

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	KATZ 1
Doc ID	1634413

All Electric Logs Run

Compensated Density/Neutron
Dual Induction
Microlog
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	KATZ 1
Doc ID	1634413

Tops

Name	Top	Datum
Stone Corral	1501	+875
Base Stone Corral	1528	+848
Heebner Shale	4033	-1657
Lansing	4135	-1759
Stark Shale	4390	-2014
Base Kansas City	4504	-2128
Cherokee	4689	-2313
Mississippi	4750	-2374



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Katz #1
API: 15-083-21997
Location: 36-24S-22W
License Number:
Spud Date: 01/07/22
Surface Coordinates: 1525' FSL, 2485' FEL

Region: Hodgeman County, KS
Drilling Completed: 01/14/22

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2369 **K.B. Elevation (ft):** 2376
Logged Interval (ft): 3800 **To:** 4850 **Total Depth (ft):** 4850
Formation: Mississippian
Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N Waterfront Pkwy, Ste. 100
Wichita, KS 67206

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc
Address:

Remarks

Due to negative DST results and log evaluation, the decision was made to plug and abandon the Katz #1.

General Info

Pickrell Drilling, Rig #10

Logs: ELI, Neutron/Density, Dual Induction, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Gas Detector: None

Surveys: 245'-.5, 763'-.25, 1299'-.75, 1807'-.75, 2221'-.75, 2729'-.75, 4760'-3/4

Daily Status

01/07/22: Spud @ 1:30 p.m., Drill 245', ran 6 joints new 8-5/8" 23# Surface Casing. Set @ 244, cemented with 175 sacks of Common Cement with 2% gel, and 3% CC

01/08/22: Drilling out from under Surface Casing

01/09/22: Drilling ahead @ 1966'

01/10/22: Drilling ahead @ 3302'

01/11/22: Drilling ahead @ 4220'

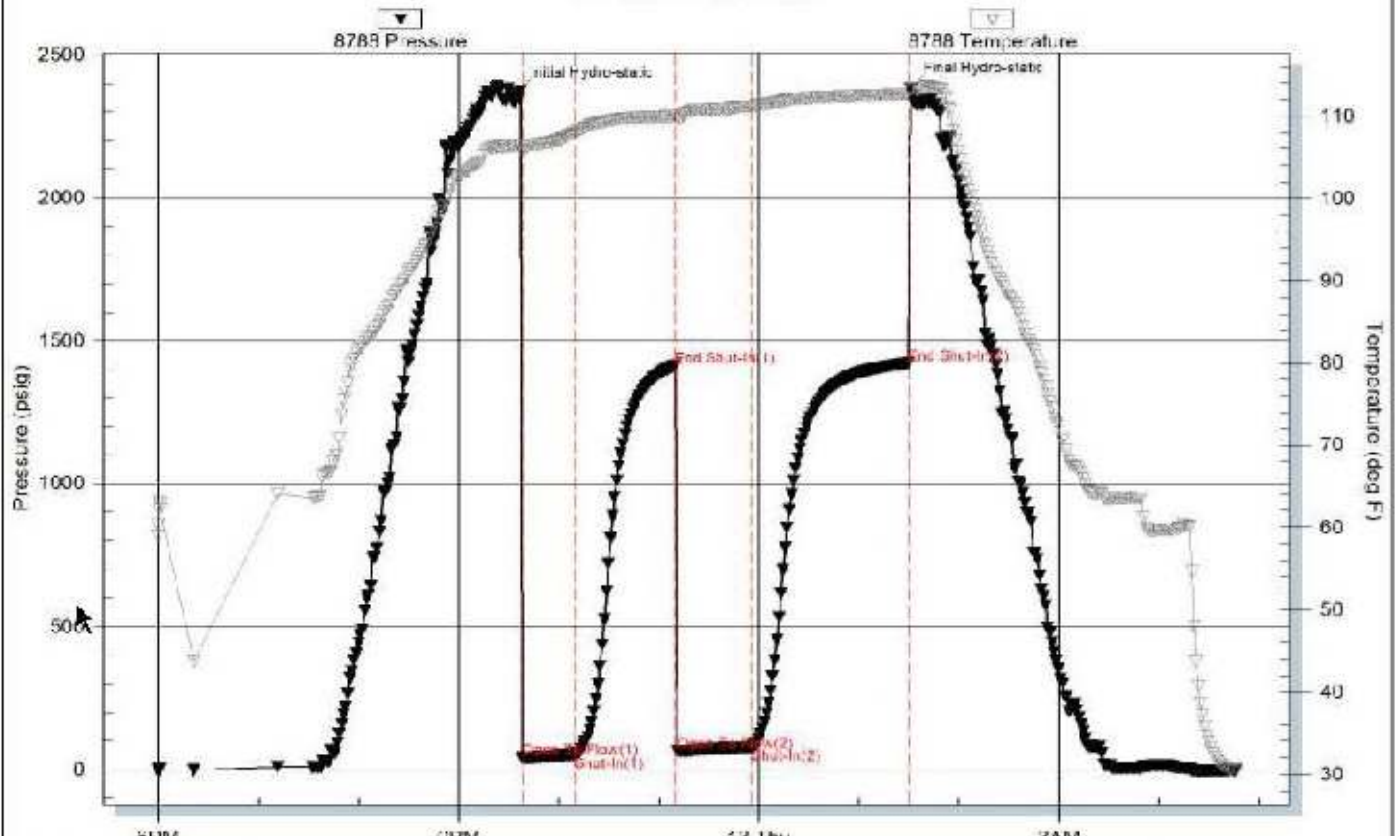
01/12/22: CFS @ 4760'

01/13/22: DST #1 @ 4760

01/14/22: RTD 4850'

	White Ex				Antares			Palomino			Imperial	
	Katz #1				Hoffman #1			Hoffman #1			Meade #1	
	36-24S-22W				36-24S-22W			36-24S-22W			36-24S-22W	
	1525' FSL, 2485' FEL				C SW NW			C NE NW			C SW NE	
	KB:2376				KB: 2374			KB: 2358			KB: 2357	
	Sample	Log	Datum		Relationship			Relationship			Relationship	
Stone Corral	1505	1501	875		-9			+9			-2	
B. Stone	1521	1528	848		-6			+10			-4	
Heebner	4033	4033	-1657		-6			+2			+3	
Lansing	4140	4135	-1759		0			+7			+6	
Stark	4393	4390	-2014		-3			+1			+5	
BKC	4504	4504	-2128		-6			-1			+7	
Cherokee	4692	4689	-2313		-5			+5			+14	
Mississippi	4745	4750	-2374		-12			-4			+13	

Pressure vs. Time



Serial #: 0768

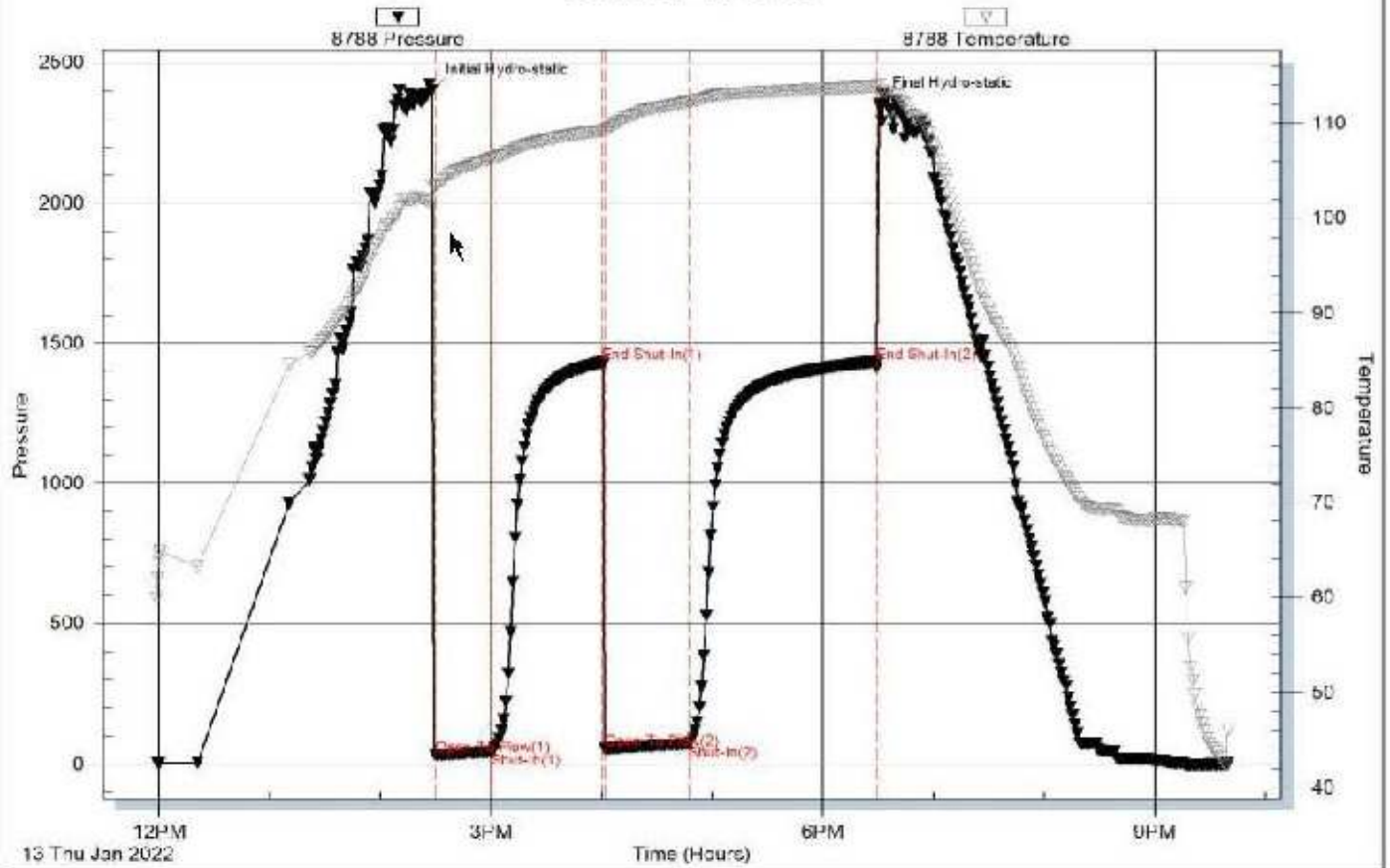
Inside

White Exploration Inc

Katz #1

DST Test Number: 2

Pressure vs. Time



13 Thu Jan 2022

ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst

- Ss
- Till

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclast
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm

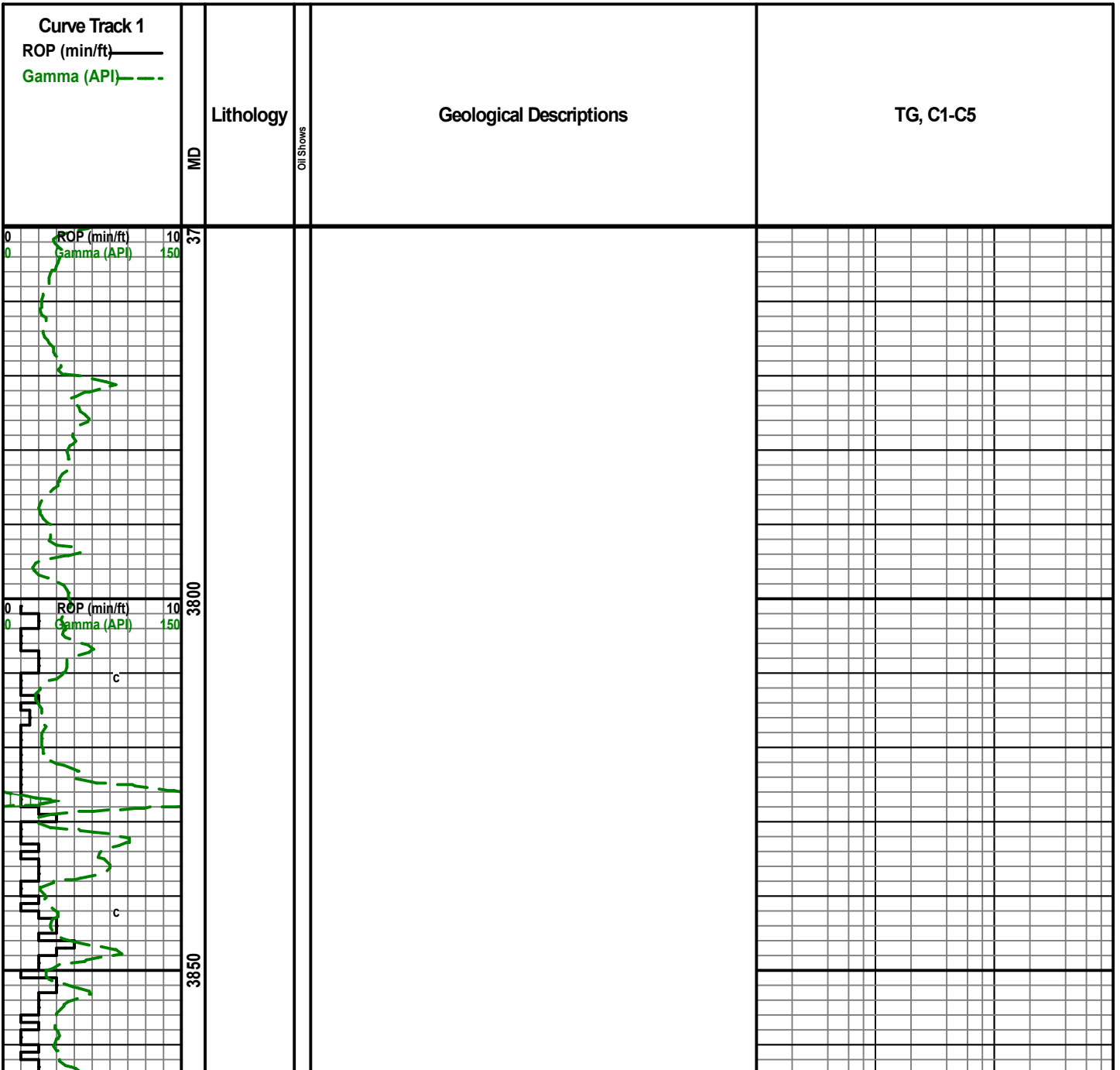
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

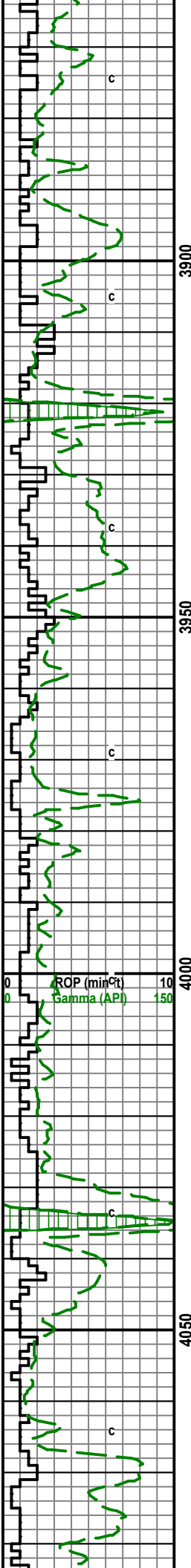
STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

OIL SHOW

- Even
- Spotted
- Ques
- Dead





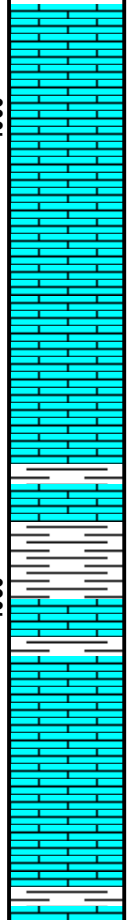
3900

3950

4000

4050

ROP (min/cft) 10
Gamma (API) 150



LS: gry-crm, mcrxln, sli fxln, sli fos, chalk

LS: crm-gry, sli tan/brwn, mcr-fxln, sli fos, chalk

LS: crm-gry, sli tan, mcrxln, chalk

LS: crm-gry, sli tan/brwn, mcr-fxln, sli fos, sli chalk, Sh: gry-ft gry

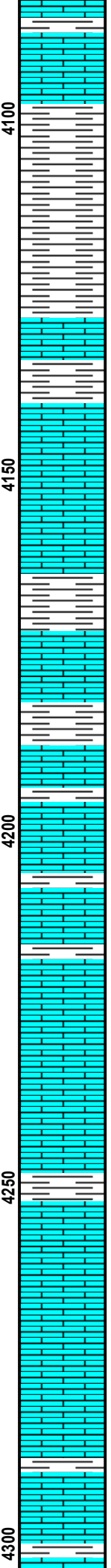
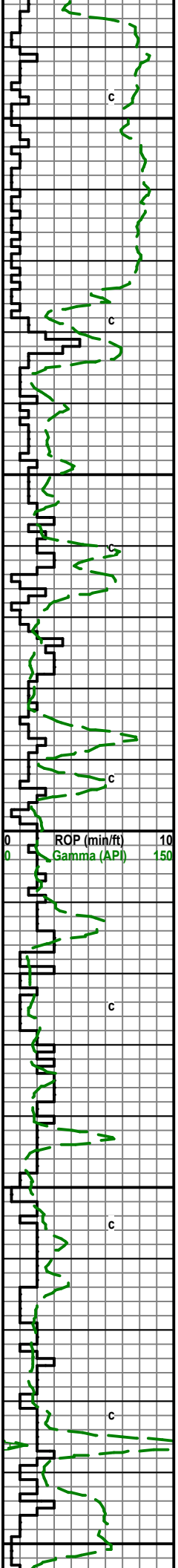
Sh: blk-drk gry-gry, some LS: crm-gry, sli tan, mcrxln

AA

LS: crm. sli gry, mcrxln, chalky, sli chert

LS: AA

Heebner Shale: 4033 (-1657)



Sh: gry-lt gry, sli drk gry, some LS: crm, mcrxln, chalk

Sh: gry-lt gry

Sh: AA

Sh: AA some LS: crm, mcrxln

Sh: AA LS: gry-crm, sli tan, mcrxln, sli fos, sli chalk

LS: crm, sli tan-gry, mcrxln

LS: crm-gry, sli tan, mcrxln, sli fxdn, sli fos, sli chert, Sh: gry-lt gry, sli drk gry

Sh: gry-lt gry, sli drk gry, LS: crm-tan, sli gry, mcrxln

LS: crm, sli gry-tan, mcrxln, some fxdn, Sh: AA

LS: crm-gry-tan, sli brwn, mcrxln, sli fxdn, sli fos, Sh: gry-lt gry

LS: AA

LS: crm-gry, sli tan, mcrxln, sli chalk, Sh: gry-drk gry

LS: crm, sli gry-tan, mcrxln, sli fxdn, chalk

LS: crm, mcrxln, sli chert, chalky

LS: crm, sli gry, mcrxln, chalk

LS: AA with some tan, mcrxln, ool, sli gry, fos, Sh: gry-drk gry-lt gry

LS: crm, sli gry, mcrxln,

LS: crm-tan, mcrxln, chalky, sli chert

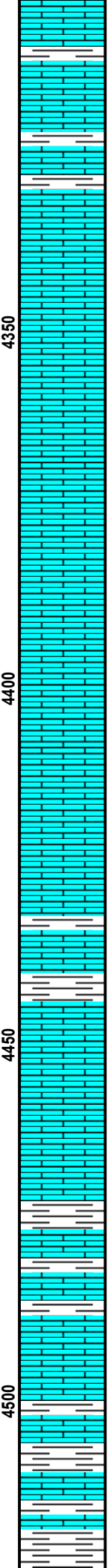
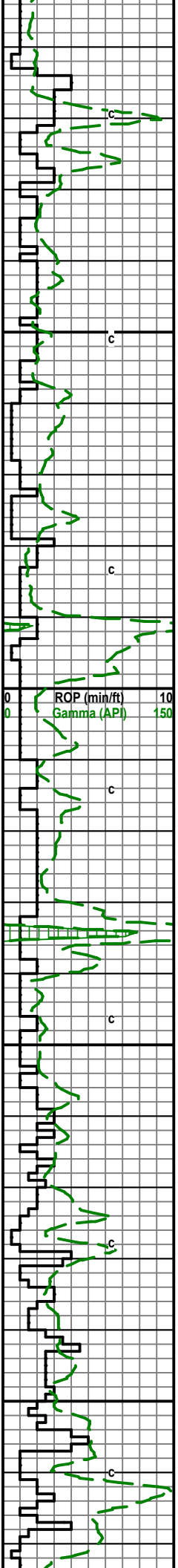
LS: crm, sli gry-tan, mcrxln, sli chert, sli chlck

LS: AA with Sh: gry-lt gry, sli drk gry

LS: gry-crm-tan, mcrxln, sli ool, Sh: gry-lt gry-drk gry

Lansing: 4135 (-1759)

Mudco mdchk
 Wt: 9.25 Vis: 51
 pH: 11.0 Fil: 7.2
 LCM: 2#



LS: tan, sli crm, mcrxln, ool

L:S AA with crm, sli gry, mcrxln, Sh: gry

LS: gry-crm, sli tan, mcrxln, sli chalk, Sh: gry

LS: crm, sli gry, mcrxln, sli fos

LS: AA

LS: crm-gry, sli tan, mcrxln, some fxdn, sli fos, sli chalk, sli chert

LS: crm-tan, sli gry, fxdn-mcrxln, sli fos, sli chalk

LS: AA

LS: tan, mcr-fxdn, ool, chalky

LS: AA with crm-gry, mcrxln, sli fxdn, chalky

AA

LS: crm-tan, sli gry, mcrxln, sli fxdn, sli ool, chalky

AA

LS: crm-gry-tan, mcrxln, sli fxdn, sli chalky, Sh: gry-drk gry-blck

Mostly Chalk, some LS: crm-tan, mcrxln

LS: crm-gry, mcrxln, chalk

LS: gry-crm, mcrxln, sli fxdn, sli fos, sli chalk, Sh: gry-drk gry-lt gry

AA

LS: crm-tan, sli gry, mcrxln, sli chalk, sli chert

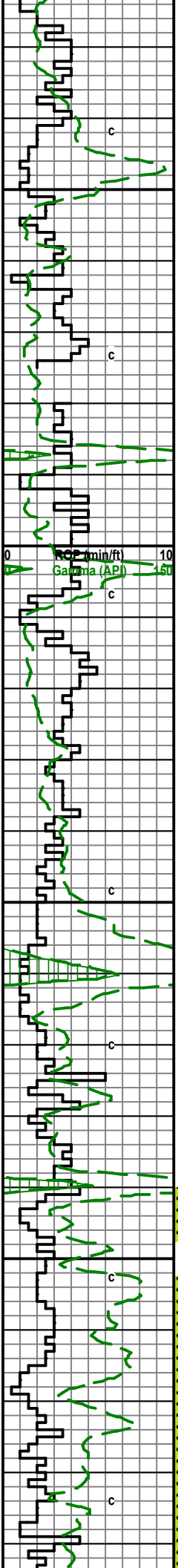
LS: crm, mcrxln, chalk

LS: crm-gry, mcrxln, sli chert, sli chalk, Sh: gry-drk gry-lt gry

Sh: gry-lt gry-drk gry, some LS: crm, sli gry, fxdn-mcrxln

Stark Shale: 4390 (-2014)

BKC: 4504 (-2128)



4550

4600

4650

4700

Sh: AA with LS: gry-crm, mcrxn, sli chalk

Sh: gry-lt gry silt, some teal and red, some LS: AA

AA

Sh: gry-drk gry-lt gry, LS: crm-gry, mcrxn

LS: crm, sli gry, mcrxn, Sh: AA

Sh: gry-lt gry silt, some drk gry, LS: crm, mcrxn

Sh: AA with LS: crm, mcrxn, sli fos

AA

LS: crm, mcrxn, some Sh: gry-lt gry

Sh: gry-lt gry, LS: crm-gry, mcrxn

LS: and Sh: AA

Sh: gry-drk gry

Sh: gry-drk gry-bkck

Sh: AA

LS: gry-crm, mcrxn, Sh: AA

AA

LS: crm-gry, mcr-fxn, sli chalk, Sh: gry-drk gry

LS: crm-gry, sli tan, mcr-fxn, Sh: AA, few pieces sli stain, pos dead, no odor, no fluor, one piece SFO on break

LS: crm, some yell-red-teal, dolo, fxln, pos sli stain, no show, Sh: gry-grn-red

AA

AA with Dolo: crm, f-mxn, few pieces sli stain, few pieces SFO on break

Geograph off

Cherokee Shale: 4689 (-2313)

DST #1 4690-4760

30-60-45-90

IF: Surface build to 5.46"

FF: surface build to 10.07"

Rec: 635' GIP

5' OCM (20% O, 80% M)

60' GOWCM (5% G, 20% O, 5% W, 70% M)

60' GOWCM (43% G, 20% O, 2% W, 35% M)

IFP: 41-52 ISIP: 1413

FFP: 63-77 FSIP: 1421

DST #2 4750-4770

30-60-45-90

IF: Surface build to 4.61"

FF: Surface build to 8.51"

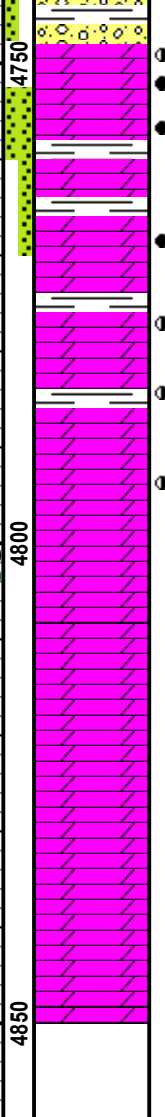
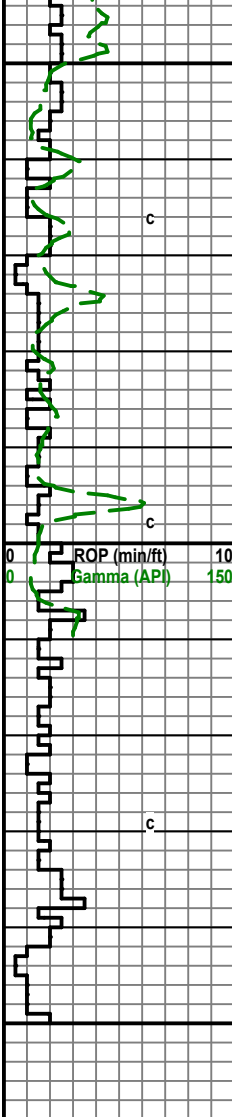
Rec: 1280' GIP

4' CO

60' GOCM (10% G, 25% O, 65% M)

60' GOCM (10% G, 35% O, 55% M)

IFP: 22-44 ISIP: 1424



Dolo: teal, crm, m-fxn, sli silty, some pieces drk stain, pos dead, pos sli odor, sli dull yell fluor, pr-no SFO, two pieces Dolo: crm, fxdn, fr vis por, sli stain, gd fluor, gd SFO on break
 Dolo: crm-tan, sli gry/teal, m-fxdn, sli stain, gd odor, gd fluor, few pieces SFO on break
 Dolo: gry-crm-tan, fxdn, sli stain, fr-gd vis vug por, gd odor, gd fluor, SFO on break, some sli fos, sli chert?
 Dolo: gry-tan, sli crm, sli lime, sli chert, sli stain, pr vis por, fr fluor, sli SFO, fr odor, very chalky
 AA sample very chalky, Dolo: gry, sli tan-crm, wormhole por, with drk stain, dead? SFO on break, sli odor
 Dolo: gry, sli crm-tan, sli odor, pos sli stain, sli SFO (uphole?), chert, sli chalk, some LS: crm, mcr-fxdn
 AA
 Dolo: gry-crm, sli tan, glauc, sli chert, sli chalk no show, no odor
 Dolo: gry, sli crm, chert
 Dolo: gry-crm, limey, chert, sli chalk
LTD 4848
RTD 4850

FFP: 53-71	FSIP: 1433	
		Mudco mdchk
		Wt: 9.2 Vis: 60
		pH: 11.0 Fil: 7.6
		LCM: 1.5#
CFS 60"		Strap 1.8 long to board
CFS 60"		Mudco mdchk
		Wt: 9.3 Vis: 55
		pH: 11.0 Fil: 7.2
		LCM: 1#
Mississippian: 4750 (-2374)		
CFS 60"		

QUALITY WELL SERVICE, INC.

7856

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-27-22	36	24S	22W	Horton	Ks		
Lease	Katz		Well No. #1	Location Bellefont HWY 50' 130' 4"			
Contractor	Pickwell Drilling			Owner N to A Rd 1/2 W N.E. 1/4			
Type Job	SURFACE			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4		T.D.	245'			
Csg.	85/3 23"		Depth	244'			
Tbg. Size			Depth	Street			
Tool			Depth	City			
Cement Left in Csg.			Shoe Joint	20'			
Meas Line			Displace	14.3 bbl			
EQUIPMENT				The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk	8		No.	Cement Amount Ordered 175 cu Common			
Bulktrk	15		No.	2 1/2" CEL 3 1/2" CL 1 1/2" PS			
Bulktrk			No.	Common 175 cu			
Pickup			No.	Poz. Mix			
JOB SERVICES & REMARKS				Gel. 279#			
Rat Hole				Calcium 494#			
Mouse Hole				Hulls			
Centralizers				Salt			
Baskets				Flowseal 33"			
D/V or Port Collar				Kol-Seal			
Run bits 85/3 23" csg. SET @ 244'				Mud CLR 48			
START CSG CSG ON Bottom				CFL-117 or CD110 CAF 38			
Hook on to csg & rotate csg with rig				Sand			
START Pumping + 120				Handling 180			
START mix 1/2 Pms 175 cu Common				Mileage 50 / 9400			
2 1/2" CEL 3 1/2" CL 1 1/2" PS @ 14.8" / cbl				FLOAT EQUIPMENT			
START DIS				Guide Shoe			
CLOSE VALVE ON CSG				Centralizer			
150# 14.3 bbl total				Baskets			
Pac cmt TO PET				AFU Inserts			
				Float Shoe			
				Latch Down			
				SERVICE (6 mi) 1 EA			
				Pumptrk Charge Surface			
				Mileage 100			
				Tax			
				Discount			
				Total Charge			
THANK YOU PLEASE CALL DRAIN THANKS MILCE L2							
Signature							

QUALITY WELL SERVICE, INC.

7868

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	1-15-22	Sec.	36	Twp.	29S	Range	22W	County	HODGEMAN	State	KI	On Location		Finish	
Lease	Katz		Well No.		1		Location				BELLEFONT KI to 130th				
Contractor	Pickcell D/G RG #10				Owner				N to Antelope Rd KW 111st						
Type Job	PTA				To Quality Well Service, Inc.				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size	7 7/8		T.D.		4850'				Charge To				White Exp. INC		
Csg.	4 1/2 DP		Depth						Street						
Tbg. Size			Depth						City				State		
Tool			Depth						City				State		
Cement Left in Csg.			Shoe Joint						The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line			Displace						Cement Amount Ordered				200 & 60/40		
EQUIPMENT								4' GEL 1/4" PS							
Pumptrk	8	No.			Common				120						
Bulktrk	15	No.			Poz. Mix				20						
Bulktrk		No.			Gel.				688						
Pickup		No.			Calcium										
JOB SERVICES & REMARKS								Hulls							
Rat Hole	20'				Salt										
Mouse Hole					Flowseal				50						
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
1st Plug	1530'				Sand										
Pump H2O					Handling				207						
Mid Pump	50 & 60/40 4' GEL 1/4" PS				Mileage				50 / 10, 350						
Pump H2O					FLOAT EQUIPMENT										
Pump Mud					Guide Shoe										
2nd Plug	750'				Centralizer										
Pump H2O					Baskets										
Mid Pump	50 & 60/40 4' GEL 1/4" PS				AFU Inserts										
Pump H2O					Float Shoe										
3rd Plug	200'				Latch Down										
Pump H2O					SERVICE SPV 1 EA										
Mid Pump	50 & 60/40 4' GEL 1/4" PS				LMJ 50'										
Pump H2O					Pumptrk Charge				PTA						
4th Plug	60				Mileage				100						
20 & 60/40 4' GEL 1/4" PS													Tax		
THANK YOU PLEASE CALL AGAIN												Discount			
Signature <i>[Signature]</i>												Total Charge			
Mike Pichiaci															



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Katz #1
API: 15-083-21997
Location: 36-24S-22W
License Number:
Spud Date: 01/07/22
Surface Coordinates: 1525' FSL, 2485' FEL

Region: Hodgeman County, KS
Drilling Completed: 01/14/22

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2369 **K.B. Elevation (ft):** 2376
Logged Interval (ft): 3800 **To:** 4850 **Total Depth (ft):** 4850
Formation: Mississippian
Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N Waterfront Pkwy, Ste. 100
Wichita, KS 67206

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc
Address:

Remarks

Due to negative DST results and log evaluation, the decision was made to plug and abandon the Katz #1.

General Info

Pickrell Drilling, Rig #10

Logs: ELI, Neutron/Density, Dual Induction, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Gas Detector: None

Surveys: 245'-.5, 763'-.25, 1299'-.75, 1807'-.75, 2221'-.75, 2729'-.75, 4760'-3/4

Daily Status

01/07/22: Spud @ 1:30 p.m., Drill 245', ran 6 joints new 8-5/8" 23# Surface Casing. Set @ 244, cemented with 175 sacks of Common Cement with 2% gel, and 3% CC

01/08/22: Drilling out from under Surface Casing

01/09/22: Drilling ahead @ 1966'

01/10/22: Drilling ahead @ 3302'

01/11/22: Drilling ahead @ 4220'

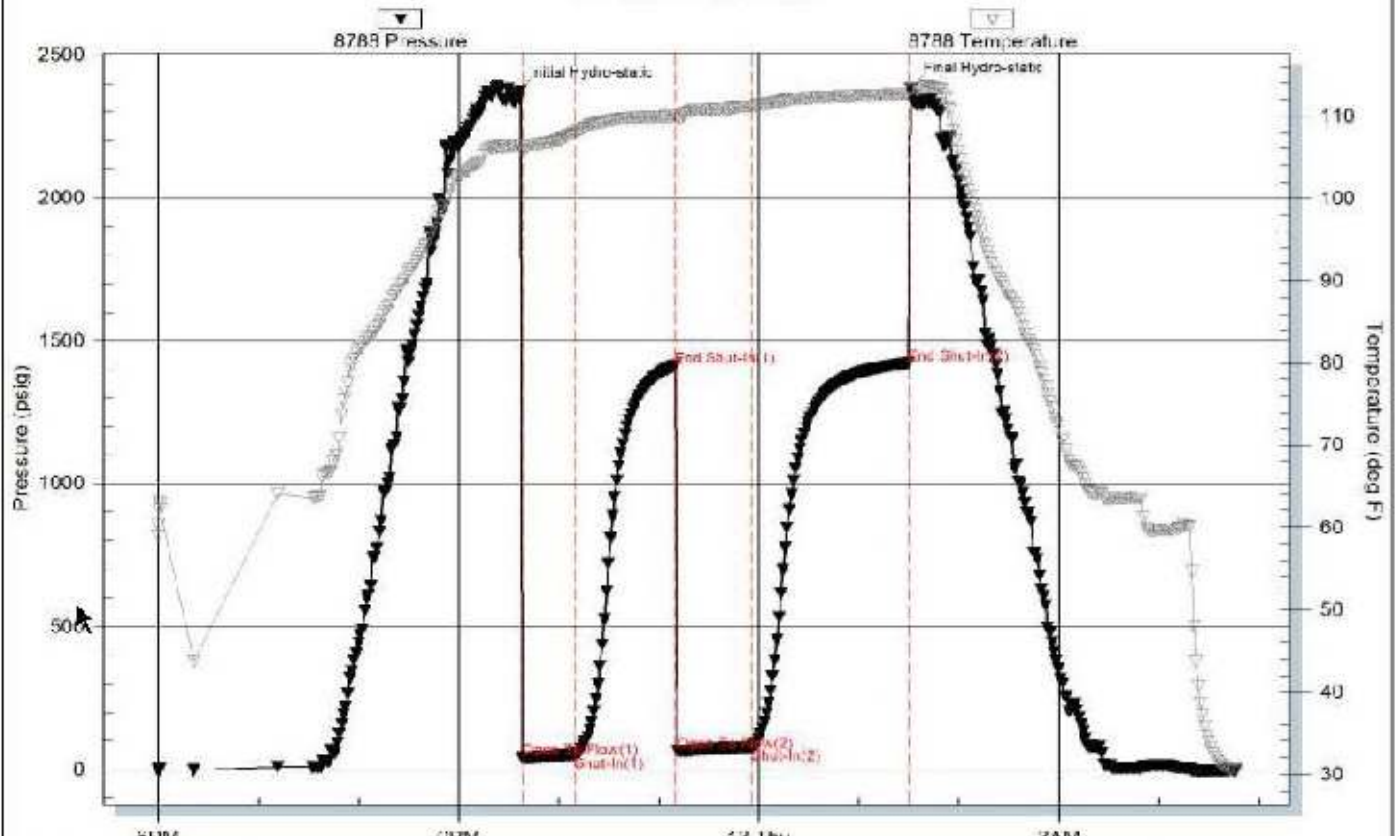
01/12/22: CFS @ 4760'

01/13/22: DST #1 @ 4760'

01/14/22: RTD 4850'

	White Ex				Antares			Palomino			Imperial	
	Katz #1				Hoffman #1			Hoffman #1			Meade #1	
	36-24S-22W				36-24S-22W			36-24S-22W			36-24S-22W	
	1525' FSL, 2485' FEL				C SW NW			C NE NW			C SW NE	
	KB:2376				KB: 2374			KB: 2358			KB: 2357	
	Sample	Log	Datum		Relationship			Relationship			Relationship	
Stone Corral	1505	1501	875		-9			+9			-2	
B. Stone	1521	1528	848		-6			+10			-4	
Heebner	4033	4033	-1657		-6			+2			+3	
Lansing	4140	4135	-1759		0			+7			+6	
Stark	4393	4390	-2014		-3			+1			+5	
BKC	4504	4504	-2128		-6			-1			+7	
Cherokee	4692	4689	-2313		-5			+5			+14	
Mississippi	4745	4750	-2374		-12			-4			+13	

Pressure vs. Time



Serial # 0768

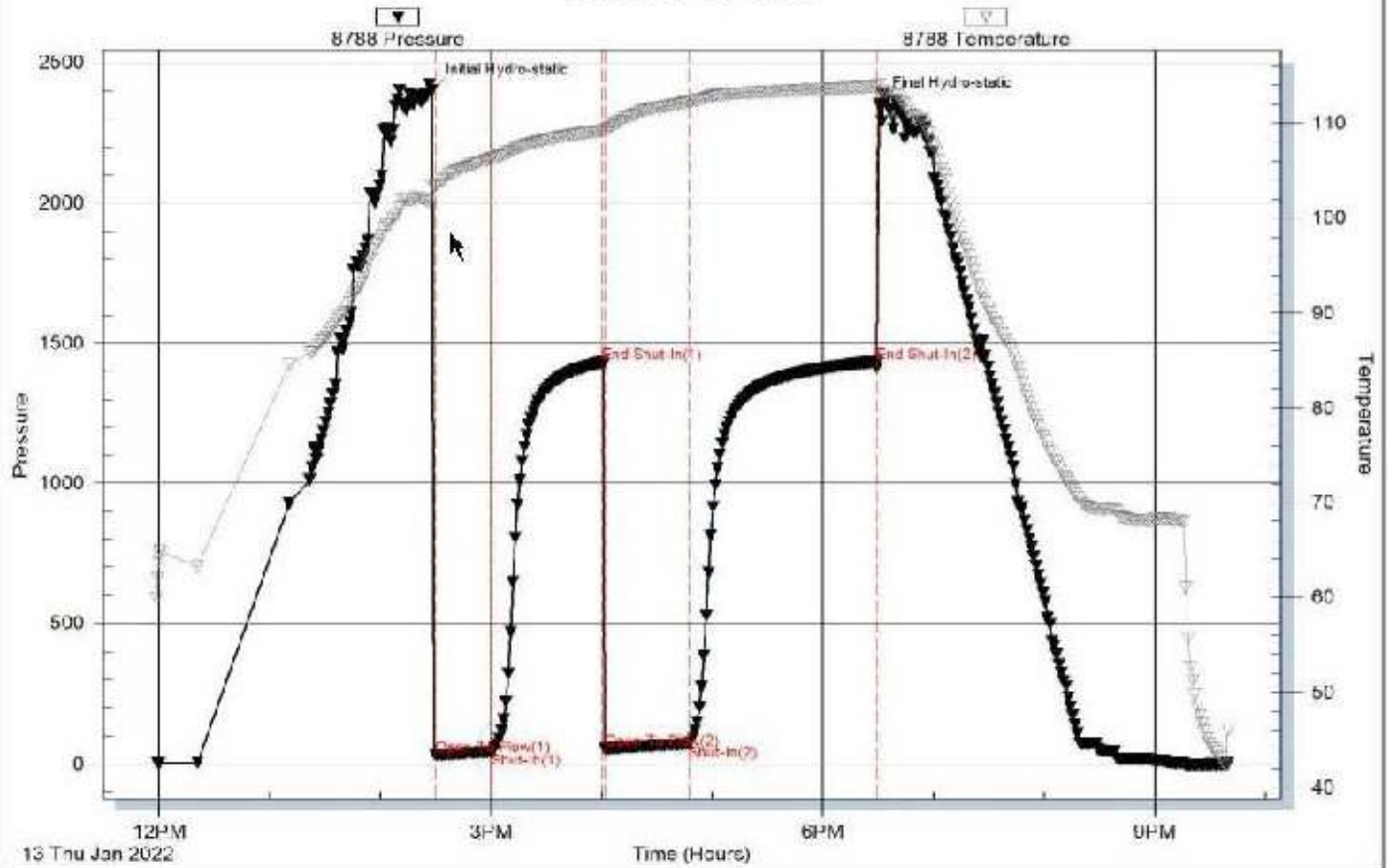
Inside

White Exploration Inc

Katz #1

DST Test Number: 2

Pressure vs. Time



13 Thu Jan 2022

ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Slstst

- Ss
- Till

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm

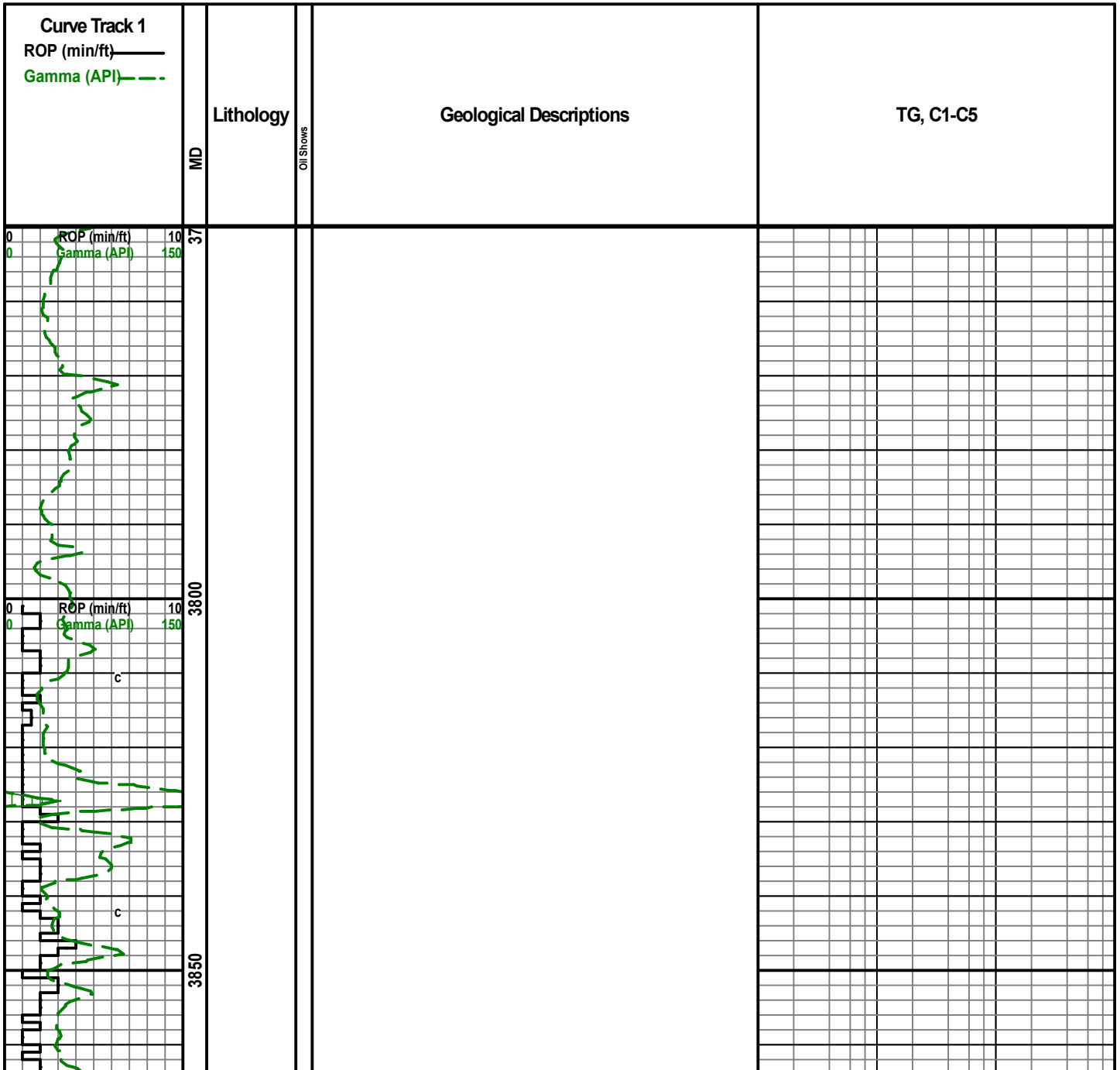
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

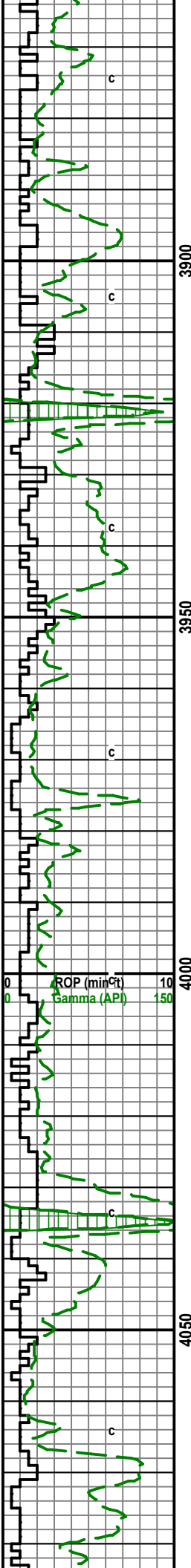
STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg

OIL SHOW

- Even
- Spotted
- Ques
- Dead





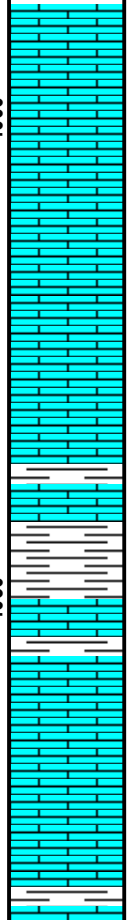
3900

3950

4000

4050

ROP (min/cft) 10
Gamma (API) 150



LS: gry-crm, mcrxln, sli fxln, sli fos, chalk

LS: crm-gry, sli tan/brwn, mcr-fxln, sli fos, chalk

LS: crm-gry, sli tan, mcrxln, chalk

LS: crm-gry, sli tan/brwn, mcr-fxln, sli fos, sli chalk, Sh: gry-ft gry

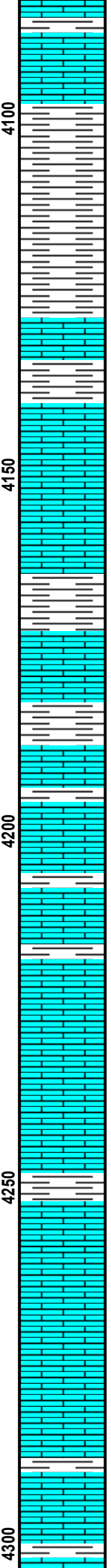
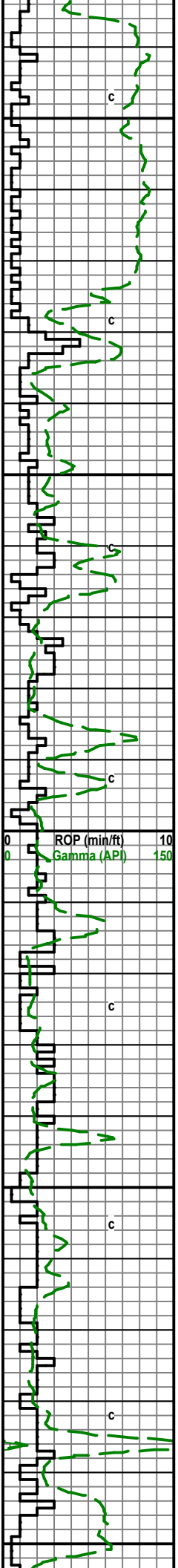
Sh: blk-drk gry-gry, some LS: crm-gry, sli tan, mcrxln

AA

LS: crm. sli gry, mcrxln, chalky, sli chert

LS: AA

Heebner Shale: 4033 (-1657)



Sh: gry-lt gry, sli drk gry, some LS: crm, mcrxln, chalk

Sh: gry-lt gry

Sh: AA

Sh: AA some LS: crm, mcrxln

Sh: AA LS: gry-crm, sli tan, mcrxln, sli fos, sli chalk

LS: crm, sli tan-gry, mcrxln

LS: crm-gry, sli tan, mcrxln, sli fxdn, sli fos, sli chert, Sh: gry-lt gry, sli drk gry

Sh: gry-lt gry, sli drk gry, LS: crm-tan, sli gry, mcrxln

LS: crm, sli gry-tan, mcrxln, some fxdn, Sh: AA

LS: crm-gry-tan, sli brwn, mcrxln, sli fxdn, sli fos, Sh: gry-lt gry

LS: AA

LS: crm-gry, sli tan, mcrxln, sli chalk, Sh: gry-drk gry

LS: crm, sli gry-tan, mcrxln, sli fxdn, chalk

LS: crm, mcrxln, sli chert, chalky

LS: crm, sli gry, mcrxln, chalk

LS: AA with some tan, mcrxln, ool, sli gry, fos, Sh: gry-drk gry-lt gry

LS: crm, sli gry, mcrxln,

LS: crm-tan, mcrxln, chalky, sli chert

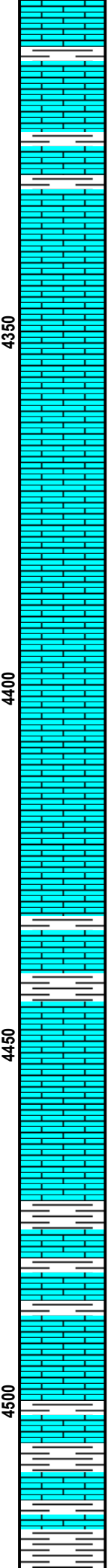
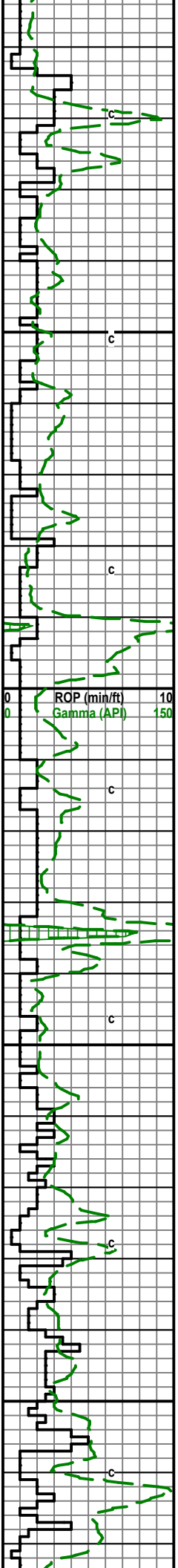
LS: crm, sli gry-tan, mcrxln, sli chert, sli chlck

LS: AA with Sh: gry-lt gry, sli drk gry

LS: gry-crm-tan, mcrxln, sli ool, Sh: gry-lt gry-drk gry

Lansing: 4135 (-1759)

Mudco mdchk
 Wt: 9.25 Vis: 51
 pH: 11.0 Fil: 7.2
 LCM: 2#



LS: tan, sli crm, mcrxln, ool

L:S AA with crm, sli gry, mcrxln, Sh: gry

LS: gry-crm, sli tan, mcrxln, sli chalk, Sh: gry

LS: crm, sli gry, mcrxln, sli fos

LS: AA

LS: crm-gry, sli tan, mcrxln, some fxdn, sli fos, sli chalk, sli chert

LS: crm-tan, sli gry, fxdn-mcrxln, sli fos, sli chalk

LS: AA

LS: tan, mcr-fxdn, ool, chalky

LS: AA with crm-gry, mcrxln, sli fxdn, chalky

AA

LS: crm-tan, sli gry, mcrxln, sli fxdn, sli ool, chalky

AA

LS: crm-gry-tan, mcrxln, sli fxdn, sli chalky, Sh: gry-drk gry-blck

Mostly Chalk, some LS: crm-tan, mcrxln

LS: crm-gry, mcrxln, chalk

LS: gry-crm, mcrxln, sli fxdn, sli fos, sli chalk, Sh: gry-drk gry-lt gry

AA

LS: crm-tan, sli gry, mcrxln, sli chalk, sli chert

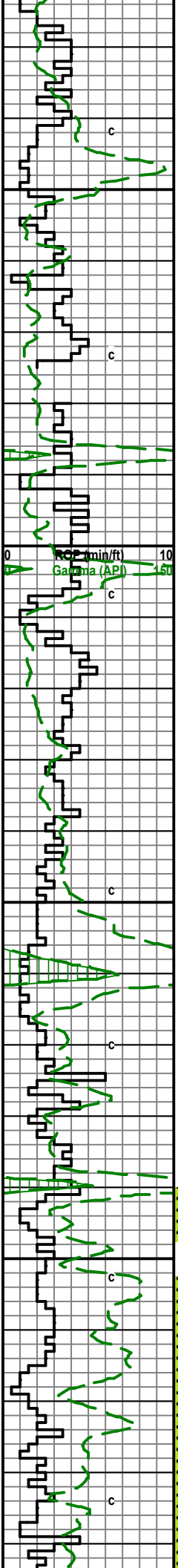
LS: crm, mcrxln, chalk

LS: crm-gry, mcrxln, sli chert, sli chalk, Sh: gry-drk gry-lt gry

Sh: gry-lt gry-drk gry, some LS: crm, sli gry, fxdn-mcrxln

Stark Shale: 4390 (-2014)

BKC: 4504 (-2128)



4550

4600

4650

4700

Sh: AA with LS: gry-crm, mcrxn, sli chalk

Sh: gry-lt gry silt, some teal and red, some LS: AA

AA

Sh: gry-drk gry-lt gry, LS: crm-gry, mcrxn

LS: crm, sli gry, mcrxn, Sh: AA

Sh: gry-lt gry silt, some drk gry, LS: crm, mcrxn

Sh: AA with LS: crm, mcrxn, sli fos

AA

LS: crm, mcrxn, some Sh: gry-lt gry

Sh: gry-lt gry, LS: crm-gry, mcrxn

LS: and Sh: AA

Sh: gry-drk gry

Sh: gry-drk gry-bkck

Sh: AA

LS: gry-crm, mcrxn, Sh: AA

AA

LS: crm-gry, mcr-fxn, sli chalk, Sh: gry-drk gry

LS: crm-gry, sli tan, mcr-fxn, Sh: AA, few pieces sli stain, pos dead, no odor, no fluor, one piece SFO on break

LS: crm, some yell-red-teal, dolo, fxln, pos sli stain, no show, Sh: gry-grn-red

AA

AA with Dolo: crm, f-mxn, few pieces sli stain, few pieces SFO on break

Geograph off

Cherokee Shale: 4689 (-2313)

DST #1 4690-4760

30-60-45-90

IF: Surface build to 5.46"

FF: surface build to 10.07"

Rec: 635' GIP

5' OCM (20% O, 80% M)

60' GOWCM (5% G, 20% O, 5% W, 70% M)

60' GOWCM (43% G, 20% O, 2% W, 35% M)

IFP: 41-52 ISIP: 1413

FFP: 63-77 FSIP: 1421

DST #2 4750-4770

30-60-45-90

IF: Surface build to 4.61"

FF: Surface build to 8.51"

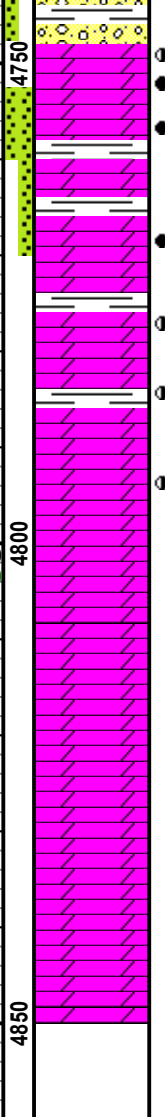
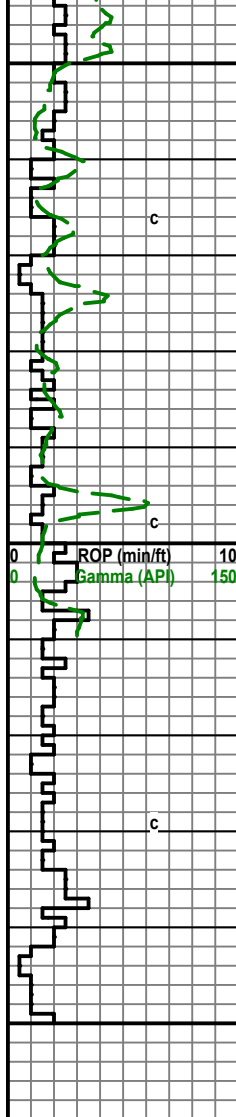
Rec: 1280' GIP

4' CO

60' GOCM (10% G, 25% O, 65% M)

60' GOCM (10% G, 35% O, 55% M)

IFP: 22-44 ISIP: 1424



Dolo: teal, crm, m-fxn, sli silty, some pieces drk stain, pos dead, pos sli odor, sli dull yell fluor, pr-no SFO, two pieces Dolo: crm, fxdn, fr vis por, sli stain, gd fluor, gd SFO on break

Dolo: crm-tan, sli gry/teal, m-fxdn, sli stain, gd odor, gd fluor, few pieces SFO on break

Dolo: gry-crm-tan, fxdn, sli stain, fr-gd vis vug por, gd odor, gd fluor, SFO on break, some sli fos, sli chert?

Dolo: gry-tan, sli crm, sli lime, sli chert, sli stain, pr vis por, fr fluor, sli SFO, fr odor, very chalky

AA sample very chalky, Dolo: gry, sli tan-crm, wormhole por, with drk stain, dead? SFO on break, sli odor

Dolo: gry, sli crm-tan, sli odor, pos sli stain, sli SFO (uphole?), chert, sli chalk, some LS: crm, mcr-fxdn

AA

Dolo: gry-crm, sli tan, glauc, sli chert, sli chalk no show, no odor

Dolo: gry, sli crm, chert

Dolo: gry-crm, limey, chert, sli chalk

LTD 4848
RTD 4850

IRP: 53-44 IRP: 1431
FFP: 53-71 FSIP: 1433

	Mudco mdchk Wt: 9.2 Vis: 60 pH: 11.0 Fil: 7.6 LCM: 1.5#
CFS 60"	Strap 1.8 long to board
CFS 60"	Mudco mdchk Wt: 9.3 Vis: 55 pH: 11.0 Fil: 7.2 LCM: 1#
Mississippian: 4750 (-2374)	
CFS 60"	



DRILL STEM TEST REPORT

Prepared For: **White Exploration Inc**

PO Box 780425
Wichita, KS. 67278

ATTN: Andy White

Katz #1

36-24s-22w Hodgeman,KS

Start Date: 2022.01.12 @ 17:59:07

End Date: 2022.01.13 @ 04:46:37

Job Ticket #: 67220 DST #: 1

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

Printed: 2022.01.19 @ 12:01:07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

White Exploration Inc
 PO Box 780425
 Wichita, KS. 67278
 ATTN: Andy White

36-24s-22w Hodgeman,KS

Katz #1

Job Ticket: 67220

DST#: 1

Test Start: 2022.01.12 @ 17:59:07

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:37:37 Tester: Matt Smith
 Time Test Ended: 04:46:37 Unit No: 68
 Interval: **4690.00 ft (KB) To 4760.00 ft (KB) (TVD)** Reference Elevations: 2376.00 ft (KB)
 Total Depth: 4760.00 ft (KB) (TVD) 2369.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

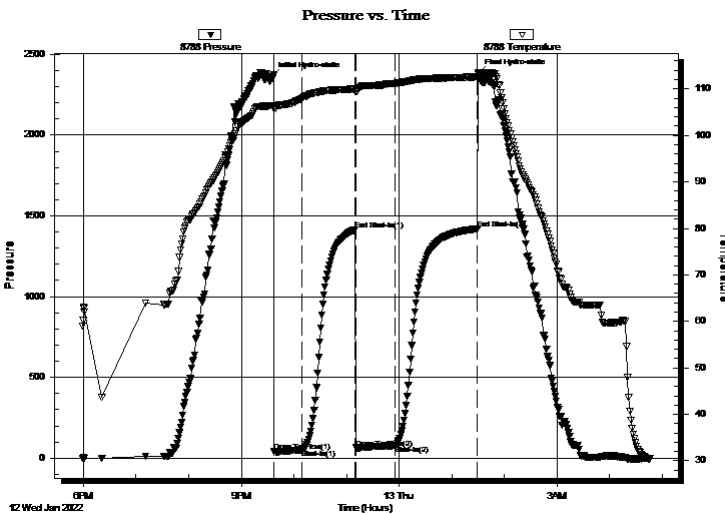
Serial #: 8788

Inside

Press@RunDepth: 77.12 psig @ 4691.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.01.12 End Date: 2022.01.13 Last Calib.: 2022.01.13
 Start Time: 17:59:12 End Time: 04:46:37 Time On Btm: 2022.01.12 @ 21:34:22
 Time Off Btm: 2022.01.13 @ 01:30:37

TEST COMMENT: IF: Weak-Fair Blow . Built to 5.46". (30)
 IS: No Blow . (60)
 FF: Fair-Strong Blow . Built to 10.07". (45)
 FS: No Blow . (90)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.53	106.38	Initial Hydro-static
4	41.29	105.76	Open To Flow (1)
35	51.66	107.90	Shut-In(1)
95	1413.48	109.98	End Shut-In(1)
97	63.33	109.58	Open To Flow (2)
142	77.12	111.17	Shut-In(2)
235	1420.93	112.60	End Shut-In(2)
237	2381.61	113.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 43%g 20%o 2%w 35%m	0.46
60.00	GOWCM 5%g 20%o 5%w 70%m	0.47
5.00	OCM 20%o 80%m	0.07
0.00	635' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc
 PO Box 780425
 Wichita, KS. 67278
 ATTN: Andy White

36-24s-22w Hodgeman,KS

Katz #1

Job Ticket: 67220

DST#: 1

Test Start: 2022.01.12 @ 17:59:07

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:37:37

Time Test Ended: 04:46:37

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4690.00 ft (KB) To 4760.00 ft (KB) (TVD)**

Reference Elevations: 2376.00 ft (KB)

Total Depth: 4760.00 ft (KB) (TVD)

2369.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.12

End Date:

2022.01.13

Last Calib.:

2022.01.13

Start Time: 17:59:48

End Time:

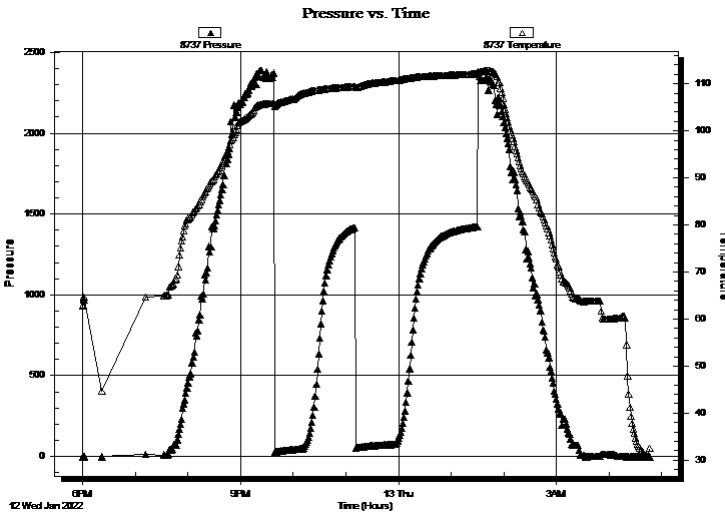
04:47:13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak-Fair Blow . Built to 5.46". (30)
 IS: No Blow . (60)
 FF: Fair-Strong Blow . Built to 10.07". (45)
 FS: No Blow . (90)

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 43%g 20%o 2%w 35%m	0.46
60.00	GOWCM 5%g 20%o 5%w 70%m	0.47
5.00	OCM 20%o 80%m	0.07
0.00	635' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration Inc

36-24s-22w Hodgeman,KS

PO Box 780425
Wichita, KS. 67278

Katz #1

Job Ticket: 67220

DST#: 1

ATTN: Andy White

Test Start: 2022.01.12 @ 17:59:07

Tool Information

Drill Pipe:	Length: 4573.00 ft	Diameter: 3.80 inches	Volume: 64.15 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.80 inches	Volume: 0.90 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 65.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4690.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	101.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Shale Packer in String on Request.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4660.00	
Shut In Tool	5.00			4665.00	
Hydraulic tool	5.00			4670.00	
Jars	5.00			4675.00	
EMT	3.00			4678.00	
Safety Joint	3.00			4681.00	
Packer	4.00			4685.00	31.00 Bottom Of Top Packer
Packer	5.00			4690.00	
Stubb	1.00			4691.00	
Recorder	0.00	8788	Inside	4691.00	
Recorder	0.00	8737	Outside	4691.00	
Perforations	3.00			4694.00	
Change Over Sub	1.00			4695.00	
Blank Spacing	32.00			4727.00	
Change Over Sub	1.00			4728.00	
Perforations	29.00			4757.00	
Bullnose	3.00			4760.00	70.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration Inc

36-24s-22w Hodgeman,KS

PO Box 780425
Wichita, KS. 67278

Katz #1

Job Ticket: 67220

DST#: 1

ATTN: Andy White

Test Start: 2022.01.12 @ 17:59:07

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.59 in³
Resistivity: ohm.m
Salinity: 4700.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 4700 ppm

Recovery Information

Recovery Table

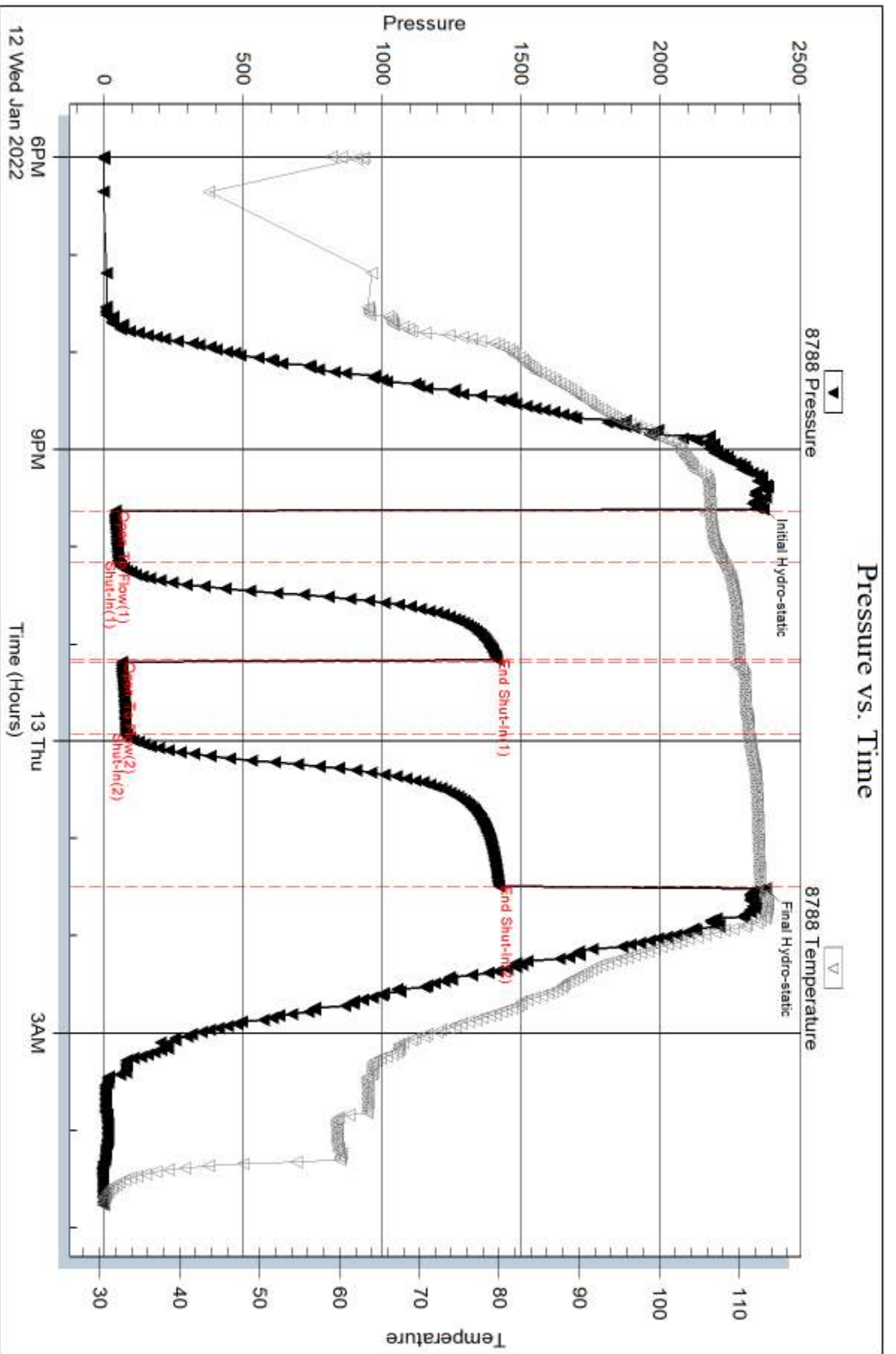
Length ft	Description	Volume bbl
60.00	GOWCM 43%g 20%o 2%w 35%m	0.457
60.00	GOWCM 5%g 20%o 5%w 70%m	0.470
5.00	OCM 20%o 80%m	0.070
0.00	635' GIP	0.000

Total Length: 125.00 ft Total Volume: 0.997 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: 635 Feet of Gas in Pipe.

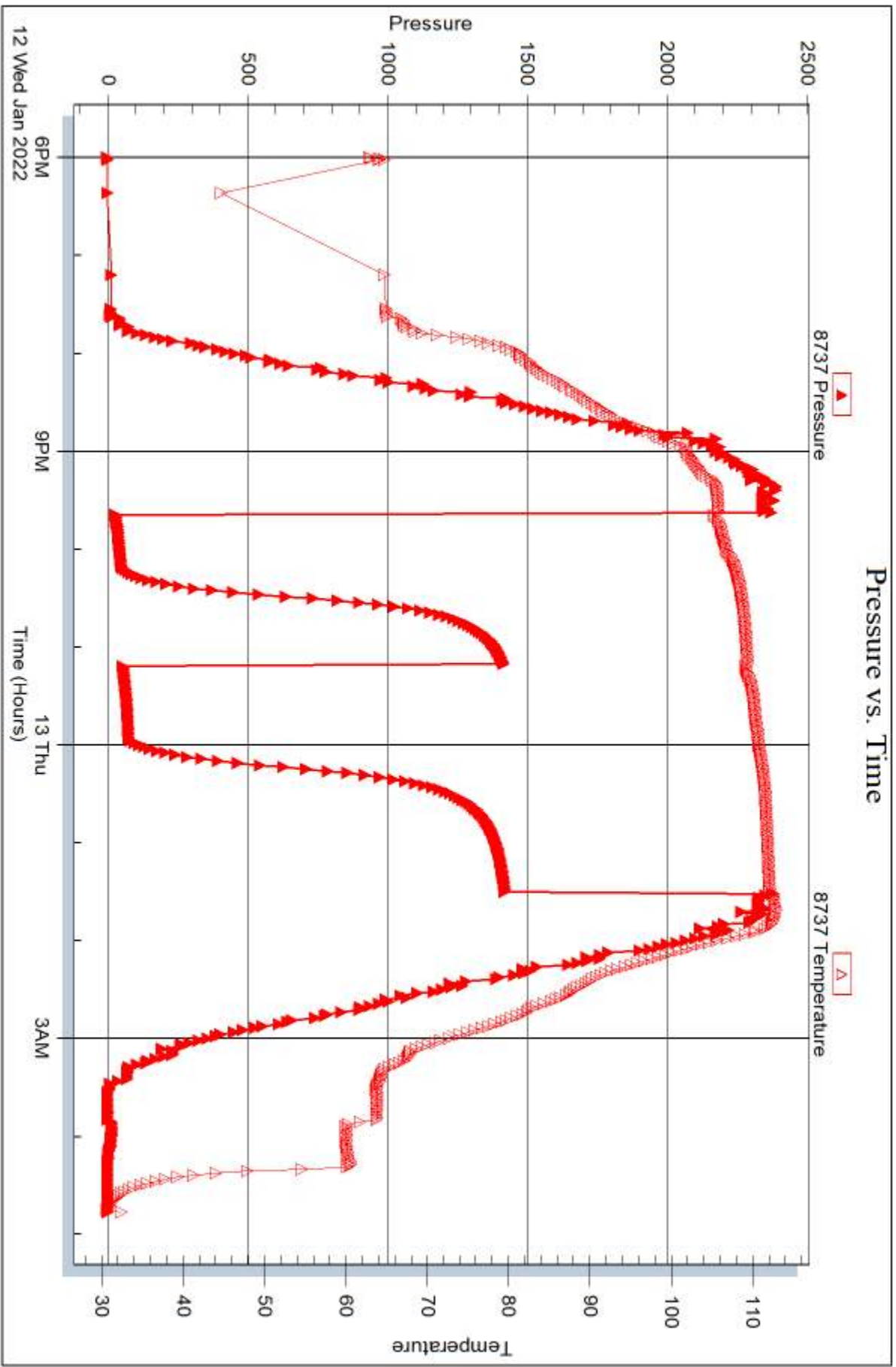


Serial #: 8737

Outside White Exploration Inc

Katz #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67220

Printed: 2022.01.19 @ 12:01:08



DRILL STEM TEST REPORT

Prepared For: **White Exploration Inc**

PO Box 780425
Wichita, KS. 67278

ATTN: Andy White

Katz #1

36-24s-22w Hodgeman,KS

Start Date: 2022.01.13 @ 11:58:37

End Date: 2022.01.13 @ 21:39:07

Job Ticket #: 67221 DST #: 2

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

Printed: 2022.01.19 @ 12:00:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

White Exploration Inc
PO Box 780425
Wichita, KS. 67278
ATTN: Andy White

36-24s-22w Hodgeman,KS

Katz #1

Job Ticket: 67221

DST#: 2

Test Start: 2022.01.13 @ 11:58:37

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:29:22
 Tester: Matt Smith
 Time Test Ended: 21:39:07
 Unit No: 68
 Interval: **4750.00 ft (KB) To 4770.00 ft (KB) (TVD)**
 Reference Elevations: 2376.00 ft (KB)
 Total Depth: 4770.00 ft (KB) (TVD)
 2369.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 7.00 ft

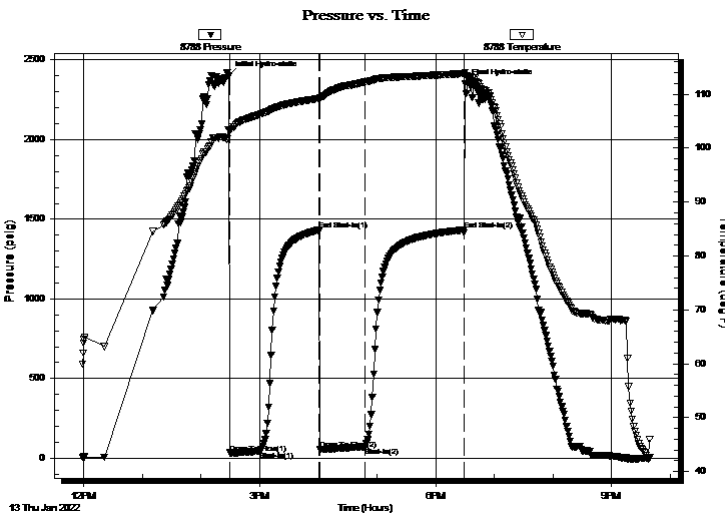
Serial #: 8788

Inside

Press@RunDepth: 70.98 psig @ 4751.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.01.13 End Date: 2022.01.13 Last Calib.: 2022.01.13
 Start Time: 11:58:42 End Time: 21:39:07 Time On Btm: 2022.01.13 @ 14:27:52
 Time Off Btm: 2022.01.13 @ 18:30:22

TEST COMMENT: IF: Weak Blow . Built to 4.61". (30)
 IS: No Blow . (60)
 FF: Fair Blow . Built to 8.51". (45)
 FS: Weak Blow . Built to .73". (90)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2400.29	103.45	Initial Hydro-static
2	33.09	103.38	Open To Flow (1)
32	43.64	106.25	Shut-In(1)
93	1431.03	109.19	End Shut-In(1)
94	53.43	109.30	Open To Flow (2)
140	70.98	112.31	Shut-In(2)
241	1433.17	113.82	End Shut-In(2)
243	2353.35	114.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 10%g 35%o 55%m	0.46
60.00	GOCM 10%g 25%o 65%m	0.47
4.00	CO 100%o	0.06
0.00	1280' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration Inc

36-24s-22w Hodgeman,KS

PO Box 780425
Wichita, KS. 67278

Katz #1

Job Ticket: 67221

DST#: 2

ATTN: Andy White

Test Start: 2022.01.13 @ 11:58:37

Tool Information

Drill Pipe:	Length: 4605.00 ft	Diameter: 3.80 inches	Volume: 64.60 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.80 inches	Volume: 0.90 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 65.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4750.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Shale Packer in String on Request.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4720.00	
Shut In Tool	5.00			4725.00	
Hydraulic tool	5.00			4730.00	
Jars	5.00			4735.00	
EMT	3.00			4738.00	
Safety Joint	3.00			4741.00	
Packer	4.00			4745.00	31.00 Bottom Of Top Packer
Packer	5.00			4750.00	
Stubb	1.00			4751.00	
Recorder	0.00	8788	Inside	4751.00	
Recorder	0.00	8737	Outside	4751.00	
Perforations	16.00			4767.00	
Bullnose	3.00			4770.00	20.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration Inc

36-24s-22w Hodgeman,KS

PO Box 780425
Wichita, KS. 67278

Katz #1

Job Ticket: 67221

DST#: 2

ATTN: Andy White

Test Start: 2022.01.13 @ 11:58:37

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:

4300 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM 10%g 35%o 55%m	0.457
60.00	GOCM 10%g 25%o 65%m	0.470
4.00	CO 100%o	0.056
0.00	1280' GIP 100%g	0.000

Total Length: 124.00 ft

Total Volume: 0.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 37 @ 50 Degrees, 38@60

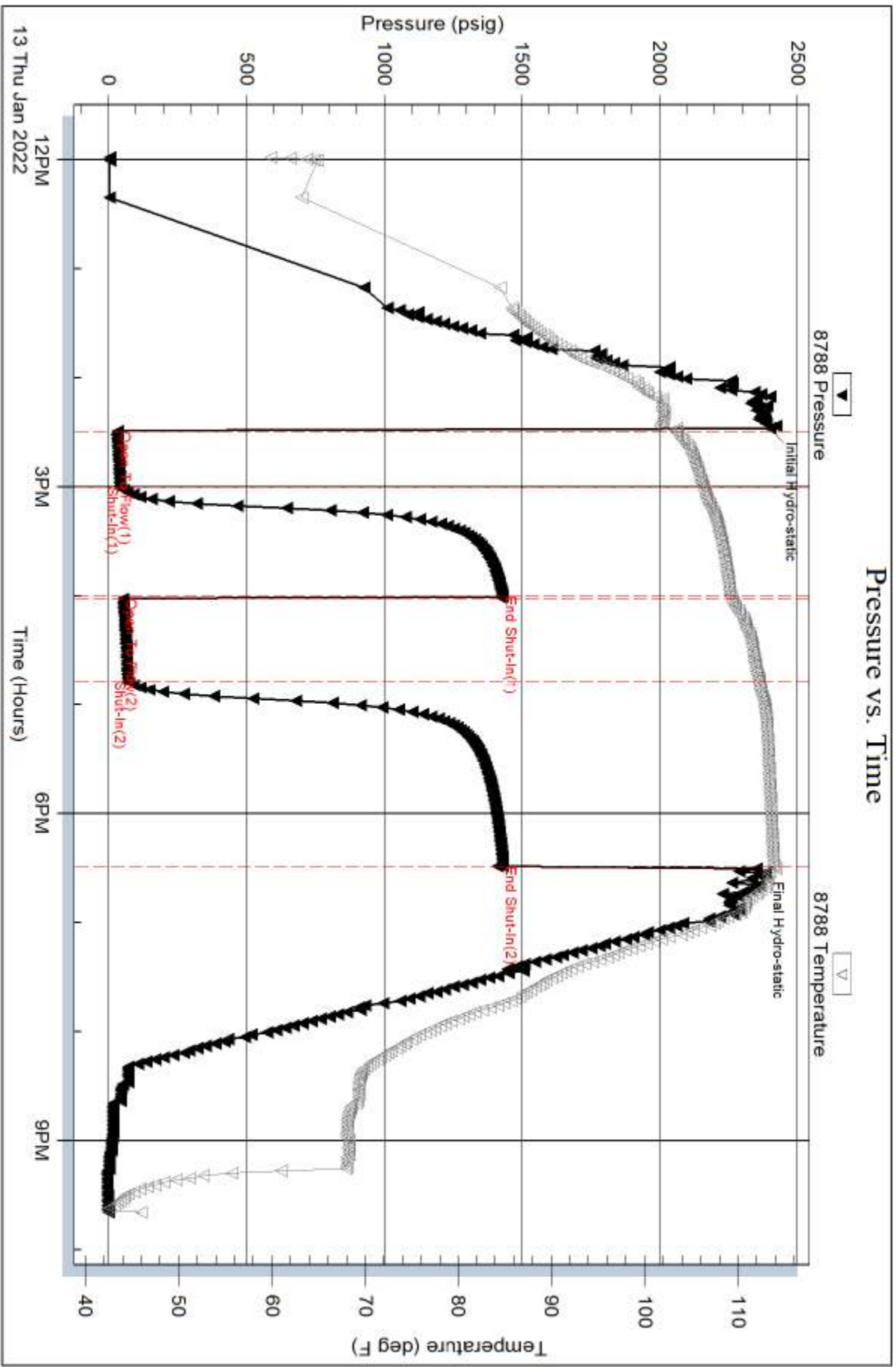
Serial #: 8788

Inside

White Exploration Inc

Katz #1

DST Test Number: 2

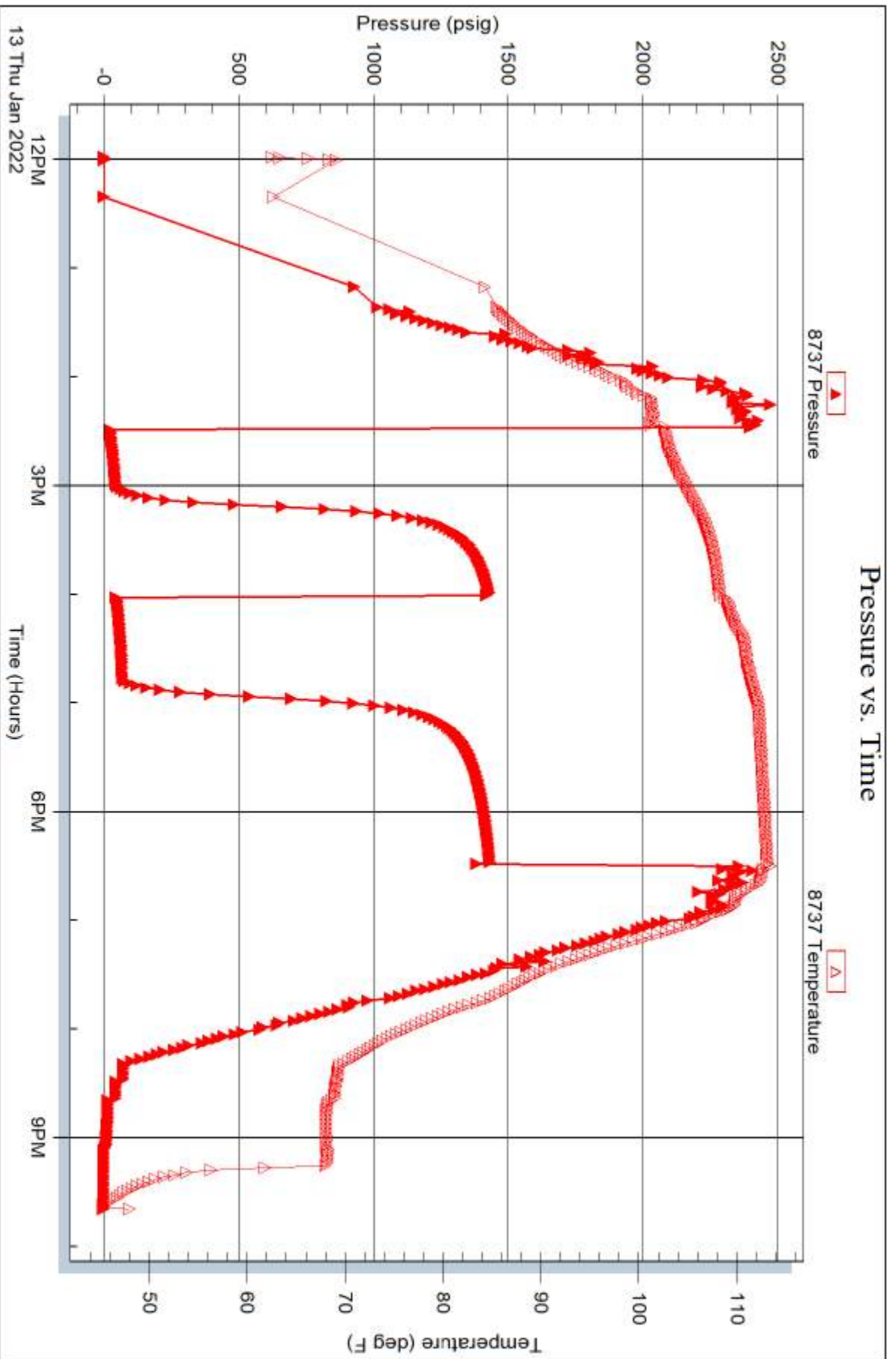


Serial #: 8737

Outside White Exploration Inc

Katz #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67221

Printed: 2022.01.19 @ 12:00:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67220

Well Name & No. Katz #1 Test No. 1 Date 01/12/27
 Company White Exploration, Inc. Elevation 2376 KB 2369 GL
 Address P.O. Box 780425 Wichita, KS. 67278
 Co. Rep / Geo. Andy White Rig Pickrell 10
 Location: Sec. 36 Twp 24S Rge. 22W Co. Hodgeman State KS.

Interval Tested 4690 - 4760 Zone Tested Mississippi
 Anchor Length 70' Drill Pipe Run 4573 Mud Wt. 9.2
 Top Packer Depth 4685 Drill Collars Run 120 Vis 60
 Bottom Packer Depth 4690 Wt. Pipe Run 12 WL 7.6
 Total Depth 4760 Chlorides 4700 ppm System LCM 1 1/2"

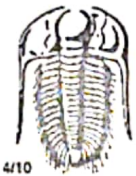
Blow Description IF: Weak - Fair Blow, Built to 5.46"
ISI: No Blow.
FF: Fair - Strong Blow, Built to 10.07"
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>635</u>	<u>G.I.P.</u>	<u>100</u>			
<u>5</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
<u>60</u>	<u>GOWCM</u>	<u>5</u>	<u>20</u>	<u>5</u>	<u>70</u>
<u>60</u>	<u>GOWCM</u>	<u>43</u>	<u>20</u>	<u>2</u>	<u>35</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125' Fluid BHT _____ Gravity N/A API RW N/A @ _____ °F Chlorides 4700 ppm

(A) Initial Hydrostatic 2365 Test 1450 T-On Location 1100
 (B) First Initial Flow 41 Jars 250 T-Started 1759
 (C) First Final Flow 52 Safety Joint 75 T-Open 2137
 (D) Initial Shut-In 1413 Circ Sub _____ T-Pulled 0135
 (E) Second Initial Flow 63 Hourly Standby 6.75 675 T-Out 0446
 (F) Second Final Flow 77 Mileage 146 Pratt 182.50 Comments * Bank was supposed to be @ 12:00 pm.
 (G) Final Shut-In 1421 Sampler _____
 (H) Final Hydrostatic 2382 Straddle _____ EM Tool 350
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 3232.50
 Sub Total 2882.50 MP/DST Disc't _____

Approved By _____ Our Representative Matthew Smith
 TriLOBITE TESTING INC. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67221

Well Name & No. Katz #1 Test No. 2 Date 6/13/22
 Company White Resources Inc. Elevation 2376 KB 2369 GL
 Address P.O. Box 780425 Wichita, KS. 67278
 Co. Rep / Geo. Andy White Rig Pickred 10
 Location: Sec. 36 Twp 24S Rge. 22W Co. Hodgeman State KS.

Interval Tested 4750 - 4770 Zone Tested Mississippi
 Anchor Length 20' Drill Pipe Run 4605 Mud Wt. 9.3
 Top Packer Depth 4745 Drill Collars Run 118 Vls 55
 Bottom Packer Depth 4750 Wt. Pipe Run 6 WL 7.2
 Total Depth 4770 Chlorides 4300 ppm System LCM 1st

Blow Description IF: Weak Blow. Buit to 4.61"
ISI: No Blow.

FF: Fair Blow. Buit to 8.51"

FSI: Weak Blow. Buit to .73"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1280</u>	<u>G.I.P.</u>	<u>100</u>			
<u>4</u>	<u>CO</u>		<u>100</u>		
<u>60</u>	<u>GOCM</u>	<u>10</u>	<u>25</u>		<u>65</u>
<u>60</u>	<u>GOCM</u>				
		<u>10</u>	<u>35</u>	<u>55</u>	<u>55</u>

Rec Total 124' Fluo BHT _____ Gravity 38@60° API RW N/A @ _____ ° F Chlorides 4300 ppm
 (A) Initial Hydrostatic 2400 Test 1450 T-On Location 1115
 (B) First Initial Flow 33 Jars 250 T-Started 1158
 (C) First Final Flow 44 Safety Joint 75 T-Open 1429
 (D) Initial Shut-In 1431 Circ Sub _____ T-Pulled 2020
 (E) Second Initial Flow 53 Hourly Standby _____ T-Out 2139
 (F) Second Final Flow 71 Mileage 146⁷ Pratt x'2 182.50 Comments * Catwalk 5:30 p.m.
 (G) Final Shut-In 1433 Sampler _____ 182.50 P.U.T.T. 11/14/22
 (H) Final Hydrostatic 2353 Straddle _____ EM Tool 350
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2740
 Sub Total 2390 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90

Approved By _____ Our Representative Matthew A. Smith
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.