KOLAR Document ID: 1477191

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 # 5039
Name: AGV Corp.
Address 1: 123 N MAIN
Address 2: PO BOX 377
City: ATTICA State: KS Zip: 67009 + 0377
Contact Person: Kent Roberts
Phone: (316) 215-1683
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Kent Roberts
Purchaser: Maclaskey

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 #:

10/21/2019 Spud Date or Recompletion Date
10/26/2019 Date Reached TD
12/04/2019 Completion Date or Recompletion Date

API No.: 15-015-24130-00-00
Spot Description:
__ - E2 - SW - SE Sec. 28 Twp. 24 S. R. 3 ☑ East ☐ West
670 Feet from ☐ North / ☑ South Line of Section
1666 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Butler
Lease Name: BUSENITZ Well #: 1-28
Field Name: Wildcat
Producing Formation: Mississippi
Elevation: Ground: 1375 Kelly Bushing: 1384
Total Vertical Depth: 2965 Plug Back Total Depth: 2961
Amount of Surface Pipe Set and Cemented at: 267 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: 1200 ppm Fluid volume: 300 bbls
Dewatering method used: Evaporated
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: 01/20/2020
☐ **Confidential Release Date:** 01/19/2022
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 01/21/2020

Operator Name: AGV Corp. Lease Name: BUSENITZ Well #: 1-28

Sec. 28 Twp. 24 S. R. 3 ☑ East ☐ West County: Butler

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

CDL / CNL
DIL, MEL & Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Lansing	2050	-666
Kansas City	2320	-936
Base Kansas City	2476	-1092
Mississippi	2759	-1375

CASING RECORD ☑ New ☐ 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
Surface	12	8.625	23	267	Common	135	2% gel, 3% CC
Production	7.875	5.5	15.5	2961	60/40 poz	200	4% gel, 2% cc
					Thickset	125	5% Kolseal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☑ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
0-900	Class A	200	1/2# phenoseal / sk, 3% CC
-			

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: 01/16/2020

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	26	0	0.5		41

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
2773	2777

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	2773	2777			500 gal - 15% MCA, 1000 gal 15% NE/FE, 1500 Gal gelled 15%

TUBING RECORD: Size: 2.375 Set At: 2818 Packer At: None

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	AGV Corp.
Well Name	BUSENITZ 1-28
Doc ID	1477191

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12	8.625	23	267	Common	135	2% gel, 3% CC
Production	7.875	5.5	15.5	2961	60/40 poz	200	4% gel, 2% cc
					Thickset	125	5% Kolseal

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
10/22/2019	4775

Bill To
AGV Corporation 123 N. Main Attica, KS 67009

Customer ID#	1358

Job Date	10/21/2019
Lease Information	
Busenitz #1-28	
County	Butler
Foreman	DG

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C101	Cement Pump-Surface	1	840.00	840.00
C107	Pump Truck Mileage (one way)	30	4.20	126.00
C200	Class A Cement-94# sack	125	15.75	1,968.75T
C205	Calcium Chloride	350	0.63	220.50T
C206	Gel Bentonite	235	0.21	49.35T
C108A	Ton Mileage (min. charge)	1	365.00	365.00
D101	Discount on Services		-66.55	-66.55
D102	Discount on Materials		-111.93	-111.93T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$3,391.12
Sales Tax (6.5%)	$138.23
Total	$3,529.35
Payments/Credits	$0.00
Balance Due	$3,529.35

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4775**
Foreman David Gardner
Camp Eureka

API# 15-015-24130

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-21-19	1358	Busenitz #1-28	28	24 S.	3 E.	Butler	KS

Customer: AGV Corporation
Mailing Address: 123 N. Main
City: Attica | State: KS | Zip Code: 67009

Safety Meeting: DG JH ZH

Unit #	Driver	Unit #	Driver
105	Jason		
113	Zevi		

Job Type Surface | Hole Depth 271' | Slurry Vol. 33 Slurry | Tubing
Casing Depth 256.60' | Hole Size 12¼" | Slurry Wt. 15# | Drill Pipe
Casing Size & Wt. 8⅝" 24# | Cement Left in Casing 15' ½ | Water Gal/SK 6.5 | Other
Displacement 16 Bbl | Displacement PSI | Bump Plug to | BPM

Remarks: Safety Meeting. Rig up to 8⅝ Casing. Break circulation w/ 10 Bbl fresh water. Mixed 125 sks Class 'A' Cement w/ 3% Cacl2, 2% Gel @ 15#/gal, yield 1.48 = 33 Bbl Slurry. Displace w/ 16 Bbl fresh water. Shut down. Close casing in. Good circulation @ all times while cementing. Good cement returns to surface = 6 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	30	Mileage	4.20	126.00
C200	125 sks	Class 'A' Cement	15.75	1968.75
C205	350#	Cacl2 @ 3%	.63	220.50
C206	235#	Gel @ 2%	.21	49.35
C108A	5.875 Tons	Ton Mileage - Bulk Truck	M/C	365.00
		Thank You		
			Sub Total	3,569.60
			Less 5%	185.75
		6.5%	Sales Tax	145.50
			Total	3,529.35

Authorization by Judd Gulick Title Tool Pusher

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

TERMS

In consideration of the prices to be charged by Elite Cementing & Acidizing of Kansas, LLC (ELITE) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay ELITE interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event ELITE retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by ELITE.

Any applicable federal, state or local sales, use, consumer or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All ELITE prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by ELITE. The Customer shall at all times have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises around the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service to be performed.

(a) ELITE shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, injury to or death of employees and representatives of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of ELITE, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of ELITE, Customer shall be responsible for and indemnify and hold ELITE harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by ELITE; (3) injury to or death of persons, other than employees of ELITE, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; (4) well damage or reservoir damaged caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. ELITE may furnish down-hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage or loss resulting from the use of such tools. Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) ELITE makes no guarantee of the effectiveness of any ELITE products, supplies or materials, or the results of any ELITE treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ELITE is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ELITE. ELITE personnel will use their best efforts in gathering such information and their best judgment in interpreting it. Customer agrees that ELITE shall not be responsible for any damage arising from the use of such information except where due to ELITE's gross negligence or willfull misconduct in the preparation or furnishing of it.

(e) ELITE may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that ELITE is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify ELITE against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES – LIMITATION OF LIABILITY

ELITE warrants its title to the products, supplies, and materials used or sold to the customer. **ELITE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** ELITE's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any ELITE products or services is expressly limited to the replacement of such or their return to ELITE or, at ELITE's option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against ELITE for any special, incidental, indirect, consequential or punitive damages.

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
10/28/2019	4777

Bill To
AGV Corporation 123 N. Main Attica, KS 67009

Customer ID#	1358

Job Date	10/26/2019
Lease Information	
Busenitz #1-28	
County	Butler
Foreman	DG

			Terms	Net 15
Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	30	4.20	126.00
C203	Pozmix Cement 60/40	235	13.40	3,149.00T
C206	Gel Bentonite	810	0.21	170.10T
C215	Cal-Seal (Dynaplast)	940	0.42	394.80T
C205	Calcium Chloride	405	0.63	255.15T
C208	Pheno Seal	470	1.30	611.00T
C201	Thick Set Cement	125	20.50	2,562.50T
C207	KolSeal	625	0.47	293.75T
C208	Pheno Seal	125	1.30	162.50T
C211	CFL-115	30	11.00	330.00T
C691	5 1/2" Guide Shoe	1	175.00	175.00T
C674	5 1/2" AFU Float Collar	1	359.00	359.00T
C504	5 1/2" Centralizer	9	50.00	450.00T
C604	5 1/2" Cement Basket	3	236.00	708.00T
C421	5 1/2" Latch Down Plug	1	242.00	242.00T
C222	KCL	4	30.00	120.00T
C108B	Ton Mileage-per mile (one way)	509.4	1.40	713.16
C113	80 Bbl Vac Truck	3	90.00	270.00
C224	City Water	3,300	0.01	33.00T

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	
Sales Tax (6.5%)	
Total	
Payments/Credits	
Balance Due	

Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Date	Invoice #
10/28/2019	4777

Bill To
AGV Corporation 123 N. Main Attica, KS 67009

Customer ID#	1358

Job Date	10/26/2019
Lease Information	
Busenitz #1-28	
County	Butler
Foreman	DG

			Terms	Net 15
Item	Description	Qty	Rate	Amount
D101	Discount on Services		-110.46	-110.46
D102	Discount on Materials		-500.79	-500.79T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
Elite Cementing & Acidizing of KS, LLC
PO Box 92
Eureka, KS 67045

Subtotal	$11,613.71
Sales Tax (6.5%)	$618.48
Total	$12,232.19
Payments/Credits	$0.00
Balance Due	$12,232.19

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. 4777
Foreman David Gardner
Camp Eureka

API # 15-015-24130

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
10-26-19	1358	Busenitz #1-28	28	24 S.	3 E.	Butler	KS

Customer: AGV Corporation
Mailing Address: 123 N. Main
City: Attica | State: KS | Zip Code: 67009
Safety Meeting: DG JH JV SM RM

Unit #	Driver	Unit #	Driver
105	Jason		
112	Steve		
113	Josh		
141	Russ		

Job Type: Longstring | Hole Depth: 2965' K.B. | Slurry Vol.: 60 Bbl - Lead, 41 Bbl - Tail | Tubing:
Casing Depth: 2952.94' | Hole Size: 7 7/8" | Slurry Wt.: 13.6# - Lead, 13.8# - Tail | Drill Pipe:
Casing Size & Wt.: 5 1/2" 15.50# | Cement Left in Casing: 41.46' S.J. | Water Gal/SK: | Other:
Displacement: 71 Bbl | Displacement PSI: 1100 | Bump Plug to: 1600 | BPM:

Remarks: Safety Meeting. New + Used 5 1/2" casing set @ 2952.94'. Rig up to 5 1/2" casing. Break circulation w/ 10 Bbl fresh water. Mixed 200 sks 60/40 Pozmix Cement w/ 4% Gel, 4# Calseal/sk, 2% Cacl2, 2# Phenoseal/sk @ 13.6#/gal, yield 1.70 = 60 Bbl Slurry. Start Rotating Casing. Tail Cement - 125 sks Thickset Cement w/ 5# Kolseal/sk, 1# Phenoseal/sk, 30# CFL-115 @ 13.8#/gal, yield = 1.85 = 41 Bbl slurry. Wash out pump & lines. Shut down. Release 5 1/2" Latch Down Plug. Displace plug to seat w/ 71 Bbl fresh water. (KCL in 1st 40 Bbl Displacement water.) Stop Rotating casing @ 20 Bbl Displaced. Final pumping pressure of 1100 PSI. Bump plug to 1600 PSI. Wait 2 mins. Release pressure. Float & Plug held good. Good circulation @ all times while cementing. Job Complete. Rig down.

Plug Rat Hole w/ 20 sks, Plug Mouse Hole w/ 15 sks.
Centralizers on # 2, 4, 6, 9, 12, 14, 48, 49, 51 Baskets on # 12, 28, 45

Code	Qty or Units	Description of Product or Services		Unit Price	Total
C102	1	Pump Charge		1100.00	1100.00
C107	30	Mileage		4.20	126.00
C203	235 sks	60/40 Pozmix Cement	Lead Cement	13.40	3149.00
C206	810#	Gel @ 4%		.21	170.10
C215	940#	Calseal @ 4#/sk		.42	394.80
C205	405#	Cacl2 @ 2%		.63	255.15
C208	470#	Phenoseal @ 2#/sk		1.30	611.00
C201	125 sks	Thick Set Cement	Tail Cement	20.50	2562.50
C207	625#	Kolseal @ 5#/sk		.47	293.75
C208	125#	Phenoseal @ 1#/sk		1.30	162.50
C211	30#	CFL-115		11.00	330.00
C691	1	5 1/2" Guide Shoe		175.00	175.00
C674	1	5 1/2" AFU Float Collar w/ Latch Down Insert		359.00	359.00
C504	9	5 1/2" x 7 7/8" Centralizers		50.00	450.00
C604	3	5 1/2" Cement Baskets		236.00	708.00
C421	1	5 1/2" Latch Down Plug		242.00	242.00
C222	4 gals	KCL (1st 40 Bbl Displacement water)		30.00	120.00
C108B	16.98 Tons	Ton Mileage - Bulk Trucks	Sub Total - 12,224.96	1.40	713.16
C113	3 HRS	80 Bbl Vac Truck	Less 5% - 643.80	90.00 /HR	270.00
C224	3300 gals	City Water	6.5% Sales Tax - 651.03	10.00 /1000 gals	33.00
				Total	12,232.19

Authorization Kent Robertson Title

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

TERMS

In consideration of the prices to be charged by Elite Cementing & Acidizing of Kansas, LLC (ELITE) services, equipment and products and for the performance of services and suppiying of materials, Customer agrees to the following terms and conditions.

Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay ELITE interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event ELITE retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by ELITE.

Any applicable federal, state or local sales, use, consumer or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All ELITE prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by ELITE. The Customer shall at all times have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises around the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service to be performed.

(a) ELITE shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, injury to or death of employees and representatives of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of ELITE, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of ELITE, Customer shall be responsible for and indemnify and hold ELITE harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by ELITE; (3) injury to or death of persons, other than employees of ELITE, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; (4) well damage or reservoir damaged caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. ELITE may furnish down-hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage or loss resulting from the use of such tools. Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) ELITE makes no guarantee of the effectiveness of any ELITE products, supplies or materials, or the results of any ELITE treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ELITE is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ELITE. ELITE personnel will use their best efforts in gathering such information and their best judgment in interpreting it. Customer agrees that ELITE shall not be responsible for any damage arising from the use of such information except where due to ELITE's gross negligence or willfull misconduct in the preparation or furnishing of it.

(e) ELITE may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that ELITE is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify ELITE against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES – LIMITATION OF LIABILITY

ELITE warrants its title to the products, supplies, and materials used or sold to the customer. **ELITE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** ELITE's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any ELITE products or services is expressly limited to the replacement of such or their return to ELITE or, at ELITE's option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against ELITE for any special, incidental, indirect, consequential or punitive damages.

PLOTTED GEOLOGICAL LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial

Well Name:	**BUSENITZ #1-28**		
Location:	**670' FSL & 1666' FEL of Sec. 28-T24S-R3E**		
Licence Number:	**API # 15-015-24130-00-00**	**Region:**	**Butler County, Kansas**
Spud Date:	**10/21/2019**	**Drilling Completed:**	**10/26/19**
Surface Coordinates:	**Lat: 37.9289468, Long: -97.1028658 (NAD27)**		
Bottom Hole Coordinates:	**Vertical Well**		
Ground Elevation (ft):	**1375'**	**K.B. Elevation (ft):**	**1384'**
Logged Interval (ft):	**1700' To: 2965**	**Total Depth (ft):**	**2965**
Formation:	**Mississipi**		
Type of Drilling Fluid:	**Chemical Mud by Fud-Mud**		

OPERATOR

Company: AGV Corp.
Address: P.O. Box 377
Attica, KS 67009

GEOLOGIST

Name: Kent Roberts
Company: Roberts Resources, Inc.
Address: P.O. Box 75187
Wichita, KS 67275
Cell 316-215-1683

BIT INFORMATION

#1 - 12-1/4 Atlas. Cut 271' in 2 Hrs

#2 - 7-7/8 Reed 613 PDC, Out at 1423, Cut 1152' in 24 3/4 hrs.
Pulled Early, Would not drill

#3 - 7-7/8 Atlas 516 PDC, Out at 2965, Cut 1542' in 19-3/4 hrs

INFORMATION

DRILLING CONTRACTOR: C&G Drilling Co., Rig #2

MUD TYPE: Chemical by Fud-Mud

DRILLING TIME KEPT FROM: 1700' to RTD

SAMPLES SAVED FROM: 1700' to RTD

SAMPLES EXAMINED FROM: 1700' to RTD

GEOLOGICAL SUPERVISION FROM: 2130' to RTD

ELECTRICAL SURVEYS: CDL/CNL, DIL, MEL, Sonic by ELI

DAILY ACTIVITY @ 0700 HRS

10/21/2019
Spud well @ 10:30 AM. Cut 12-1/4" hole to 272', Ran 6 joints 8-5/8" tally 256.60' set at 267' (2' below ground level). Cemented w/ 135 sacks cement (2% gel, 3% CC) Plug down at 4:15 PM. Cement did circulate.

10/22/2019
Depth 323', Down for repairs. Drill out under surface @ 1:00 AM. Drill to 323 and mud line high pressure union washed out. Down for repairs from 2:30 AM until 8:00 AM, repairs made and back drilling.

10/23/2019
Depth 1292', Drilling. Made bit trip @ 1422'. 10:50 AM to 1:15 PM. Deviation 1 degree. Hole did not pull tight on trip.

10/24/2019
Depth 2440'. Short trip and prepare for DST #1 in Kansas City (Dennis & Swope Limestones)

10/25/2019
Depth 2778'. Deviation 1 degree. On bottom with DST #2 in Mississippi Dolomite

10/26/19
Depth 2965', Trip out of hole for E-Logs. RTD @ 5:45 AM, CTCH 1-hr. Preparing to run 5-1/2" casing for production.

CASING DATA

CONDUCTOR CASING: None

SURFACE CASING: 8-5/8" set @ 267' w/ 135 sacks

PRODUCTION : 5.5 x 15.5# set @ 2961' KB

COMMENTS

Based on sample analysis, drill stem tests and electric logs it is recommended casing be ran for completion in the Mississippi Dolomite.

WELL NAME: Busenitz 1-28 ELEV. G.L.= 1375
K.B.= 1384

FORMATION TOPS	Sample		E- Log	
HEEBNER SHALE	1760	-376	1772	-388
LANSING	2051	-667	2050	-666
BASE LANSING	2184	-800	2182	-798
KANSAS CITY	2323	-939	2320	-936
BASE KANSAS CITY	2477	-1093	2476	-1092
MISSISSIPPI	2761	-1377	2759	-1375
HUNTON	NOT PENETRATED			
VIOLA	NOT PENETRATED			
SIMPSON SAND	NOT PENETRATED			
ARBUCKLE	NOT PENETRATED			
TOTAL DEPTH	2965	-1581	2965	-1581

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

GENERAL INFORMATION:

Formation: **Kansas City, Dennis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:32:00
Time Test Ended: 17:23:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2370.00 ft (KB) To 2440.00 ft (KB) (TVD)
Total Depth: 2440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

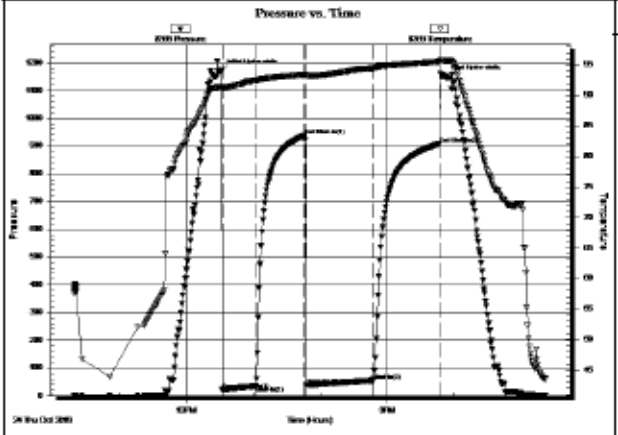
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 54.37 psig @ 2371.00 ft (KB)
Start Date: 2019.10.24 End Date: 2019.10.24
Start Time: 10:19:01 End Time: 17:23:00

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.24 @ 12:31:10
Time Off Btm: 2019.10.24 @ 15:51:39

TIMES: 30-45-60-60

TEST COMMENT: IF - Weak blow building to 3 1/2 inches during initial flow period.
FF - Weak blow building to 1 1/2 inches during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1170.87	91.42	Initial Hydro-static
1	20.69	91.00	Open To Flow (1)
31	34.82	92.48	Shut-In(1)
75	937.32	93.43	End Shut-In(1)
76	36.96	93.24	Open To Flow (2)
136	54.37	94.49	Shut-In(2)
196	907.68	95.55	End Shut-In(2)
201	1147.94	95.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSM Tr O & 100% M	0.34

Gas Rates

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

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:37:00
Time Test Ended: 10:26:50

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2768.00 ft (KB) To 2778.00 ft (KB) (TVD)
Total Depth: 2778.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

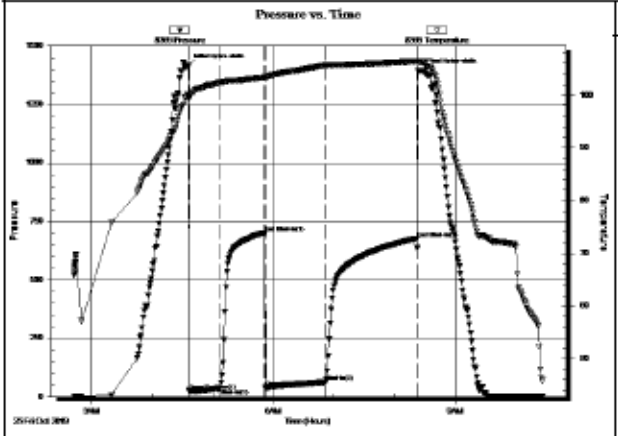
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 63.12 psig @ 2769.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.25
Start Time: 02:43:01 End Time: 10:26:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.25 @ 04:35:50
Time Off Btm: 2019.10.25 @ 08:26:30

TIMES: 30-45-60-90

TEST COMMENT: IF - Weak blow building to 10 inches during initial flow period.
FF - Weak blow building to strong blow 22 minutes into final flow period. Continuing to build to 24 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1415.24	100.22	Initial Hydro-static
2	22.96	99.51	Open To Flow (1)
32	36.28	102.43	Shut-In(1)
75	701.73	103.31	End Shut-In(1)
77	38.11	103.18	Open To Flow (2)
136	63.12	105.64	Shut-In(2)
227	677.00	106.39	End Shut-In(2)
231	1393.87	106.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 17%G 39%O & 44%M	0.30
60.00	Clean oil 100%O	0.30
255.00	Gas in pipe 100%G	2.99

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:06:40
Time Test Ended: 00:17:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2790.00 ft (KB) To 2806.00 ft (KB) (TVD)
Total Depth: 2806.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

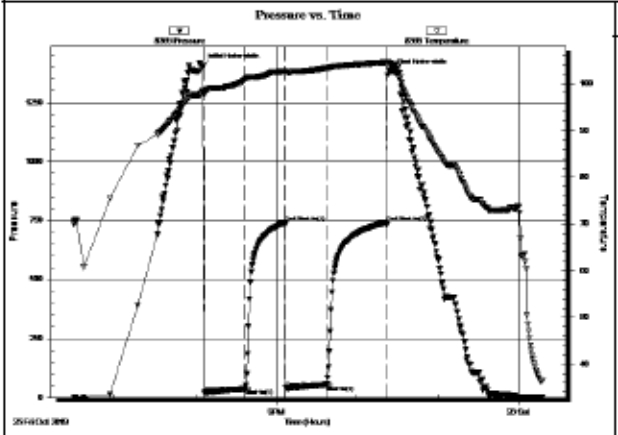
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 53.61 psig @ 2791.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.26
Start Time: 18:30:01 End Time: 00:17:40

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.25 @ 20:05:50
Time Off Btm: 2019.10.25 @ 22:25:50

TIMES: 30-30-30-45

TEST COMMENT: IF - Weak blow building to 1/2 inch during initial flow period.
FF - Weak blow building to 1/2 inch during final flow period.



PRESSURE SUMMARY

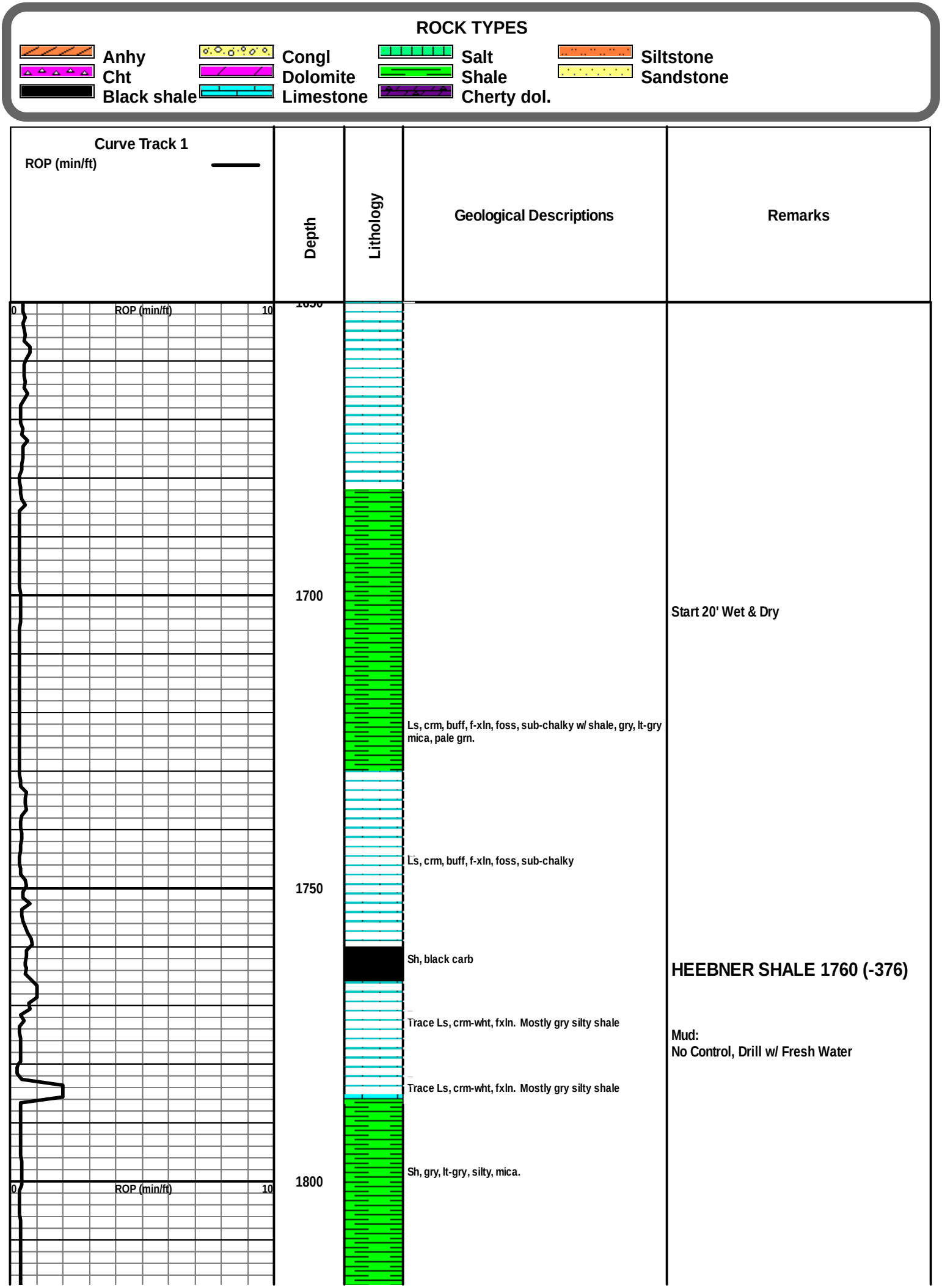
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1406.59	98.41	Initial Hydro-static
1	19.32	97.67	Open To Flow (1)
32	36.52	100.92	Shut-In(1)
61	740.93	102.68	End Shut-In(1)
62	39.67	102.50	Open To Flow (2)
92	53.61	103.34	Shut-In(2)
137	741.26	104.57	End Shut-In(2)
140	1381.91	104.32	Final Hydro-static

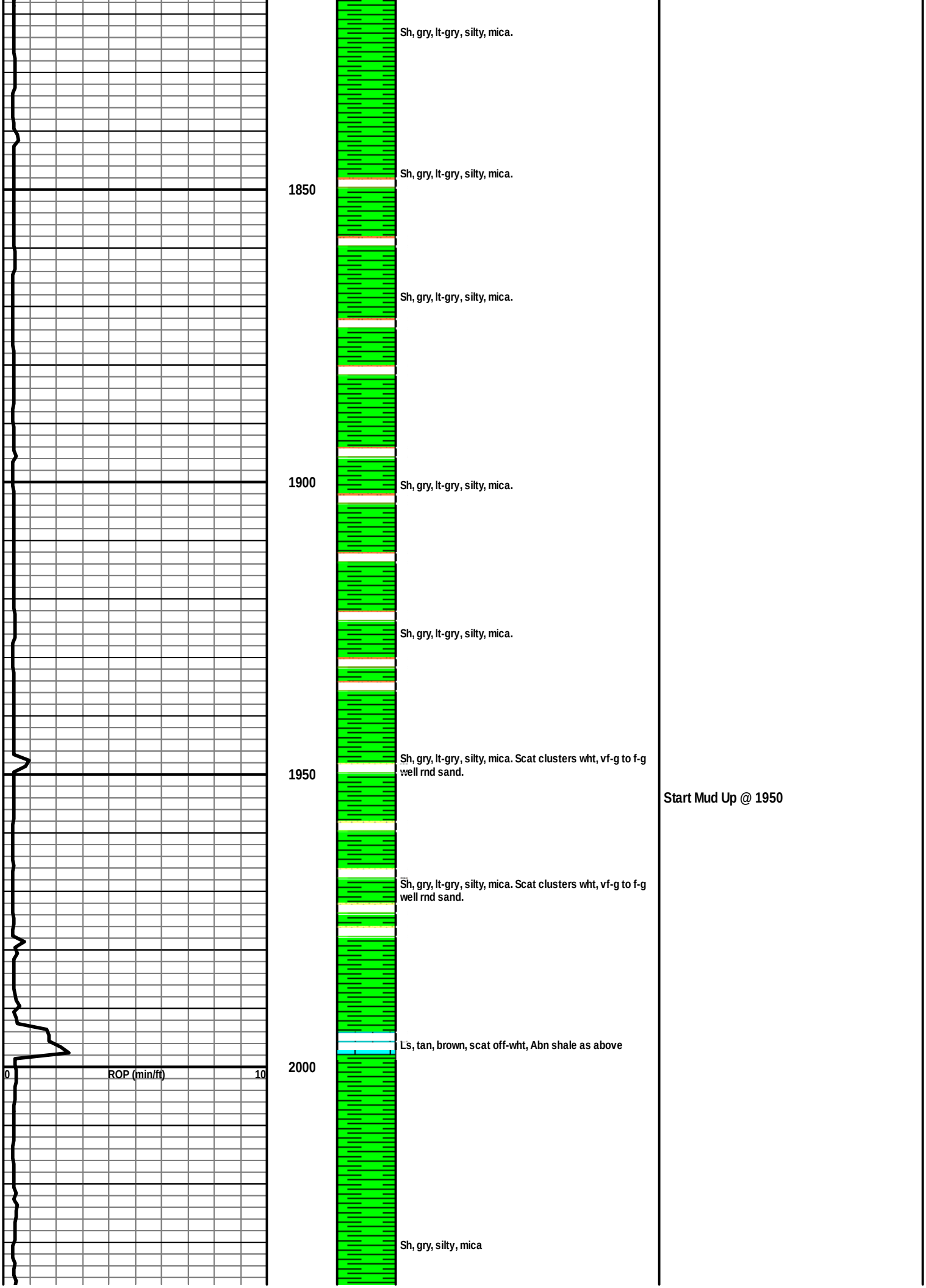
Recovery

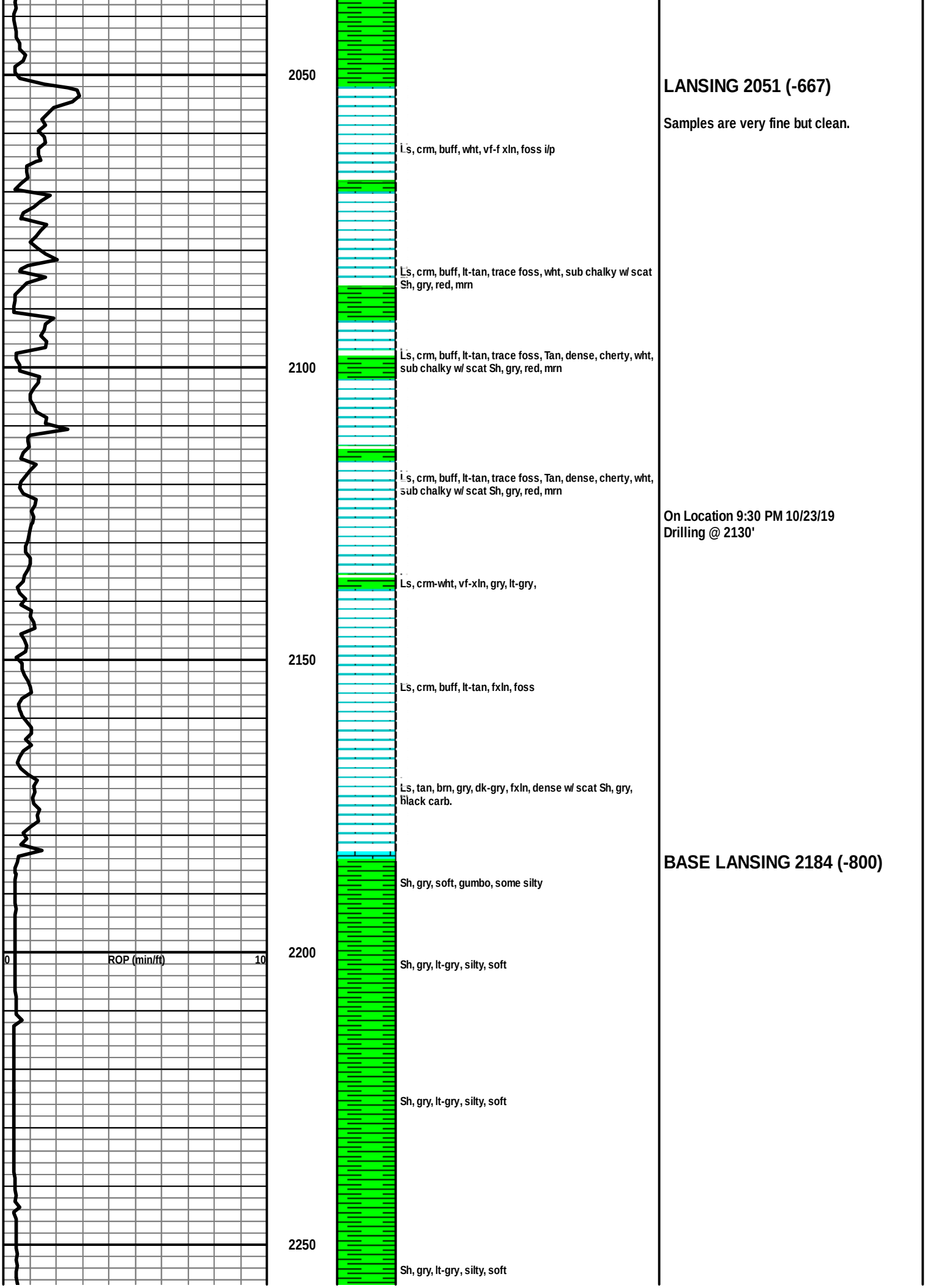
Length (ft)	Description	Volume (bbl)
75.00	OSM Tr O & 100% M	0.37

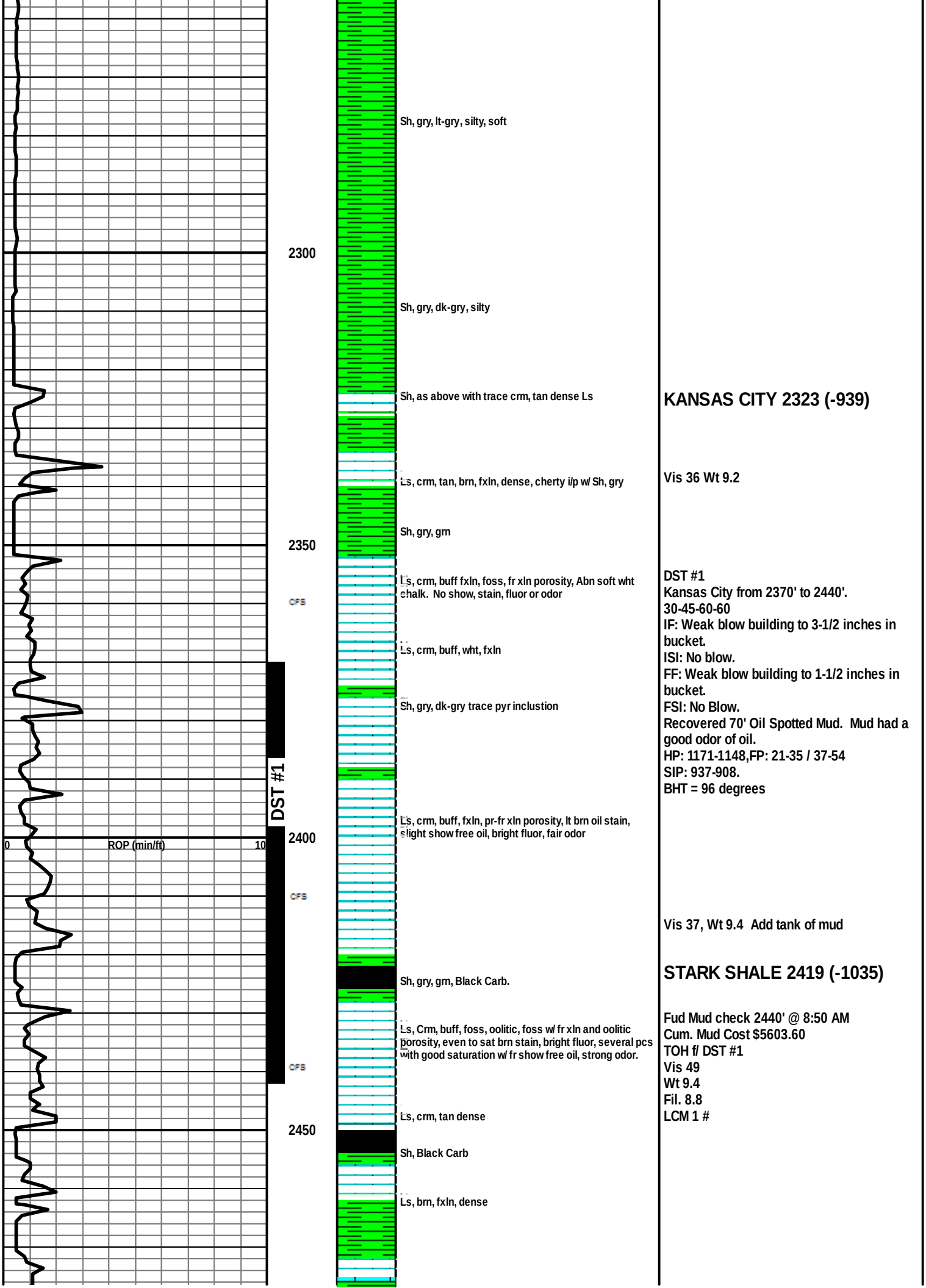
Gas Rates

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


ROCK TYPES
Anhy
Cht
Black shale
Congl
Dolomite
Limestone
Salt
Shale
Cherty dol.
Siltstone
Sandstone
Curve Track 1
ROP (min/ft)
Depth
Lithology
Geological Descriptions
Remarks
0
ROP (min/ft)
10
1700
1750
1800
Start 20' Wet & Dry
Ls, crm, buff, f-xln, foss, sub-chalky w/ shale, gry, lt-gry mica, pale grn.
Ls, crm, buff, f-xln, foss, sub-chalky
Sh, black carb
HEEBNER SHALE 1760 (-376)
Trace Ls, crm-wht, fxln. Mostly gry silty shale
Mud:
No Control, Drill w/ Fresh Water
Trace Ls, crm-wht, fxln. Mostly gry silty shale
Sh, gry, lt-gry, silty, mica.


0
ROP (min/ft)
10
1850
1900
1950
2000
Sh, gry, lt-gry, silty, mica.
Sh, gry, lt-gry, silty, mica.
Sh, gry, lt-gry, silty, mica.
Sh, gry, lt-gry, silty, mica.
Sh, gry, lt-gry, silty, mica.
Sh, gry, lt-gry, silty, mica. Scat clusters wht, vf-g to f-g well rnd sand.
Sh, gry, lt-gry, silty, mica. Scat clusters wht, vf-g to f-g well rnd sand.
Ls, tan, brown, scat off-wht, Abn shale as above
Sh, gry, silty, mica
Start Mud Up @ 1950


2050
2100
2150
2200
2250
0
ROP (min/ft)
10
Ls, crm, buff, wht, vf-f xln, foss i/p
Ls, crm, buff, lt-tan, trace foss, wht, sub chalky w/ scat Sh, gry, red, mrn
Ls, crm, buff, lt-tan, trace foss, Tan, dense, cherty, wht, sub chalky w/ scat Sh, gry, red, mrn
Ls, crm, buff, lt-tan, trace foss, Tan, dense, cherty, wht, sub chalky w/ scat Sh, gry, red, mrn
Ls, crm-wht, vf-xln, gry, lt-gry,
Ls, crm, buff, lt-tan, fxln, foss
Ls, tan, brn, gry, dk-gry, fxln, dense w/ scat Sh, gry, black carb.
Sh, gry, soft, gumbo, some silty
Sh, gry, lt-gry, silty, soft
Sh, gry, lt-gry, silty, soft
Sh, gry, lt-gry, silty, soft
LANSING 2051 (-667)
Samples are very fine but clean.
On Location 9:30 PM 10/23/19
Drilling @ 2130'
BASE LANSING 2184 (-800)



KANSAS CITY 2323 (-939)

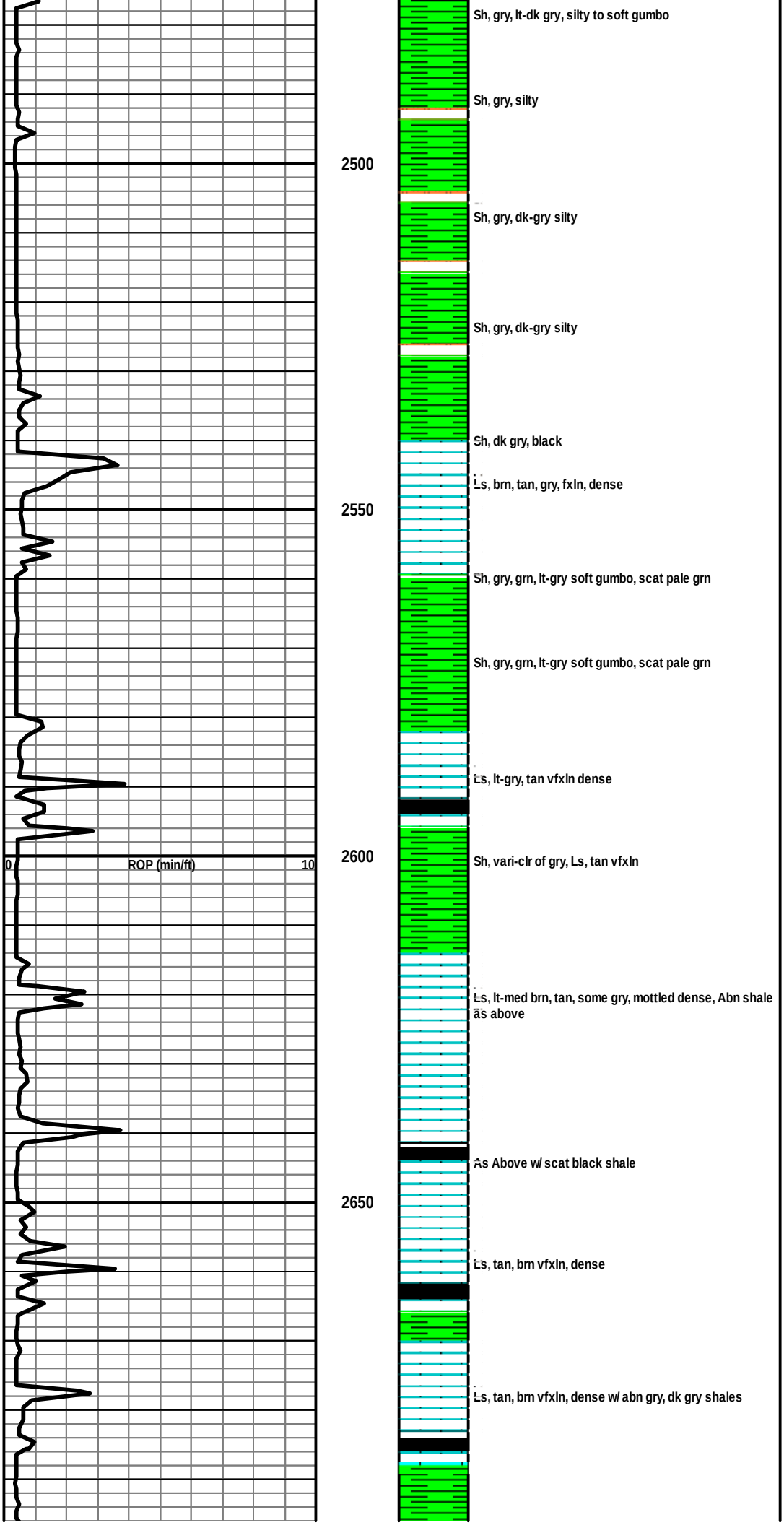
Vis 36 Wt 9.2

DST #1
Kansas City from 2370' to 2440'.
30-45-60-60
IF: Weak blow building to 3-1/2 inches in bucket.
ISI: No blow.
FF: Weak blow building to 1-1/2 inches in bucket.
FSI: No Blow.
Recovered 70' Oil Spotted Mud. Mud had a good odor of oil.
HP: 1171-1148,FP: 21-35 / 37-54
SIP: 937-908.
BHT = 96 degrees

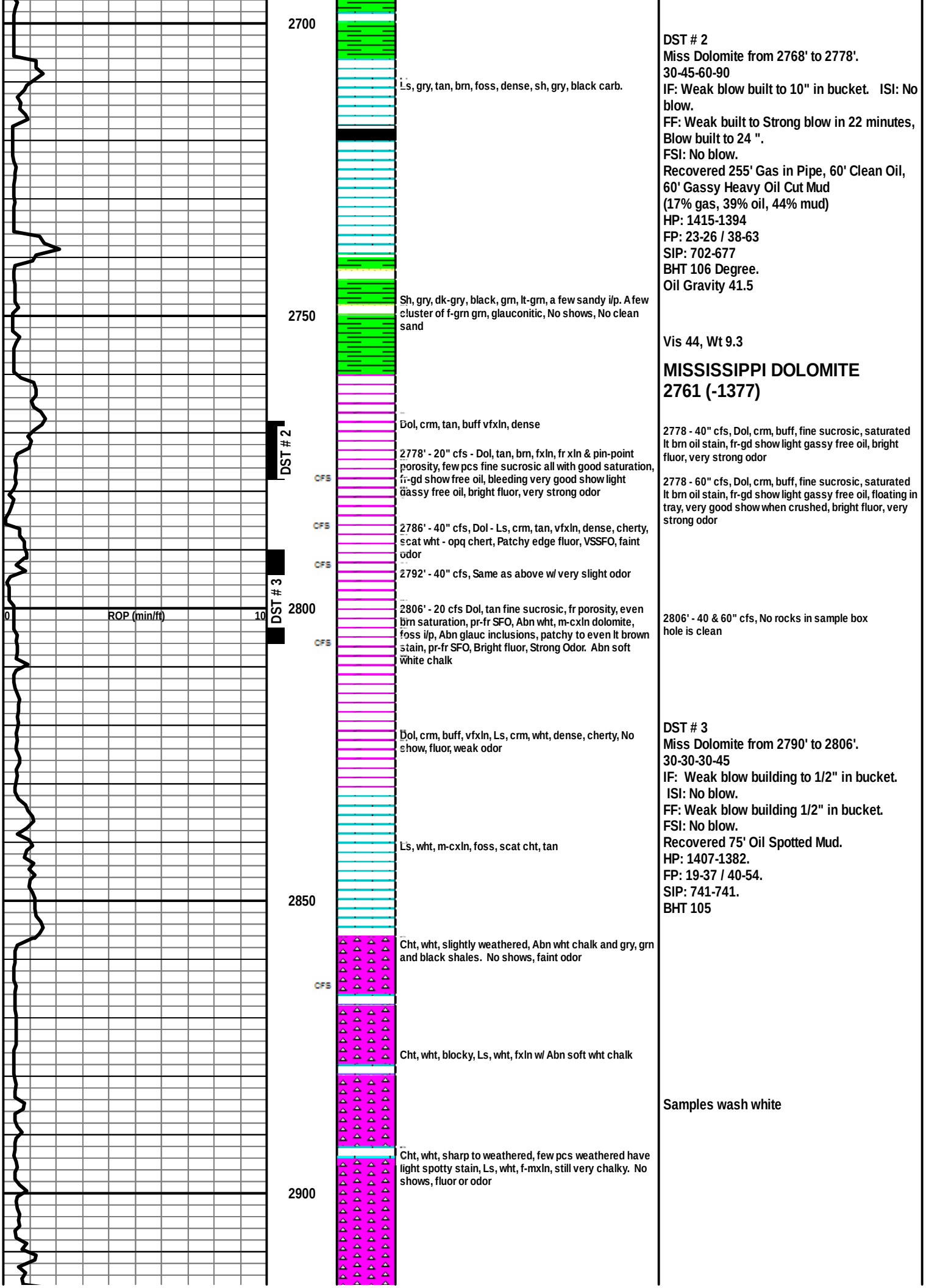
Vis 37, Wt 9.4 Add tank of mud

STARK SHALE 2419 (-1035)

Fud Mud check 2440' @ 8:50 AM
Cum. Mud Cost $5603.60
TOH f/ DST #1
Vis 49
Wt 9.4
Fil. 8.8
LCM 1 #



BASE / KC 2477 (-1093)



DST # 2
Miss Dolomite from 2768' to 2778'.
30-45-60-90
IF: Weak blow built to 10" in bucket. ISI: No blow.
FF: Weak built to Strong blow in 22 minutes, Blow built to 24 ".
FSI: No blow.
Recovered 255' Gas in Pipe, 60' Clean Oil, 60' Gassy Heavy Oil Cut Mud
(17% gas, 39% oil, 44% mud)
HP: 1415-1394
FP: 23-26 / 38-63
SIP: 702-677
BHT 106 Degree.
Oil Gravity 41.5

Vis 44, Wt 9.3

MISSISSIPPI DOLOMITE
2761 (-1377)

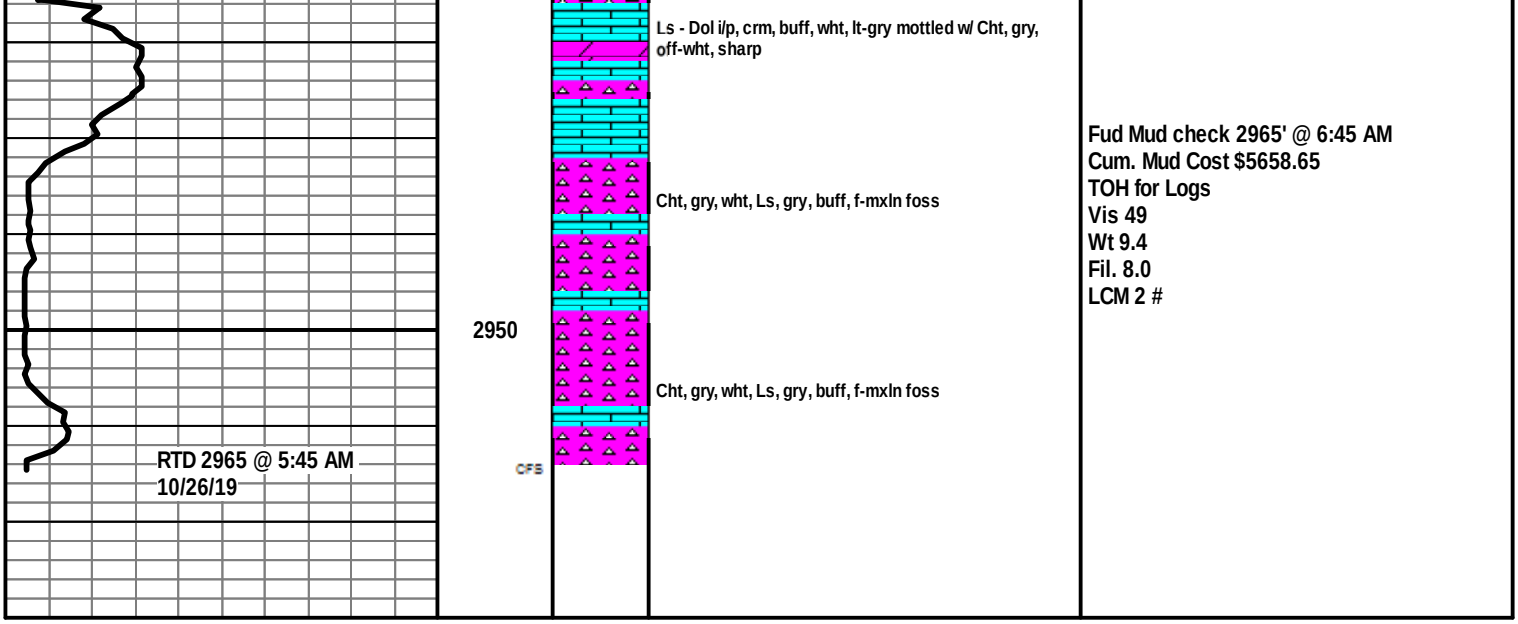
2778 - 40" cfs, Dol, crm, buff, fine sucrosic, saturated lt brn oil stain, fr-gd show light gassy free oil, bright fluor, very strong odor

2778 - 60" cfs, Dol, crm, buff, fine sucrosic, saturated lt brn oil stain, fr-gd show light gassy free oil, floating in tray, very good show when crushed, bright fluor, very strong odor

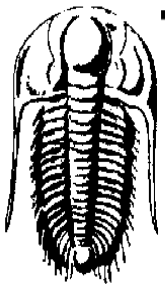
2806' - 40 & 60" cfs, No rocks in sample box hole is clean

DST # 3
Miss Dolomite from 2790' to 2806'.
30-30-30-45
IF: Weak blow building to 1/2" in bucket.
ISI: No blow.
FF: Weak blow building 1/2" in bucket.
FSI: No blow.
Recovered 75' Oil Spotted Mud.
HP: 1407-1382.
FP: 19-37 / 40-54.
SIP: 741-741.
BHT 105

Samples wash white



Fud Mud check 2965' @ 6:45 AM
Cum. Mud Cost $5658.65
TOH for Logs
Vis 49
Wt 9.4
Fil. 8.0
LCM 2 #



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **AGV Corporation**

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

Busenitz #1-28

28/24S/3E Butler, KS

Start Date: 2019.10.24 @ 10:19:00

End Date: 2019.10.24 @ 17:23:00

Job Ticket #: 65408 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.01.20 @ 13:33:44

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

GENERAL INFORMATION:

Formation: **Kansas City, Dennis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:32:00
Time Test Ended: 17:23:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2370.00 ft (KB) To 2440.00 ft (KB) (TVD)
Total Depth: 2440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

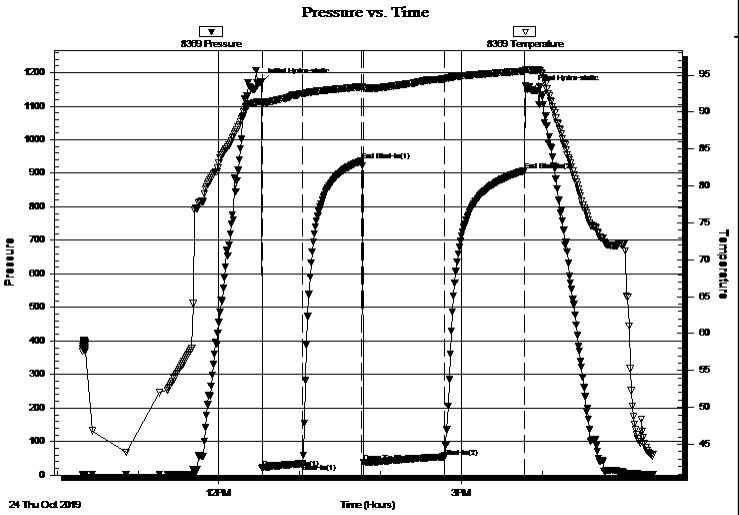
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 54.37 psig @ 2371.00 ft (KB)
Start Date: 2019.10.24 End Date: 2019.10.24
Start Time: 10:19:01 End Time: 17:23:00

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.24 @ 12:31:10
Time Off Btm: 2019.10.24 @ 15:51:39

TEST COMMENT: IF - Weak blow building to 3 1/2 inches during initial flow period.
FF - Weak blow building to 1 1/2 inches during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1170.87	91.42	Initial Hydro-static
1	20.69	91.00	Open To Flow (1)
31	34.82	92.48	Shut-In(1)
75	937.32	93.43	End Shut-In(1)
76	36.96	93.24	Open To Flow (2)
136	54.37	94.49	Shut-In(2)
196	907.68	95.55	End Shut-In(2)
201	1147.94	95.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSM Tr O & 100% M	0.34

Gas Rates

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

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

GENERAL INFORMATION:

Formation: **Kansas City, Dennis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:32:00
Time Test Ended: 17:23:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2370.00 ft (KB) To 2440.00 ft (KB) (TVD)
Total Depth: 2440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

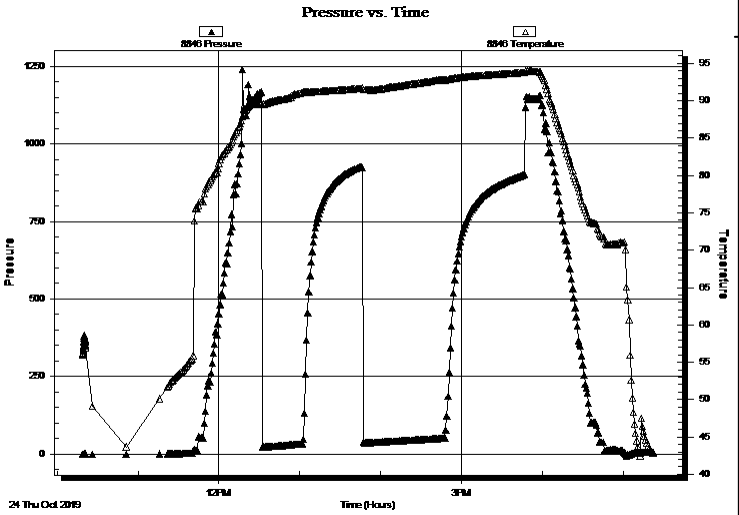
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: psig @ 2371.00 ft (KB)
Start Date: 2019.10.24 End Date: 2019.10.24
Start Time: 10:19:01 End Time: 17:23:00

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 3 1/2 inches during initial flow period.
FF - Weak blow building to 1 1/2 inches during final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OSM Tr O & 100% M	0.34

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

Tool Information

Drill Pipe:	Length:	2175.00 ft	Diameter:	3.80	inches	Volume:	30.51	bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	184.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	56000.00 lb
						Total Volume:	31.41	bbl	Tool Chased	1.00 ft
Drill Pipe Above KB:		17.00 ft							String Weight: Initial	54000.00 lb
Depth to Top Packer:		2370.00 ft							Final	54000.00 lb
Depth to Bottom Packer:		ft								
Interval between Packers:		70.00 ft								
Tool Length:		98.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2343.00		
Shut In Tool	5.00			2348.00		
Hydraulic tool	5.00			2353.00		
Jars	5.00			2358.00		
Safety Joint	3.00			2361.00		
Packer	5.00			2366.00	28.00	Bottom Of Top Packer
Packer	4.00			2370.00		
Stubb	1.00			2371.00		
Recorder	0.00	8369	Outside	2371.00		
Recorder	0.00	8846	Inside	2371.00		
Perforations	27.00			2398.00		
Change Over Sub	1.00			2399.00		
Blank Spacing	31.00			2430.00		
Change Over Sub	1.00			2431.00		
Perforations	4.00			2435.00		
Bullnose	5.00			2440.00	70.00	Bottom Packers & Anchor
Total Tool Length:	**98.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OSM Tr O & 100% M	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

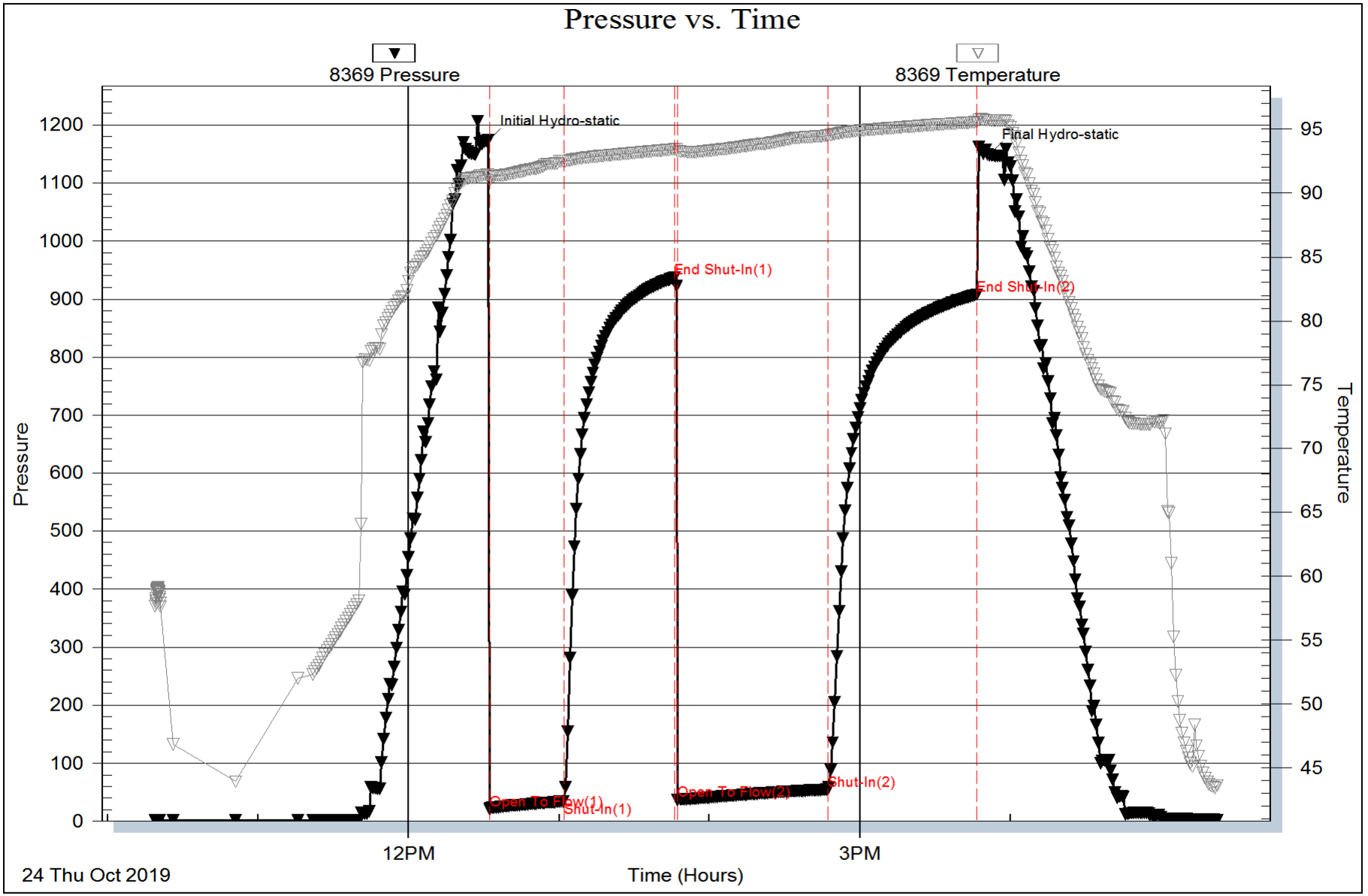
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

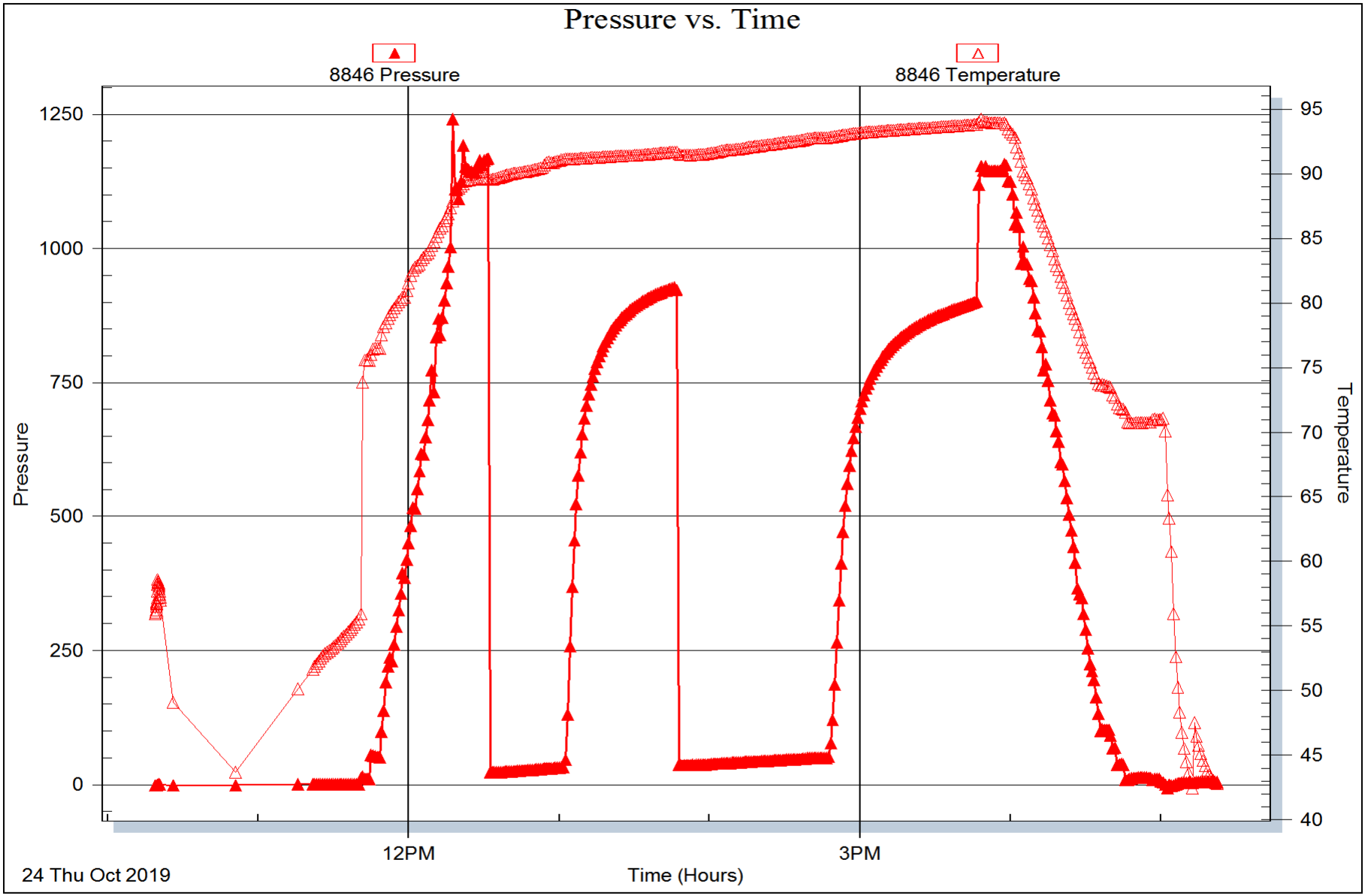
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

Serial #: 8369 **Outside** AGV Corporation Busenitz #1-28 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65408 Printed: 2020.01.20 @ 13:33:44

Serial #: 8846 **Inside** AGV Corporation Busenitz #1-28 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65408 Printed: 2020.01.20 @ 13:33:44

DRILL STEM TESTING - DATA LISTING

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65408 **DST#: 1**

Test Start: 2019.10.24 @ 10:19:00

Serial # 8369 **Outside**				**Serial # 8369** **Outside**			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	1.24	57.6		78.7	1.92	57.3
	0.1	1.28	57.9		79.8	1.92	57.7
	0.2	1.38	58.2		81.0	1.96	58.1
	0.3	1.33	58.6		82.2	13.96	73.6
	0.5	1.29	58.8		83.3	13.22	77.0
	0.6	1.30	58.9		84.5	13.14	77.0
	0.7	1.35	59.0		85.7	59.31	77.1
	0.8	1.40	59.1		86.8	57.55	77.8
	0.9	1.43	59.1		88.0	56.47	77.9
	1.0	1.45	59.1		89.2	54.86	77.9
	1.2	1.48	59.0		90.3	100.76	79.1
	1.3	1.51	58.9		91.5	139.42	79.7
	1.4	1.53	58.8		92.7	210.47	80.2
	1.5	1.58	58.7		93.8	235.45	80.7
	1.6	1.61	58.5		95.0	265.75	81.0
	1.8	1.64	58.2		96.2	298.52	81.3
	1.9	1.63	57.8		97.3	372.37	81.7
	2.0	1.66	50.1		98.5	395.67	81.9
	37.0	1.77	45.5		99.7	424.89	82.1
	62.3	1.81	52.2		100.8	455.34	83.1
	63.5	1.82	52.5		102.0	486.95	83.8
	64.7	1.84	52.9		103.2	520.22	84.2
	65.8	1.85	53.2		104.3	556.24	84.4
	67.0	1.86	53.7		105.5	587.77	84.7
	68.2	1.88	54.1		106.7	619.89	85.0
	69.3	1.87	54.4		107.8	653.08	85.3
	70.5	1.86	54.8		109.0	685.43	85.6
	71.7	1.86	55.1		110.2	749.33	86.1
	72.8	1.88	55.5		111.3	781.37	86.6
	74.0	1.89	55.8		112.5	789.41	87.0
	75.2	1.90	56.2		113.7	933.99	87.4
	76.3	1.93	56.6		114.8	908.65	87.8
	77.5	1.94	56.9		116.0	940.78	88.3

Printing every 7 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	117.2	972.34	88.8		154.5	31.30	92.1
	118.3	1129.05	89.3		155.6	32.14	92.3
	119.5	1067.76	90.1		156.8	31.94	92.3
	120.7	1098.48	90.5		158.0	32.57	92.3
	121.8	1129.42	90.8		159.1	33.30	92.3
	123.0	1159.95	91.1		160.3	33.65	92.4
	124.2	1154.92	91.1		161.5	33.86	92.5
	125.3	1151.20	91.2		162.6	33.99	92.5
	126.5	1149.98	91.2		162.8	34.00	92.5
	127.7	1149.11	91.2	Shut-In(1)	163.0	34.82	92.5
	128.8	1168.67	91.3		163.1	40.62	92.5
	130.0	1163.54	91.4		163.3	48.50	92.5
	131.1	1170.29	91.4		163.5	58.71	92.5
	131.8	1172.44	91.4		164.6	205.75	92.5
	132.0	1171.70	91.4		165.8	368.94	92.6
Initial Hydro-static	132.1	1170.87	91.4		167.0	486.77	92.6
	132.3	1177.61	91.4		168.1	570.63	92.7
	132.5	1174.28	91.4		169.3	631.96	92.7
	132.6	1174.07	91.4		170.5	678.48	92.7
	132.8	1167.48	91.4		171.6	714.48	92.8
Open To Flow (1)	133.0	20.69	91.0		172.8	743.46	92.8
	133.1	21.73	91.2		174.0	766.97	92.8
	133.3	22.74	91.2		175.1	786.66	92.8
	133.5	22.99	91.3		176.3	803.16	92.9
	134.6	23.37	91.3		177.5	817.32	92.9
	135.8	23.19	91.3		178.6	829.60	92.9
	137.0	24.28	91.4		179.8	840.39	92.9
	138.1	24.85	91.4		181.0	849.83	93.0
	139.3	25.64	91.4		182.1	858.28	93.0
	140.5	26.17	91.4		183.3	865.78	93.0
	141.6	26.61	91.5		184.5	872.51	93.0
	142.8	27.38	91.6		185.6	878.77	93.0
	144.0	27.44	91.6		186.8	884.29	93.1
	145.1	27.82	91.7		188.0	889.51	93.1
	146.3	28.39	91.7		189.1	894.26	93.1
	147.5	28.78	91.8		190.3	898.67	93.1
	148.6	29.18	91.8		191.5	902.71	93.2
	149.8	29.77	91.9		192.6	906.43	93.2
	151.0	30.09	91.9		193.8	910.24	93.2
	152.1	30.42	91.9		195.0	913.51	93.2
	153.3	31.04	92.0		196.1	916.32	93.2

Printing every 7 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	197.3	919.16	93.3		234.3	45.59	93.6
	198.5	921.88	93.3		235.5	45.99	93.7
	199.6	924.39	93.3		236.6	46.35	93.7
	200.8	926.77	93.3		237.8	46.69	93.7
	202.0	929.00	93.3		239.0	47.07	93.8
	203.1	931.15	93.4		240.1	47.35	93.8
	204.3	932.51	93.4		241.3	48.02	93.8
	205.5	934.61	93.4		242.5	48.05	93.8
	206.6	936.50	93.4		243.6	48.46	93.9
	206.8	937.19	93.4		244.8	49.13	93.9
End Shut-In(1)	207.0	937.32	93.4		246.0	49.17	93.9
	207.1	937.55	93.4		247.1	49.83	94.0
	207.3	933.72	93.4		248.3	49.84	94.0
	207.5	933.79	93.4		249.5	50.47	94.1
	207.8	40.46	92.9		250.6	50.43	94.1
	208.0	36.99	93.2		251.8	51.08	94.2
Open To Flow (2)	208.1	36.96	93.2		253.0	51.10	94.2
	208.3	37.03	93.2		254.1	51.65	94.3
	208.5	37.10	93.3		255.3	51.87	94.3
	208.6	37.17	93.3		256.5	51.81	94.3
	209.8	37.51	93.2		257.6	52.39	94.3
	211.0	37.85	93.2		258.8	52.66	94.4
	212.1	37.89	93.2		260.0	52.89	94.4
	213.3	38.23	93.2		261.1	53.15	94.4
	214.5	38.59	93.2		262.3	53.41	94.4
	215.6	38.96	93.2		263.5	53.65	94.4
	216.8	39.42	93.2		264.6	53.89	94.4
	218.0	39.79	93.2		265.8	54.12	94.4
	219.1	40.34	93.3		267.0	54.26	94.5
	220.3	40.74	93.3		267.8	54.34	94.5
	221.5	41.15	93.3		268.0	54.36	94.5
	222.6	41.57	93.3	Shut-In(2)	268.1	54.37	94.5
	223.8	42.05	93.4		268.3	55.50	94.5
	225.0	42.46	93.4		268.5	59.04	94.5
	226.1	42.88	93.4		268.6	63.55	94.5
	227.3	43.32	93.4		269.8	113.97	94.6
	228.5	43.63	93.5		271.0	204.50	94.6
	229.6	44.05	93.5		272.1	316.38	94.7
	230.8	44.42	93.5		273.3	416.95	94.7
	232.0	44.83	93.6		274.5	496.95	94.7
	233.1	45.23	93.6		275.6	558.92	94.8

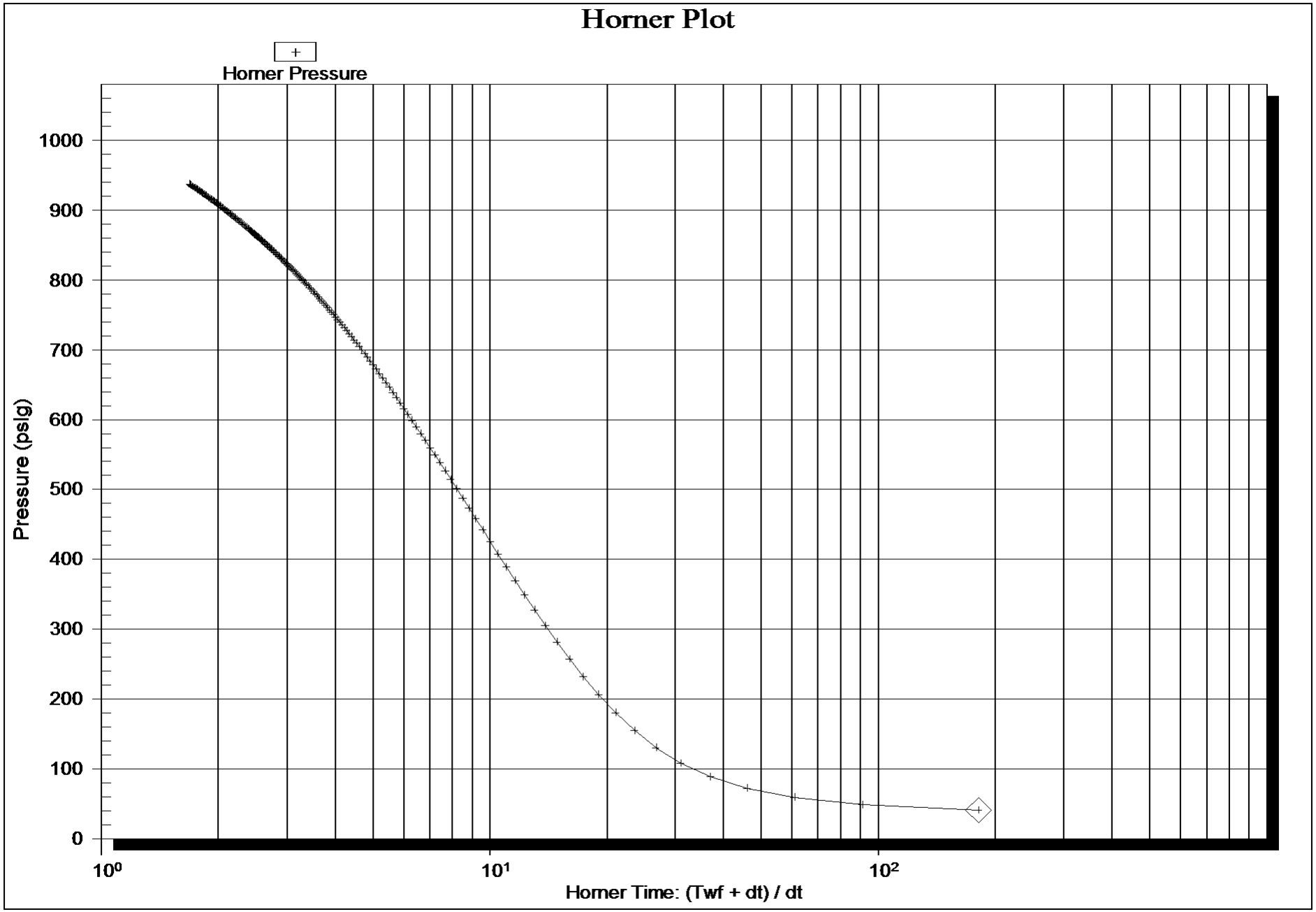
Printing every 7 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	276.8	606.82	94.8		324.6	903.92	95.5
	278.0	644.72	94.8		325.8	905.42	95.5
	279.1	675.13	94.8		327.0	906.85	95.5
	280.3	700.02	94.9		327.3	907.49	95.5
	281.5	720.68	94.9		327.5	907.58	95.5
	282.6	738.27	94.9	End Shut-In(2)	327.6	907.68	95.5
	283.8	753.39	94.9		327.8	907.80	95.5
	285.0	766.45	95.0		328.0	826.44	95.5
	286.1	777.85	95.0		328.1	1112.33	95.6
	287.3	788.10	95.0		329.3	1156.38	95.8
	288.5	797.13	95.0		330.5	1155.18	95.7
	289.6	805.25	95.0		331.6	1149.23	95.7
	290.8	812.69	95.0		332.3	1148.27	95.7
	292.0	819.37	95.1		332.5	1148.13	95.7
	293.1	825.46	95.1	Final Hydro-static	332.6	1147.94	95.7
	294.3	831.04	95.1		332.8	1147.72	95.7
	295.5	836.32	95.1		333.0	1147.64	95.7
	296.6	841.17	95.1		333.1	1147.45	95.7
	297.8	845.68	95.1		334.3	1146.98	95.7
	299.0	849.97	95.2		335.5	1146.53	95.7
	300.1	854.27	95.2		336.6	1145.99	95.7
	301.3	857.97	95.2		337.8	1145.90	95.7
	302.5	861.35	95.2		339.0	1211.89	95.6
	303.6	864.32	95.2		340.1	1135.23	95.3
	304.8	867.63	95.3		341.3	1054.15	95.0
	306.0	870.82	95.3		342.5	1098.73	94.5
	307.1	873.50	95.3		343.6	1070.41	93.8
	308.3	876.17	95.3		344.8	971.88	93.0
	309.5	878.70	95.3		346.0	1008.20	92.2
	310.6	881.14	95.3		347.1	977.02	91.5
	311.8	883.48	95.3		348.3	948.02	90.8
	313.0	885.77	95.4		349.5	916.93	90.0
	314.1	887.82	95.4		350.6	877.49	89.4
	315.3	889.93	95.4		351.8	854.17	88.5
	316.5	891.93	95.4		353.0	824.47	88.0
	317.6	893.81	95.4		354.1	818.49	87.7
	318.8	895.66	95.4		355.3	755.61	87.0
	320.0	897.34	95.5		356.5	717.86	86.2
	321.1	899.19	95.5		357.6	685.97	85.5
	322.3	900.76	95.5		358.8	646.11	84.7
	323.5	902.39	95.5		360.0	617.81	84.0

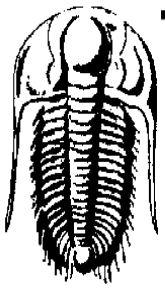
Printing every 7 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	361.1	616.02	83.3		409.0	4.06	48.1
	362.3	571.52	82.6		410.1	4.08	46.9
	363.5	523.94	82.0		411.3	3.77	46.1
	364.6	463.01	81.2		412.5	3.16	45.4
	365.8	447.73	80.5		413.6	2.50	45.1
	367.0	416.08	80.0		414.8	3.02	47.2
	368.1	384.77	79.3		416.0	2.99	45.9
	369.3	338.10	78.6		417.1	2.82	44.9
	370.5	300.53	77.9		418.3	2.68	44.3
	371.6	249.33	77.1		419.5	2.68	43.8
	372.8	229.55	76.5		420.6	2.66	43.7
	374.0	198.01	75.9		421.8	2.85	43.5
	375.1	166.40	75.4		423.0	2.28	43.4
	376.3	135.42	74.9		424.0	2.14	45.0
	377.5	103.45	74.6				
	378.6	104.89	74.5				
	379.8	105.03	74.4				
	381.0	87.62	74.4				
	382.1	72.10	73.7				
	383.3	37.09	73.1				
	384.5	42.77	73.0				
	385.6	44.15	72.9				
	386.8	11.84	72.4				
	388.0	13.39	72.1				
	389.1	14.30	72.0				
	390.3	14.93	72.0				
	391.5	14.93	72.0				
	392.6	14.81	71.9				
	393.8	14.70	71.9				
	395.0	14.64	71.9				
	396.1	13.54	71.9				
	397.3	9.47	72.1				
	398.5	10.02	72.1				
	399.6	10.61	72.1				
	400.8	7.54	72.0				
	402.0	4.16	72.1				
	403.1	2.58	68.9				
	404.3	3.28	64.9				
	405.5	4.55	58.4				
	406.6	5.00	52.8				
	407.8	4.28	49.9				

Printing every 7 samples



Serial Number: 8369 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **AGV Corporation**

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

Busenitz #1-28

28/24S/3E Butler, KS

Start Date: 2019.10.25 @ 02:43:00
End Date: 2019.10.25 @ 10:26:50
Job Ticket #: 65409 DST #: 2

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

Printed: 2020.01.20 @ 13:34:36

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:37:00
Time Test Ended: 10:26:50

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2768.00 ft (KB) To 2778.00 ft (KB) (TVD)
Total Depth: 2778.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

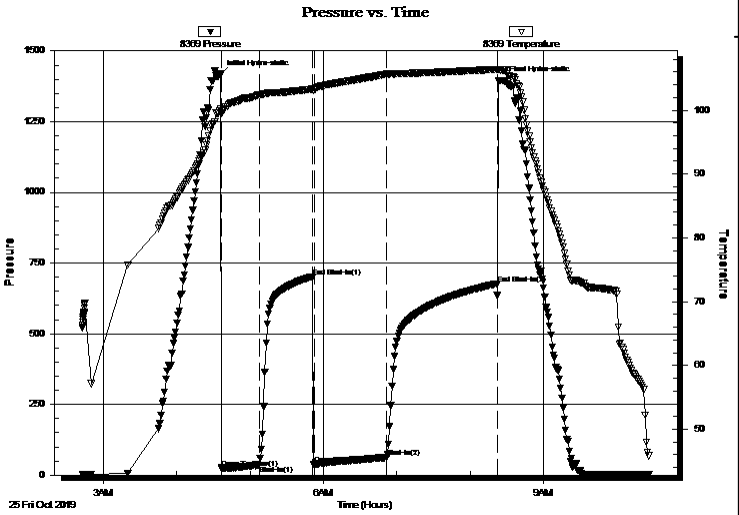
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 63.12 psig @ 2769.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.25
Start Time: 02:43:01 End Time: 10:26:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.25 @ 04:35:50
Time Off Btm: 2019.10.25 @ 08:26:30

TEST COMMENT: IF - Weak blow building to 10 inches during initial flow period.
FF - Weak blow building to strong blow 22 minutes into final flow period. Continuing to build to 24 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1415.24	100.22	Initial Hydro-static
2	22.96	99.51	Open To Flow (1)
32	36.28	102.43	Shut-In(1)
75	701.73	103.31	End Shut-In(1)
77	38.11	103.18	Open To Flow (2)
136	63.12	105.64	Shut-In(2)
227	677.00	106.39	End Shut-In(2)
231	1393.87	106.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 17%G 39%O & 44%M	0.30
60.00	Clean oil 100%O	0.30
255.00	Gas in pipe 100%G	2.99

Gas Rates

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

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:37:00
Time Test Ended: 10:26:50

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2768.00 ft (KB) To 2778.00 ft (KB) (TVD)
Total Depth: 2778.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

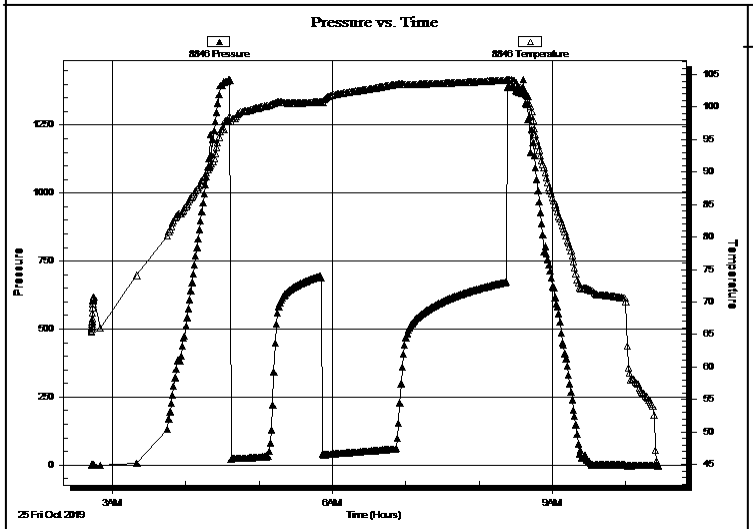
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: psig @ 2769.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.25
Start Time: 02:43:01 End Time: 10:26:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 10 inches during initial flow period.
FF - Weak blow building to strong blow 22 minutes into final flow period. Continuing to build to 24 inches.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 17%G 39%O & 44%M	0.30
60.00	Clean oil 100%O	0.30
255.00	Gas in pipe 100%G	2.99

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

Tool Information

Drill Pipe:	Length:	2584.00 ft	Diameter:	3.80	inches	Volume:	36.25	bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	184.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	60000.00 lb
						Total Volume:	37.15	bbl	Tool Chased	1.00 ft
Drill Pipe Above KB:		28.00 ft							String Weight: Initial	57000.00 lb
Depth to Top Packer:		2768.00 ft							Final	57000.00 lb
Depth to Bottom Packer:		ft								
Interval between Packers:		10.00 ft								
Tool Length:		38.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2741.00		
Shut In Tool	5.00			2746.00		
Hydraulic tool	5.00			2751.00		
Jars	5.00			2756.00		
Safety Joint	3.00			2759.00		
Packer	5.00			2764.00	28.00	Bottom Of Top Packer
Packer	4.00			2768.00		
Stubb	1.00			2769.00		
Recorder	0.00	8369	Outside	2769.00		
Recorder	0.00	8846	Inside	2769.00		
Perforations	7.00			2776.00		
Bullnose	2.00			2778.00	10.00	Bottom Packers & Anchor
Total Tool Length:	**38.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41.5 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 17%G 39%O & 44%M	0.295
60.00	Clean oil 100%O	0.295
255.00	Gas in pipe 100%G	2.994

Total Length: 375.00 ft Total Volume: 3.584 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

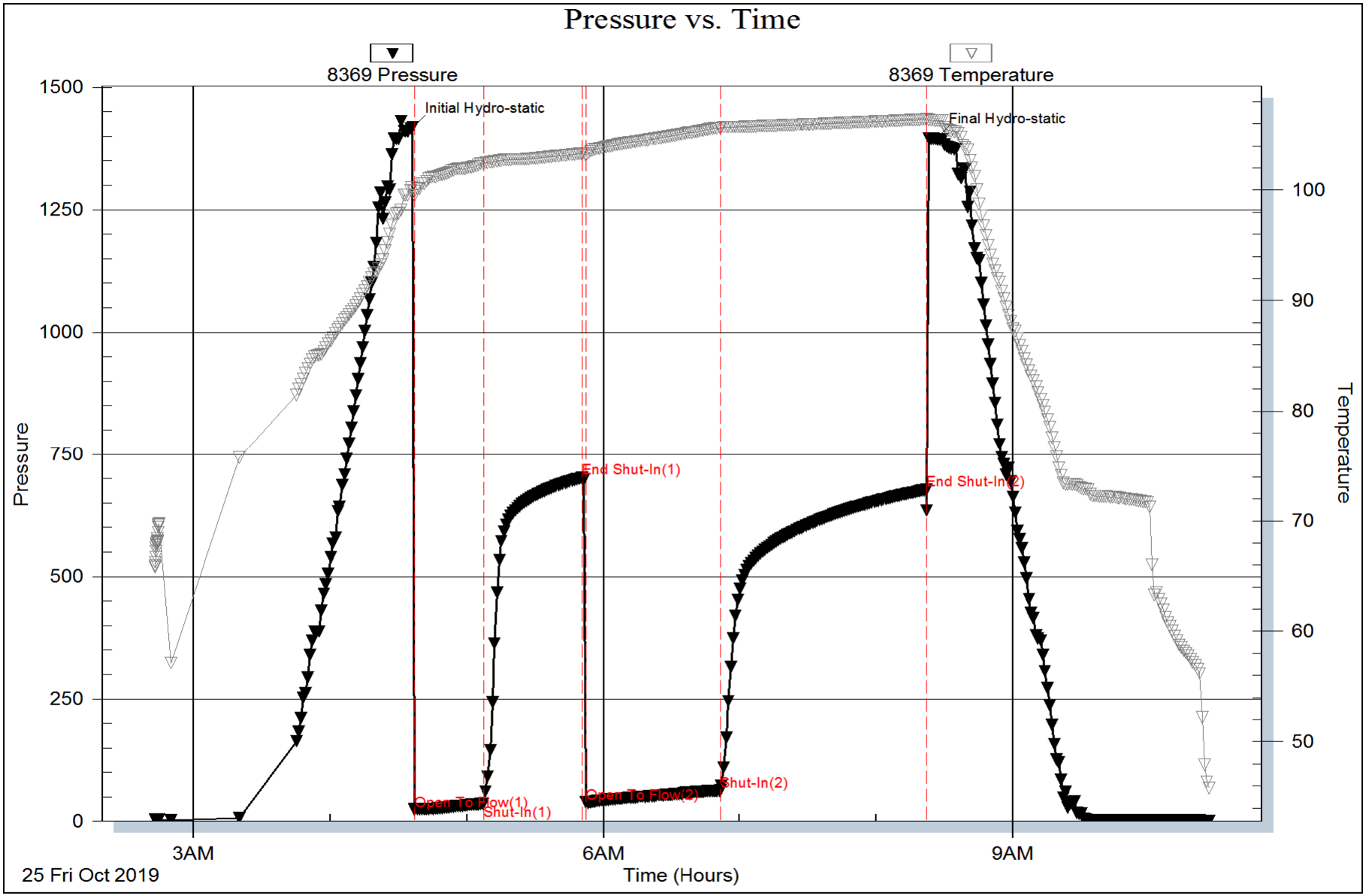
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

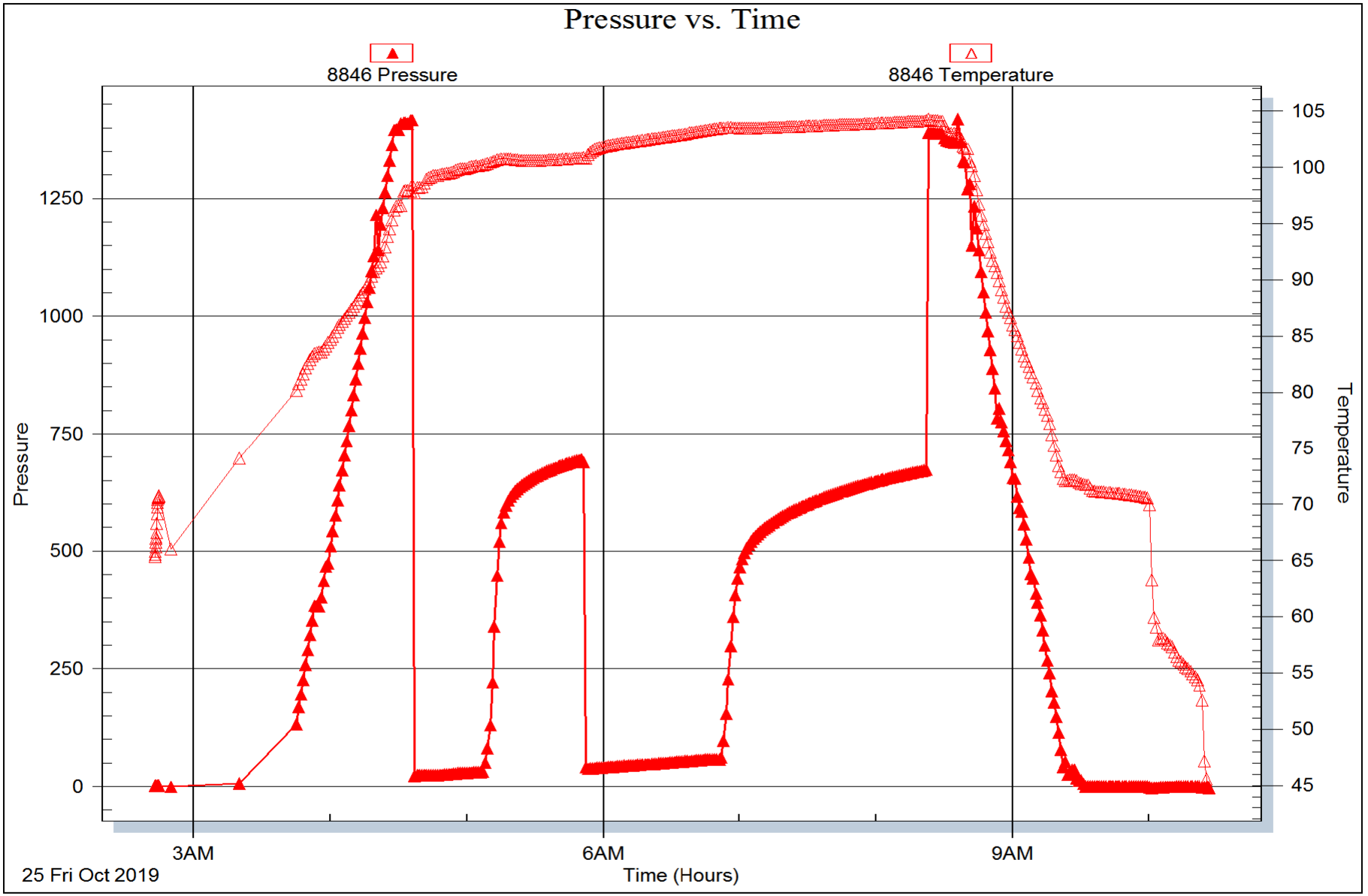
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

Serial #: 8369 **Outside** AGV Corporation Busenitz #1-28 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65409 Printed: 2020.01.20 @ 13:34:37

Serial #: 8846 **Inside** AGV Corporation Busenitz #1-28 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65409 Printed: 2020.01.20 @ 13:34:37

DRILL STEM TESTING - DATA LISTING

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65409 **DST#: 2**

Test Start: 2019.10.25 @ 02:43:00

Serial # 8369	**Outside**			**Serial # 8369**	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	3.53	65.8		84.2	740.03	88.5
	0.1	3.57	66.0		85.5	806.48	88.8
	0.3	3.68	66.5		86.8	837.76	89.2
	0.4	3.71	67.3		88.2	871.00	89.5
	0.5	3.67	67.7		89.5	978.14	89.9
	0.7	3.59	67.9		90.8	946.11	90.4
	0.8	3.58	68.0		92.2	1001.91	90.9
	0.9	3.60	68.1		93.5	1034.87	91.3
	1.1	3.70	68.2		94.8	1083.72	91.8
	1.2	3.80	68.4		96.2	1133.06	92.4
	1.3	3.70	69.2		97.5	1165.91	92.8
	1.5	3.67	69.6		98.8	1199.06	93.1
	1.6	3.70	69.7		100.2	1232.25	93.7
	1.7	3.73	69.7		101.5	1397.86	94.7
	1.9	3.69	69.8		102.8	1330.59	95.9
	7.0	1.80	57.1		104.2	1363.12	96.8
	47.0	41.66	78.8		105.5	1395.46	97.8
	62.8	167.13	81.9		106.8	1395.01	97.9
	64.2	210.84	82.4		108.2	1431.51	98.2
	65.5	260.72	83.2		109.5	1411.31	99.5
	66.8	293.03	83.8		110.8	1410.14	99.5
	68.2	339.98	84.3		112.2	1416.05	99.9
	69.5	385.68	84.8		112.5	1416.93	100.2
	70.8	387.74	85.0		112.7	1415.36	100.2
	72.2	387.75	85.1	Initial Hydro-static	112.8	1415.24	100.2
	73.5	420.17	85.3		113.0	1416.80	100.2
	74.8	451.44	85.6		113.2	1418.31	100.2
	76.2	505.78	86.1		113.3	1418.45	100.2
	77.5	543.47	86.4		113.7	1419.02	100.2
	78.8	580.11	87.0		113.8	1418.48	100.2
	80.2	633.49	87.4	Open To Flow (1)	114.0	22.96	99.5
	81.5	680.89	87.7		114.2	25.80	99.9
	82.8	708.39	88.2		114.3	25.91	100.0

Printing every 8 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	114.5	26.12	100.1		162.1	651.28	102.8
	115.8	23.52	100.1		163.5	655.54	102.8
	117.2	25.44	100.6		164.8	659.38	102.8
	118.5	24.54	100.7		166.1	662.83	102.9
	119.8	25.27	101.0		167.5	666.21	102.9
	121.2	25.50	101.1		168.8	669.46	102.9
	122.5	25.52	101.2		170.1	672.46	102.9
	123.8	26.01	101.2		171.5	675.31	103.0
	125.2	26.35	101.4		172.8	678.01	103.0
	126.5	27.81	101.4		174.1	680.59	103.0
	127.8	27.74	101.5		175.5	683.07	103.0
	129.1	28.46	101.6		176.8	685.46	103.1
	130.5	29.73	101.7		178.1	687.74	103.1
	131.8	30.22	101.8		179.5	689.91	103.1
	133.1	31.22	101.9		180.8	692.09	103.2
	134.5	31.04	101.9		182.1	694.02	103.2
	135.8	31.98	101.9		183.5	696.12	103.2
	137.1	32.48	102.0		184.8	698.00	103.2
	138.5	33.90	102.0		186.1	699.69	103.3
	139.8	34.11	102.1		187.3	701.52	103.3
	141.1	33.55	102.2		187.5	701.64	103.3
	142.5	35.19	102.3	End Shut-In(1)	187.6	701.73	103.3
	143.8	35.31	102.4		187.8	684.72	103.3
	144.0	35.15	102.4		188.0	693.50	103.3
	144.1	35.13	102.4		188.1	696.67	103.3
Shut-In(1)	144.3	36.28	102.4		189.0	40.23	103.1
	144.5	41.19	102.4		189.1	38.96	103.2
	144.6	46.38	102.4	Open To Flow (2)	189.3	38.11	103.2
	144.8	51.10	102.4		189.5	37.38	103.2
	146.1	91.97	102.5		189.6	37.30	103.2
	147.5	172.75	102.5		189.8	37.10	103.3
	148.8	323.25	102.6		191.1	38.36	103.5
	150.1	466.85	102.6		192.5	40.16	103.7
	151.5	548.54	102.7		193.8	41.04	103.7
	152.8	586.16	102.7		195.1	41.78	103.8
	154.1	605.92	102.7		196.5	43.09	103.8
	155.5	618.60	102.8		197.8	43.63	103.9
	156.8	627.69	102.8		199.1	43.69	104.0
	158.1	634.87	102.8		200.5	44.25	104.0
	159.5	640.99	102.8		201.8	44.76	104.1
	160.8	646.32	102.8		203.1	46.17	104.1

Printing every 8 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	204.5	45.74	104.2		253.3	325.53	105.7
	205.8	47.54	104.2		254.6	397.93	105.7
	207.1	47.61	104.3		256.0	447.58	105.7
	208.5	48.32	104.3		257.3	478.11	105.7
	209.8	48.62	104.3		258.6	497.44	105.7
	211.1	48.52	104.4		260.0	511.15	105.7
	212.5	50.46	104.4		261.3	521.30	105.7
	213.8	50.40	104.5		262.6	529.58	105.7
	215.1	49.41	104.5		264.0	536.65	105.8
	216.5	50.42	104.6		265.3	542.91	105.8
	217.8	51.10	104.6		266.6	548.54	105.8
	219.1	51.17	104.6		268.0	554.07	105.8
	220.5	52.60	104.7		269.3	558.63	105.8
	221.8	53.64	104.7		270.6	563.11	105.8
	223.1	52.98	104.8		272.0	567.47	105.8
	224.5	53.50	104.8		273.3	571.47	105.8
	225.8	53.84	104.9		274.6	575.44	105.8
	227.1	54.62	104.9		276.0	579.21	105.8
	228.5	55.91	104.9		277.3	582.97	105.9
	229.8	55.39	105.0		278.6	586.46	105.9
	231.1	56.13	105.0		280.0	589.59	105.9
	232.5	57.68	105.1		281.3	593.01	105.9
	233.8	58.33	105.2		282.6	595.87	105.9
	235.1	55.74	105.2		284.0	598.92	105.9
	236.5	57.97	105.2		285.3	601.83	105.9
	237.8	60.03	105.3		286.6	604.66	105.9
	239.1	59.34	105.3		288.0	607.42	105.9
	240.5	59.83	105.4		289.3	610.03	105.9
	241.8	60.67	105.4		290.6	612.78	106.0
	243.1	61.67	105.5		292.0	615.31	106.0
	244.5	61.30	105.5		293.3	617.78	106.0
	245.8	61.38	105.6		294.6	620.08	106.0
	247.1	60.97	105.6		296.0	622.51	106.0
	248.5	62.15	105.6		297.3	624.65	106.0
	248.6	62.87	105.6		298.6	626.99	106.0
Shut-In(2)	248.8	63.12	105.6		300.0	629.24	106.0
	249.0	66.53	105.7		301.3	631.34	106.1
	249.1	72.15	105.7		302.6	633.47	106.1
	249.3	77.61	105.7		304.0	635.43	106.1
	250.6	137.55	105.7		305.3	637.40	106.1
	252.0	233.22	105.7		306.6	639.40	106.1

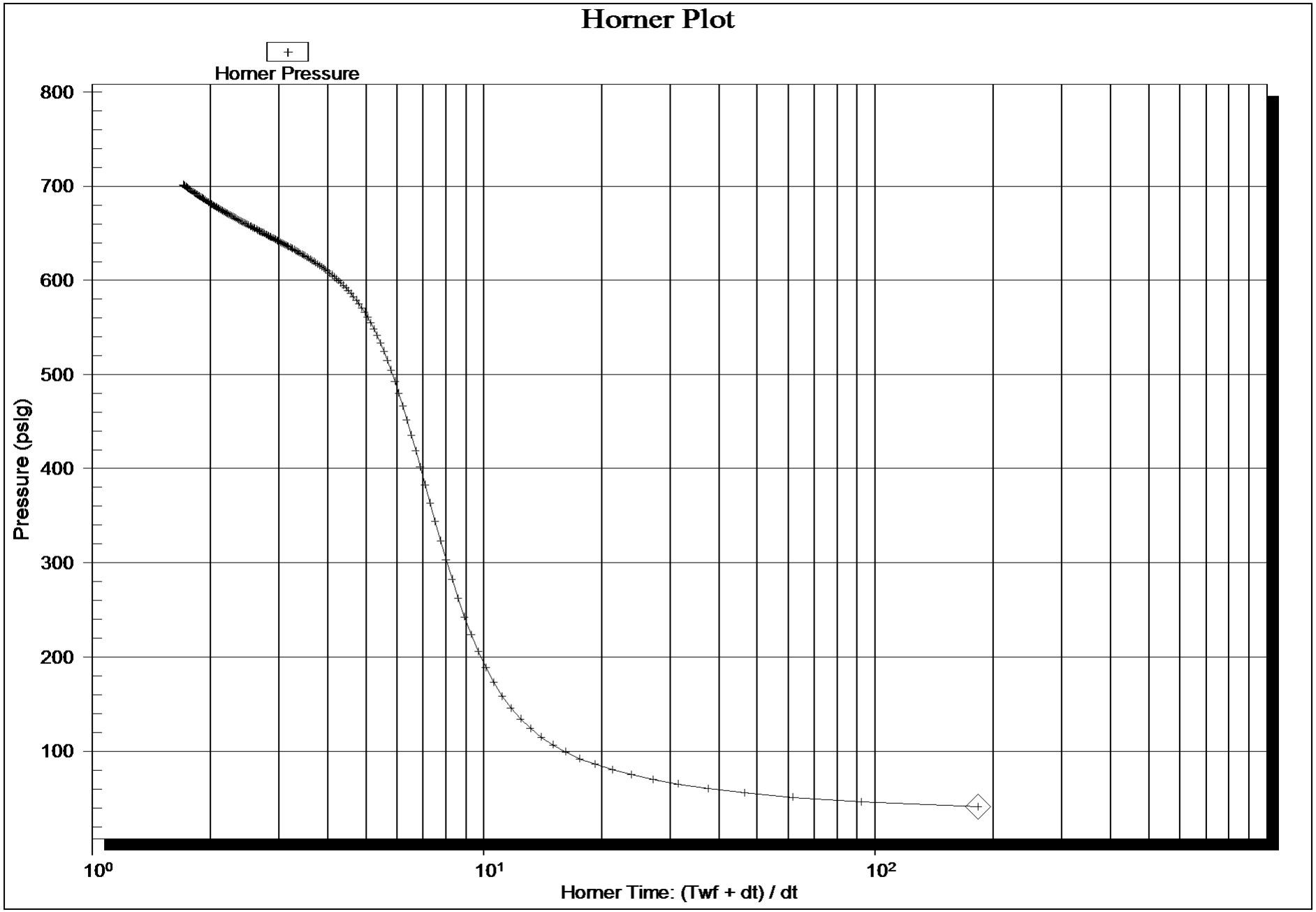
Printing every 8 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	308.0	641.29	106.1		350.6	1374.59	105.3
	309.3	643.15	106.1		352.0	1373.23	105.2
	310.6	644.97	106.1		353.3	1370.51	105.1
	312.0	646.70	106.1		354.6	1335.57	104.4
	313.3	648.56	106.2		356.0	1332.86	103.9
	314.6	650.23	106.2		357.3	1264.24	103.4
	316.0	651.98	106.2		358.6	1286.05	102.6
	317.3	653.64	106.2		360.0	1239.71	101.4
	318.6	655.28	106.2		361.3	1117.58	99.9
	320.0	656.87	106.2		362.6	1067.38	98.1
	321.3	658.46	106.2		364.0	1056.12	96.8
	322.6	660.04	106.2		365.3	1015.42	95.9
	324.0	661.61	106.3		366.6	909.35	94.8
	325.3	663.02	106.3		368.0	893.66	93.4
	326.6	664.43	106.3		369.3	857.09	92.7
	328.0	665.92	106.3		370.6	816.99	91.8
	329.3	667.31	106.3		372.0	780.72	90.9
	330.6	668.77	106.3		373.3	701.73	90.0
	332.0	670.10	106.3		374.6	708.00	88.8
	333.3	671.44	106.3		376.0	694.50	88.2
	334.6	672.73	106.4		377.3	662.44	87.4
	336.0	674.02	106.4		378.6	635.04	86.7
	337.3	675.29	106.4		380.0	604.95	86.1
	338.6	676.79	106.4		381.3	532.25	85.2
	338.8	676.87	106.4		382.6	524.31	84.3
End Shut-In(2)	339.0	677.00	106.4		384.0	497.00	83.8
	339.1	635.19	106.4		385.3	432.03	82.9
	339.3	1347.71	106.6		386.6	417.41	82.3
	339.5	1401.91	106.5		388.0	396.75	81.7
	340.8	1395.46	106.3		389.3	364.63	81.0
	342.1	1394.69	106.3		390.6	320.67	80.4
	343.1	1394.34	106.3		392.0	271.92	79.4
	343.3	1393.93	106.3		393.3	235.20	78.3
Final Hydro-static	343.5	1393.87	106.3		394.6	193.97	77.0
	343.6	1393.83	106.3		396.0	155.73	75.9
	343.8	1393.79	106.3		397.3	102.10	74.8
	344.0	1393.75	106.3		398.6	40.77	73.8
	345.3	1393.54	106.3		400.0	58.65	73.3
	346.6	1369.53	106.2		401.3	29.58	73.3
	348.0	1379.94	105.5		402.6	37.58	73.3
	349.3	1376.22	105.4		404.0	40.43	73.3

Printing every 8 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	405.3	15.56	73.2		460.0	1.09	54.3
	406.6	15.18	73.0		461.3	1.04	47.6
	408.0	9.21	72.9		462.6	1.02	45.9
	409.3	3.25	72.9		463.8	1.32	46.9
	410.6	2.59	72.6				
	412.0	2.77	72.3				
	413.3	2.75	72.2				
	414.6	2.79	72.2				
	416.0	2.79	72.2				
	417.3	2.77	72.2				
	418.6	2.77	72.2				
	420.0	2.82	72.2				
	421.3	2.84	72.1				
	422.6	2.78	72.1				
	424.0	2.72	72.1				
	425.3	2.72	72.0				
	426.6	2.74	72.0				
	428.0	2.70	72.0				
	429.3	2.68	71.9				
	430.6	2.72	71.9				
	432.0	2.75	71.8				
	433.3	2.75	71.8				
	434.6	2.72	71.7				
	436.0	2.56	71.7				
	437.3	2.42	71.0				
	438.6	1.85	63.1				
	440.0	2.08	63.5				
	441.3	2.07	62.8				
	442.6	1.91	62.2				
	444.0	1.80	61.4				
	445.3	1.75	60.7				
	446.6	1.81	60.3				
	448.0	1.78	59.7				
	449.3	1.73	59.1				
	450.6	1.74	58.6				
	452.0	1.72	58.3				
	453.3	1.75	58.0				
	454.6	1.75	57.7				
	456.0	1.72	57.2				
	457.3	1.65	56.9				
	458.6	1.37	56.4				

Printing every 8 samples



Serial Number: 8369 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1

DRILL STEM TEST REPORT

Prepared For: **AGV Corporation**

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

Busenitz #1-28

28/24S/3E Butler, KS

Start Date: 2019.10.25 @ 18:30:00
End Date: 2019.10.26 @ 00:17:39
Job Ticket #: 65410 DST #: 3

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

Printed: 2020.01.20 @ 13:35:16

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:06:40
Time Test Ended: 00:17:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2790.00 ft (KB) To 2806.00 ft (KB) (TVD)
Total Depth: 2806.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

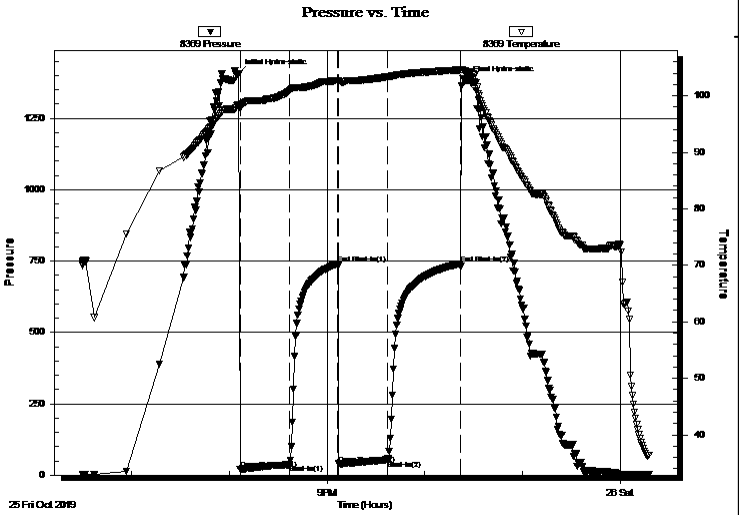
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 53.61 psig @ 2791.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.26
Start Time: 18:30:01 End Time: 00:17:40

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.25 @ 20:05:50
Time Off Btm: 2019.10.25 @ 22:25:50

TEST COMMENT: IF - Weak blow building to 1/2 inch during initial flow period.
FF - Weak blow building to 1/2 inch during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1406.59	98.41	Initial Hydro-static
1	19.32	97.67	Open To Flow (1)
32	36.52	100.92	Shut-In(1)
61	740.93	102.68	End Shut-In(1)
62	39.67	102.50	Open To Flow (2)
92	53.61	103.34	Shut-In(2)
137	741.26	104.57	End Shut-In(2)
140	1381.91	104.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM Tr O & 100% M	0.37

Gas Rates

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

DRILL STEM TEST REPORT

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:06:40
Time Test Ended: 00:17:39

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2790.00 ft (KB) To 2806.00 ft (KB) (TVD)
Total Depth: 2806.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

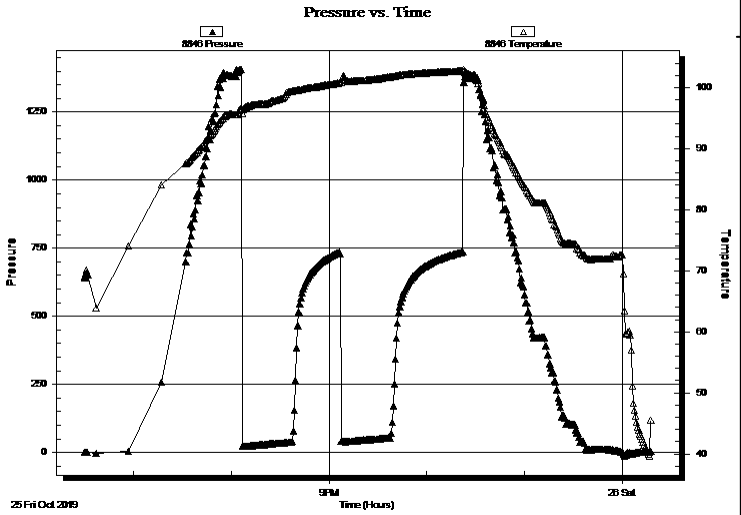
Reference Elevations: 1384.00 ft (KB)
1375.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: psig @ 2791.00 ft (KB)
Start Date: 2019.10.25 End Date: 2019.10.26
Start Time: 18:30:01 End Time: 00:17:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 1/2 inch during initial flow period.
FF - Weak blow building to 1/2 inch during final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OSM Tr O & 100% M	0.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

Tool Information

Drill Pipe:	Length:	2585.00 ft	Diameter:	3.80	inches	Volume:	36.26	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	
Drill Collar:	Length:	184.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	
						Total Volume:	37.16	bbl	

Drill Pipe Above KB:	7.00 ft
Depth to Top Packer:	2790.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	16.00 ft
Tool Length:	44.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2400.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		59000.00 lb
Tool Chased		1.00 ft
String Weight:	Initial	58000.00 lb
	Final	58000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2763.00		
Shut In Tool	5.00			2768.00		
Hydraulic tool	5.00			2773.00		
Jars	5.00			2778.00		
Safety Joint	3.00			2781.00		
Packer	5.00			2786.00	28.00	Bottom Of Top Packer
Packer	4.00			2790.00		
Stubb	1.00			2791.00		
Recorder	0.00	8369	Outside	2791.00		
Recorder	0.00	8846	Inside	2791.00		
Perforations	10.00			2801.00		
Bullnose	5.00			2806.00	16.00	Bottom Packers & Anchor
Total Tool Length:	**44.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377

ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OSM Tr O & 100% M	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

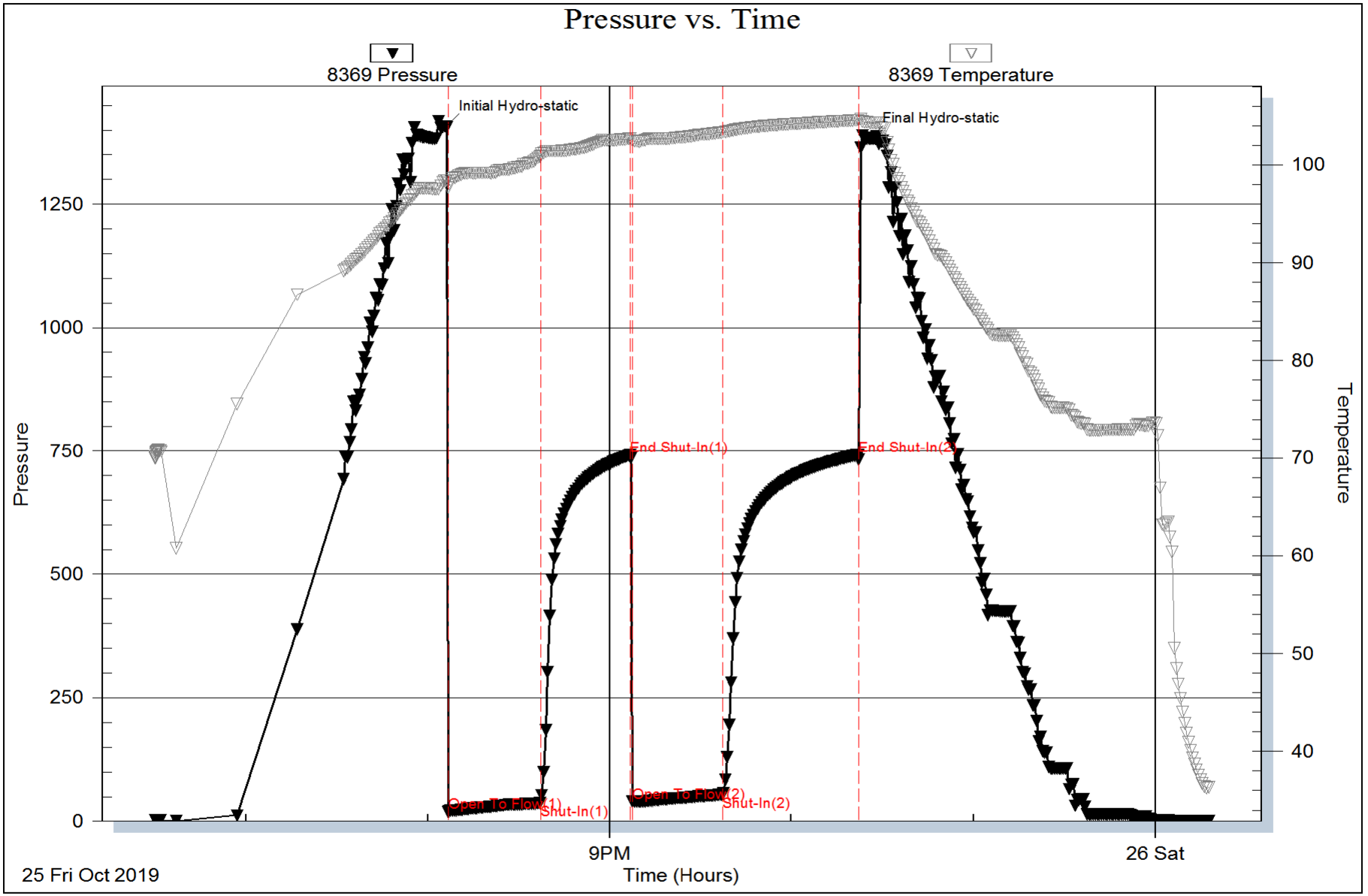
Test Start: 2019.10.25 @ 18:30:00

Gas Rates Information

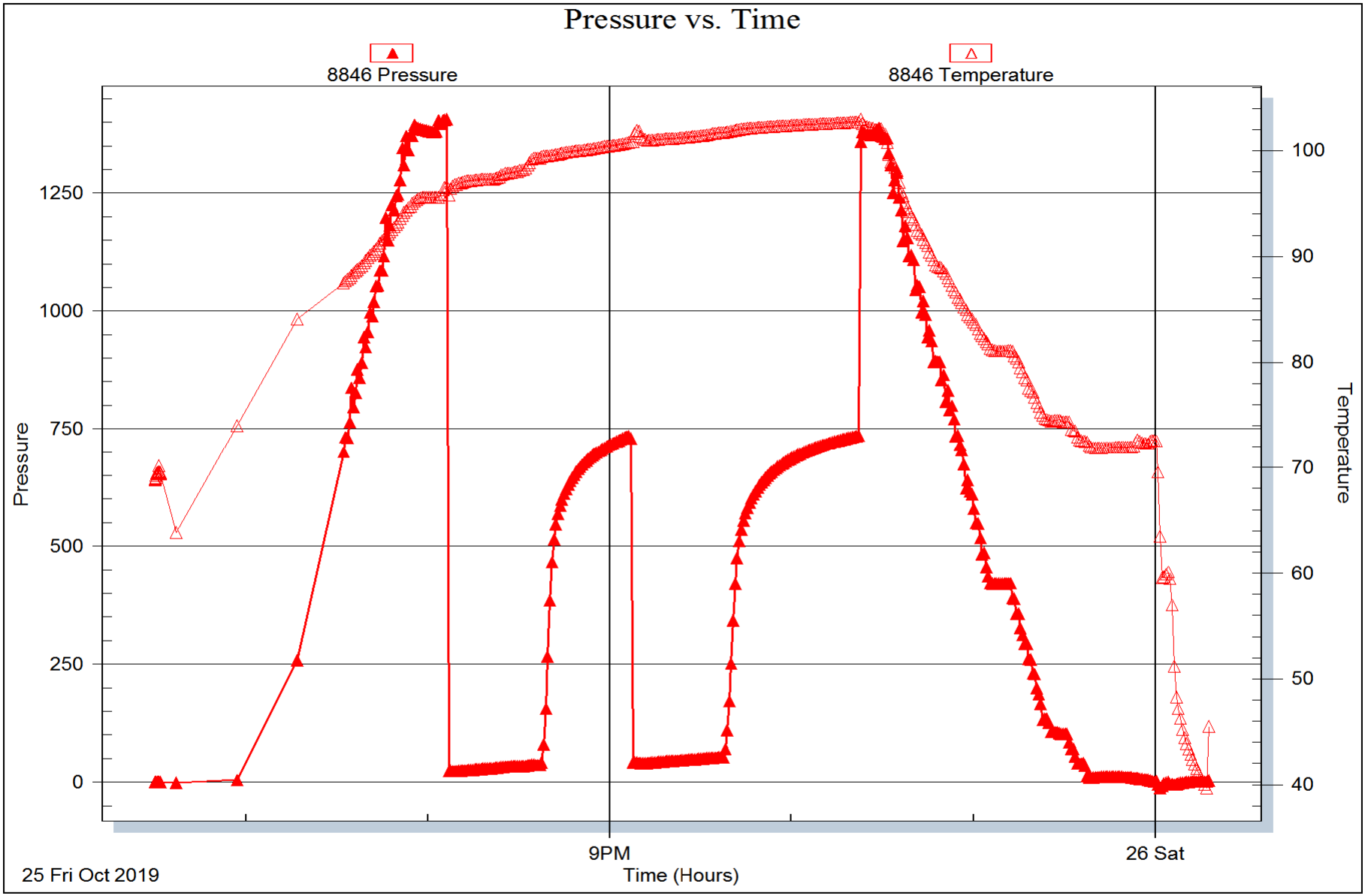
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
0
250
500
750
1000
1250
40
50
60
70
80
90
100
9PM
26 Sat
25 Fri Oct 2019
Time (Hours)

Serial #: 8846 **Inside** AGV Corporation Busenitz #1-28 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 65410 Printed: 2020.01.20 @ 13:35:16

DRILL STEM TESTING - DATA LISTING

AGV Corporation

123 North Main
P.O. Box 377
Attica, KS. 67009-0377
ATTN: Kent Roberts

28/24S/3E Butler, KS

Busenitz #1-28

Job Ticket: 65410 **DST#: 3**

Test Start: 2019.10.25 @ 18:30:00

Serial # 8369 **Outside**				**Serial # 8369** **Outside**			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	2.57	69.9		73.1	1055.38	92.6
	0.1	2.53	70.1		74.1	1087.39	93.0
	0.2	2.59	70.4		75.1	1145.21	93.2
	0.3	2.58	70.6		76.1	1171.96	93.6
	0.4	2.57	70.8		77.1	1187.56	93.9
	0.5	2.58	70.8		78.1	1240.08	94.3
	0.6	2.59	70.8		79.1	1279.69	94.6
	0.7	2.62	70.8		80.1	1292.27	95.0
	0.8	2.65	70.9		81.1	1278.59	95.5
	0.9	2.65	70.9		82.1	1310.55	95.9
	1.0	2.68	70.9		83.1	1342.29	96.3
	1.1	2.70	70.9		84.1	1294.17	96.5
	1.2	2.72	70.9		85.1	1420.95	97.0
	1.3	2.70	70.9		86.1	1389.58	97.3
	1.4	2.69	70.9		87.1	1388.03	97.6
	1.5	2.74	70.8		88.1	1386.24	97.6
	1.6	2.78	70.7		89.1	1384.88	97.6
	1.7	2.75	70.9		90.1	1383.69	97.6
	1.8	2.72	70.9		91.1	1382.73	97.6
	1.9	2.71	70.7		92.1	1382.64	97.5
	7.0	1.16	60.8		93.1	1424.53	97.5
	37.0	137.43	83.6		94.1	1404.86	97.9
	62.2	692.58	89.1		95.1	1405.90	98.3
	63.2	736.86	89.4		95.5	1407.82	98.4
	64.1	769.12	89.7		95.6	1407.07	98.4
	65.1	801.26	90.0	Initial Hydro-static	95.8	1406.59	98.4
	66.1	832.70	90.3		96.0	1406.63	98.4
	67.1	864.14	90.6		96.1	1406.10	98.4
	68.1	896.18	90.9		96.3	1405.90	98.5
	69.1	928.22	91.2		96.5	1409.82	98.5
	70.1	960.02	91.6	Open To Flow (1)	96.6	19.32	97.7
	71.1	991.70	91.9		96.8	20.88	98.1
	72.1	1023.39	92.3		97.0	21.08	98.2

Printing every 6 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	97.1	21.22	98.3		133.5	597.47	101.4
	98.1	21.66	98.6		134.5	616.89	101.4
	99.1	21.65	98.8		135.5	632.29	101.5
	100.1	22.36	98.9		136.5	645.01	101.5
	101.1	23.11	99.1		137.5	655.91	101.6
	102.1	24.12	99.1		138.5	665.15	101.6
	103.1	24.63	99.2		139.5	673.42	101.6
	104.1	25.44	99.2		140.5	680.77	101.7
	105.1	26.12	99.2		141.5	687.39	101.8
	106.1	26.78	99.2		142.5	693.35	101.9
	107.1	27.55	99.2		143.5	698.71	102.0
	108.1	28.39	99.2		144.5	703.76	102.1
	109.1	28.62	99.2		145.5	708.32	102.3
	110.1	29.01	99.2		146.5	712.42	102.4
	111.1	30.13	99.2		147.5	716.33	102.5
	112.1	30.64	99.2		148.5	719.64	102.5
	113.1	31.12	99.4		149.5	722.82	102.5
	114.1	31.69	99.5		150.5	725.90	102.5
	115.1	32.63	99.5		151.5	728.68	102.5
	116.1	33.38	99.5		152.5	731.43	102.6
	117.1	33.63	99.6		153.5	734.24	102.6
	118.1	33.79	99.7		154.5	736.50	102.6
	119.1	33.67	99.7		155.5	738.75	102.6
	120.1	33.90	99.8		156.2	740.18	102.7
	121.1	34.70	100.0		156.3	740.78	102.7
	122.1	34.99	100.1	End Shut-In(1)	156.5	740.93	102.7
	123.1	34.97	100.2		156.7	733.83	102.7
	124.1	35.26	100.3		156.8	735.18	102.7
	125.1	35.53	100.4		157.0	701.99	102.7
	126.1	36.30	100.7		157.2	160.10	102.4
	126.6	36.39	100.8	Open To Flow (2)	157.3	39.67	102.5
	126.8	36.44	100.8		157.5	39.52	102.5
Shut-In(1)	127.0	36.52	100.9		157.7	39.58	102.5
	127.1	39.62	101.0		157.8	39.61	102.5
	127.3	45.57	101.1		158.8	39.74	102.4
	127.5	52.82	101.1		159.8	40.08	102.4
	128.5	137.17	101.3		160.8	40.56	102.5
	129.5	301.97	101.4		161.8	40.91	102.6
	130.5	456.60	101.4		162.8	41.55	102.7
	131.5	531.67	101.4		163.8	41.92	102.7
	132.5	571.64	101.4		164.8	42.61	102.7

Printing every 6 samples

Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	165.8	43.13	102.7		201.8	657.10	104.0
	166.8	43.68	102.7		202.8	663.40	104.0
	167.8	44.31	102.7		203.8	669.17	104.0
	168.8	44.87	102.7		204.8	674.42	104.1
	169.8	45.41	102.7		205.8	679.21	104.1
	170.8	46.06	102.7		206.8	683.58	104.1
	171.8	46.55	102.8		207.8	687.82	104.1
	172.8	46.80	102.8		208.8	691.64	104.1
	173.8	47.27	102.8		209.8	695.24	104.2
	174.8	47.80	102.9		210.8	698.95	104.2
	175.8	48.28	102.9		211.8	701.91	104.2
	176.8	48.84	102.9		212.8	705.10	104.2
	177.8	49.34	103.0		213.8	707.89	104.3
	178.8	49.85	103.0		214.8	710.36	104.3
	179.8	50.29	103.1		215.8	712.93	104.3
	180.8	50.77	103.1		216.8	715.29	104.3
	181.8	51.36	103.1		217.8	717.61	104.3
	182.8	51.74	103.2		218.8	719.78	104.3
	183.8	52.20	103.2		219.8	721.95	104.4
	184.8	52.64	103.2		220.8	723.77	104.4
	185.8	53.34	103.3		221.8	725.67	104.4
	186.8	53.54	103.3		222.8	727.60	104.4
	187.0	53.58	103.3		223.8	729.33	104.4
	187.2	53.62	103.3		224.8	730.98	104.4
Shut-In(2)	187.3	53.61	103.3		225.8	732.60	104.5
	187.5	56.77	103.3		226.8	734.23	104.5
	187.7	62.52	103.4		227.8	735.63	104.5
	187.8	68.88	103.4		228.8	737.11	104.5
	188.8	129.52	103.4		229.8	738.46	104.5
	189.8	235.99	103.5		230.8	739.84	104.5
	190.8	370.36	103.5		231.7	741.05	104.6
	191.8	470.47	103.6		231.8	741.17	104.6
	192.8	525.59	103.7	End Shut-In(2)	232.0	741.26	104.6
	193.8	558.24	103.7		232.2	731.66	104.6
	194.8	580.73	103.7		232.3	1356.25	104.8
	195.8	597.89	103.8		232.5	1364.70	104.8
	196.8	611.81	103.8		233.5	1389.43	104.5
	197.8	623.40	103.9		234.5	1383.23	104.4
	198.8	633.50	103.9		235.5	1382.31	104.3
	199.8	642.31	103.9		235.7	1382.25	104.3
	200.8	650.04	104.0	Final Hydro-static	235.8	1381.91	104.3

Printing every 6 samples

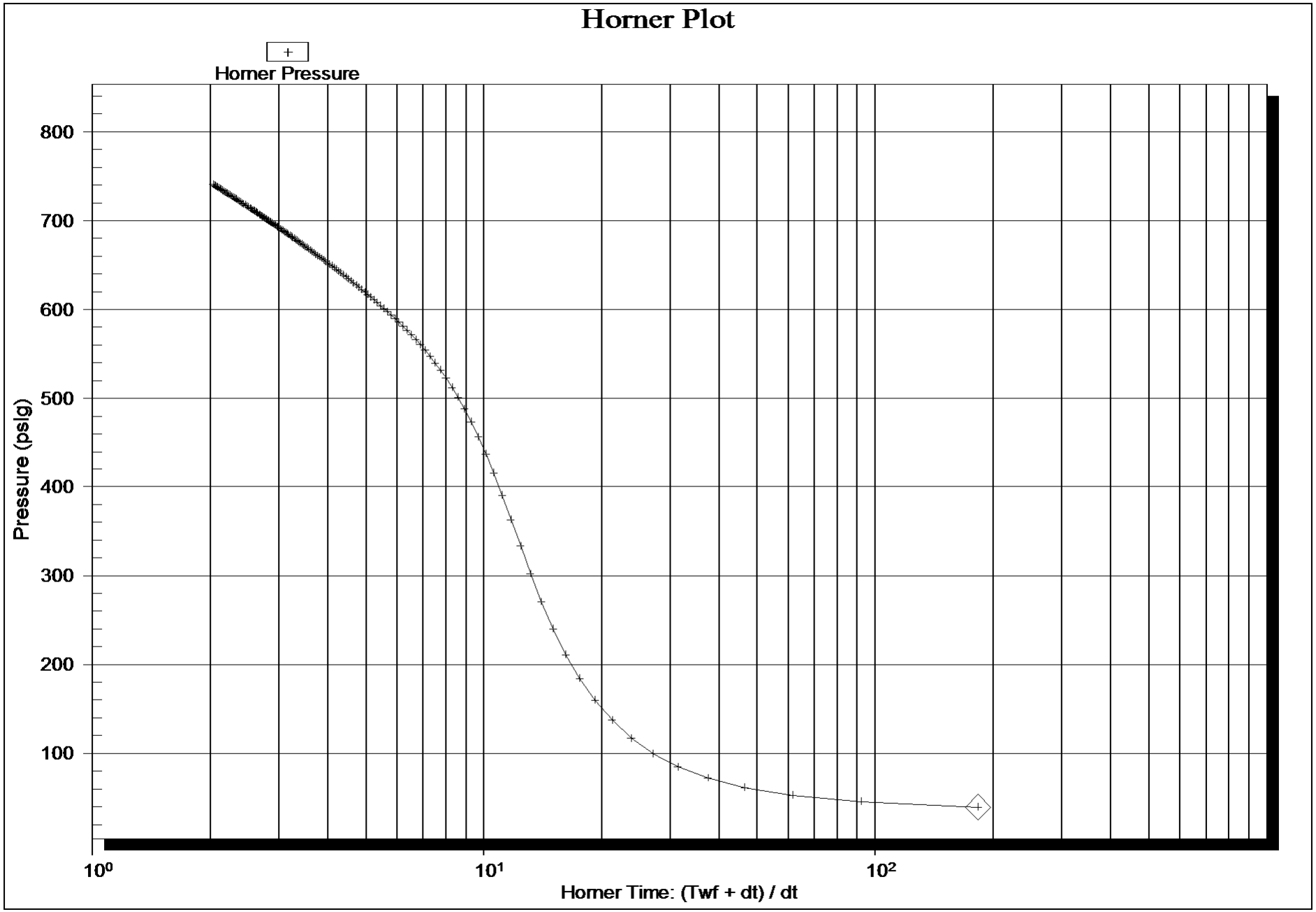
Serial # 8369 Outside				Serial # 8369 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	236.0	1381.88	104.3		275.3	426.50	82.8
	236.2	1381.85	104.3		276.3	425.64	82.6
	236.3	1381.81	104.3		277.3	425.35	82.6
	237.3	1382.45	104.3		278.3	425.23	82.6
	238.3	1444.77	104.3		279.3	425.14	82.6
	239.3	1377.59	104.0		280.3	425.05	82.6
	240.3	1376.06	103.8		281.3	425.01	82.6
	241.3	1317.00	103.0		282.3	410.09	82.6
	242.3	1259.41	101.3		283.3	394.53	82.1
	243.3	1258.45	100.3		284.3	362.64	81.5
	244.3	1221.76	99.1		285.3	331.33	80.9
	245.3	1250.37	98.4		286.3	299.51	80.2
	246.3	1219.50	97.7		287.3	298.58	79.7
	247.3	1187.81	96.9		288.3	266.75	78.9
	248.3	1156.62	96.2		289.3	233.44	78.7
	249.3	1124.82	95.6		290.3	217.18	78.0
	250.3	1093.39	95.0		291.3	189.67	77.2
	251.3	1060.80	94.3		292.3	170.71	76.5
	252.3	1057.97	94.1		293.3	138.89	75.9
	253.3	1028.61	93.5		294.3	138.81	75.8
	254.3	997.24	93.0		295.3	106.50	75.3
	255.3	965.55	92.3		296.3	106.78	75.2
	256.3	933.79	91.7		297.3	106.59	75.2
	257.3	901.90	91.0		298.3	106.52	75.2
	258.3	899.62	90.8		299.3	106.52	75.2
	259.3	877.07	90.7		300.3	106.49	75.2
	260.3	869.95	90.3		301.3	85.33	75.1
	261.3	838.60	89.7		302.3	74.65	74.4
	262.3	807.07	89.1		303.3	57.42	74.3
	263.3	774.75	88.6		304.3	43.64	73.7
	264.3	747.69	88.1		305.3	44.10	73.6
	265.3	738.38	87.6		306.3	44.18	73.6
	266.3	665.33	87.2		307.3	14.08	73.1
	267.3	631.56	86.6		308.3	14.19	72.9
	268.3	647.36	86.1		309.3	14.29	72.9
	269.3	615.80	85.7		310.3	14.36	72.9
	270.3	584.39	85.2		311.3	14.37	72.9
	271.3	553.35	84.7		312.3	14.36	72.9
	272.3	521.45	84.2		313.3	14.32	72.9
	273.3	490.17	83.8		314.3	14.25	72.9
	274.3	458.16	83.3		315.3	14.18	72.9

Printing every 6 samples

Serial # 8369 **Outside**

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	316.3	14.12	72.9
	317.3	14.04	72.9
	318.3	13.96	73.0
	319.3	13.90	73.0
	320.3	13.83	73.0
	321.3	13.29	73.0
	322.3	12.03	73.0
	323.3	7.89	73.3
	324.3	9.12	73.5
	325.3	9.36	73.4
	326.3	9.39	73.4
	327.3	8.18	73.3
	328.3	3.41	73.6
	329.3	2.38	73.7
	330.3	2.19	73.3
	331.3	1.56	69.5
	332.3	1.65	63.1
	333.3	1.59	63.3
	334.3	1.49	63.5
	335.3	1.36	60.4
	336.3	1.04	49.8
	337.3	0.79	47.3
	338.3	0.72	45.1
	339.3	0.79	43.1
	340.3	0.90	41.6
	341.3	0.98	40.3
	342.3	1.07	39.2
	343.3	1.15	38.3
	344.3	1.22	37.5
	345.3	1.30	36.8
	346.3	1.32	36.3
	347.3	1.42	36.4
	347.6	1.87	37.9

Printing every 6 samples



Serial Number: 8369 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1