KOLAR Document ID: 1485595

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 # 5920
Name: Bandy, Terry P. dba Te-Pe Oil & Gas
Address 1: PO BOX 522
Address 2:
City: CANTON State: KS Zip: 67428 + 0522
Contact Person: Terry P Bandy
Phone: (620) 628-4428
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Douglas V. Davis Jr.
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 #:

11/26/2019 Spud Date or Recompletion Date
12/05/2019 Date Reached TD
12/20/2019 Completion Date or Recompletion Date

API No.: 15-115-21506-00-00
Spot Description:
_ - SE - SE - SW Sec. 13 Twp. 21 S. R. 4 ☑ East ☐ West
330 Feet from ☐ North / ☑ South Line of Section
2970 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: Marion
Lease Name: CEDAR SPRINGS TRUST Well #: 2
Field Name: Florence
Producing Formation: Arbuckle
Elevation: Ground: 1288 Kelly Bushing: 1297
Total Vertical Depth: 2745 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 207 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: 1100 ppm Fluid volume: 1575 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:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 12/31/2019

Operator Name: Bandy, Terry P. dba Te-Pe Oil & Gas Lease Name: CEDAR SPRINGS TRUST Well #: 2

Sec. 13 Twp. 21 S. R. 4 ☑ East ☐ West County: Marion

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:

GRN W/TOC

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

Name	Top	Datum
BKC	1978	-681
Mississippi	2131	-834
Hunton	2325	-1023
Viola	2330	-1028
Simpson	2390	-1088
Arbuckle	2475	-1178

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	12.25	9.625	40	207	Class A	100	3% Cal, 2% Gel
Production	7.875	5.5	17	2535	60/40 Pozmix	165	4% Gel, 2% Cal, 2" Phenoseal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	2535	2745

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)*
					Acid 2000 gal 15% HCL 2535-2745

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.875	2512	2512	

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

Form	ACO1 - Well Completion
Operator	Bandy, Terry P. dba Te-Pe Oil & Gas
Well Name	CEDAR SPRINGS TRUST 2
Doc ID	1485595

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	12.25	9.625	40	207	Class A	100	3% Cal, 2% Gel
Production	7.875	5.5	17	2535	60/40 Pozmix	165	4% Gel, 2% Cal, 2" Phenoseal

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Last Fracture Date:	
County:	
API Number (14 Digits):	
Operator Name:	
Well Name and Number:	
Latitude:	
Longitude:	
Datum:	
Production Type:	
True Vertical Depth (TVD):	
Total Base Fluid Volume (gal)*:	

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Authorized Representative's Name, Address and Phone Number
			No fracking done				
Ingredients shown above are subject to 29 CRF 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							

*Total Water Volume sources may include fresh water, produced water, and/or recycled water. **Information is based on the maximum potential for concentration and thus the total may be over 100%.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers' Material Safety Data Sheets (MSDS).

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

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4848**
Foreman Kevin McCoy
Camp Eureka

API # 15-115-21506-00-00

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-26-19	1152	Cedar Springs Trust #2	13	21S	4E	Marion	Ks

Customer: Te-Pe Oil & Gas
Mailing Address: P.O. Box 522
City: Canton | State: Ks | Zip Code: 67428

Safety Meeting: KM AM JV

Unit #	Driver	Unit #	Driver
104	Alan M.		
112	Josh V.		

Job Type Surface | Hole Depth 222' K.B. | Slurry Vol. 24 BbL | Tubing
Casing Depth 207' G.L. | Hole Size 12¼" | Slurry Wt. 15# | Drill Pipe
Casing Size & Wt. 9⅝ ~~36~~ 40# | Cement Left in Casing 15' | Water Gal/SK | Other
Displacement 15.5 BbL | Displacement PSI | Bump Plug to | BPM

Remarks: Safety Meeting: Rig up to 9⅝" Casing. Break Circulation w/ 10 Bbl fresh water. Mixed 100 sks Class "A" Cement w/ 3% CaCl2, 2% Gel, @ 15#/gal = 24 Bbl Slurry. Displace w/ 15.5 Bbl fresh water. Shut Casing in. Good Cement Returns to Surface = 7 Bbl Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	890.00	890.00
C 107	30	Mileage	4.20	126.00
C 200	100 sks	Class "A" Cement	15.75	1575.00
C 205	280 #	CaCl2 3%	.63#	176.40
C 206	190 #	Gel 2%	.21#	39.90
C 108 A	4.7 Tons	Ton Mileage	M/c	365.00
			Sub Total	3172.30
		Thank You	Less 5%	165.33
		7.5%	Sales Tax	134.35
			Total	3141.32

Authorization By Terry Brandi 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.

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

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4859**
Foreman David Gardner
Camp Eureka

API # 15-115-21506

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-6-19	1152	Cedar Springs Trust #2	13	21 S.	4 E.	Marion	KS

Customer: Te-Pe Oil & Gas
Mailing Address: P.O. Box 522
City: Canton | State: KS | Zip Code: 67428
Safety Meeting: DG JH JV

Unit #	Driver	Unit #	Driver
105	Jason		
112	Josh		

Job Type Longstring | Hole Depth 2745' | Slurry Vol. 41 Bbl | Tubing
Casing Depth 2523' | Hole Size 7 7/8" | Slurry Wt. 14# | Drill Pipe
Casing Size & Wt. 5 1/2" 17# | Cement Left in Casing 20' S.J. | Water Gal/SK 6.5 | Other
Displacement 60 1/2 Bbl | Displacement PSI 500 | Bump Plug to 900 | BPM

Remarks: Safety Meeting. Rig up to 5 1/2" casing. Set Basket Shoe w/ 900 PSI. Break circulation w/ 15 Bbl fresh water. Mixed 165 SKS 60/40 Pozmix Cement w/ 4% Gel, 2% Cacl2, 2# Phenoseal /sk @ 14#/gal, yield 1.40 = 41 Bbl slurry. Wash out pump & lines. Shut down. Release 5 1/2" Rubber plug. Displace plug to seat w/ 60 1/2 Bbl fresh water. Final pumping pressure of 500 PSI. Bump plug to 900 PSI. Wait 2 mins. Released pressure. Float & Plug held good. Good circulation @ all times while cementing. Job complete. Rig down.

Plug Rathole w/ 30 SKS & Mousehole w/ 20 SKS
Centralizers on #1, 2, 4, 5, 6 Baskets on #10, 22

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	215 SKS	60/40 Pozmix Cement	13.40	2881.00
C206	740#	Gel @ 4%	.21	155.40
C205	370#	Cacl2 @ 2%	.63	233.10
C208	430#	Phenoseal @ 2#/sk	1.30	559.00
C108B	9.24 Tons	Ton Mileage - Bulk Truck	1.40	388.08
C761	1	5 1/2 Type B Basket Shoe	1355.00	1355.00
C504	5	5 1/2 x 7 7/8 Centralizers	50.00	250.00
C604	2	5 1/2 Cement Baskets	236.00	472.00
C404	1	5 1/2 Top Rubber Plug	74.00	74.00
C721	1	5 1/2 Inverted Insert	49.00	49.00
		Thank You	Sub Total	7,642.58
			Less 5%	404.74
		7.5 %	Sales Tax	452.14
			Total	7,689.98

Authorization Terry Bardy Title Open.

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.

GEOLOGICAL REPORT

DRILLING TIME & SAMPLE DESCRIPTION

REPORT PREPARED BY: DOUGLAS V. DAVIS JR.

DOUGLAS V. DAVIS JR.
LICENSED GEOLOGIST
KANSAS # 482

CERTIFIED PETROLEUM GEOLOGIST #6326

OPERATOR TE-PE Oil & Gas Company

LEASE Cedar Springs Trust #2
API # 15-115-21506-00-00

FIELD Peabody

LOCATION SE-SE-SW

SEC. 13 TWNSP. 21 S RANGE 4E

COUNTY Marion STATE Kansas

ELEVATION

K.B. 1297'

D.F.

G.L. 1288'

DEPTH MEASURED FROM KB

CONTRACTOR C & G DRILLING RIG # 2

SPUD 11/26/2019 COMP. 12/5/2019

LTD RTD 2745' MUD UP 2000'

SAMPLE SAVED FROM 2000' TO RTD

DRILLING TIME FROM 1958' TO RTD

CASING

SURFACE 9-5/8' 207'Set @ 218' w/100 ssx. com.

PRODUCTION ~~2745'~~ 2522 KB of 5-1/2"

LOGGING

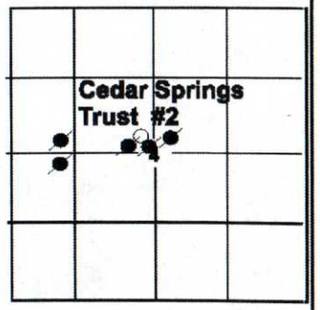
FORMATION	SAMPLE	ELOG	DATUM
B/ KC	1978		-681
MISSISSIPPIAN	2131		-834
Kinderhook	2174		-877
HUNTON	2325		-1023
VIOLA	2330		-1028
Simpson	2390		-1088
ARBUCKLE	2475		-1178

REFERENCE WELLS

A. DRILLERS & PRODUCERS #3 ORLANDO SE SE SW 4-22S-4E

B.

C.



REMARKS It was recommended this test have production casing set.

DST

DST #1 2321-2330 Mizener/Hunton
15"-30"-15"-35"
Rec- 1080' Salt Water, w/Trace oil
745' VSO & MCW, 95' SO & WCM
BHT 96 degrees
IHP 1133# FHP 1114#
IFP 226-662# FFP 670-866#
ISIP 952# FSIP 952#

DST #2 2330-2334 Viola
30"-60"-30"-60"
Rec- 300' Trace Oil & SMCW
20' VSO OCM
BHT 97 degrees
IHP 1138# FHP 1118#
IFP 20-114# FFP 115-160#
ISIP 957# FSIP 957#

LEGEND

LIMESTONE | SANDSTONE | DOLOMITE | SHALE | BLK SHALE | CHERT | ANH./GYPSUM

DRILLING TIME IN MINUTES PER FOOT

5" 10" 15" 20"

1950

LITHOLOGY

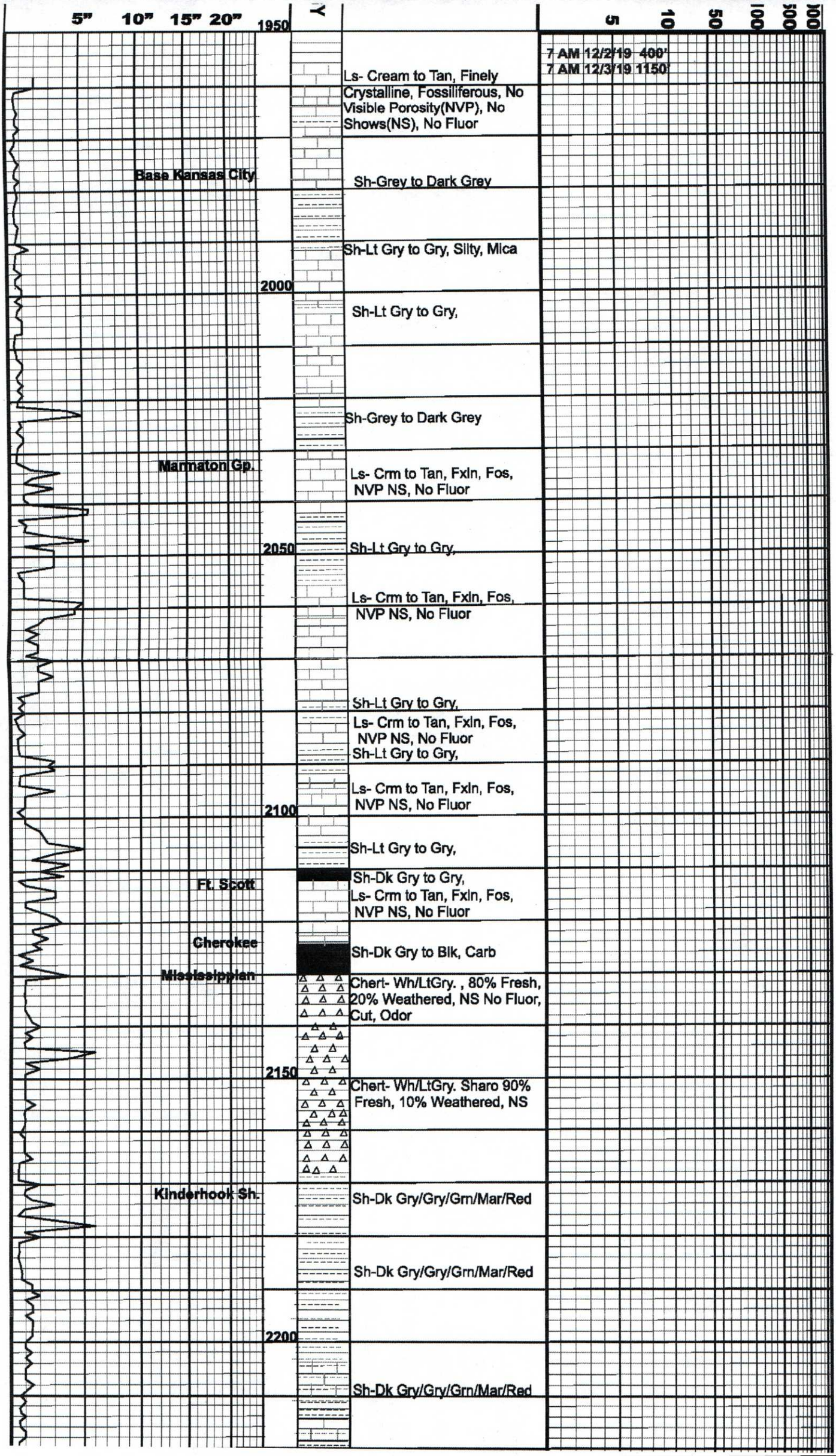
SAMPLE DESCRIPTION

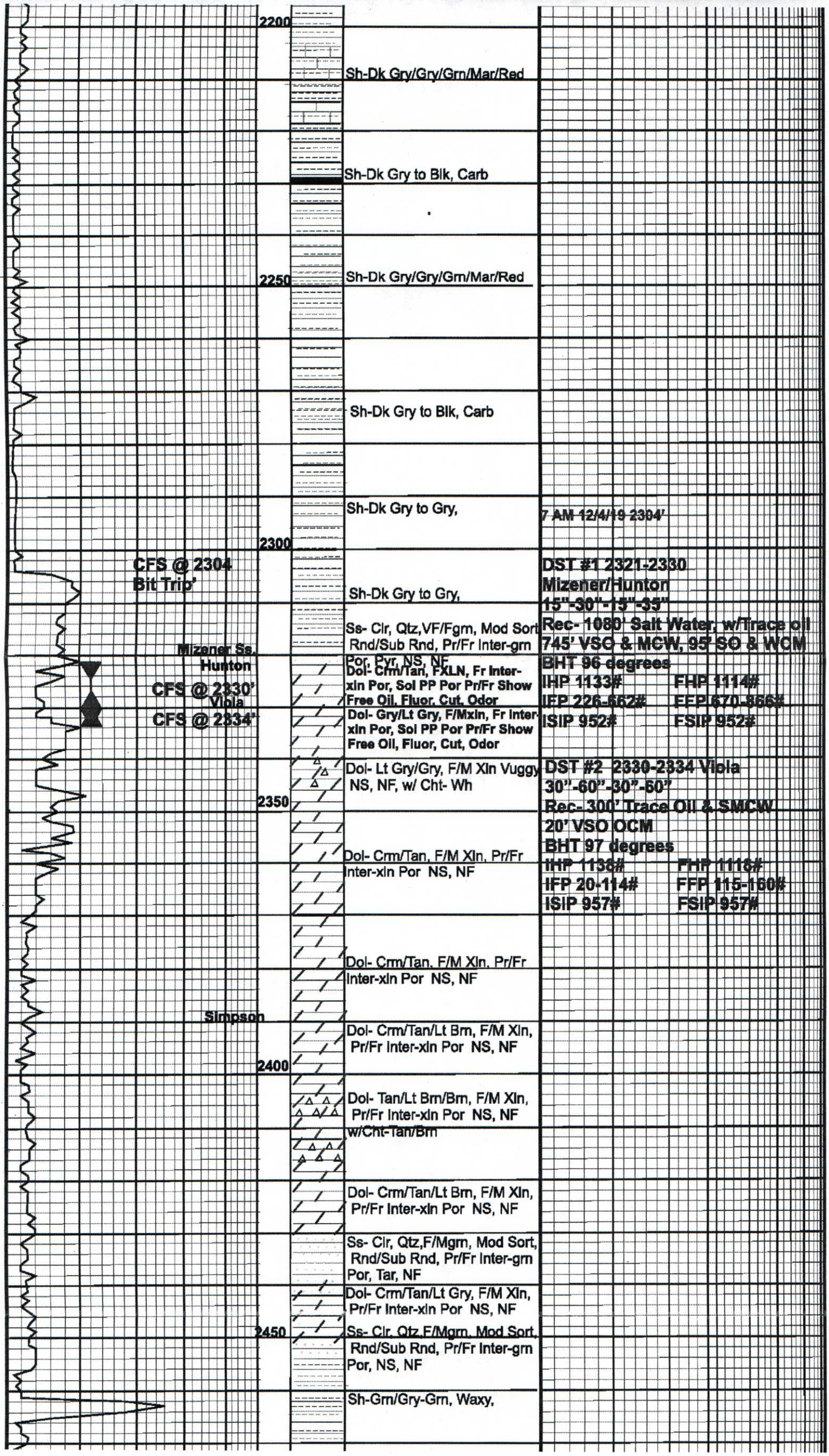
Ls- Cream to Tan, Finely Crystalline, Fossiliferous, No Visible Porosity(NVP), No Shows(NS), No Fluor

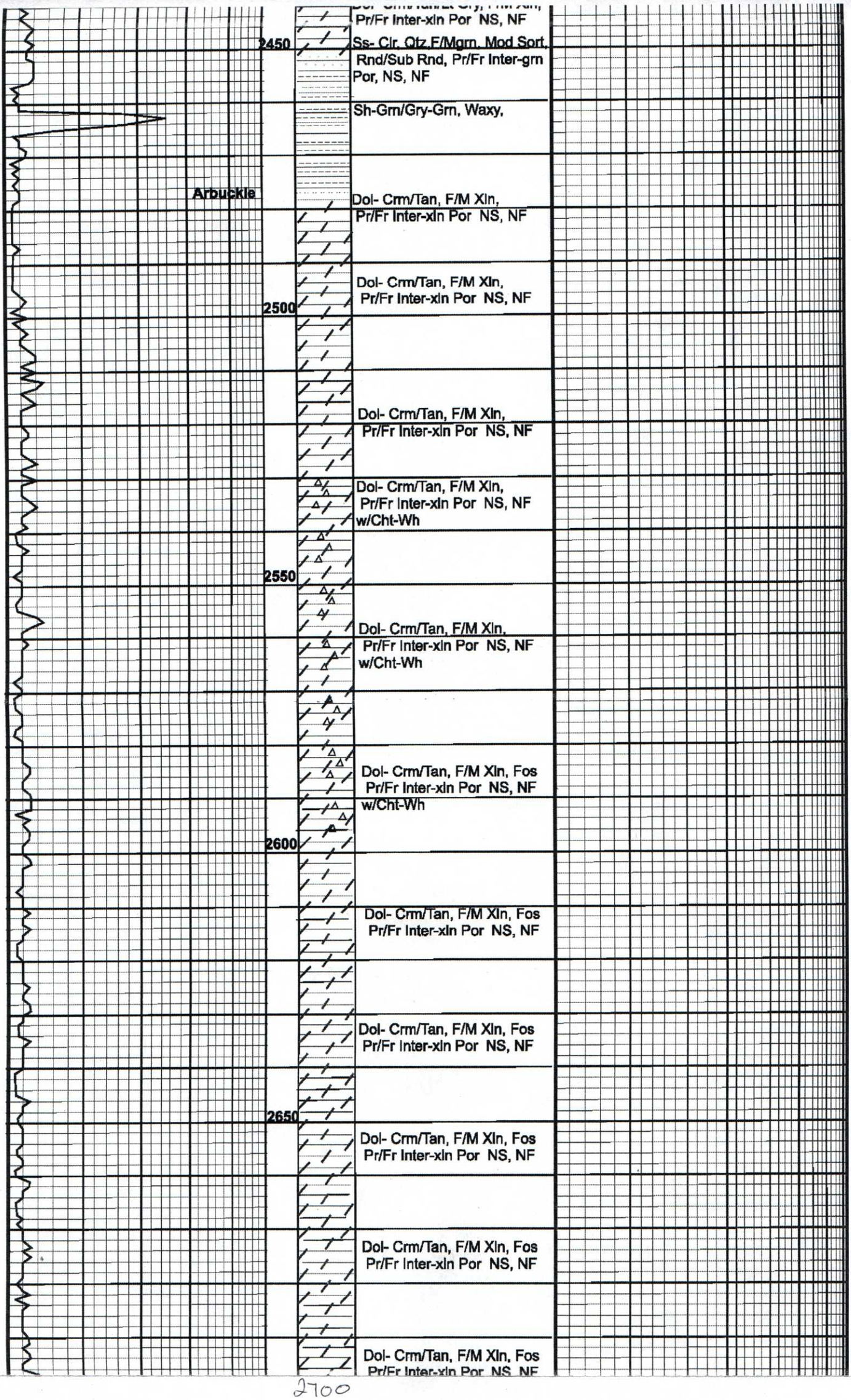
HOT WIRE

1000
500
100
50
10
5

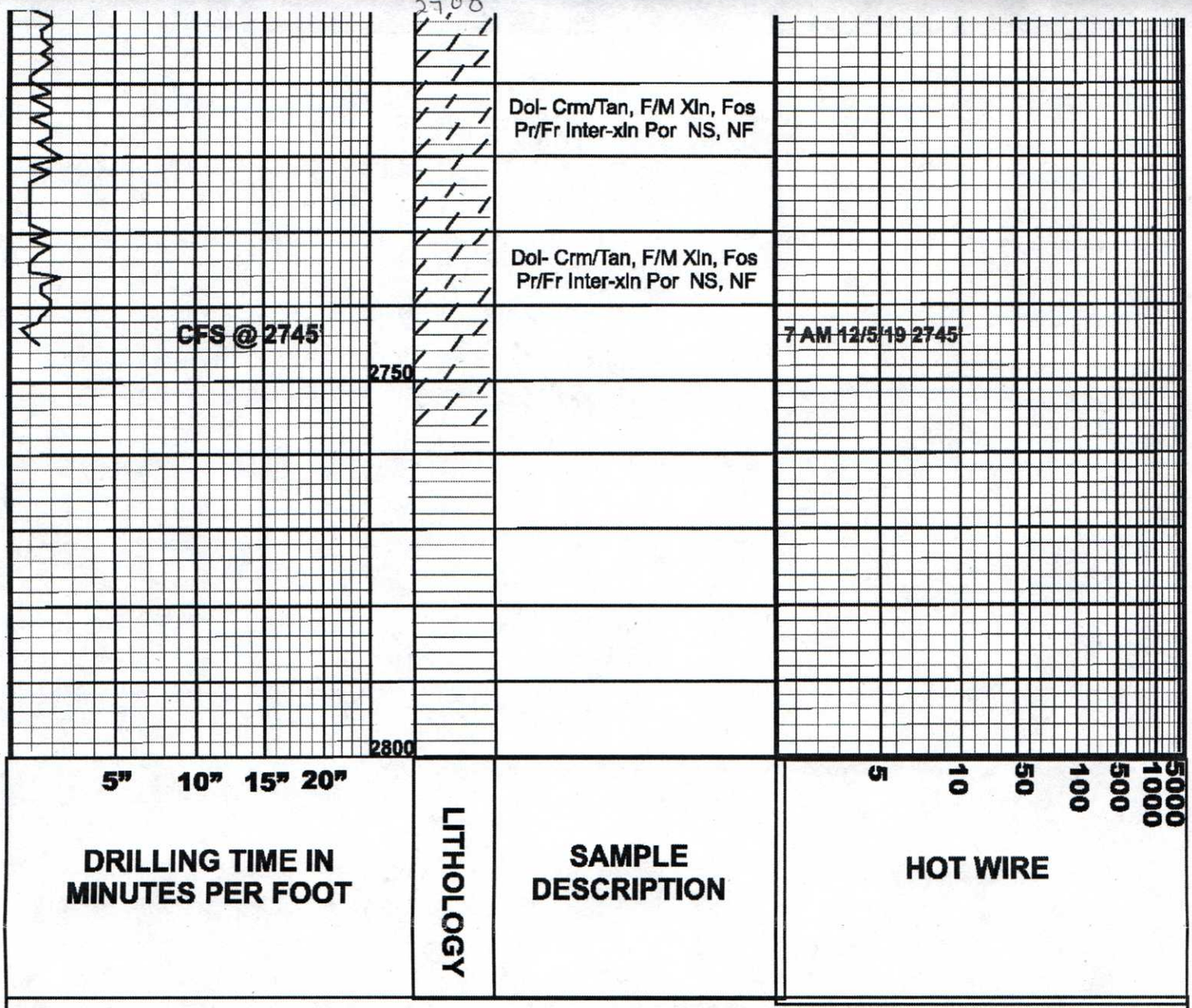
7 AM 12/2/19 400'
7 AM 12/3/19 1150


5" 10" 15" 20"
1950
2000
2050
2100
2150
2200
Base Kansas City
Marmaton Gp.
Ft. Scott
Cherokee
Mississippian
Kinderhook Sh.
Ls- Cream to Tan, Finely Crystalline, Fossiliferous, No Visible Porosity(NVP), No Shows(NS), No Fluor
Sh-Grey to Dark Grey
Sh-Lt Gry to Gry, Silty, Mica
Sh-Lt Gry to Gry,
Sh-Grey to Dark Grey
Ls- Crm to Tan, Fxln, Fos, NVP NS, No Fluor
Sh-Lt Gry to Gry,
Ls- Crm to Tan, Fxln, Fos, NVP NS, No Fluor
Sh-Lt Gry to Gry,
Ls- Crm to Tan, Fxln, Fos, NVP NS, No Fluor
Sh-Lt Gry to Gry,
Ls- Crm to Tan, Fxln, Fos, NVP NS, No Fluor
Sh-Lt Gry to Gry,
Sh-Dk Gry to Gry,
Ls- Crm to Tan, Fxln, Fos, NVP NS, No Fluor
Sh-Dk Gry to Blk, Carb
Chert- Wh/LtGry. , 80% Fresh, 20% Weathered, NS No Fluor, Cut, Odor
Chert- Wh/LtGry. Sharo 90% Fresh, 10% Weathered, NS
Sh-Dk Gry/Gry/Grn/Mar/Red
Sh-Dk Gry/Gry/Grn/Mar/Red
Sh-Dk Gry/Gry/Grn/Mar/Red
5 10 50 100 500 1000
7 AM 12/2/19 400'
7 AM 12/3/19 1150'


2200
Sh-Dk Gry/Gry/Grn/Mar/Red
Sh-Dk Gry to Blk, Carb
2250
Sh-Dk Gry/Gry/Grn/Mar/Red
Sh-Dk Gry to Blk, Carb
Sh-Dk Gry to Gry,
7 AM 12/4/19 2304'
2300
CFS @ 2304
Bit Trip'
Sh-Dk Gry to Gry,
Ss- Clr, Qtz,VF/Fgrn, Mod Sort
Rnd/Sub Rnd, Pr/Fr Inter-grn
Por, Pyr, NS, NF
Mizener Ss.
Hunton
CFS @ 2330'
Viola
CFS @ 2334'
Dol- Crm/Tan, FXLN, Fr Inter-
xln Por, Sol PP Por Pr/Fr Show
Free Oil, Fluor, Cut, Odor
Dol- Gry/Lt Gry, F/Mxln, Fr Inter-
xln Por, Sol PP Por Pr/Fr Show
Free Oil, Fluor, Cut, Odor
DST #1 2321-2330
Mizener/Hunton
15"-30"-15"-35"
Rec- 1080' Salt Water, w/Trace oil
745' VSO & MCW, 95' SO & WCM
BHT 96 degrees
IHP 1133# FHP 1114#
IFP 226-662# FFP 670-866#
ISIP 952# FSIP 952#
Dol- Lt Gry/Gry, F/M Xln Vuggy
NS, NF, w/ Cht- Wh
2350
DST #2 2330-2334 Viola
30"-60"-30"-60"
Rec- 300' Trace Oil & SMCW
20' VSO OCM
BHT 97 degrees
IHP 1136# FHP 1116#
IFP 20-114# FFP 115-160#
ISIP 957# FSIP 957#
Dol- Crm/Tan, F/M Xln, Pr/Fr
Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln, Pr/Fr
Inter-xln Por NS, NF
Simpson
Dol- Crm/Tan/Lt Brn, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
2400
Dol- Tan/Lt Brn/Brn, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
w/Cht-Tan/Brn
Dol- Crm/Tan/Lt Brn, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
Ss- Clr, Qtz,F/Mgrn, Mod Sort,
Rnd/Sub Rnd, Pr/Fr Inter-grn
Por, Tar, NF
Dol- Crm/Tan/Lt Gry, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
2450
Ss- Clr, Qtz,F/Mgrn, Mod Sort,
Rnd/Sub Rnd, Pr/Fr Inter-grn
Por, NS, NF
Sh-Grn/Gry-Grn, Waxy,


Pr/Fr Inter-xln Por NS, NF
2450
Ss- Clr, Qtz,F/Mgrn, Mod Sort,
Rnd/Sub Rnd, Pr/Fr Inter-grn
Por, NS, NF
Sh-Grn/Gry-Grn, Waxy,
Arbuckle
Dol- Crm/Tan, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
2500
Dol- Crm/Tan, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
w/Cht-Wh
2550
Dol- Crm/Tan, F/M Xln,
Pr/Fr Inter-xln Por NS, NF
w/Cht-Wh
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF
w/Cht-Wh
2600
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF
2650
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF
Dol- Crm/Tan, F/M Xln, Fos
Pr/Fr Inter-xln Por NS, NF

2700



CONTRACTOR C & G Drilling Rig #2 LOCATION SE-SE-SW

LEASE Cedar Springs Trust #2 SEC. 13 TWNSP. 21S RANGE 4E

ELEVATION 1297' KB RTD 2745 LTD COUNTY Marion STATE Kansas

Printed from NeuraView 12/09/19

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Te-Pe Oil and Gas**

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

13-21S-4E Marion,KS

Cedar Springs Trust #2

Start Date: 2019.12.04 @ 11:23:00
End Date: 2019.12.04 @ 17:35:30
Job Ticket #: 65416 DST #: 1

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

Printed: 2019.12.05 @ 13:42:31

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65416 **DST#: 1**

Test Start: 2019.12.04 @ 11:23:00

GENERAL INFORMATION:

Formation: **Mizner/Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:20
Time Test Ended: 17:35:30

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

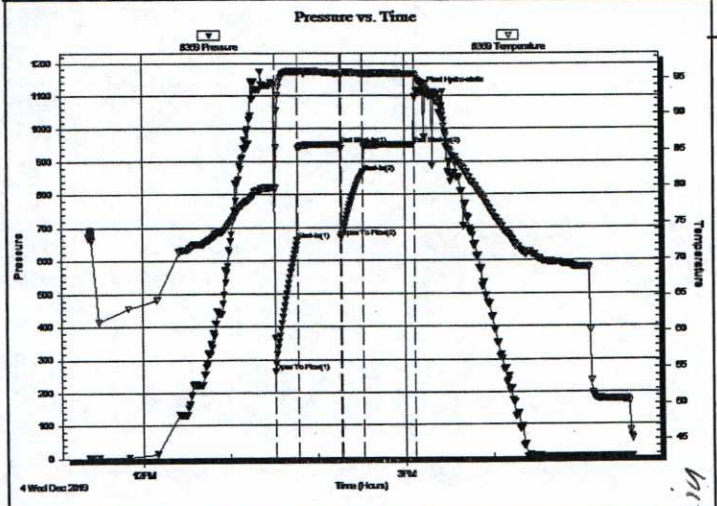
Interval: 2321.00 ft (KB) To 2330.00 ft (KB) (TVD)
Total Depth: 2330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1296.00 ft (KB)
1288.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 866.04 psig @ 2322.00 ft (KB)
Start Date: 2019.12.04 End Date: 2019.12.04
Start Time: 11:23:01 End Time: 17:35:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.12.04 @ 13:29:50
Time Off Btm: 2019.12.04 @ 15:10:50

TEST COMMENT: IF - Strong blow throughout initial flow period. Allowed to climb to 260 inches then bled off to check for gas. No gas.
FF - Strong blow thoughout final flow period. Allowed to climb to 220 inches the bled off to check for gas. No gas.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1133.40	79.88	Initial Hydro-static
2	264.17	79.74	Open To Flow (1)
17	661.59	95.96	Shut-In(1)
47	952.39	95.66	End Shut-In(1)
47	670.10	95.56	Open To Flow (2)
62	866.04	95.66	Shut-In(2)
97	951.56	95.61	End Shut-In(2)
101	1113.65	94.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	Trace OC W Tr O & 100% W	12.92
745.00	VSO&MCW 4% O 92% W & 4% M	10.45
95.00	SO&WCM 6% O 17% W & 77% M	1.33

24.70 BBL 30 min

Gas Rates

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

Hunton Dst

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65416 **DST#: 1**

Test Start: 2019.12.04 @ 11:23:00

GENERAL INFORMATION:

Formation: **Mizner/Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:20
Time Test Ended: 17:35:30

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

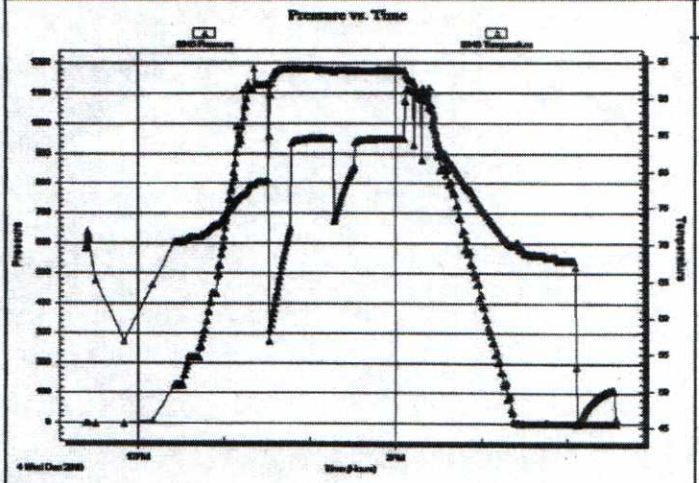
Interval: 2321.00 ft (KB) To 2330.00 ft (KB) (TVD)
Total Depth: 2330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1296.00 ft (KB)
1288.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 2322.00 ft (KB)
Start Date: 2019.12.04 End Date: 2019.12.04
Start Time: 11:23:01 End Time: 17:34:50

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

TEST COMMENT: IF - Strong blow throughout initial flow period. Allowed to climb to 260 inches then bled off to check for gas. No gas.
FF - Strong blow thoughout final flow period. Allowed to climb to 220 inches the bled off to check for gas. No gas.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	Trace OC W Tr O & 100% W	12.92
745.00	VSO&MCW 4% O 92% W & 4% M	10.45
95.00	SO&WCM 6% O 17% W & 77% M	1.33

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65416 **DST#: 1**

Test Start: 2019.12.04 @ 11:23:00

Tool Information

Drill Pipe:	Length:	2079.00 ft	Diameter:	3.80 inches	Volume:	29.16 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	inches	Volume:	0.00 bbl	
Drill Collar:	Length:	245.00 ft	Diameter:	2.25 inches	Volume:	1.20 bbl	
					Total Volume:	30.36 bbl	

Drill Pipe Above KB:	31.00 ft
Depth to Top Packer:	2321.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	9.00 ft
Tool Length:	37.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	82000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	55000.00 lb
Final	65000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2294.00		
Shut In Tool	5.00			2299.00		
Hydraulic tool	5.00			2304.00		
Jars	5.00			2309.00		
Safety Joint	3.00			2312.00		
Packer	5.00			2317.00	28.00	Bottom Of Top Packer
Packer	4.00			2321.00		
Stubb	1.00			2322.00		
Recorder	0.00	8369	Outside	2322.00		
Recorder	0.00	8846	Inside	2322.00		
Perforations	6.00			2328.00		
Bullnose	2.00			2330.00	9.00	Bottom Packers & Anchor
Total Tool Length:	**37.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65416 **DST#: 1**

Test Start: 2019.12.04 @ 11:23:00

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:	9000 ppm
Viscosity:	38.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1080.00	Trace OC W Tr O & 100% W	12.918
745.00	VSO&MCW 4% O 92% W & 4% M	10.450
95.00	SO&WCM 6% O 17% W & 77% M	1.333

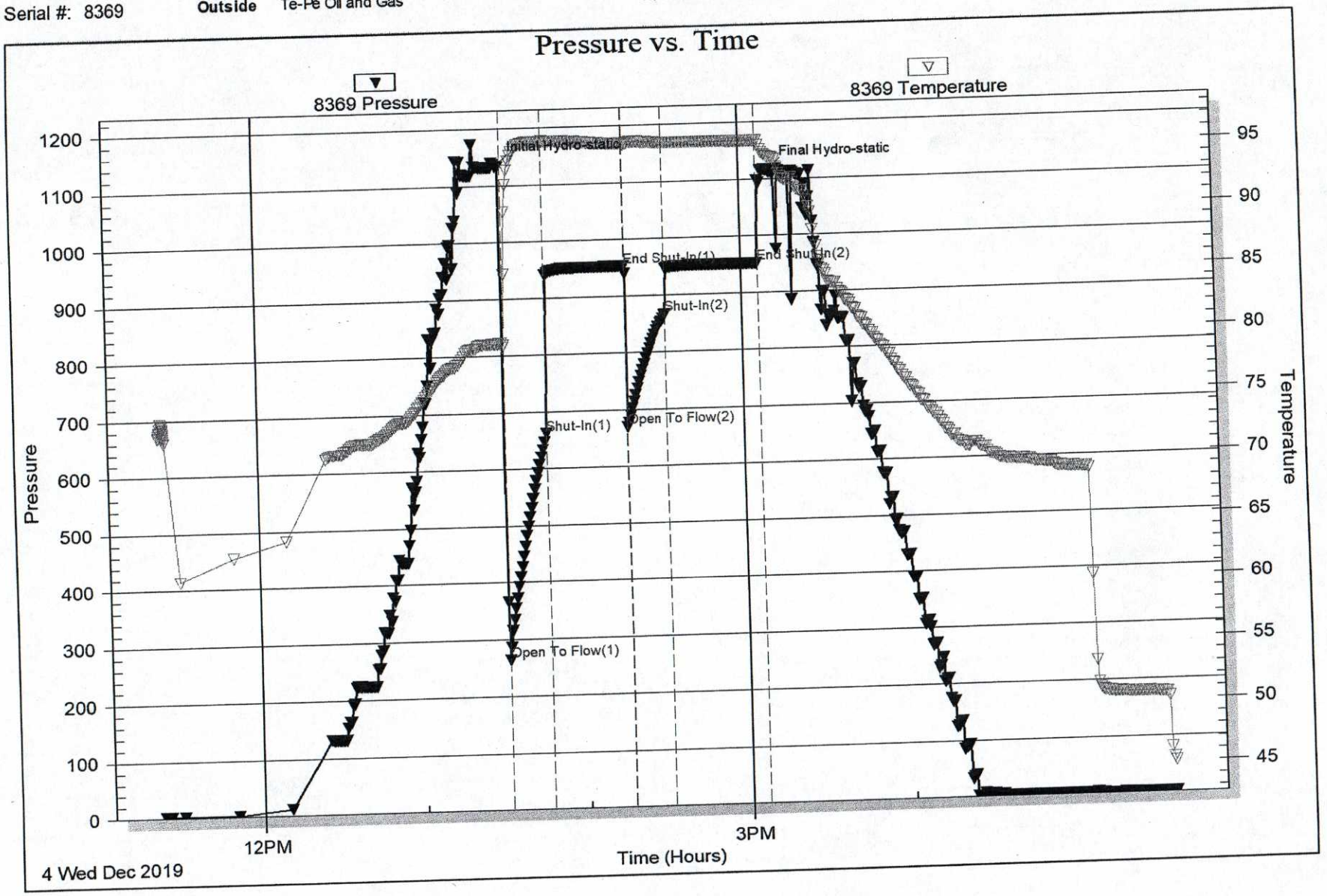
Total Length: 1920.00 ft Total Volume: 24.701 bbl

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

Laboratory Name: Laboratory Location:

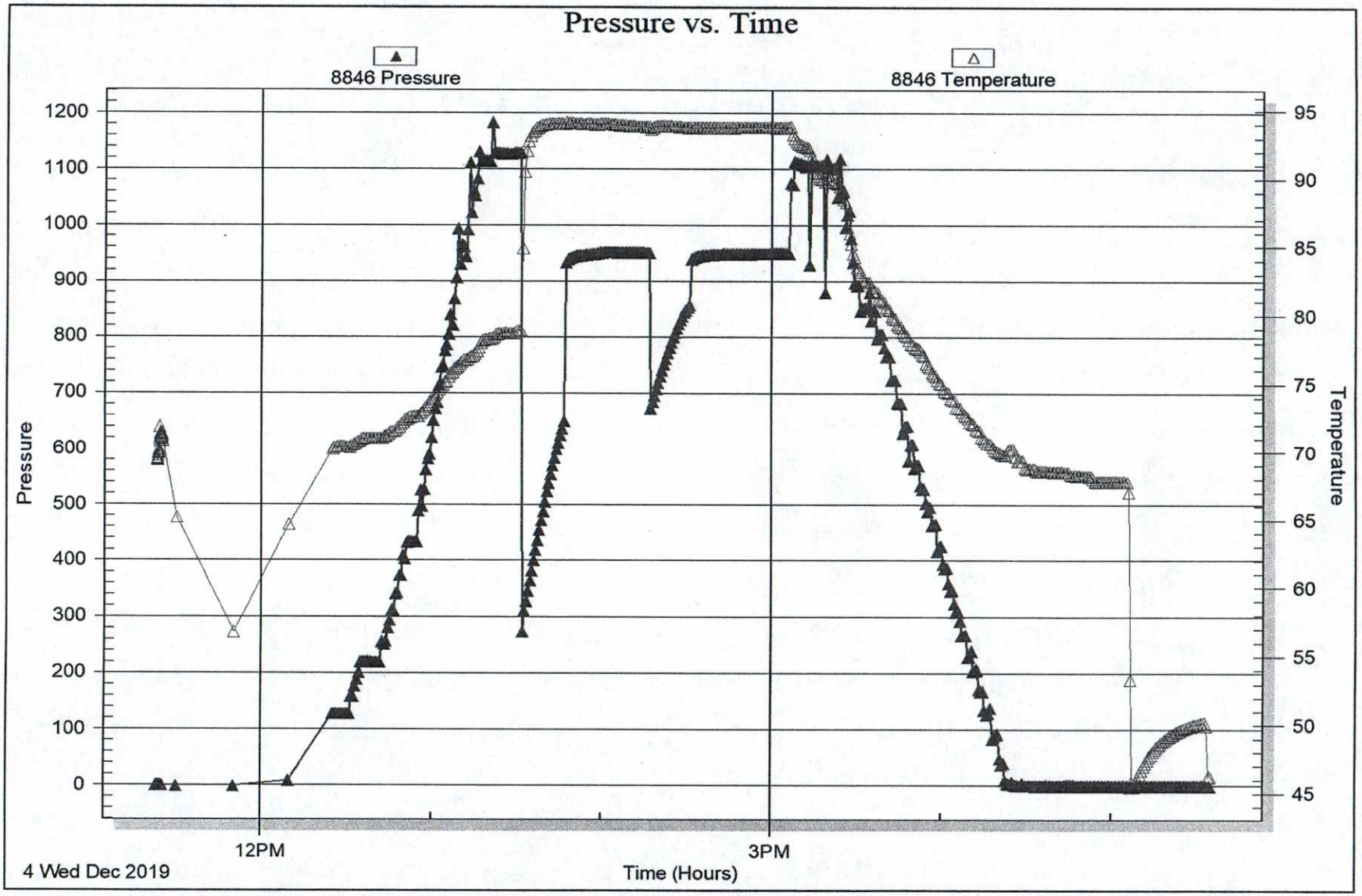
Recovery Comments:

Serial #: 8369 **Outside** Te-Pe Oil and Gas 13-21S-4E Marion,KS DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65416 Printed: 2019.12.05 @ 13:42:32

Serial #: 8846 **Inside** Te-Pe Oil and Gas 13-21S-4E Marion,KS DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65416 Printed: 2019.12.05 @ 13:42:32

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Te-Pe Oil and Gas**

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

13-21S-4E Marion,KS

Cedar Springs Trust #2

Start Date: 2019.12.04 @ 22:25:00
End Date: 2019.12.05 @ 04:47:50
Job Ticket #: 65417 DST #: 2

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

Printed: 2019.12.05 @ 13:42:05

DRILL STEM TEST REPORT

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65417 **DST#: 2**

Test Start: 2019.12.04 @ 22:25:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:57:50
Time Test Ended: 04:47:50

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

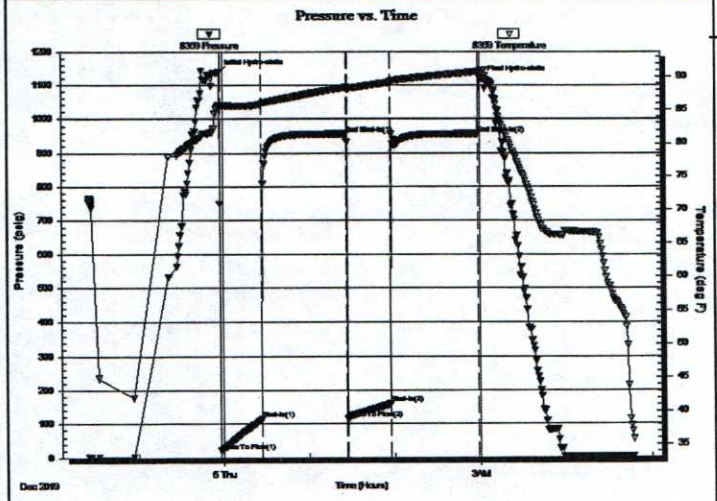
Interval: 2330.00 ft (KB) To 2334.00 ft (KB) (TVD)
Total Depth: 2334.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1296.00 ft (KB)
1288.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 159.98 psig @ 2331.00 ft (KB)
Start Date: 2019.12.04 End Date: 2019.12.05
Start Time: 22:25:01 End Time: 04:47:50

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2019.12.04 @ 23:57:20
Time Off Btm: 2019.12.05 @ 03:01:50

TEST COMMENT: IF - Weak blow building to strong blow 23 minutes into initial flow period. Continuing to build to 15 inches.
FF - Weak blow building to strong blow 29 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1137.92	85.66	Initial Hydro-static
1	20.37	85.38	Open To Flow (1)
30	114.49	85.76	Shut-In(1)
89	957.21	88.30	End Shut-In(1)
90	115.44	87.93	Open To Flow (2)
120	159.98	89.06	Shut-In(2)
182	957.27	90.67	End Shut-In(2)
185	1118.06	90.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Tr OSMCW Tr O 90% W & 10% M	1.98
20.00	VSOCM 2% O & 98% M	0.28

Gas Rates

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

Viola DST #2

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65417 **DST#: 2**

Test Start: 2019.12.04 @ 22:25:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:57:50
Time Test Ended: 04:47:50

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

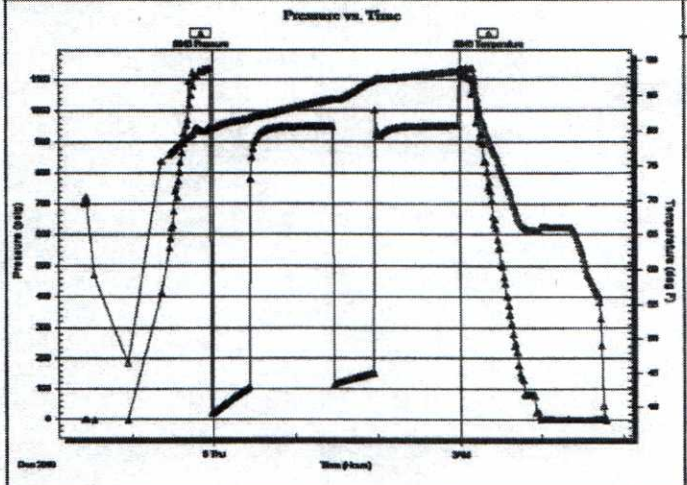
Interval: 2330.00 ft (KB) To 2334.00 ft (KB) (TVD)
Total Depth: 2334.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1296.00 ft (KB)
1288.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 2331.00 ft (KB)
Start Date: 2019.12.04 End Date: 2019.12.05
Start Time: 22:25:01 End Time: 04:47:40

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

TEST COMMENT: IF - Weak blow building to strong blow 23 minutes into initial flow period. Continuing to build to 15 inches.
FF - Weak blow building to strong blow 29 minutes into final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Tr OSMCW Tr O 90% W & 10% M	1.98
20.00	VSOCM 2% O & 98% M	0.28

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65417 **DST#: 2**

Test Start: 2019.12.04 @ 22:25:00

Tool Information

Drill Pipe:	Length:	2079.00 ft	Diameter:	3.80 inches	Volume:	29.16 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	inches	Volume:	0.00 bbl	
Drill Collar:	Length:	245.00 ft	Diameter:	2.25 inches	Volume:	1.20 bbl	
					Total Volume:	30.36 bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	2330.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	4.00 ft
Tool Length:	32.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		22000.00 lb
Weight to Pull Loose:		69000.00 lb
Tool Chased		1.00 ft
String Weight:	Initial	57000.00 lb
	Final	57000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2303.00		
Shut In Tool	5.00			2308.00		
Hydraulic tool	5.00			2313.00		
Jars	5.00			2318.00		
Safety Joint	3.00			2321.00		
Packer	5.00			2326.00	28.00	Bottom Of Top Packer
Packer	4.00			2330.00		
Stubb	1.00			2331.00		
Recorder	0.00	8369	Outside	2331.00		
Recorder	0.00	8846	Inside	2331.00		
Perforations	1.00			2332.00		
Perforations	2.00			2334.00	4.00	Bottom Packers & Anchor
Total Tool Length:	**32.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Te-Pe Oil and Gas

PO Box 522
Canton, KS 67428-0522

ATTN: Terry Brandy/Doug Da

Cedar Springs Trust #2

13-21S-4E Marion,KS

Job Ticket: 65417 **DST#: 2**

Test Start: 2019.12.04 @ 22:25:00

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:	5600 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Tr OSMCW Tr O 90% W & 10% M	1.976
20.00	VSOCM 2% O & 98% M	0.281

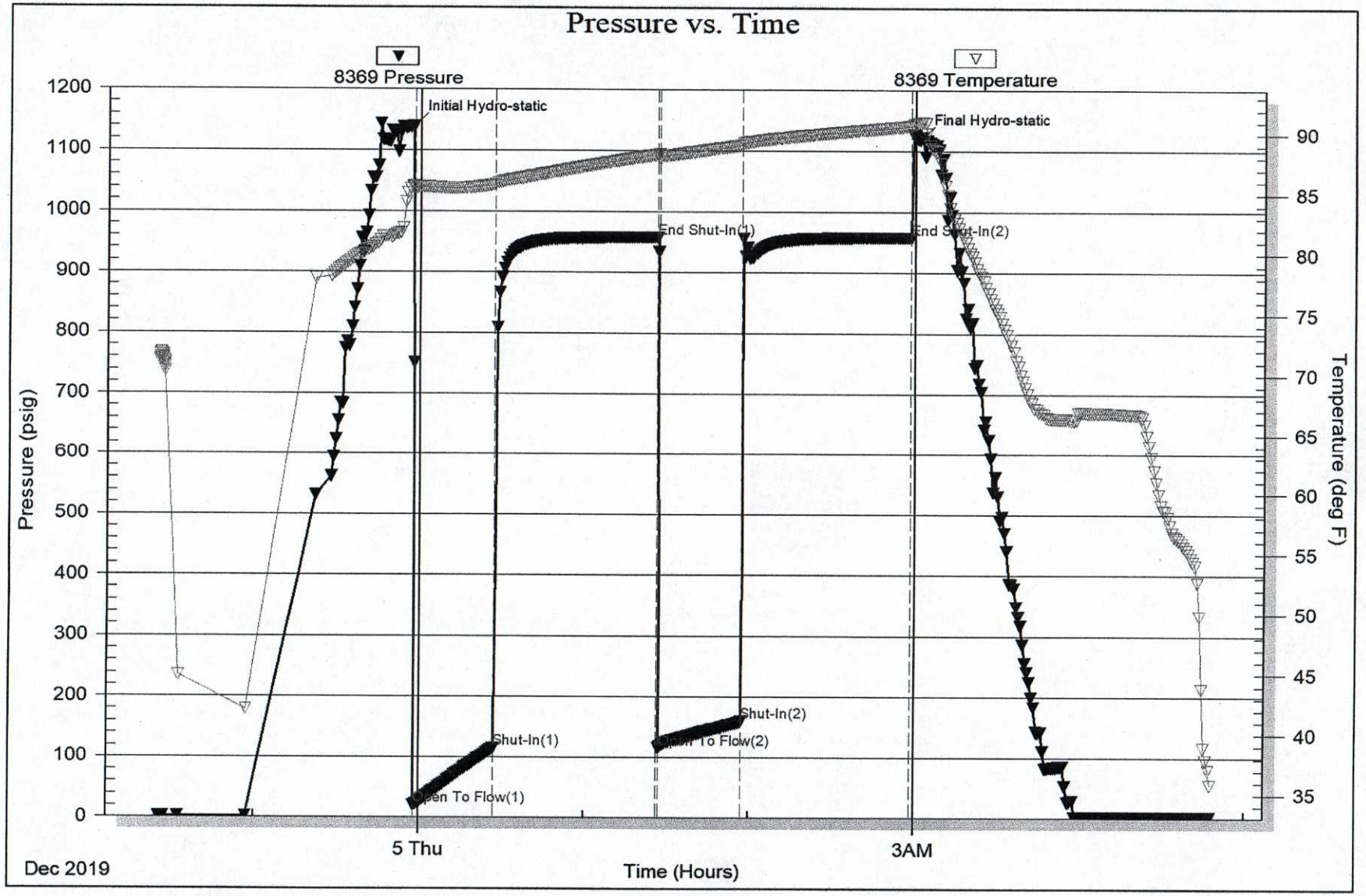
Total Length: 320.00 ft Total Volume: 2.257 bbl

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

Laboratory Name: Laboratory Location:

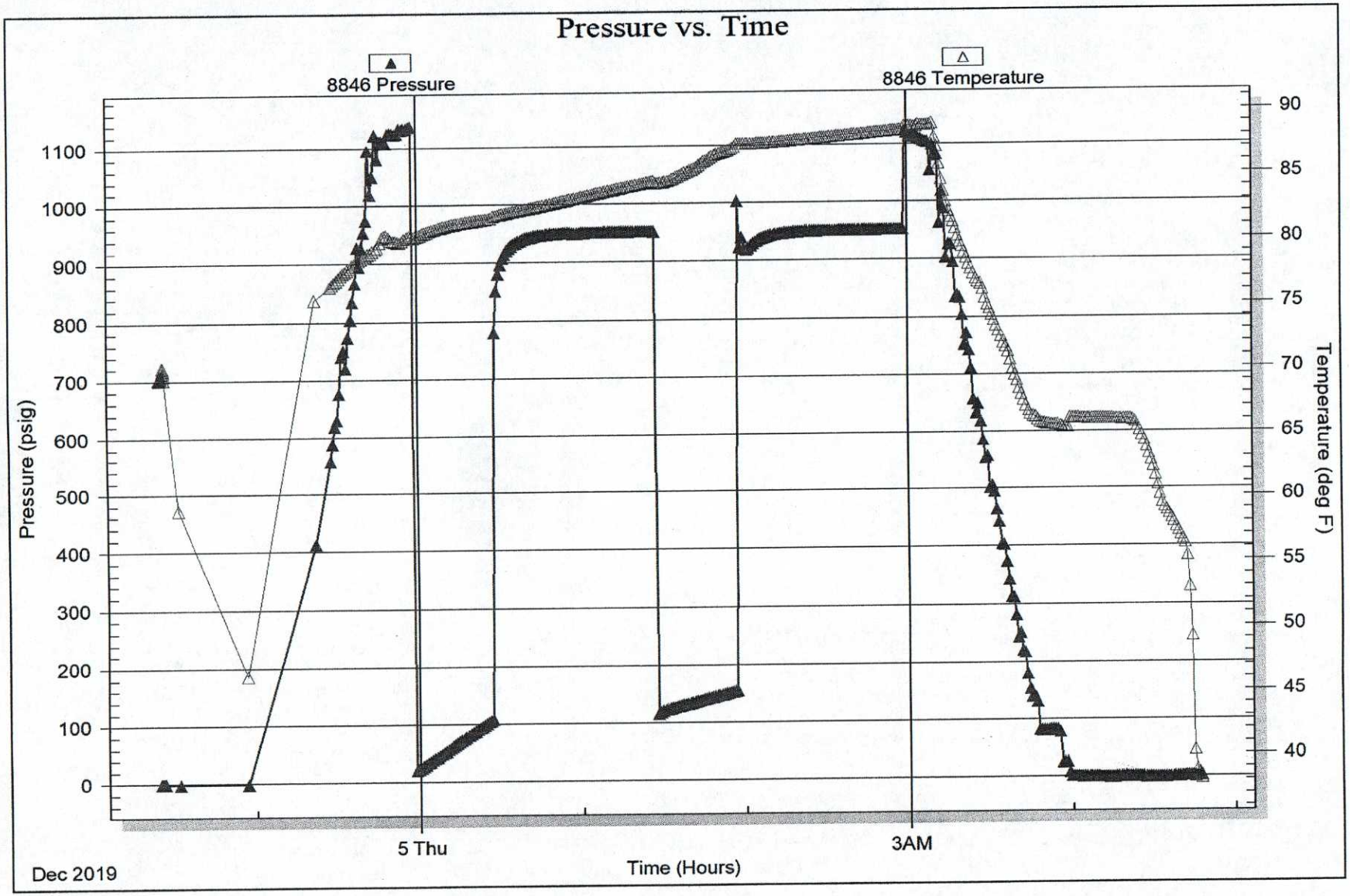
Recovery Comments:

Serial #: 8369 **Outside** Te-Pe Oil and Gas 13-21S-4E Marion,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65417 Printed: 2019.12.05 @ 13:42:06

Serial #: 8846 **Inside** Te-Pe Oil and Gas 13-21S-4E Marion,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65417 Printed: 2019.12.05 @ 13:42:06