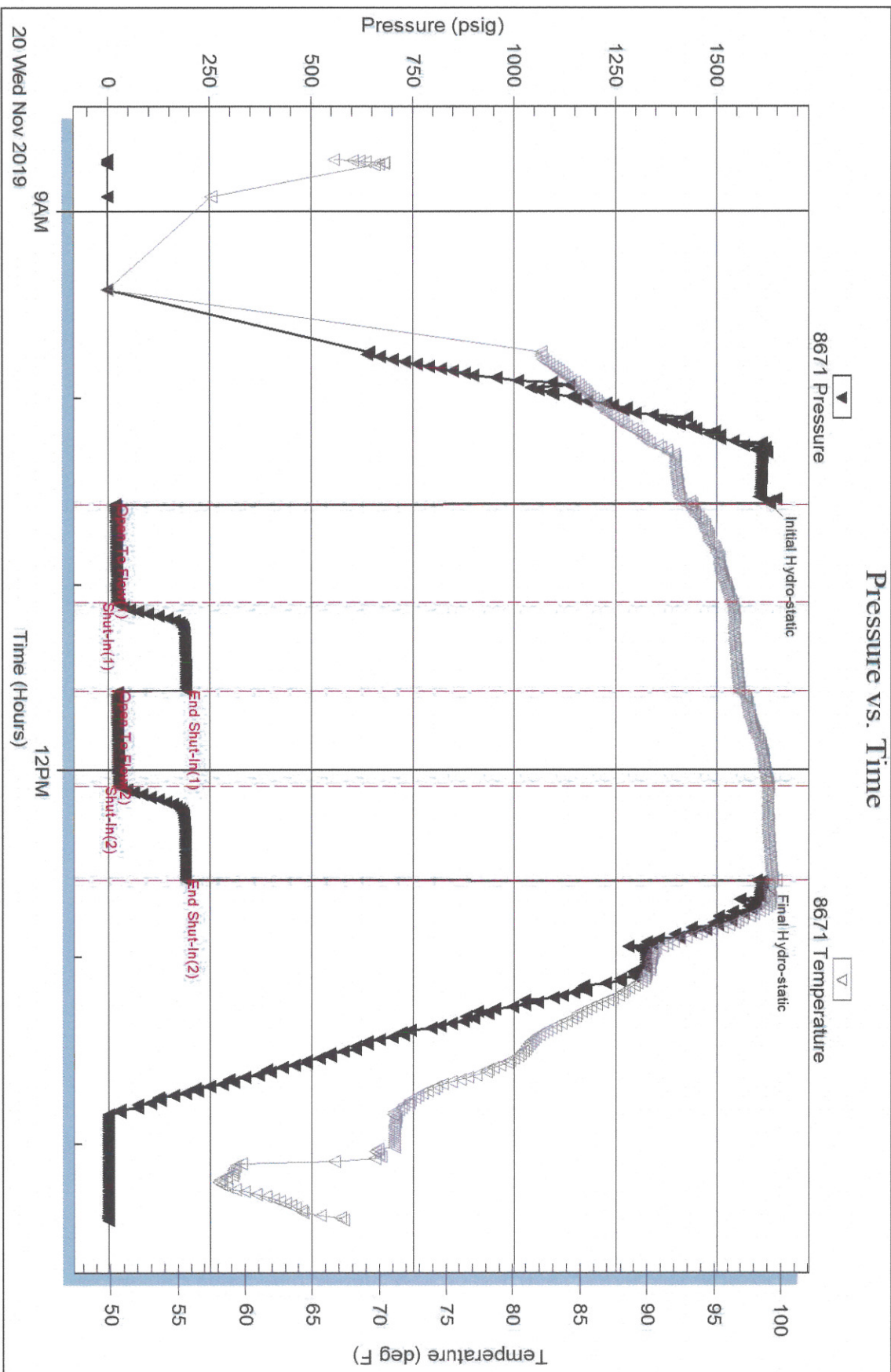
Serial #: 8671

Outside Trek AEC, LLC

Eugene Ross Test 1-34

DST Test Number: 2

### Pressure vs. Time



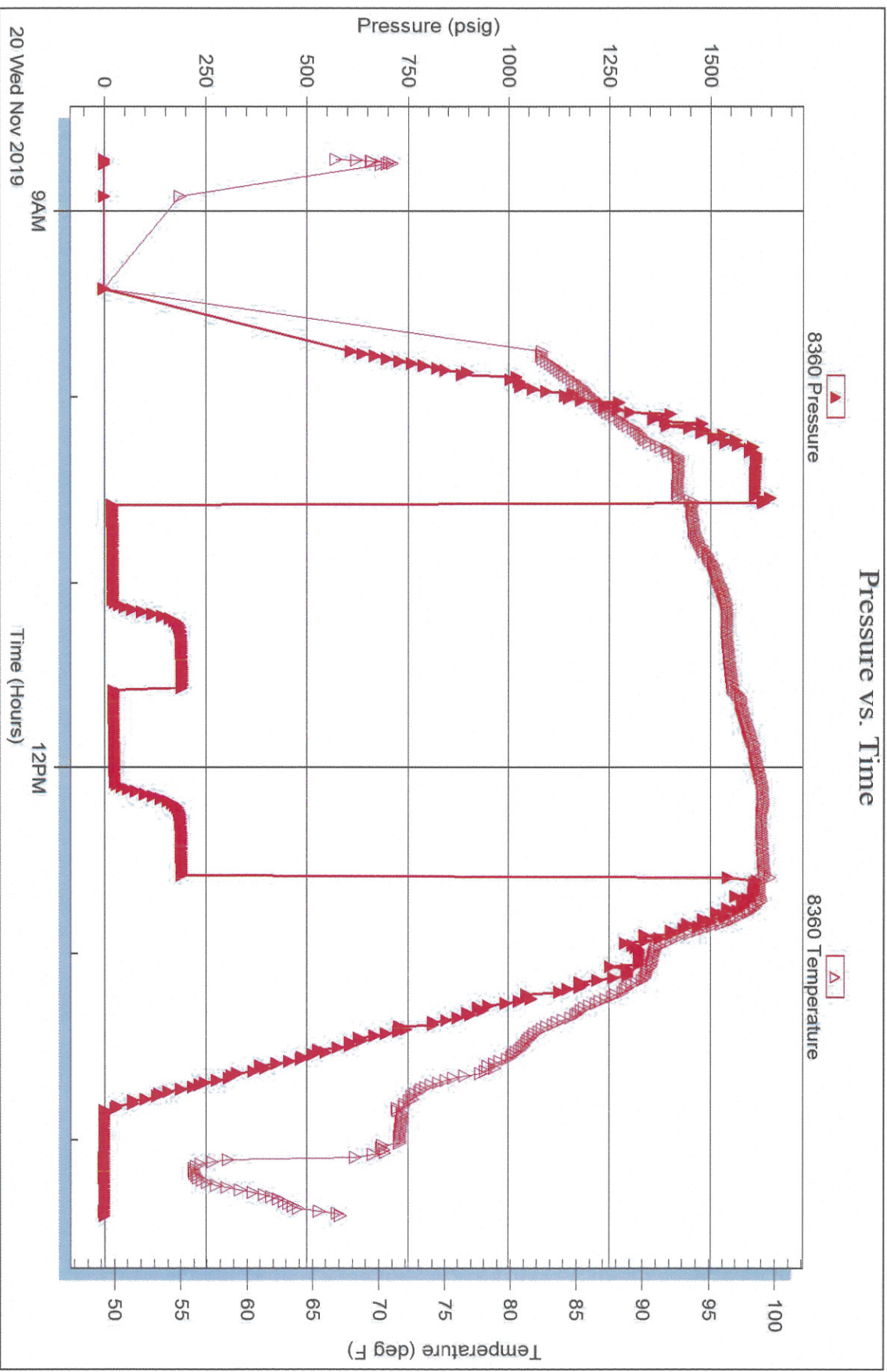
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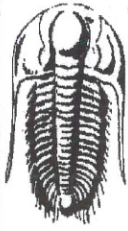
Inside

Trek AEC, LLC

Eigene Ross 1st 1-34

DST Test Number: 2





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
200 W Douglas Suite 101  
Wichita Ks 67202  
ATTN: Doug Davis

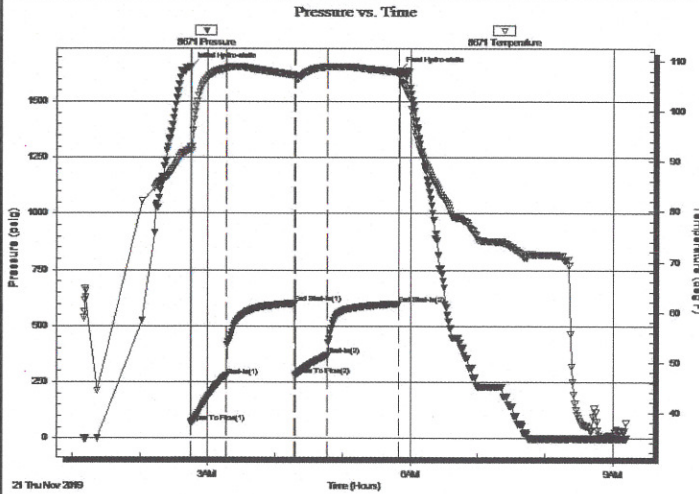
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
Job Ticket: 66332      **DST#: 3**  
Test Start: 2019.11.21 @ 01:10:00

## GENERAL INFORMATION:

Formation: **Lansing C-E**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 02:45:30  
 Time Test Ended: 09:12:15  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: #77  
 Interval: **3448.00 ft (KB) To 3500.00 ft (KB) (TVD)**  
 Reference Elevations: 2006.00 ft (KB)  
 Total Depth: 3500.00 ft (KB) (TVD)      1998.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8671      Outside**  
 Press@RunDepth: 368.46 psig @ 3449.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.11.21      End Date: 2019.11.21      Last Calib.: 2019.11.21  
 Start Time: 01:10:05      End Time: 09:12:14      Time On Btm: 2019.11.21 @ 02:45:15  
 Time Off Btm: 2019.11.21 @ 05:50:15

**TEST COMMENT:** 30 - IFP - Surface blow built to B.o.B. in 1 min.  
 60 - ISI - Return started right away and built to B.o.B. in 15 mins  
 30 - FFP - Surface blow built to B.o.B. in 7 mins.  
 60 - FSI - Return built to B.o.B. in 30 mins.



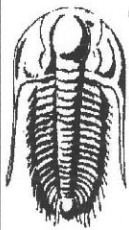
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.72	93.00	Initial Hydro-static
1	69.23	92.24	Open To Flow (1)
32	278.02	108.56	Shut-In(1)
92	600.55	107.23	End Shut-In(1)
93	281.26	107.07	Open To Flow (2)
121	368.46	108.89	Shut-In(2)
184	598.09	107.81	End Shut-In(2)
185	1639.40	107.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMCO - 20%g - 25%m - 55%o	1.91
847.00	GO - 25%g - 75%o	8.69
0.00	1364 - GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
 200 W Douglas Suite 101  
 Wichita Ks 67202  
 ATTN: Doug Davis

**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
 Job Ticket: 66332      **DST#: 3**  
 Test Start: 2019.11.21 @ 01:10:00

## GENERAL INFORMATION:

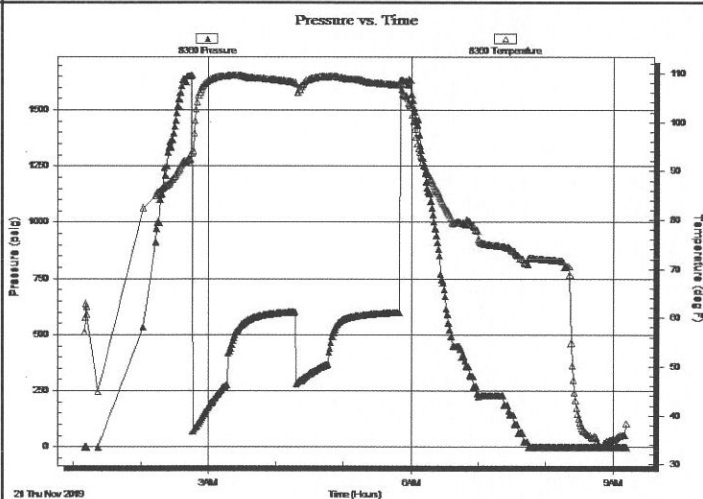
Formation: <b>Lansing C-E</b>			
Deviated: No	Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 02:45:30		Tester: Royal Fisher	
Time Test Ended: 09:12:15		Unit No: #77	
Interval: <b>3448.00 ft (KB) To 3500.00 ft (KB) (TVD)</b>		Reference Elevations: 2006.00 ft (KB)	
Total Depth: 3500.00 ft (KB) (TVD)		1998.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

## Serial #: 8360

Inside

Press@RunDepth:                 psig @ 3449.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2019.11.21	End Date: 2019.11.21
Start Time: 01:10:05	End Time: 09:12:29
	Last Calib.: 2019.11.21
	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** 30 - IFFP - Surface blow built to B.o.B. in 1 min.  
 60 - ISI - Return started right away and built to B.o.B. in 15 mins  
 30 - FFP - Surface blow built to B.o.B. in 7 mins.  
 60 - FSI - Return built to B.o.B. in 30 mins.



## PRESSURE SUMMARY

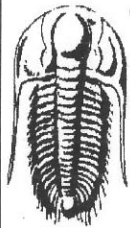
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMCO - 20%g - 25%m - 55%o	1.91
847.00	GO - 25%g - 75%o	8.69
0.00	1364 - GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66332

**DST#: 3**

ATTN: Doug Davis

Test Start: 2019.11.21 @ 01:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GMCO - 20%g - 25%m - 55%o	1.908
847.00	GO - 25%g - 75%o	8.691
0.00	1364 - GIP	0.000

Total Length: 1033.00 ft      Total Volume: 10.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

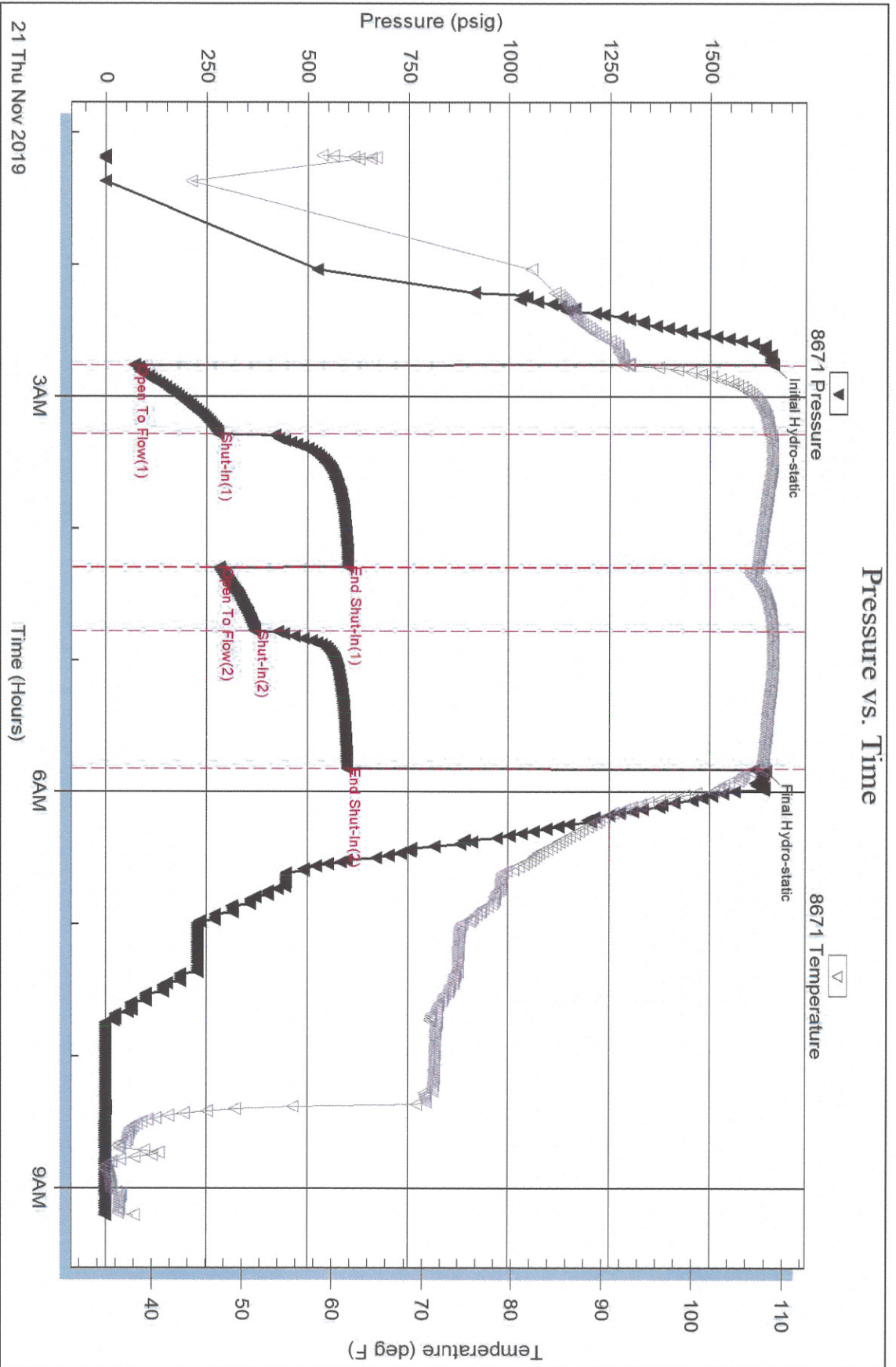
Recovery Comments: Oil Gravity - 35 @ 60 deg

Serial #: 8671

Outside Trek AEC, LLC

Eugene Ross Test 1-34

DST Test Number: 3





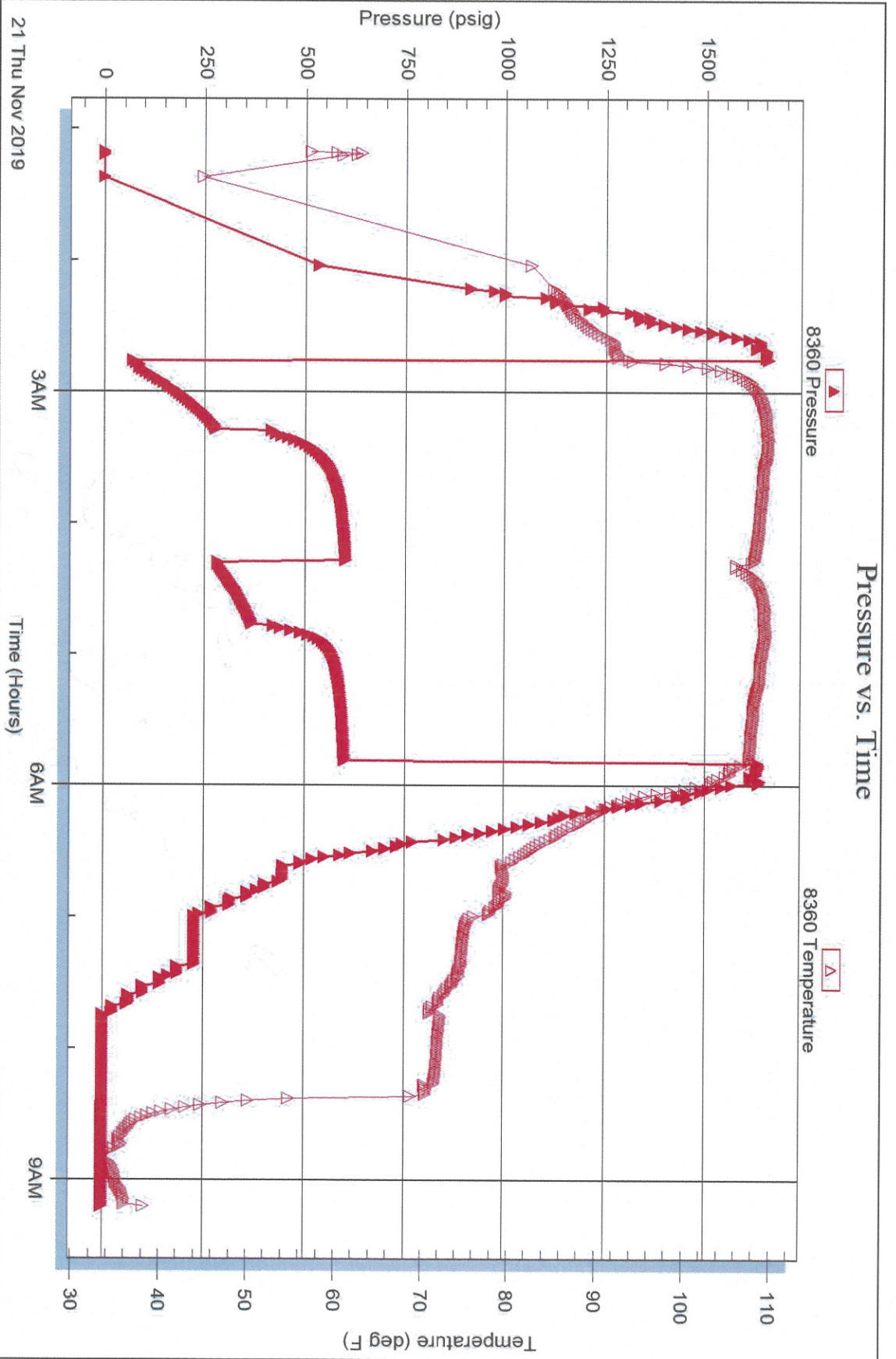
Serial #: 8360

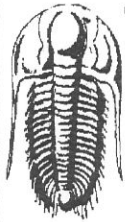
Inside

Trek AEC, LLC

Eigene Ross Tst 1-34

DST Test Number: 3





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66333

**DST#: 4**

ATTN: Doug Davis

Test Start: 2019.11.21 @ 21:54:00

## GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:00

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #77

Interval: **3568.00 ft (KB) To 3600.00 ft (KB) (TVD)**

Reference Elevations: 2006.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8671 Outside**

Press@RunDepth: 118.37 psig @ 3569.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.21

End Date:

2019.11.22

Last Calib.:

2019.11.22

Start Time: 21:54:05

End Time:

04:59:59

Time On Btm:

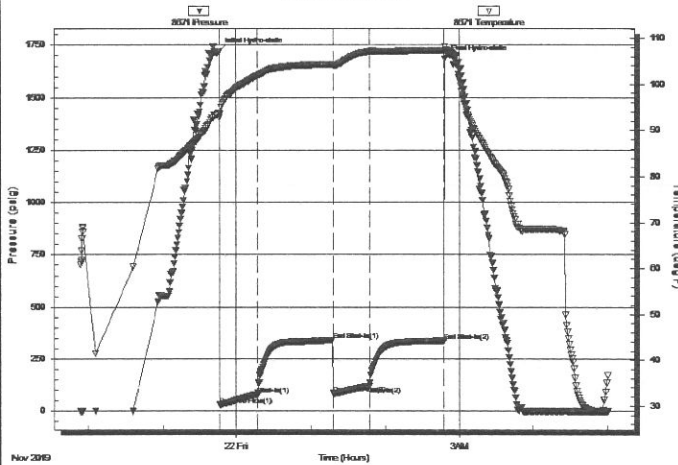
2019.11.21 @ 23:45:45

Time Off Btm:

2019.11.22 @ 02:48:00

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B. in 8 mins.  
60 - ISI - Faint return started 4 mins in and built to 1/2"  
30 - FFP - Surface blow built to B.o.B. in 11 mins.  
60 - FSI - Faint return started right away and built to 1" and then died to 1/2"

Pressure vs. Time



PRESSURE SUMMARY

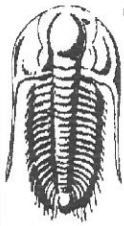
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.95	93.69	Initial Hydro-static
1	29.79	92.72	Open To Flow (1)
32	78.22	101.88	Shut-In(1)
92	338.88	104.26	End Shut-In(1)
93	84.34	104.14	Open To Flow (2)
122	118.37	107.20	Shut-In(2)
182	336.37	107.30	End Shut-In(2)
183	1684.36	108.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO - 30%g - 20%m - 50%o	1.27
217.00	GO - 40%g - 60%o	2.23
0.00	341 - GIP	0.00

Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
 200 W Douglas Suite 101  
 Wichita Ks 67202  
 ATTN: Doug Davis

**34 - 6 - 20**

**Eugene Ross Tst 1-34**

Job Ticket: 66333      **DST#: 4**  
 Test Start: 2019.11.21 @ 21:54:00

### GENERAL INFORMATION:

Formation:      **Lansing I**  
 Deviated:      No      Whipstock:           ft (KB)  
 Time Tool Opened: 23:46:00  
 Time Test Ended: 05:00:00  
 Interval:      **3568.00 ft (KB) To 3600.00 ft (KB) (TVD)**  
 Total Depth:      3600.00 ft (KB) (TVD)  
 Hole Diameter:      7.88 inches      Hole Condition: Fair

Test Type:      Conventional Bottom Hole (Initial)  
 Tester:      Royal Fisher  
 Unit No:      #77  
 Reference Elevations:      2006.00 ft (KB)  
    1998.00 ft (CF)  
 KB to GR/CF:      8.00 ft

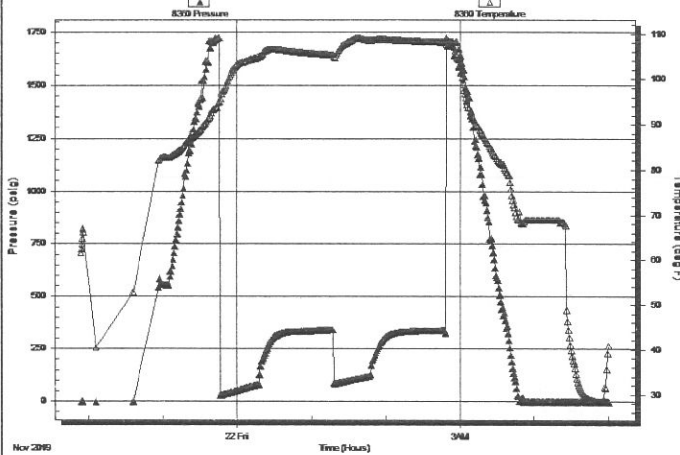
### Serial #: 8360

Inside

Press@RunDepth:           psig @      3569.00 ft (KB)      Capacity:      8000.00 psig  
 Start Date:      2019.11.21      End Date:      2019.11.22      Last Calib.:      2019.11.22  
 Start Time:      21:54:05      End Time:      04:59:59      Time On Btm:  
                                                      Time Off Btm:

TEST COMMENT: 30 - IFP - Surface blow built to B.o.B. in 8 mins.  
 60 - ISI - Faint return started 4 mins in and built to 1/2"  
 30 - FFP - Surface blow built to B.o.B. in 11 mins.  
 60 - FSI - Faint return started right away and built to 1" and then died to 1/2"

Pressure vs. Time



### PRESSURE SUMMARY

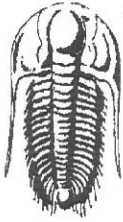
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO - 30%g - 20%m - 50%o	1.27
217.00	GO - 40%g - 60%o	2.23
0.00	341 - GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66333

**DST#: 4**

ATTN: Doug Davis

Test Start: 2019.11.21 @ 21:54:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCO - 30%g - 20%m - 50%o	1.272
217.00	GO - 40%g - 60%o	2.227
0.00	341 - GIP	0.000

Total Length: 341.00 ft      Total Volume: 3.499 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

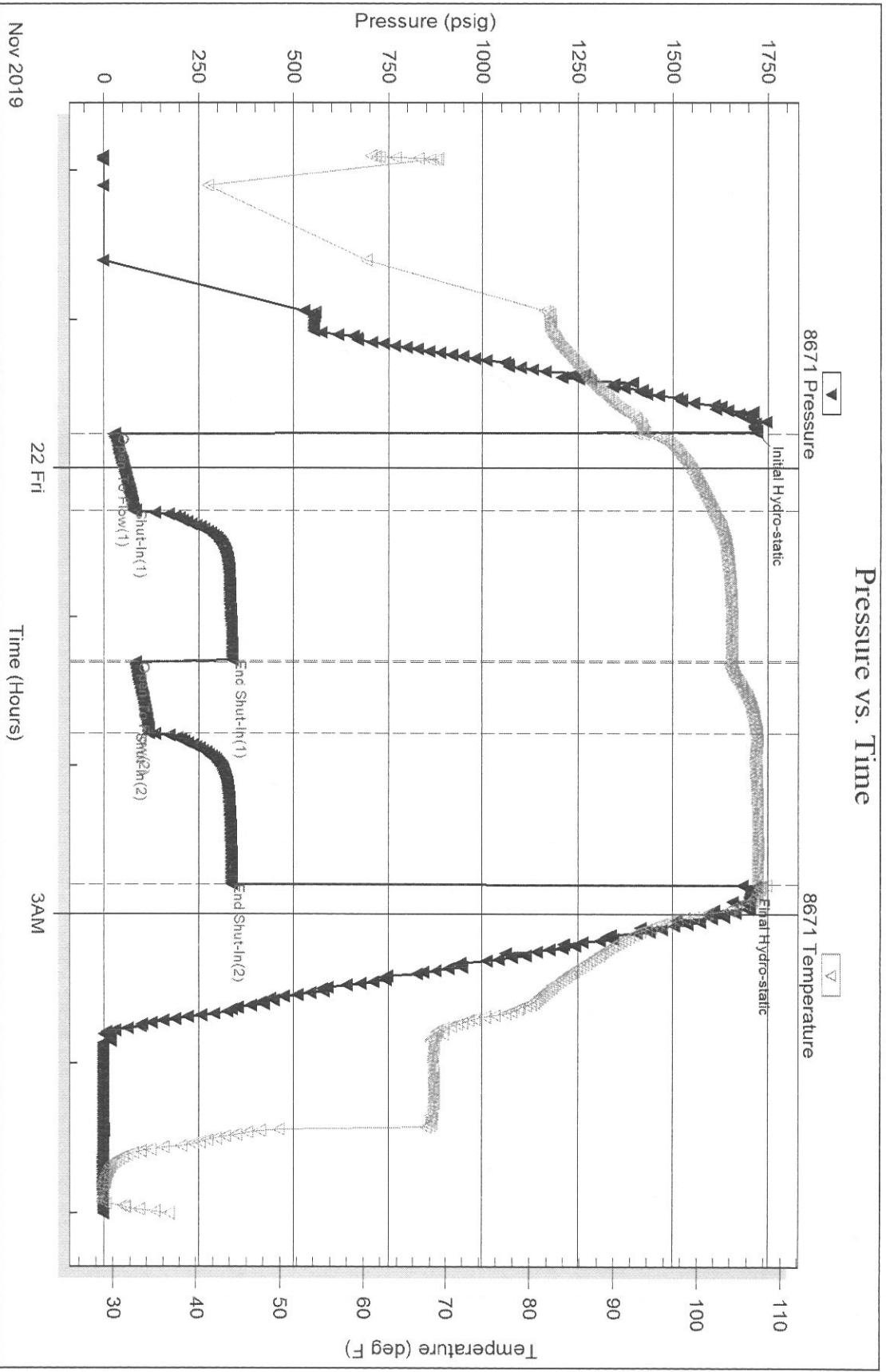
Recovery Comments: 35 @ 60 deg.

Serial #: 8671

Outside Trek AEC, LLC

Eugene Ross Tst 1-34

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 66333

Printed: 2019.11.22 @ 07:36:14

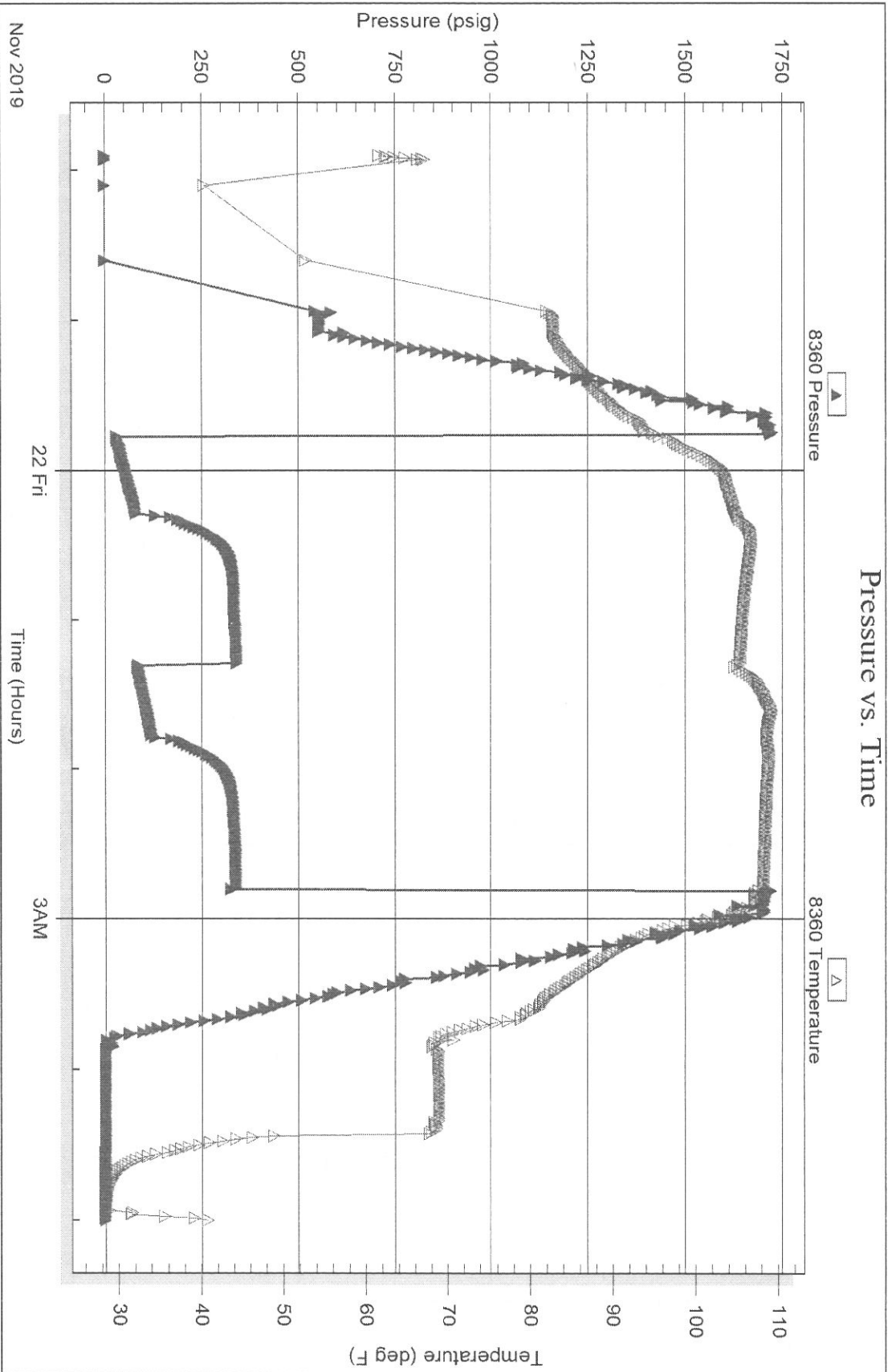
Serial #: 8360

Inside

Trek AEC, LLC

Eugene Ross Tst 1-34

DST Test Number: 4



Trijobite Testing, Inc

Ref. No: 66333

Printed: 2019.11.22 @ 07:36:14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
 200 W Douglas Suite 101  
 Wichita Ks 67202  
 ATTN: Doug Davis

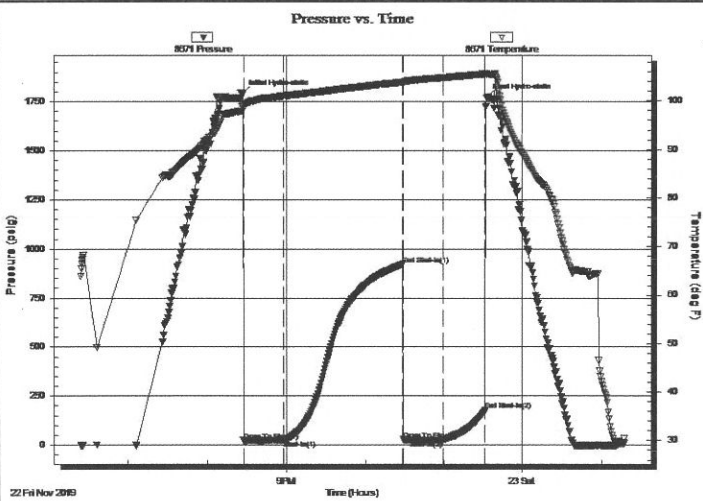
**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
 Job Ticket: 66334      **DST#: 5**  
 Test Start: 2019.11.22 @ 18:24:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 20:27:45  
 Time Test Ended: 01:17:15  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: #77  
 Interval: **3672.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Reference Elevations: 2006.00 ft (KB)  
 1998.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8671      Outside**  
 Press@RunDepth: 27.15 psig @ 3673.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.11.22      End Date: 2019.11.23      Last Calib.: 2019.11.23  
 Start Time: 18:24:05      End Time: 01:17:14      Time On Btm: 2019.11.22 @ 20:27:30  
 Time Off Btm: 2019.11.22 @ 23:32:30

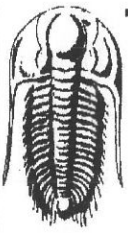
**TEST COMMENT:** 30 - IFF - Surface blow built up to 1 3/4"  
 90 - ISI - No Return  
 30 - FFP - Faint blow started right away and built up to 3/4"  
 30 - FSI - No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.26	99.19	Initial Hydro-static
1	22.54	98.34	Open To Flow (1)
31	25.32	101.07	Shut-In(1)
121	922.00	103.87	End Shut-In(1)
122	27.01	103.69	Open To Flow (2)
152	27.15	104.80	Shut-In(2)
184	175.69	105.56	End Shut-In(2)
185	1771.78	105.56	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	OCM - 20%o - 80%m	0.15

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



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Trek AEC, LLC  
 200 W Douglas Suite 101  
 Wichita Ks 67202  
 ATTN: Doug Davis

**34 - 6 - 20**  
**Eugene Ross Tst 1-34**  
 Job Ticket: 66334      **DST#: 5**  
 Test Start: 2019.11.22 @ 18:24:00

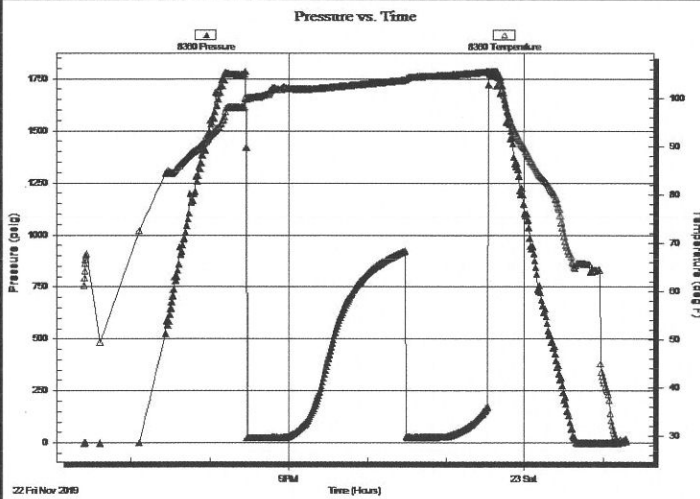
### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 20:27:45  
 Time Test Ended: 01:17:15  
 Interval: **3672.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: #77  
 Reference Elevations: 2006.00 ft (KB)  
 1998.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8360      Inside**  
 Press@RunDepth:      psig @ 3673.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.11.22      End Date: 2019.11.23      Last Calib.: 2019.11.23  
 Start Time: 18:24:05      End Time: 01:17:14      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IFP - Surface blow built up to 1 3/4"  
 90 - ISI - No Return  
 30 - FFP - Faint blow started right away and built up to 3/4"  
 30 - FSI - No Return



### PRESSURE SUMMARY

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

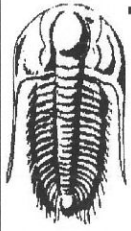
### Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM - 20%o - 80%m	0.15

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Trek AEC, LLC

**34 - 6 - 20**

200 W Douglas Suite 101  
Wichita Ks 67202

**Eugene Ross Tst 1-34**

Job Ticket: 66334

**DST#: 5**

ATTN: Doug Davis

Test Start: 2019.11.22 @ 18:24:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM - 20%o - 80%m	0.154

Total Length: 15.00 ft      Total Volume: 0.154 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

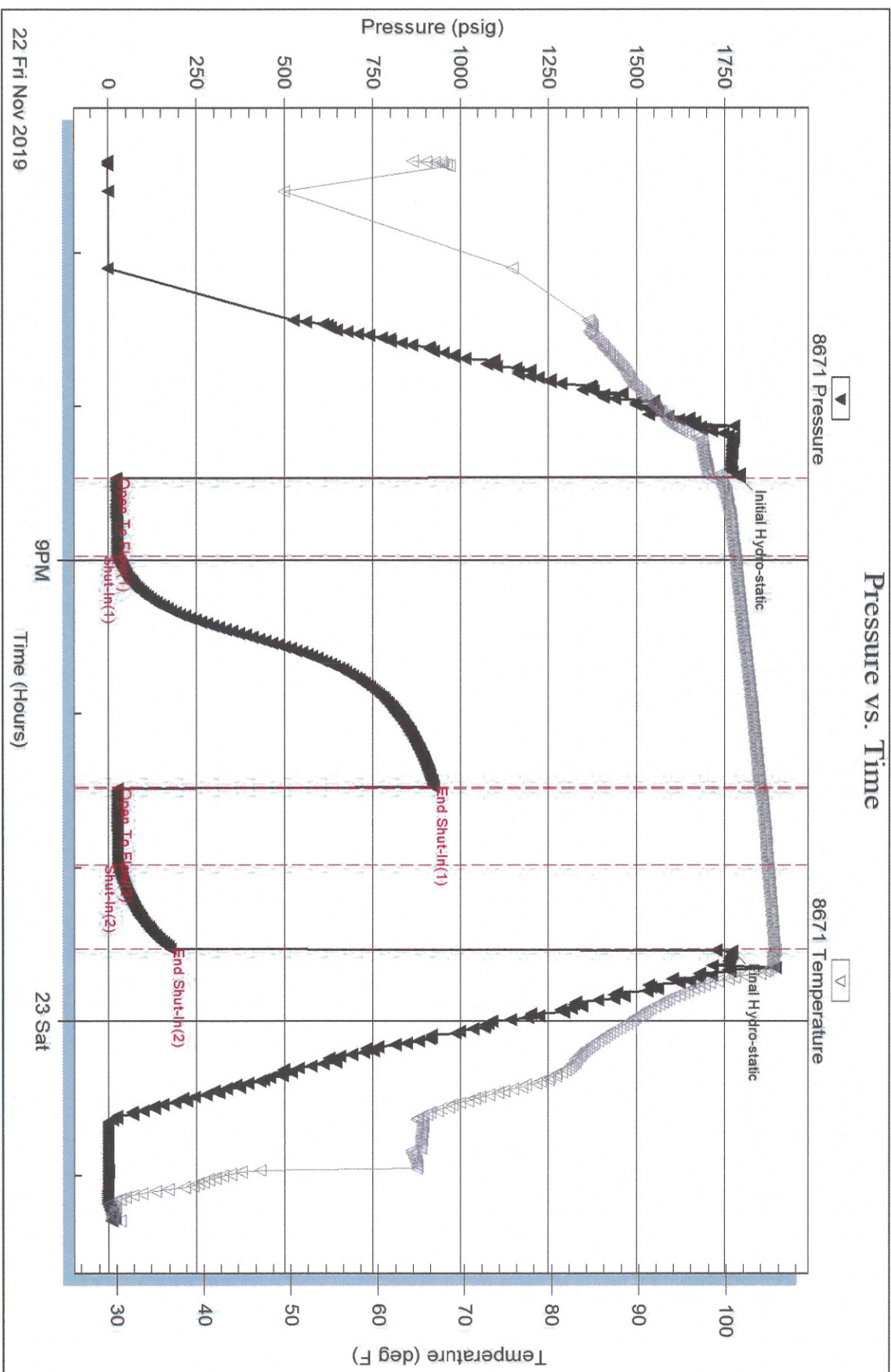
Recovery Comments:

Serial #: 8671

Outside Tek AEC, LLC

Eugene Ross Tst 1-34

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66334

Printed: 2019.11.23 @ 02:21:28

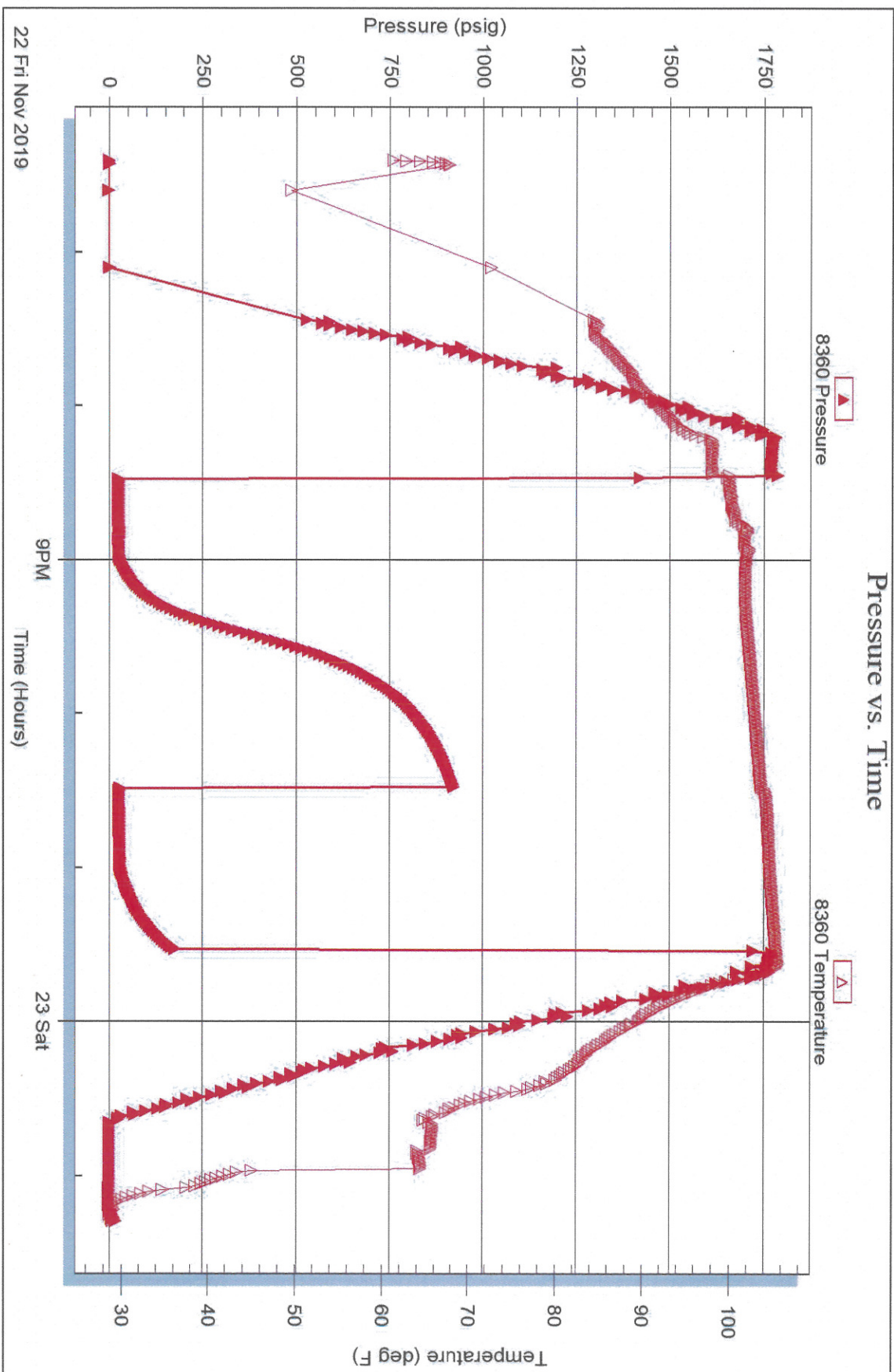
Serial #: 8360

Inside

Trek AEC, LLC

Eigene Ross Tst 1-34

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66334

Printed: 2019.11.23 @ 02:21:29

# GEOLOGICAL REPORT

DRILLING TIME & SAMPLE DESCRIPTION

REPORT PREPARED BY: DOUGLAS V. DAVIS JR.

OPERATOR TREK AEC LLC

LEASE Eugene Ross Trust #1-34

FIELD Wildcat API # 15-163-24405-00-00

LOCATION 800' FSL, 1400' FEL

SEC. 34 TWP. 6 S. RANGE 20 W.

COUNTY ROOKS STATE KANSAS

CONTRACTOR DUKE DRILLING CO. INC. RIG #2

SPUD 11/15/2019 COMP. 11/23/2019

LTD 3666' RTD 3730' MUD UP 3075'

SAMPLE SAVED FROM 3100' TO RTD

DRILLING TIME FROM 3000' TO RTD

FORMATION SAMPLE E-LOG DATUM A B C

Stone Coral Anh. 1780 1780 +426 -2 -11 -13

Opoka Ls. 3185 3185 -879 +5 8 +3

Heebner Sh. 3339 3339 -1133 +7 + +8

Heebner Sh. 3385 3385 -1179 +8 +8 +10

Toronto Ls. 3405 3405 -1199 +8 +10 +13

Lansing "C" 3419 3419 -1213 +10 +8 +8

Lansing "C" 3460 3460 -1254 +9 +7 +16

Lansing-KC "J" 3476 3476 -1270 +9 +7 +16

Lansing-KC "K" 3588 3588 -1382 +6 +2 +13

Lansing-KC "L" 3608 3608 -1402 +9 +5 +15

Base Kansas City 3624 3624 -1418 +10 +6 +16

Arbuckle 3664 3664 -1458 +5 -1 -98

REFERENCE WELLS

A. Carmen Schmitt #2 Vose NE-NW-SE 33-6S-20W

B. Carmen Schmitt #2 Vose S2-SE-NE 34-6S-20W

C. H & C Oil Operator #1 Vose SE-SE-SW 34-6S-20W

DOUGLAS V. DAVIS JR.  
GEOLOGIST  
LICENSED KANSAS  
# 482

ELEVATION

K.B. 2206'

D.F.

G.L. 2198'

DEPTH MEASURED FROM KB

CASING SURFACE 6 1/8" 23"

253' @ 263' W/170 SX

PRODUCTION 4-1/2" @ 3665'

LOGGING SP/GR/CM/CD/SonicCall

REMARKS It was recommended that 4-1/2" casing be run so as to further evaluate this well.

DST #1 3332-3353' Oread Ls. 30"-45"-30"-45" Off bottom in 6" IF Rec-603' MW BHT 107 F IHP 1584# FHP 1556# ISIP 188-303# FFP 188-303# FSP 680#

DST #2 3414-3430" Lansing "A" 30"-30"-30"-30" Weak blow throughout Rec-15' Oil Specked Mud BHT 99 F IHP 1631# FHP 22-25# ISIP 191# FSP 188#

DST #3 3448-3500' Lansing "C", "D", "E" 30"-60"-30"-60" Strong blow 1" BHT 108 degrees Rec-1364' GIP, 847' Gassy Oil, 186' GMO IHP 1656# FHP 1639# ISIP 69-278# FFP 281-368# FSP 601# FSP 596#

DST #4 3568-3600' LKC, "I", "J" 30"-60"-30"-60" Strong blow 8" Rec-217' Oil, 124' GMCO 341' GIP, BHT 107 F IHP 1720# FHP 1684# ISIP 30-78# FFP 84-118# ISIP 339# FSP 336#

DST #5 3672-3700' Arbuckle 30"-90"-30"-30" Weak blow Throughout Rec-15' OCM BHT 113 F IHP 1792# FHP 1772# ISIP 23-25# FFP 27-27# ISIP 922# FSP 176#

## LEGEND

LIMESTONE SANDSTONE DOLOMITE SHALE BLK SHALE CHERT ANH/GYPSUM

DRILLING TIME IN MINUTES PER FOOT LITHOLOGY SAMPLE DESCRIPTION HOT WIRE

5" 10" 15" 20" 1750 5 10 50 100 500 1000

Stone Coral Anhydrite 1780

Base/ Stone Coral Anh. 1800

3000

3050

3100

Topeka Ls. 3150

3200

Queen Hill Sh. 3250

3300

Oread Ls. 3350

3400

Heebner Sh. 3450

Toronto Ls. 3500

Lansing 3550

LKC "C" 3600

LKC "D" 3650

LKC "E" 3700

LKC "F" 3750

LKC "G" 3800

Muncie Creek Sh. 3850

LKC "H" 3900

LKC "I" 3950

Stark Sh. 4000

LKC "J" 4050

Hushpuckney Sh. 4100

LKC "K" 4150

BKC 4200

Marmaton 4250

Arbuckle 4300

4350

4400

4450

4500

4550

4600

4650

4700

4750

5" 10" 15" 20" 25" LITHOLOGY SAMPLE DESCRIPTION HOT WIRE

5 10 50 100 500 1000 5000

CONTRACTOR Duke Drilling Rig #2 LOCATION 800' FSL, 1400' FEL

LEASE Eugene Ross Trust #1-34 SEC. 34 TWP. 6 S. RANGE 20 W

ELEVATION 2206' RTD 3730' LTD 3730' COUNTY Rooks STATE Kansas

DST