

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	POWERS-BARLOW UNIT 1
Doc ID	1422003

All Electric Logs Run

Compensated Density/Neutron Log
Dual Induction Log
Micro Log
Sonic Log

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Tops

Name	Top	Datum
Base Stone Corral	2078	+917
Heebner Shale	3842	-847
Lansing	3902	-907
Stark Shale	4235	-1240
Base Kansas City	4372	-1377
Marmaton	4404	-1409
Morrow Shale	4750	-1755
Mississippi	4892	-1897

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	324	Premium Plus	675	2% CC, .25#/sack Celloflake
Surface	12.25	8.625	24	1775	A-Con and Premium Plus	580	430 sacks of A-Con Cement with 3% CC, 1/4# Celloflake /sack and 2% WCA-1 and 150 sacks of Premium Plus with 2% CC and 1/4# Celloflake /sack



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

Well Name: Powers-Barlow Unit #1
Location: 5-22S-31W
License Number: API: 15-055-22498
Spud Date: 08/27/18
Surface Coordinates: 2580' FNL, 1480' FEL

Region: Finney Co., KS
Drilling Completed: 09/06/18

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2984 **K.B. Elevation (ft):** 2995
Logged Interval (ft): 3700 **To:** 5000 **Total Depth (ft):** 5000
Formation: Mississippian
Type of Drilling Fluid: Chemical

Printed by MUD.LOG 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 DST results and absence of good structural position, the Powers-Barlow Unit #1 was Plugged and Abandoned

General Info

Drilling Contractor: Murfin Rig 21

Logs: ELI Wireline Services
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

DST: Trilobite

Surveys: 324'-1.1, 880'-.8, 1775'-.2, 3289'-.5, 4740'-.5, 5000'-.8

Daily Status

08/27/18: spud 8:00 p.m. Drill to 134' lost circ

08/28/18: Waiting on 17-1/2" bit to ream out surface hole and dry drill to set Conductor Casing. Dry drill to 324' set 8 joints of 13-3/8", 48# Conductor Casing, cement with 350 sacks Premium Plus Cement with 2% CC and 1/4 #sk Celloflake. Cement from 85' to surface with 325 sacks of Premium Plus Cement with 2% CC and 1/4#sk Celloflake

08/29/18: Waiting on Cement @ 324'

08/30/18: Drilling 12-1/4" Surface hole @ 860'

08/31/18: Running 8-5/8" Surface Casing @ 1775', ran 42 joints new 8-5/8" 24#, Set @ 1775', Cemented with 430 sacks A-Con Cement with 3%CC, 1/4# celloflake/sack and 2% WCA-1, and 150 sacks Premium Plus Cement with 2% CC and 1/4# Celloflake/sack

09/01/18: Drilling ahead @ 2157'

09/02/18: Drilling ahead @ 3289'

09/03/18: Drilling ahead @ 4207'

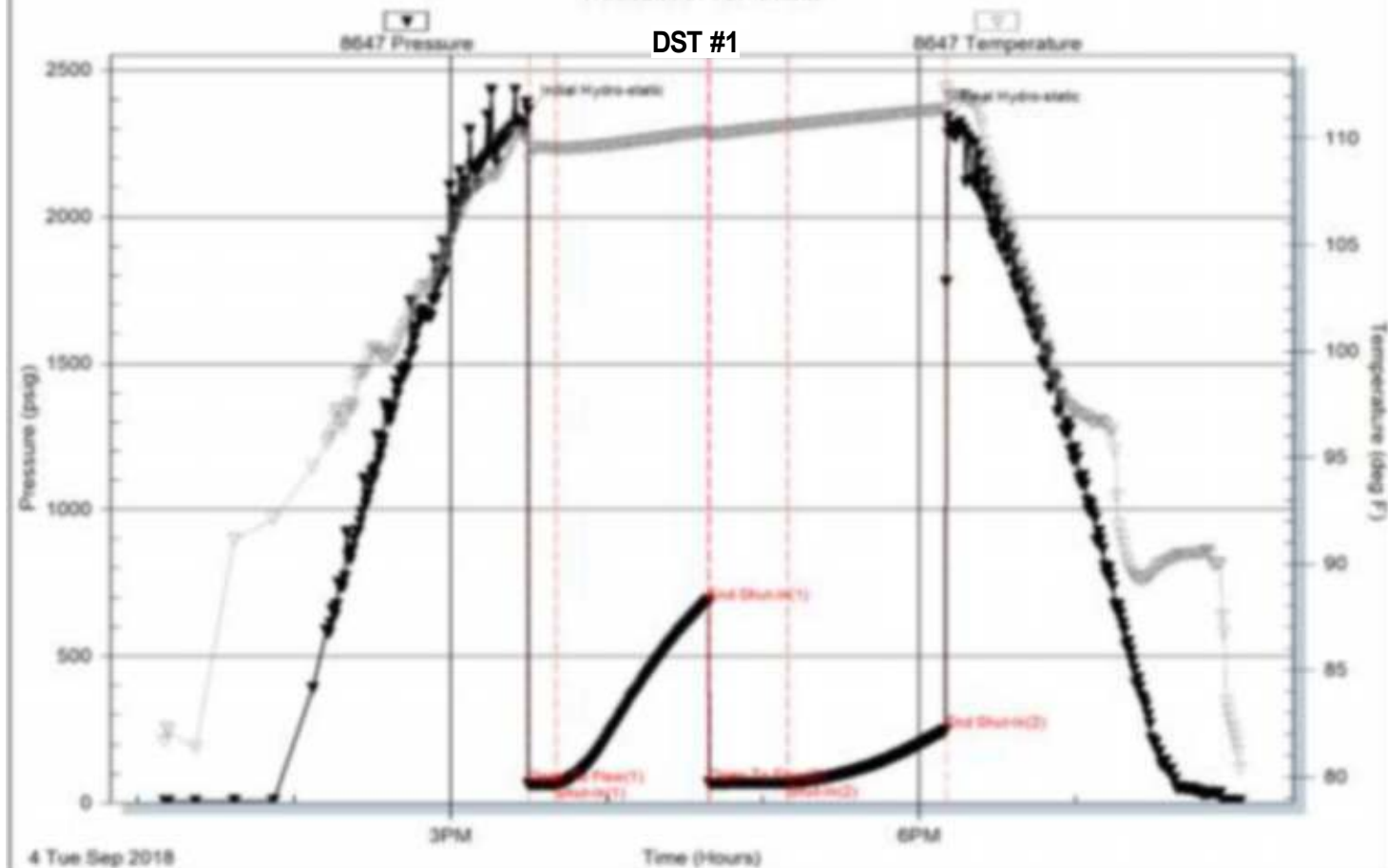
09/04/18: Making short trip for DST #1

09/05/18: Drilling ahead @ 4928'

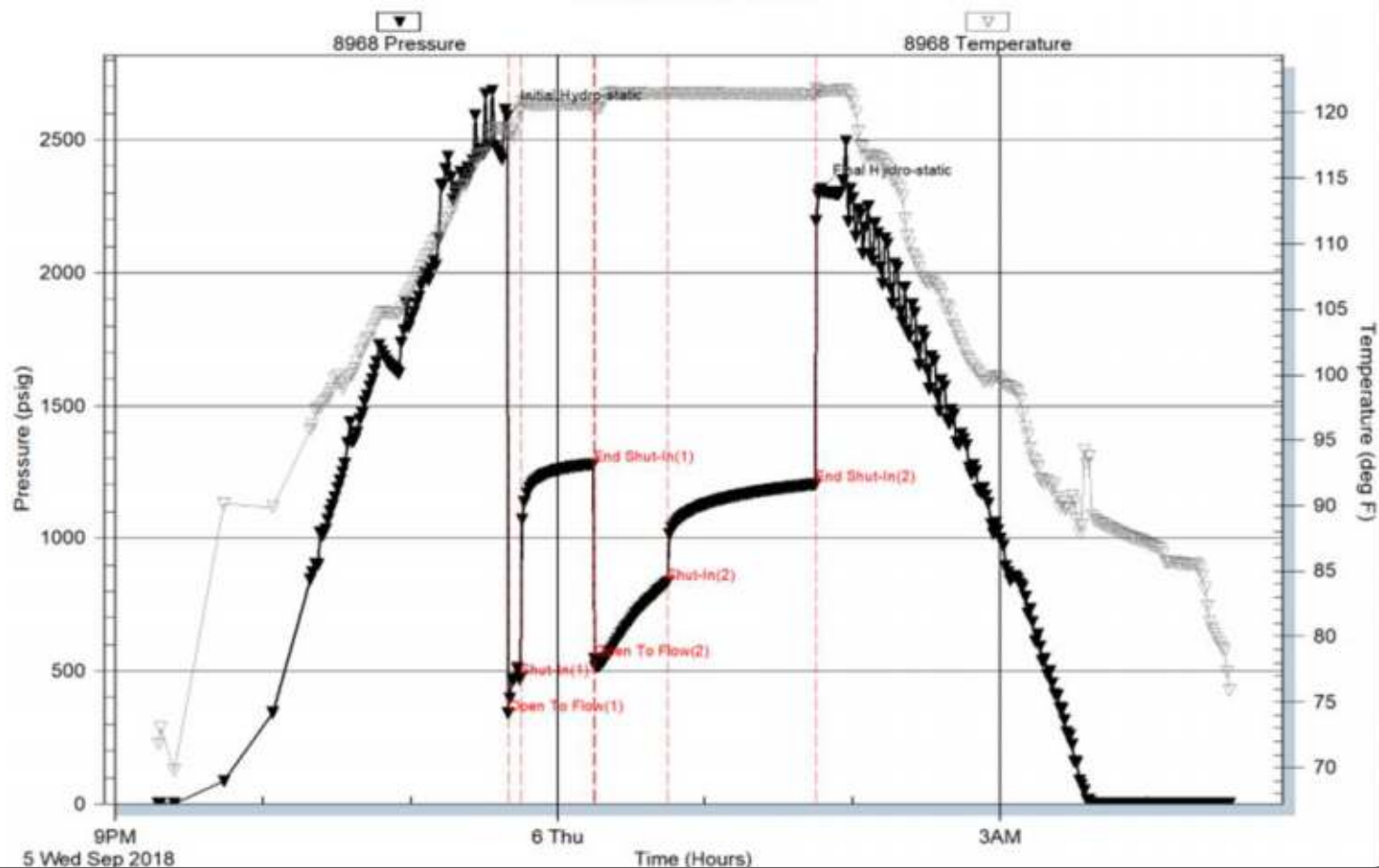
09/06/18: Going in hole for DST #3

White Ex				Kimbark		Kimbark		Stelbar		Merit	
Powers-Barlow				Billings #1		Billings #2		Power 1-33		Marlene 1-8	
5-22S-34W				4-22S-34W		4-22S-34W		33-21S-34W		8-22S-34W	
2580' FNL, 1480' FEL											
KB:2995				KB: 2970		KB: 2972		KB: 2980		KB: 2984	
Sample	Log	Datum		Relationship		Relationship		Relationship		Relationship	
B. Stone Corral		2078 917		-1		+5		-3		-37	
Heebner	3814	3842 -847		-33		-25		-20		-39	
Lansing	3864	3902 -907		-47		-32		-31		-43	
Stark Shale	4190	4235 -1240		-44		-34		-34		-47	
BKC	4322	4372 -1377		-51		-37		-41		-49	
Marmaton	4357	4404 -1409		-57		-42		-51		-53	
L Cherokee	4521	4561 -1566		-49		-32		-36		-47	
Morrow	4692	4750 -1755		-70		-47		-51		-57	
St. Gen	4893	4892 -1897		-153		-130		-123		-115	
St. Louis	4893	4900 -1905		-143		-117		-111		-101	

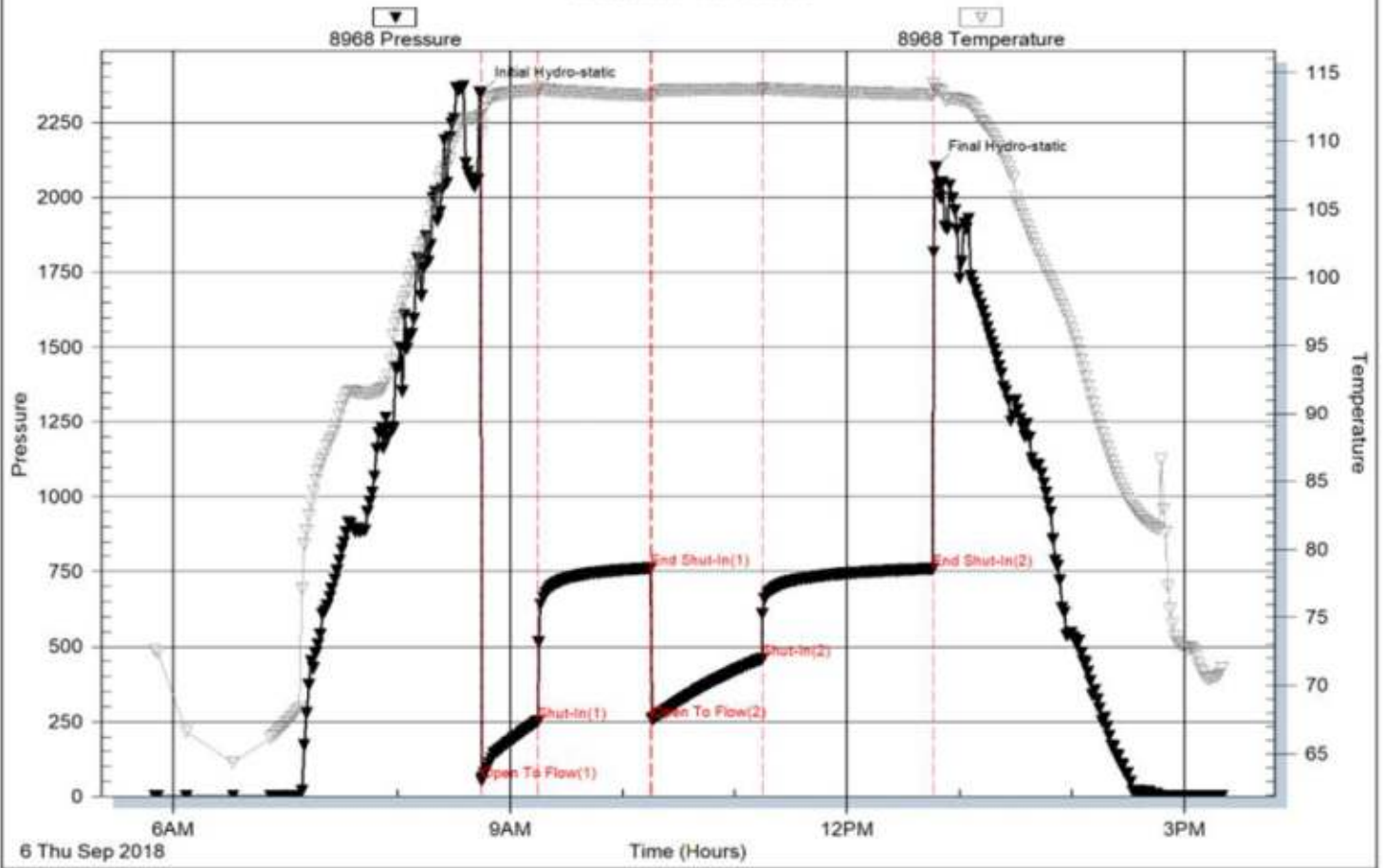
DST #1



Pressure vs. Time



Pressure vs. Time



ROCK TYPES

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl

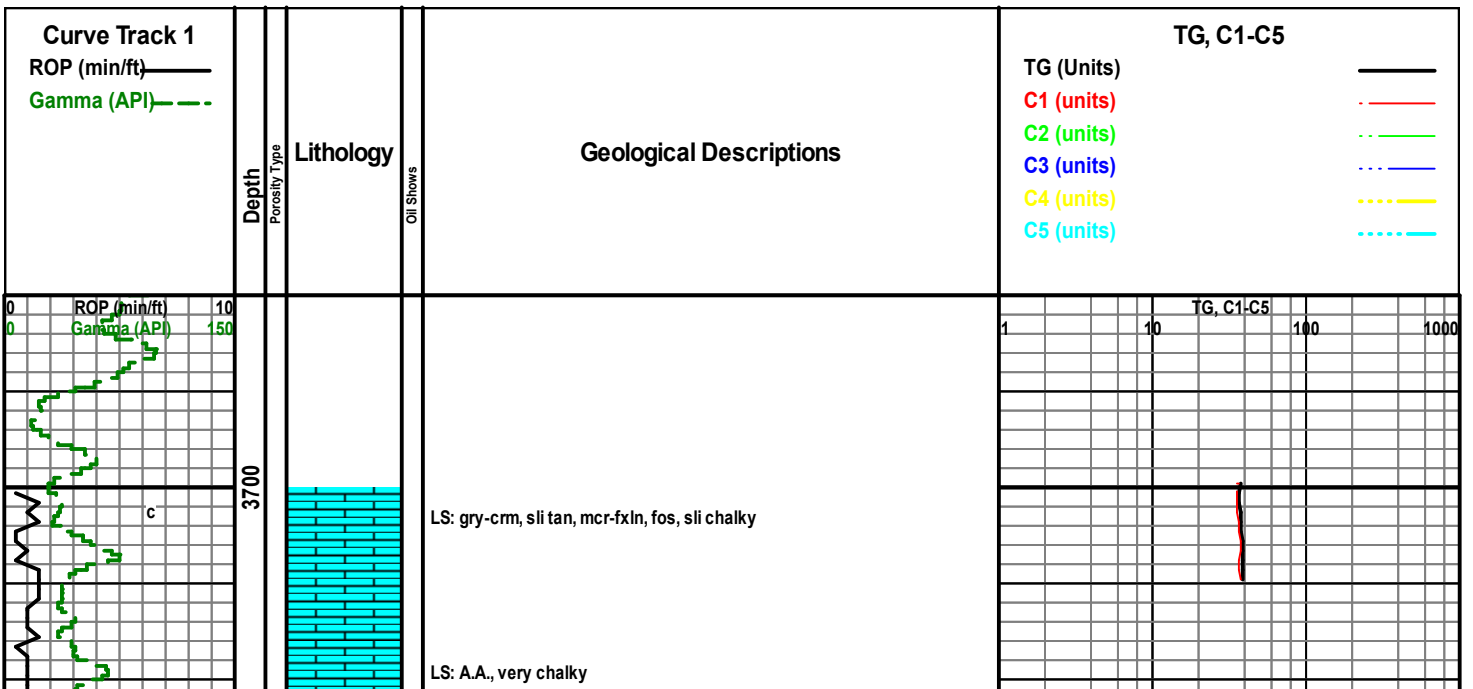
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale

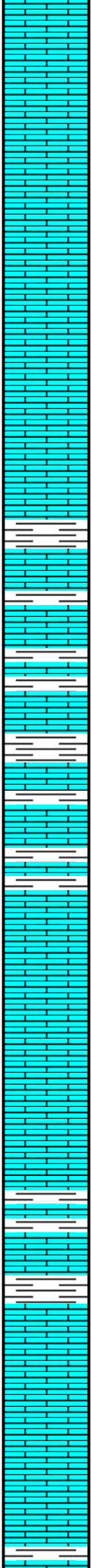
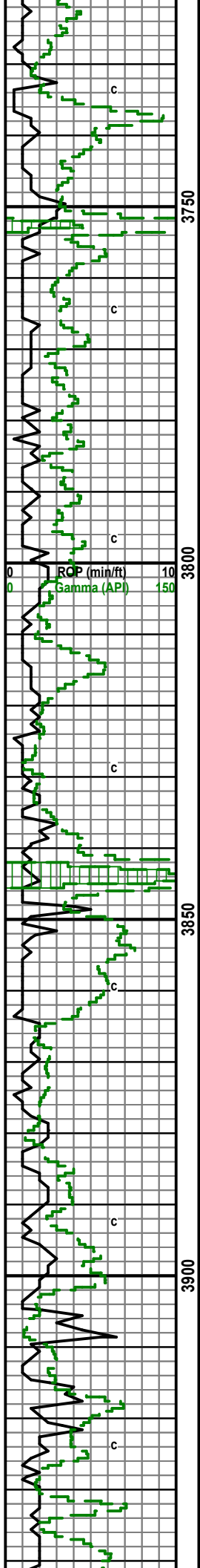
- Shcol
- Shgy
- Sltst
- Ss
- Till

- STRINGER
- Anhy

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

- Ssstrg
- OIL SHOW
- Even
- Spotted
- Ques
- Dead





LS: A.A.

LS: gry, sli crm-tan, mcr-fxln, sli mxln, fos, sli chalky

LS: gry-crm, sli tan, mcr-fxln, sli mxln, fos, sli chalky

LS: gry-crm, fxln, some mcrxln, fos, sli chalky

LS: crm-tan, sli gry, mcr-fxln, sli fos, chalky, some Sh: drk gry-blck

LS: crm, sli tan, fxln, some mcrxln, sli fos, chalky, Sh: A.A. with gry-lt gry

LS; crm, sli tan, f-mcrxln, fos, chalky, Sh: blck-drk gry

A.A.

LS: gry-crm, fxln, some mcrxln, fos

LS: crm-gry, mcrxln, sli fos, sli chalky

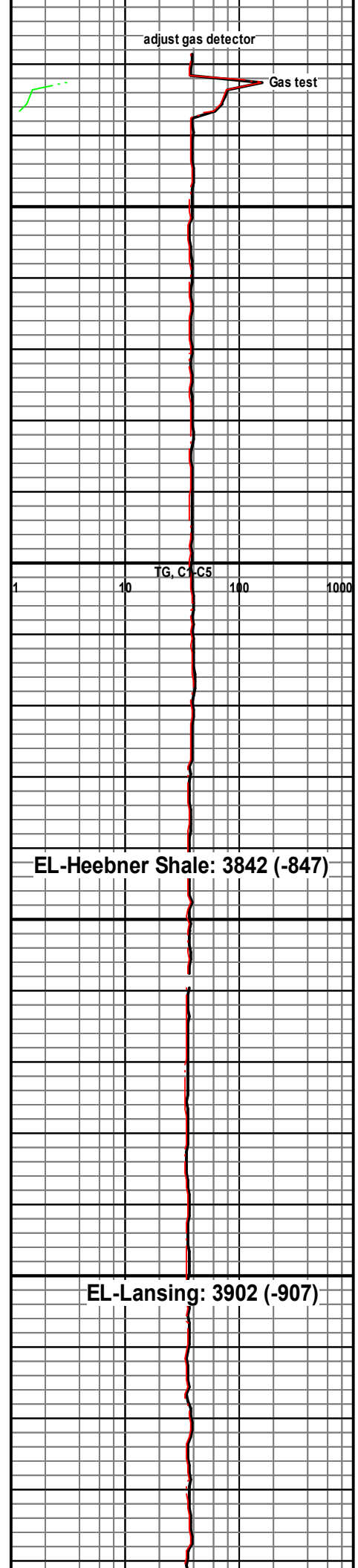
LS: crm, fxln, sli fos, sli chalky

LS: A.A. with Sh: gry, sli gm, sli red

LS; crm, sli tan-gry, mcrxln, some fxln, fos, sli chalk

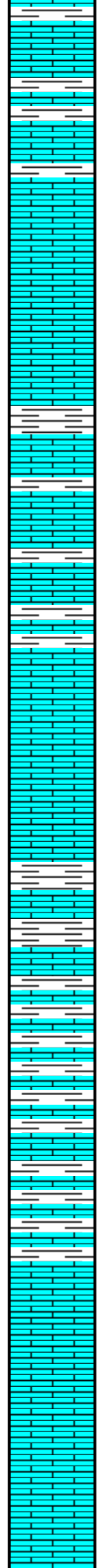
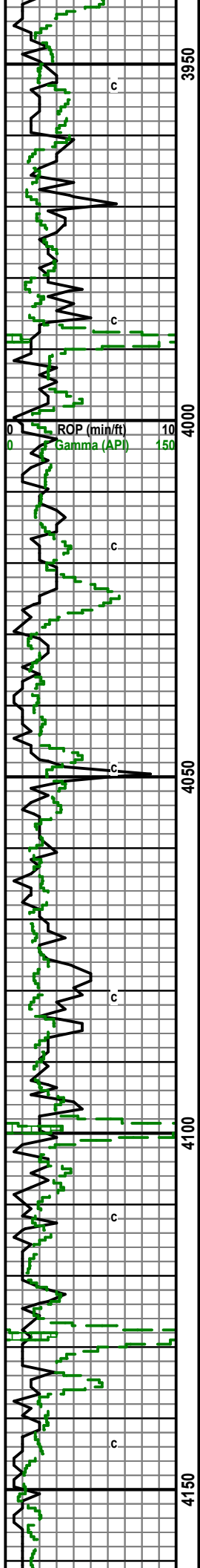
LS: gry, sli crm, mcr-fxln, fos, sli cherty

LS: crm, sli tan, fxln, some mcrxln, fos, sli chalky, Sh: drk gry



EL-Heebner Shale: 3842 (-847)

EL-Lansing: 3902 (-907)



LS: crm-gry, sli tan, fxln, some mcr-mxln, fos, sli chalk, Sh: gry-lt gry

LS: A.A. Sh: A.A.

LS: crm-gry-tan, fxln, fos,

LS: A.A.

LS; A.A. and Sh: gry-drk gry-blck

LS; crm-tan, sli gry, f-mcrxln, fos, Sh: gry-lt gry, some gm,

LS: crm-tan, mcr-fxln, some mxln, fos, sli cherty, Sh: gry-gm-drk gry

LS: crm, sli tan, mcrxln, fos

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

LS: A.A.

LS: A.A. and Sh: gry-red, sli gm, drk gry

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

Sh: gry-drk gry, some LS: A.A.

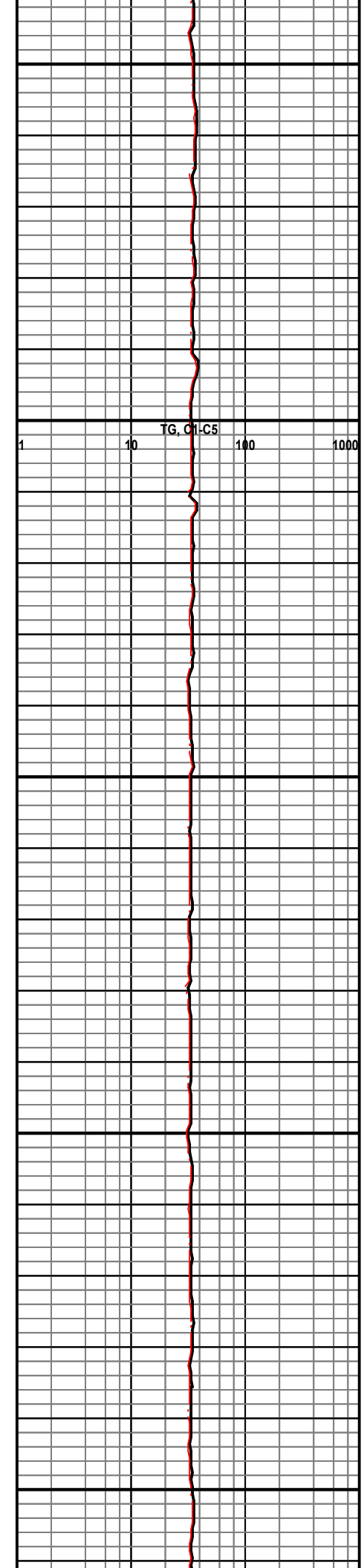
Sh:A.A. LS: gry-crm, mcrxln, sli fos

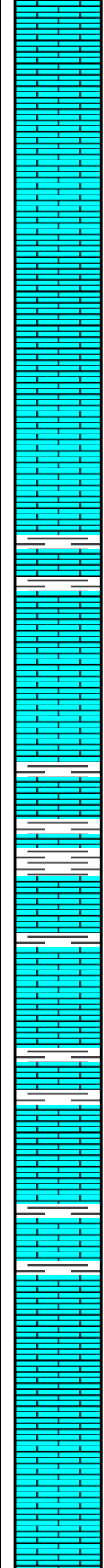
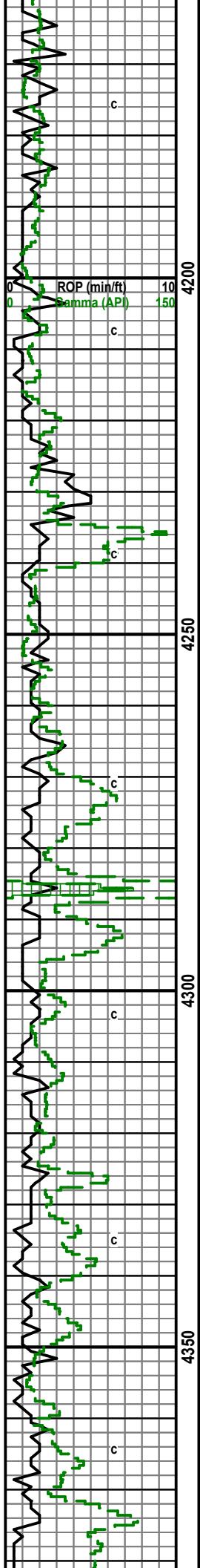
LS: crm, sli gry, mcrxln, sli fos, sli chalk, sli chert

LS: crm-tan,sli gry, mcrxln, some fxln,

LS: crm-tan, mcr-fxln, fos, some ool

LS: crm-tan, mcr-fxln, fos, ool, chalky





LS: A.A.

A.A. sample mostly chalk

LS; crm-tan, ool, sli chalky

LS: A.A.

LS; crm-tan, mcr-fxln, sli fos, sli ool

LS: crm-tan, Sh: gry, (pr sample)

LS: crm, very chalky

LS: gry-crm, mcrxln, Sh: gry

Sh: gry-drk gry, some LS: crm-gry, mcrxln

A.A.

LS; crm-gry, some Sh: A.A. chalky

LS: crm-gry, mcrxln

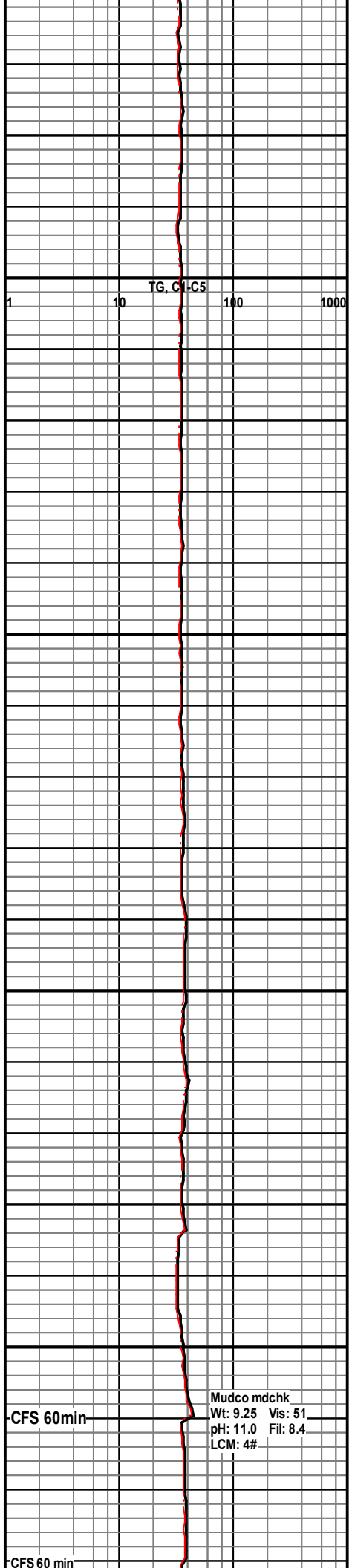
LS: A.A. with Sh: gry-red, some lt gry slt, some gm

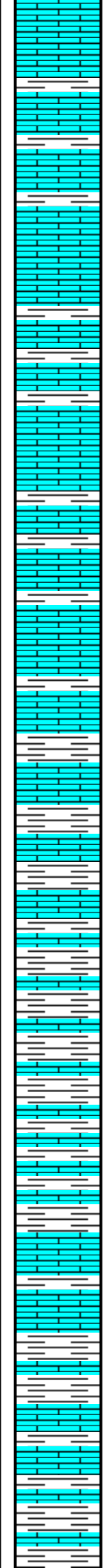
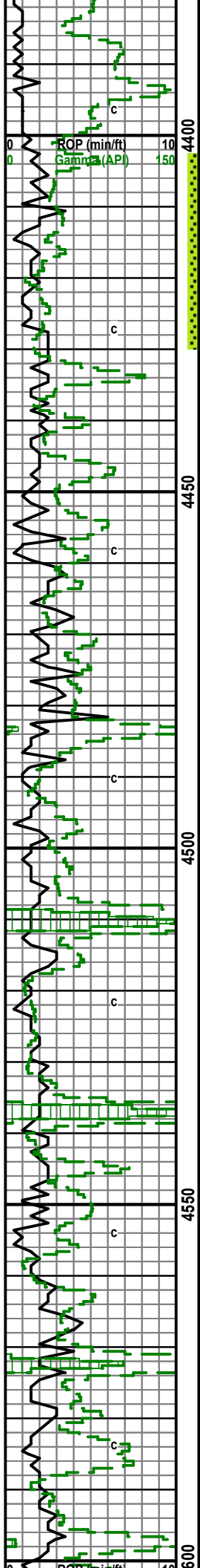
LS: crm-tan, f-mxln, dense

LS: crm-tan, some gry, mxln-fxln, fos, some ool, pos dead to faint stain, no odor, pos dull yellow fluor, pos vvr sli sho FO

LS: crm-gry, sli tan, fxln, some mxln,

LS: A.A.





LS: crm-gry, mcr-fxln, some mxln, fos, sli ool, Sh: gry-drk gry-slit lt gry, sli grn

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

A.A.

LS: crm, sli gry, mcr-fxln, fos, Sh: drk gry-blck, some gry-lt gry

LS: A.A. Sh: A.A.

A.A.

LS: gry, sli crm, fxln, fos, Sh: blck-drk gry-gry, some silty lt gry

A.A.

LS: gry sli crm, fxln, some mcr-mxln, fos, Sh: blck-drk gry-gry

Sh: blck-drk gry-gry, some LS: crm-gry, mxln fos, sli chalky

A.A.

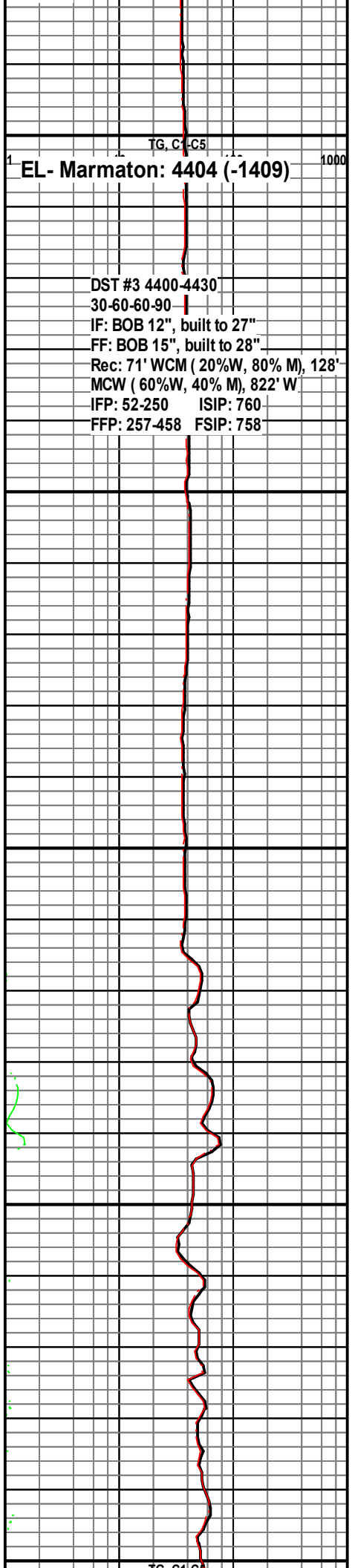
Sh: blck-drk gry-gry, LS: crm-gry, mcrxln-fxln, sli fos, chalky

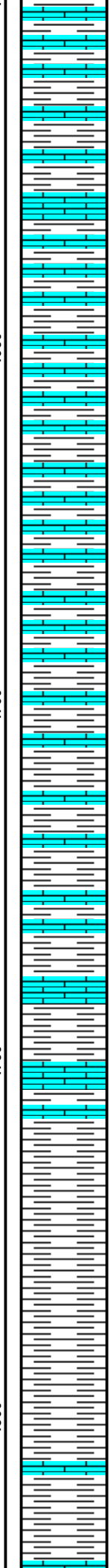
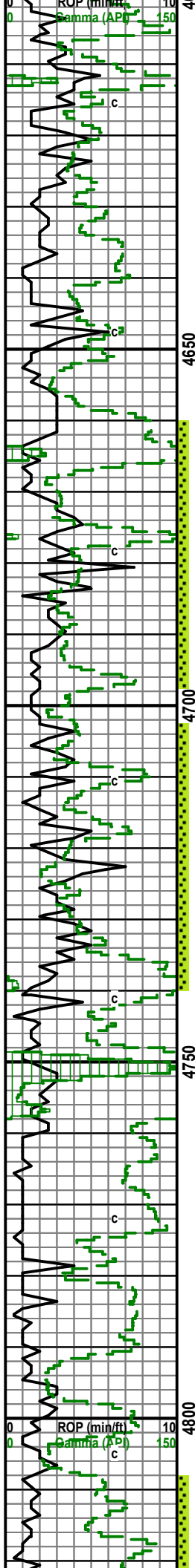
LS: crm-gry, sli tan, mxln, some fxln, fos, chalky Sh: A.A.

Sh: drk gry-gry, some LS: A.A.

LS: crm-gry, sli tan, mcr-fxln, fos, sli chalky, Sh: A.A.

Sh: drk gry-gry, some grn-lt gry, LS: gry-crm, mcr-fxln, fos, chalky





Sh and LS: A.A.

LS: gry-crm, mcrxln-fxln, some fxln, Sh: gry-drk gry

LS and Sh: A.A. some LS: crm, mxln, sandy, pos stain,

Sh: drk gry-blck-gry, some LS: gry-crm, mcr-fxln,

A.A.

LS: crm-gry, mcr-fxln, Sh: gry-drk gry

Sh and LS: A.A.

LS: crm-gry, mcrxln, sli fos, Sh: A.A.

LS: A.A. Sh: A.A. with few pieces LS: crm, m-fxln, sandy, pr stain, vr SFO

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

LS: crm-tan, mcr-fxln, Sh: A.A.

LS: crm-gry, mcrxln, Sh: drk gry-gry

LS: crm-gry-tan, mcrxln, some crm, fxln, pr stain, vr SFO

LS: A.A. some SS: limey, opaque, vf-fgrn, well sort, well round, sli stain, sli SFO

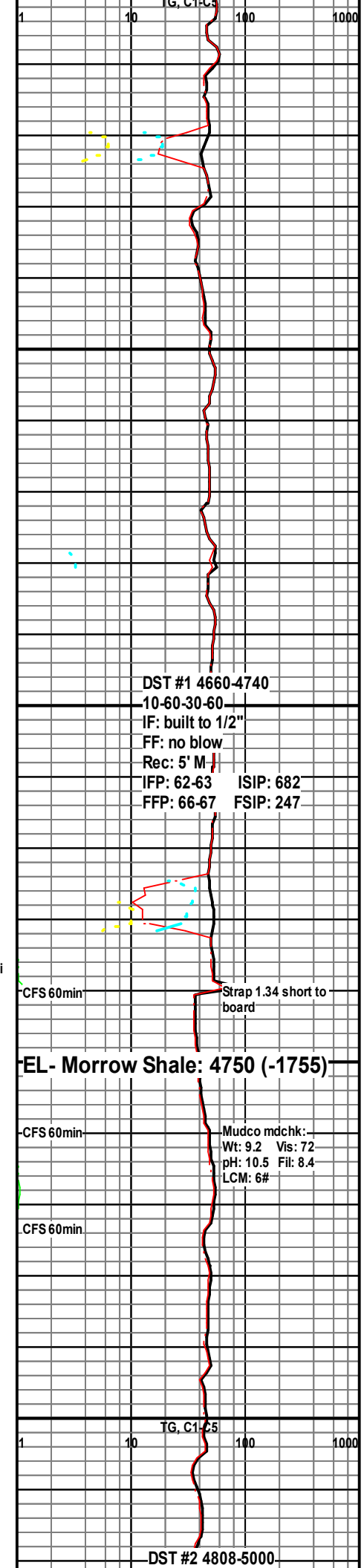
LS: gry-crm, mcr-fxln, some tan, mxln, gran, with Sh: gry-drk gry

Sh: green,red, blueish, gray

Sh: A.A. some silty lt gry

Sh: A.A.

Sh: A.A. with some LS: crm, sli gry, mcrxln,



DST #1 4660-4740
10-60-30-60
IF: built to 1/2"
FF: no blow
Rec: 5' M
IFP: 62-63 ISIP: 682
FFP: 66-67 FSIP: 247

CFS 60min Strap 1.34 short to board

EL- Morrow Shale: 4750 (-1755)

CFS 60min Mudco mdchk:
Wt: 9.2 Vis: 72
pH: 10.5 Fil: 8.4
LCM: 6#

CFS 60min

TG, C1-C5

DST #2 4808-5000



BASICSM

ENERGY SERVICES

**Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country
Estates Road, Liberal KS 67901**

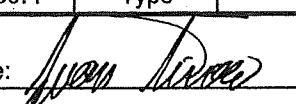
PRESSURE PUMPING

Job Log

Customer:	Ken White Exploration	Cement Pump No.:	38117, 19919 13Hrs.	Operator TRK No.:	96816	
Address:		Ticket #:	1718 15902 L	Bulk TRK No.:	14355, 37724 Angel	14355, 37724
City, State, Zip:		Job Type:	Z42 - Cement Surface Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Powers-Barlow Unit #1	Well Location:	5,22,34	County:	FINNEY	State: KS
Type of Cmt	Sacks	Additives		Truck Loaded On		
Premium Plus Cement	350	2% Calcium Chloride, 1/4# Polyflake		14355, 37724 Angel	Front	Back
Premium Plus Cement	325	Neat		14355, 37724	Front	Back
					Front	Back
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.34	6.33	469	TT Man Hours:	60
Tail:	14.8	1.33	6.34	432.25	# of Men on Job:	3
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps T C	Pressure(PSI) Tubing Casing	Description of Operation and Materials	
22:00					ON LOCATION & SAFETY MEETING	
22:30					RIG UP	
11:45 PM					RIG TO CIRCULATE	
12:10 AM					RIG TO P.T.	
12:16 AM					PRESSURE TEST TO 2400PSI	
0:19	4	83.5 slurry		90	PUMP 350SX @ 14.8#	
0:47					SHUTDOWN / DROP PLUG	
12:50 AM	3	10		20	DISPLACE	
	3	20		30		
	3	30		50		
1:08	3	34		60	SLOW RATE TO 1.5BPM @ 30PSI	
	1.5	40		40		
1:14	1.5	44.2		50	LAND PLUG / PRESSURE UP TO 230PSI	
1:16					RELEASE BACK — FLOAT HELD	
					CEMENT @ 85' FROM SURFACE	
7:28	2.4	76.9 slurry		20	PUMP 325SX @ 14.8#	
8:18					SHUTDOWN / CEMENT TO SURFACE / WAIT	
					JOB COMPLETE	
Size Hole	17 1/2"	Depth			TYPE	Plug Container
Size & Wt. Csg.	13 3/8" 48#	Depth	322.43'	New / Used	Packer	Depth
Landng Press.	95.5psi	Depth			Retainer	Depth
Shoe Jt.	40.78'	Type			Perfs	CIBP
Customer Signature: <i>Juan</i>				Basic Representative:		Daniel Beck
				Basic Signature:		<i>Daniel Beck</i>
				Date of Service:		8/29/2018

PRESSURE PUMPING

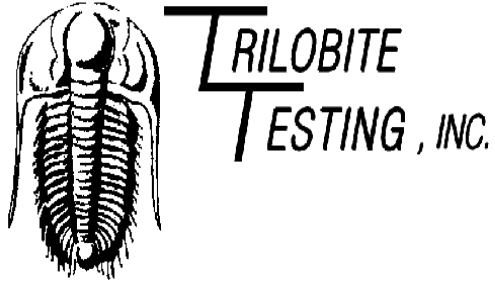
Job Log

Customer:	Ken White Exploration	Cement Pump No.:	38750-19842	Operator TRK No.:	38750-19842 Angel		
Address:		Ticket #:	1718 15797 L	Bulk TRK No.:	14355-37724 Willie	30464-19883 Rogelio	
City, State, Zip:		Job Type:	Z42 - Cement Surface Casing				
Service District:	1718 Liberal ks.	Well Type:	OIL				
Well Name and No.:	Powers-Barlow Unit #1	Well Location:		County:	Finney	State:	Ks
Type of Cmt	Sacks	Additives	Truck Loaded On				
A-CON' BLEND	430	3% Calcium Chloride, 1/4# Celloflake, .2% WCA-1	14355-37724 Willie		Front	Back	
PREMIUM PLUS CEMENT	150	2% Calcium Chloride, 1/4# Celloflake	30464-19883 Rogelio		Front	Back	
					Front	Back	
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel		
Lead:	11.4	2.95	18.1	1268.5	Man Hours:	45	
Tail:	14.8	1.34	6.33	201	# of Men on Job:	4	
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps T C	Pressure (PSI) Tubing Casing	Description of Operation and Materials		
4:30					ON LOCATION		
5:00					SAFETY MEETING		
5:15 AM					RIG UP		
10:06 AM	0.3	0.3		1000	PRESSURE TEST		
10:08 AM	5.3	226		230	PUMP 430SX @11.4#		
11:00	5.3	35.7		220	PUMP 150SX @14.8#		
11:09					DROP PLUG		
11:11 AM	5	20-Oct		160	DISPLACEMENT		
	5.1	30		210			
	5.2	40		240			
	5	50		280			
	4.8	60		300			
	4.7	70		340			
	4.3	80		380			
	4	90		400			
11:31	2	95		440	SLOW RATE		
11:37	2	110		700	PLUG LANDED		
11:42					RELEASE PRESSURE/ FLOAT HELD-0-PSI		
					SHUT DOWN RIG DOWN		
Size Hole	12 1/4	Depth	1775'		TYPE		
Size & Wt. Csg.	8 5/8 24#	Depth	1772.64	New / Used	Packer	Depth	
tbq.		Depth			Retainer	Depth	
Top Plugs	1730.4'	Type			Perfs	CIBP	
Customer Signature: 				Basic Representative:		RUBEN MARTINEZ	
				Basic Signature:			
				Date of Service:		8/31/2018	



PRESSURE PUMPING

[illegible]



DRILL STEM TEST REPORT

Prepared For: **White Exploration Inc.**

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

5-22-34 Finney,KS

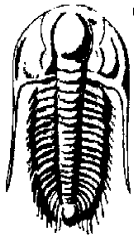
Start Date: 2018.09.04 @ 13:10:15

End Date: 2018.09.04 @ 20:03:00

Job Ticket #: 64349 DST #: 1

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

Printed: 2018.09.07 @ 10:46:20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkw y
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney,KS

Powers Barlow Unit 1

Job Ticket: 64349

DST#: 1

Test Start: 2018.09.04 @ 13:10:15

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:45

Time Test Ended: 20:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4660.00 ft (KB) To 4740.00 ft (KB) (TVD)

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8647 Inside

Press@RunDepth: 67.36 psig @ 4730.00 ft (KB)

Start Date: 2018.09.04

End Date:

2018.09.04

Start Time: 13:10:15

End Time:

20:03:00

Capacity: 8000.00 psig

Last Calib.: 2018.09.04

Time On Btm: 2018.09.04 @ 15:29:30

Time Off Btm: 2018.09.04 @ 18:10:45

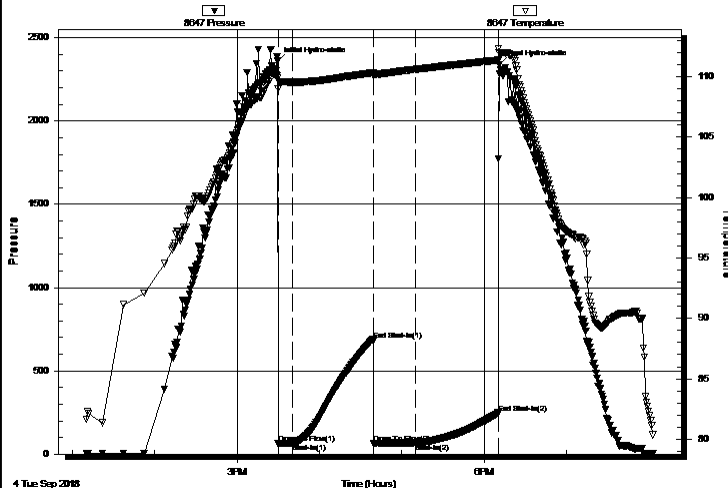
TEST COMMENT: IF: Built to 1/2" blow

IS: No return blow

FF: No blow

FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.92	109.87	Initial Hydro-static
1	62.34	109.00	Open To Flow (1)
11	63.96	109.55	Shut-In (1)
70	682.00	110.33	End Shut-In (1)
70	66.29	110.11	Open To Flow (2)
101	67.36	110.61	Shut-In (2)
161	247.39	111.37	End Shut-In (2)
162	2337.26	112.03	Final Hydro-static

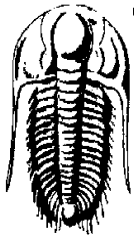
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney, KS

Powers Barlow Unit 1

Job Ticket: 64349

DST#: 1

Test Start: 2018.09.04 @ 13:10:15

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:45

Time Test Ended: 20:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4660.00 ft (KB) To 4740.00 ft (KB) (TVD)

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8374 Outside

Press@RunDepth: psig @ 4730.00 ft (KB)

Start Date: 2018.09.04

End Date:

2018.09.04

Start Time: 13:10:15

End Time:

20:03:00

Capacity: 8000.00 psig

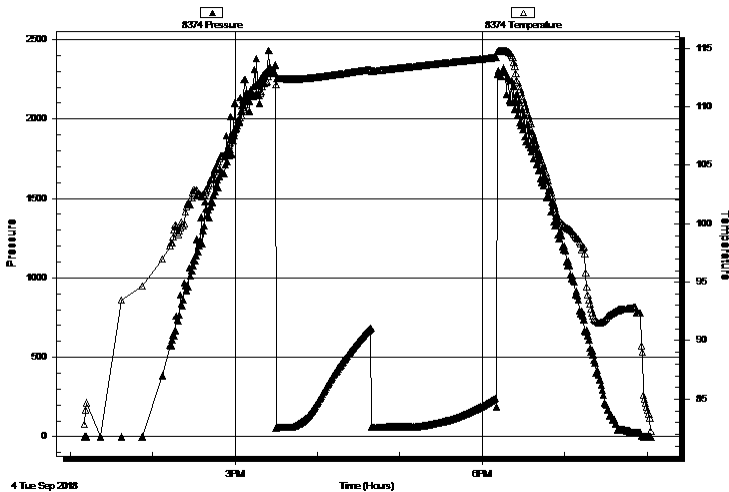
Last Calib.: 2018.09.04

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/2" blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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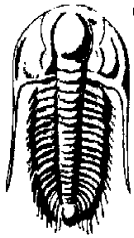
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64349

DST#: 1

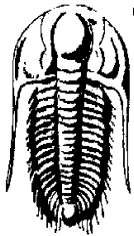
Test Start: 2018.09.04 @ 13:10:15

Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume: 63.03 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4660.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4634.00	
Shut In Tool	5.00			4639.00	
Hydraulic tool	5.00			4644.00	
Jars	5.00			4649.00	
EM Tool	3.00			4652.00	
Safety Joint	3.00			4655.00	
Packer	5.00			4660.00	27.00 Bottom Of Top Packer
Packer - Shale	0.00			4660.00	
Stubb	1.00			4661.00	
Perforations	3.00			4664.00	
Change Over Sub	1.00			4665.00	
Drill Pipe	64.00			4729.00	
Change Over Sub	1.00			4730.00	
Recorder	0.00	8647	Inside	4730.00	
Recorder	0.00	8374	Outside	4730.00	
Perforations	5.00			4735.00	
Bullnose	5.00			4740.00	80.00 Anchor Tool
Total Tool Length:	107.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy

STE 100

Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64349

DST#: 1

Test Start: 2018.09.04 @ 13:10:15

Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	0 deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

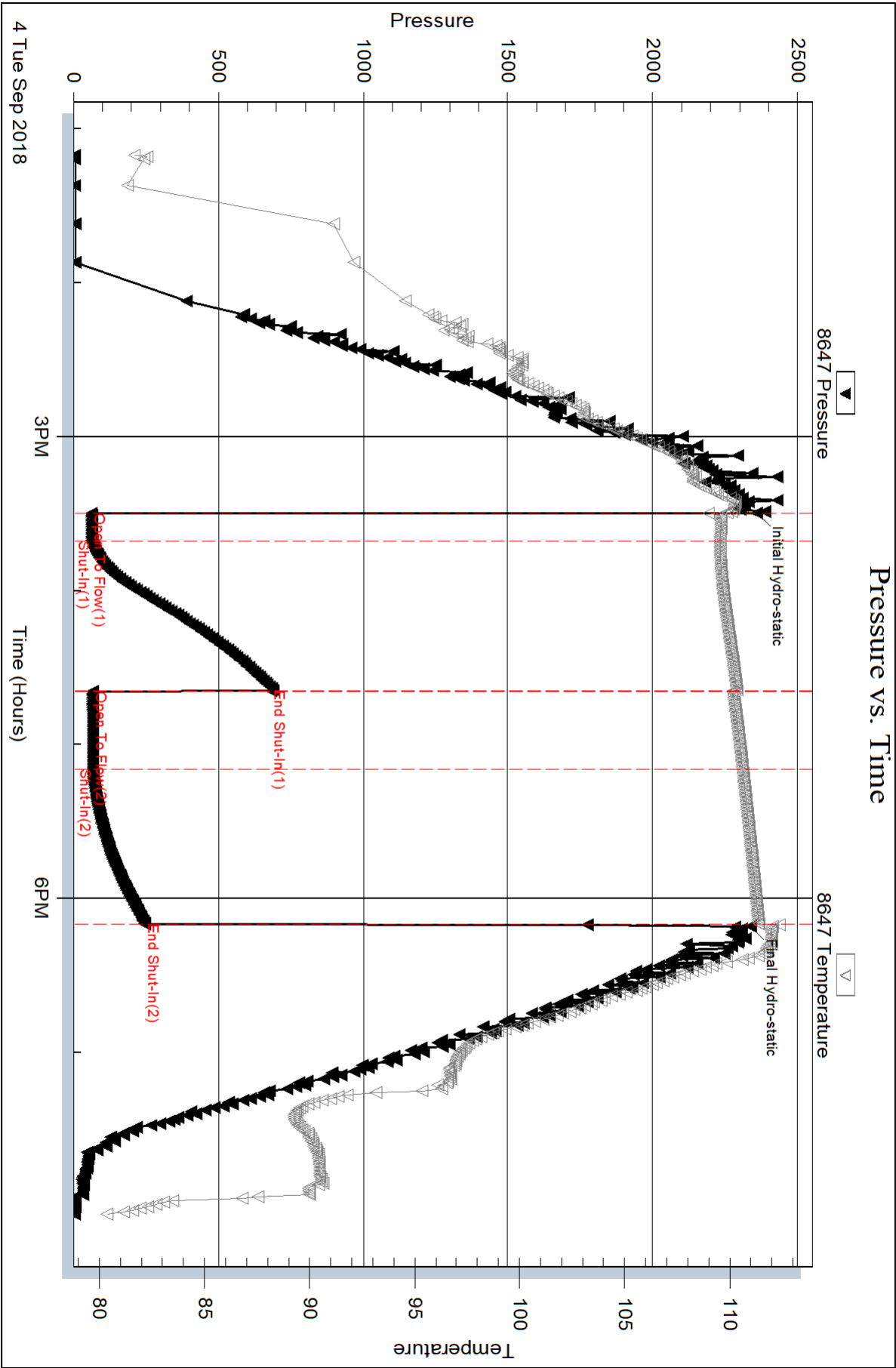
Serial #: 8647

Inside

White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 1

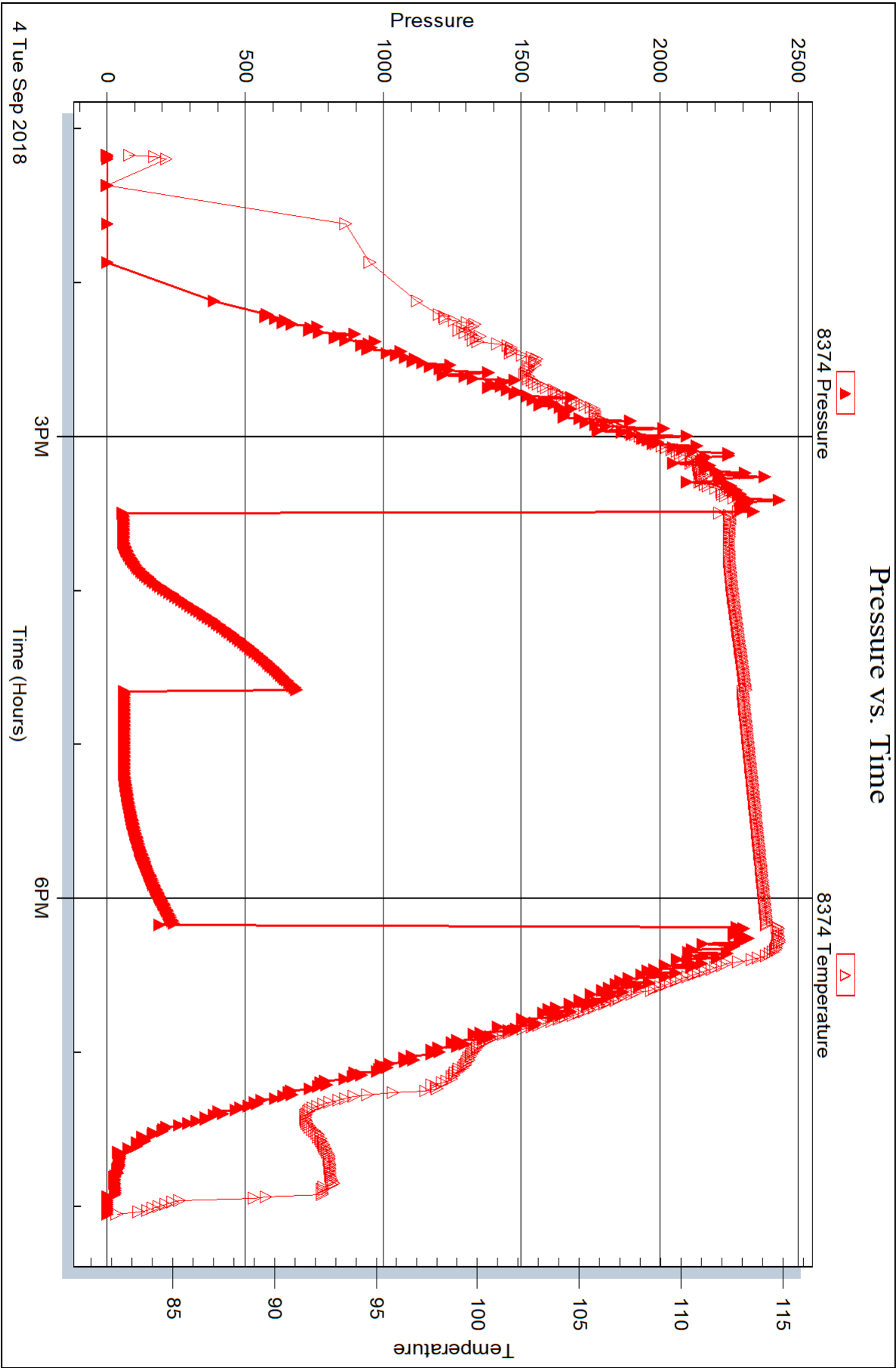


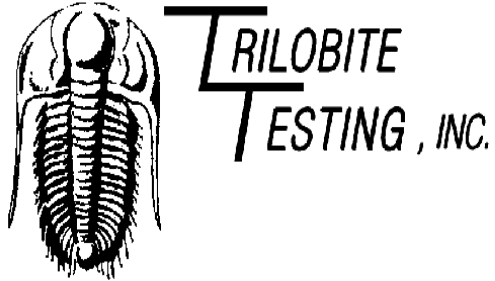
Serial #: 8374

Outside White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **White Exploration Inc.**

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

5-22-34 Finney,KS

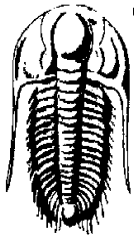
Start Date: 2018.09.05 @ 21:17:15

End Date: 2018.09.06 @ 04:33:15

Job Ticket #: 64350 DST #: 2

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

Printed: 2018.09.07 @ 10:45:59



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkw y
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney, KS

Powers Barlow Unit 1

Job Ticket: 64350

DST#: 2

Test Start: 2018.09.05 @ 21:17:15

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:45

Time Test Ended: 04:33:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4808.00 ft (KB) To 5000.00 ft (KB) (TVD)

Total Depth: 5000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8968 Inside

Press@RunDepth: 832.46 psig @ 4999.00 ft (KB)

Start Date: 2018.09.05

End Date:

2018.09.06

Start Time: 21:17:15

End Time:

04:33:15

Capacity: 8000.00 psig

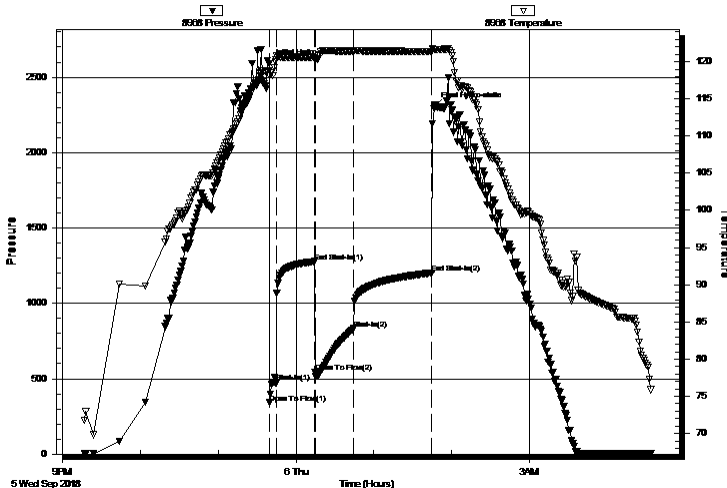
Last Calib.: 2018.09.06

Time On Btm: 2018.09.05 @ 23:39:15

Time Off Btm: 2018.09.06 @ 01:46:45

TEST COMMENT: IF:BOB in 2 min. built to 27" blow
IS:No return blow
FF:BOB in 2 min. Built to 110" blow
FS:Noreturn blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2588.55	118.82	Initial Hydro-static
1	340.39	118.06	Open To Flow (1)
6	474.06	120.27	Shut-In(1)
36	1277.04	120.58	End Shut-In(1)
36	545.49	120.10	Open To Flow (2)
65	832.46	121.41	Shut-In(2)
126	1201.67	121.34	End Shut-In(2)
128	2305.93	121.58	Final Hydro-static

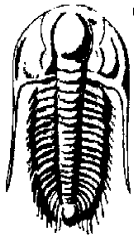
Recovery

Length (ft)	Description	Volume (bbl)
246.00	sw 100% sw	1.24
124.00	w cm 50%w 50%m	1.74
558.00	w cm 30%w 70%m	7.83
496.00	mud 100%m	6.96

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney, KS

Powers Barlow Unit 1

Job Ticket: 64350

DST#: 2

Test Start: 2018.09.05 @ 21:17:15

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:45

Time Test Ended: 04:33:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4808.00 ft (KB) To 5000.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 5000.00 ft (KB) (TVD)

2984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8374 Outside

Press@RunDepth: psig @ 4999.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.05

End Date:

2018.09.06

Last Calib.:

2018.09.06

Start Time: 21:17:15

End Time:

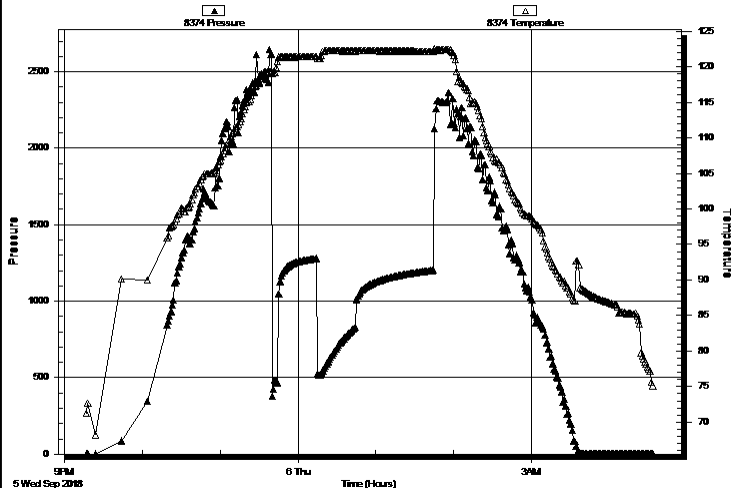
04:33:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min. built to 27" blow
IS:No return blow
FF:BOB in 2 min. Built to 110" blow
FS:Noreturn blow

Pressure vs. Time



PRESSURE SUMMARY

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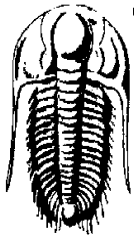
Recovery

Length (ft)	Description	Volume (bbl)
246.00	sw 100% sw	1.24
124.00	w cm 50%w 50%m	1.74
558.00	w cm 30%w 70%m	7.83
496.00	mud 100%m	6.96

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64350

DST#: 2

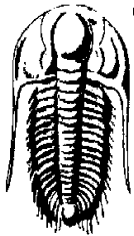
Test Start: 2018.09.05 @ 21:17:15

Tool Information

Drill Pipe:	Length: 4557.00 ft	Diameter: 3.80 inches	Volume: 63.92 bbl	Tool Weight:	0.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	120000.0 lb
		Total Volume:	65.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	1000223. ft				
Tool Length:	224.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4801.00	
Shut In Tool	5.00			4806.00	
Hydraulic tool	5.00			4811.00	
Jars	5.00			4816.00	
EM Tool	3.00			4819.00	
Safety Joint	3.00			4822.00	
Packer - Shale	5.00			4827.00	
Packer - Shale	5.00			4832.00	
Stubb	1.00			4833.00	
Perforations	4.00			4837.00	
Change Over Sub	1.00			4838.00	
Drill Pipe	160.00			4998.00	
Change Over Sub	1.00			4999.00	
Recorder	0.00	8968	Inside	4999.00	
Recorder	0.00	8374	Outside	4999.00	
Perforations	20.00			5019.00	
Bullnose	5.00			5024.00	224.00
					Anchor Tool
Total Tool Length:	224.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy

STE 100

Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64350

DST#: 2

Test Start: 2018.09.05 @ 21:17:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.94 in³

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity: 38000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
246.00	sw 100% sw	1.237
124.00	w cm 50%w 50%m	1.739
558.00	w cm 30%w 70%m	7.827
496.00	mud 100%m	6.958

Total Length: 1424.00 ft Total Volume: 17.761 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .245@ 63.8*= 38,000 ppm

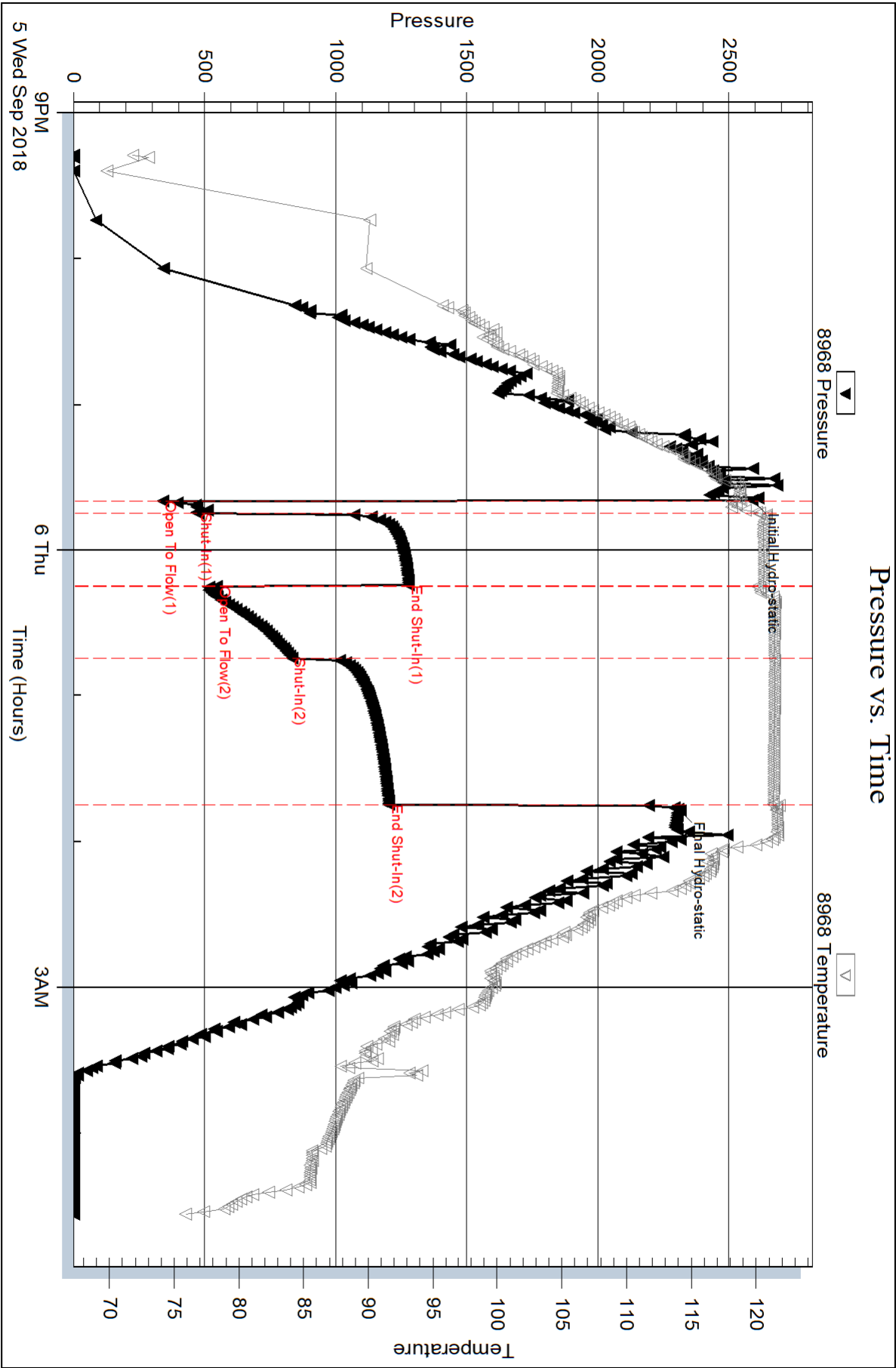
Serial #: 8968

Inside

White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 2

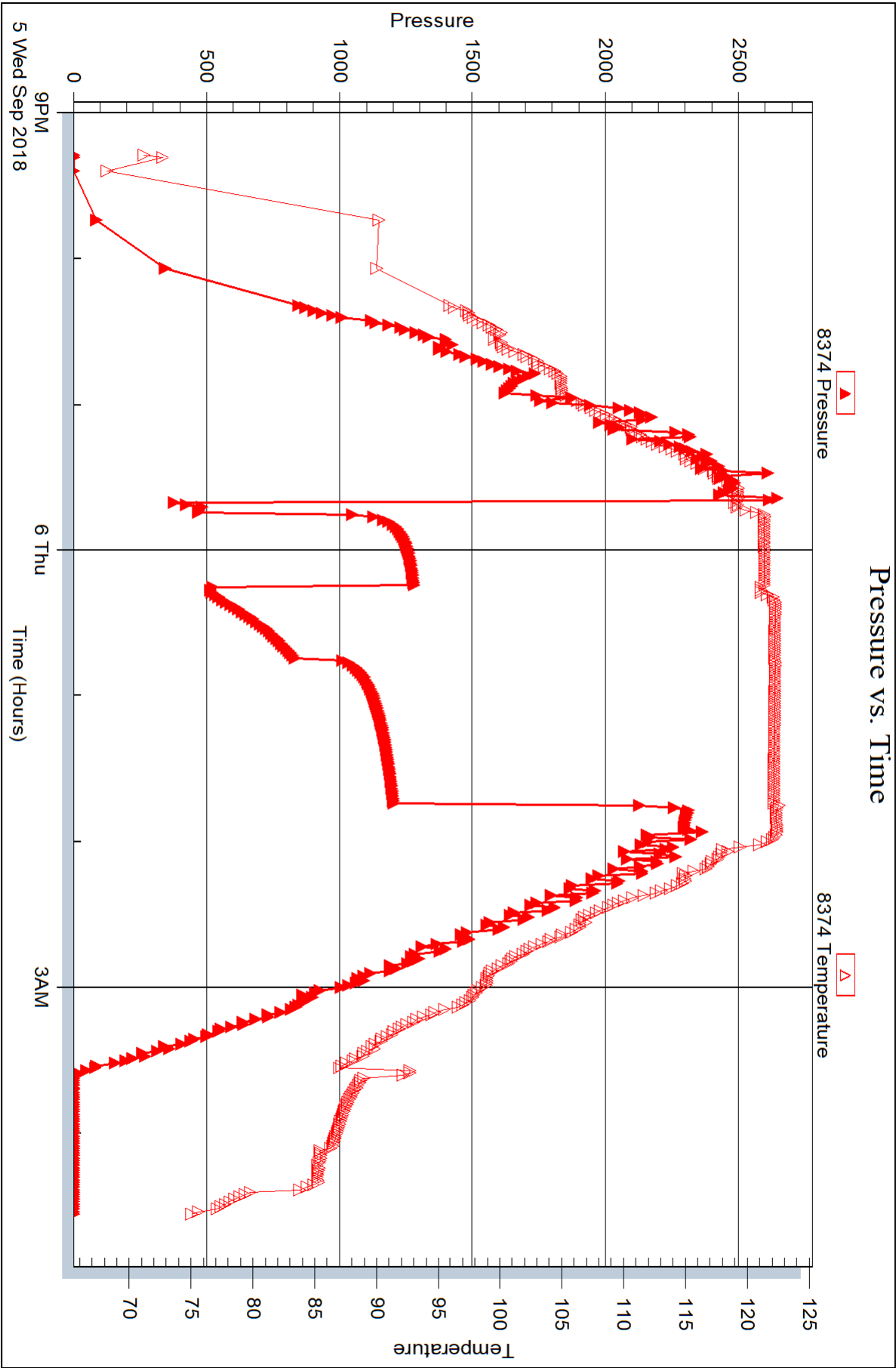


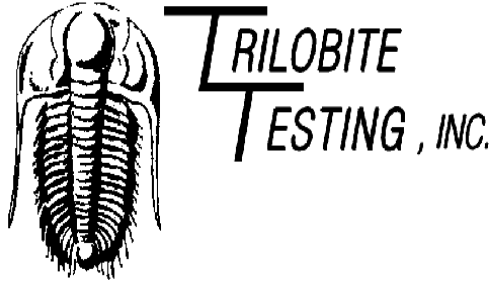
Serial #: 8374

Outside White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **White Exploration Inc.**

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

5-22-34 Finney,KS

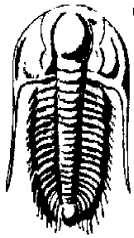
Start Date: 2018.09.06 @ 05:50:15

End Date: 2018.09.06 @ 15:19:45

Job Ticket #: 64376 DST #: 3

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

Printed: 2018.09.07 @ 10:45:39



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkw y
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney,KS

Powers Barlow Unit 1

Job Ticket: 64376

DST#: 3

Test Start: 2018.09.06 @ 05:50:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:44:30

Time Test Ended: 15:19:45

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4400.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 5000.00 ft (KB) (TVD)

2984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

Press@RunDepth: 458.88 psig @ 4426.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.06

End Date:

2018.09.06

Last Calib.:

2018.09.06

Start Time: 05:50:15

End Time:

15:19:45

Time On Btm:

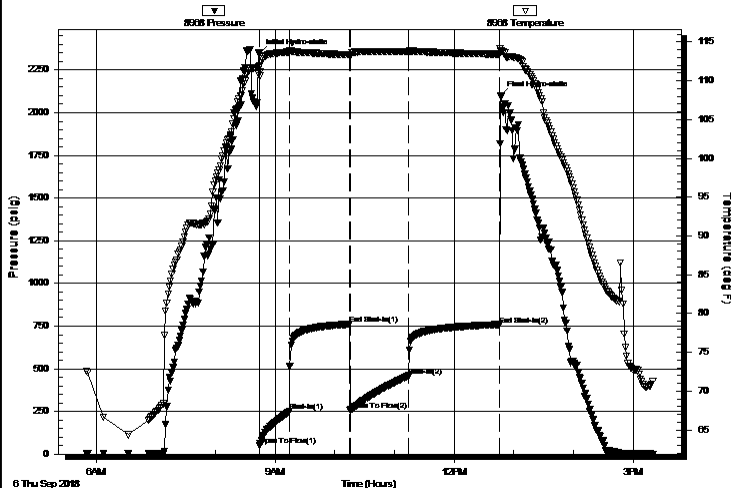
2018.09.06 @ 08:44:15

Time Off Btm:

2018.09.06 @ 12:47:00

TEST COMMENT: IF:BOB in 12 min built to 27" blow
IS:No return blow
FF:BOB in 15 min. built to 28" blow
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2346.25	111.86	Initial Hydro-static
1	52.89	110.58	Open To Flow (1)
31	250.64	113.70	Shut-In (1)
91	760.85	113.34	End Shut-In (1)
91	257.14	113.14	Open To Flow (2)
151	458.88	113.76	Shut-In (2)
242	758.71	113.41	End Shut-In (2)
243	2099.58	113.82	Final Hydro-static

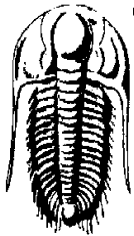
Recovery

Length (ft)	Description	Volume (bbl)
822.00	sw 100% sw	9.32
128.00	mcw 40% m 60% w	1.80
71.00	w cm 20% w 80% m	1.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney, KS

Powers Barlow Unit 1

Job Ticket: 64376

DST#: 3

Test Start: 2018.09.06 @ 05:50:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:44:30

Time Test Ended: 15:19:45

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4400.00 ft (KB) To 4430.00 ft (KB) (TVD)

Total Depth: 5000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8647 Below (Straddle)

Press@RunDepth: psig @ 5009.00 ft (KB)

Start Date: 2018.09.06

End Date:

2018.09.06

Start Time: 05:50:15

End Time:

15:19:00

Capacity: 8000.00 psig

Last Calib.:

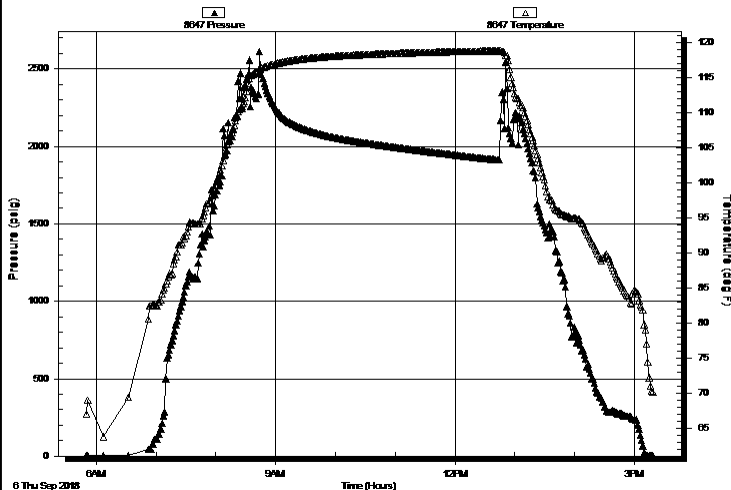
2018.09.06

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 12 min built to 27" blow
IS:No return blow
FF:BOB in 15 min. built to 28" blow
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

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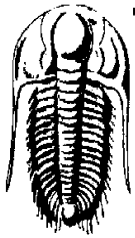
Recovery

Length (ft)	Description	Volume (bbl)
822.00	sw 100% sw	9.32
128.00	mcw 40%m 60sw	1.80
71.00	w cm 20%w 80%m	1.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

White Exploration Inc.

1635 N Waterfront Pkw y
STE 100
Wichita KS 67206
ATTN: Andy White

5-22-34 Finney, KS

Powers Barlow Unit 1

Job Ticket: 64376

DST#: 3

Test Start: 2018.09.06 @ 05:50:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:44:30

Time Test Ended: 15:19:45

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4400.00 ft (KB) To 4430.00 ft (KB) (TVD)

Total Depth: 5000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8374 Inside

Press@RunDepth: psig @ 4426.00 ft (KB)

Start Date: 2018.09.06

End Date:

2018.09.06

Start Time: 05:50:15

End Time:

15:19:45

Capacity: 8000.00 psig

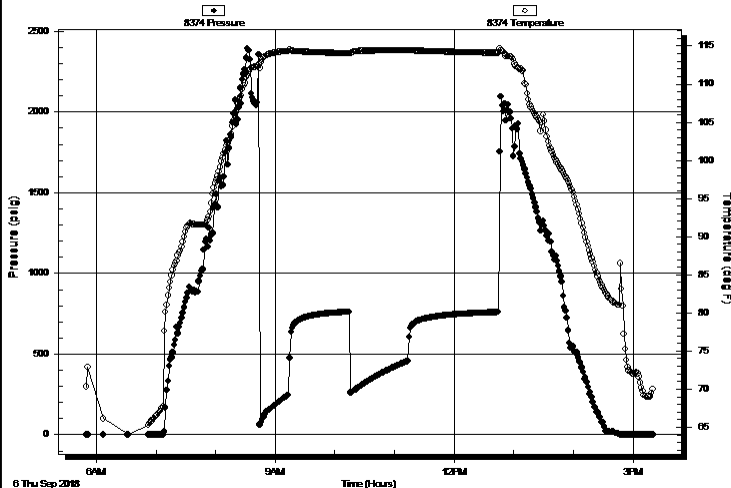
Last Calib.: 2018.09.06

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 12 min built to 27" blow
IS:No return blow
FF:BOB in 15 min. built to 28" blow
FS:No return blow

Pressure vs. Time



PRESSURE SUMMARY

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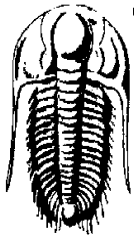
Recovery

Length (ft)	Description	Volume (bbl)
822.00	sw 100% sw	9.32
128.00	mcw 40%m 60sw	1.80
71.00	w cm 20%w 80%m	1.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy
STE 100
Wichita KS 67206
ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64376

DST#: 3

Test Start: 2018.09.06 @ 05:50:15

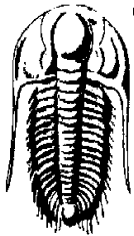
Tool Information

Drill Pipe:	Length: 4150.00 ft	Diameter: 3.80 inches	Volume: 58.21 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	130000.0 lb
		Total Volume:	59.41 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	0.00 ft				
Tool Length:	622.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4394.00	
Shut In Tool	5.00			4399.00	
Hydraulic tool	5.00			4404.00	
Jars	5.00			4409.00	
EM tool	3.00			4412.00	
Safety Joint	3.00			4415.00	
Packer - Shale	0.00			4415.00	
Packer - Shale	0.00			4415.00	
Stubb	1.00			4416.00	
Perforations	10.00			4426.00	
Recorder	0.00	8968	Outside	4426.00	
Recorder	0.00	8374	Inside	4426.00	
Perforations	15.00			4441.00	
Blank Off Sub	1.00			4442.00	
Packer - Shale	3.00			4445.00	
Stubb	1.00			4446.00	
Perforations	22.00			4468.00	
Change Over Sub	1.00			4469.00	
Drill Pipe	540.00			5009.00	
Recorder	0.00	8647	Below	5009.00	
Change Over Sub	1.00			5010.00	
Bullnose	5.00			5015.00	622.00 Anchor Tool

Total Tool Length: 622.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration Inc.

5-22-34 Finney, KS

1635 N Waterfront Pkwy

STE 100

Wichita KS 67206

ATTN: Andy White

Powers Barlow Unit 1

Job Ticket: 64376

DST#: 3

Test Start: 2018.09.06 @ 05:50:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity: 38000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
822.00	sw 100% sw	9.317
128.00	mcw 40% m 60% w	1.796
71.00	w cm 20% w 80% m	0.996

Total Length: 1021.00 ft Total Volume: 12.109 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

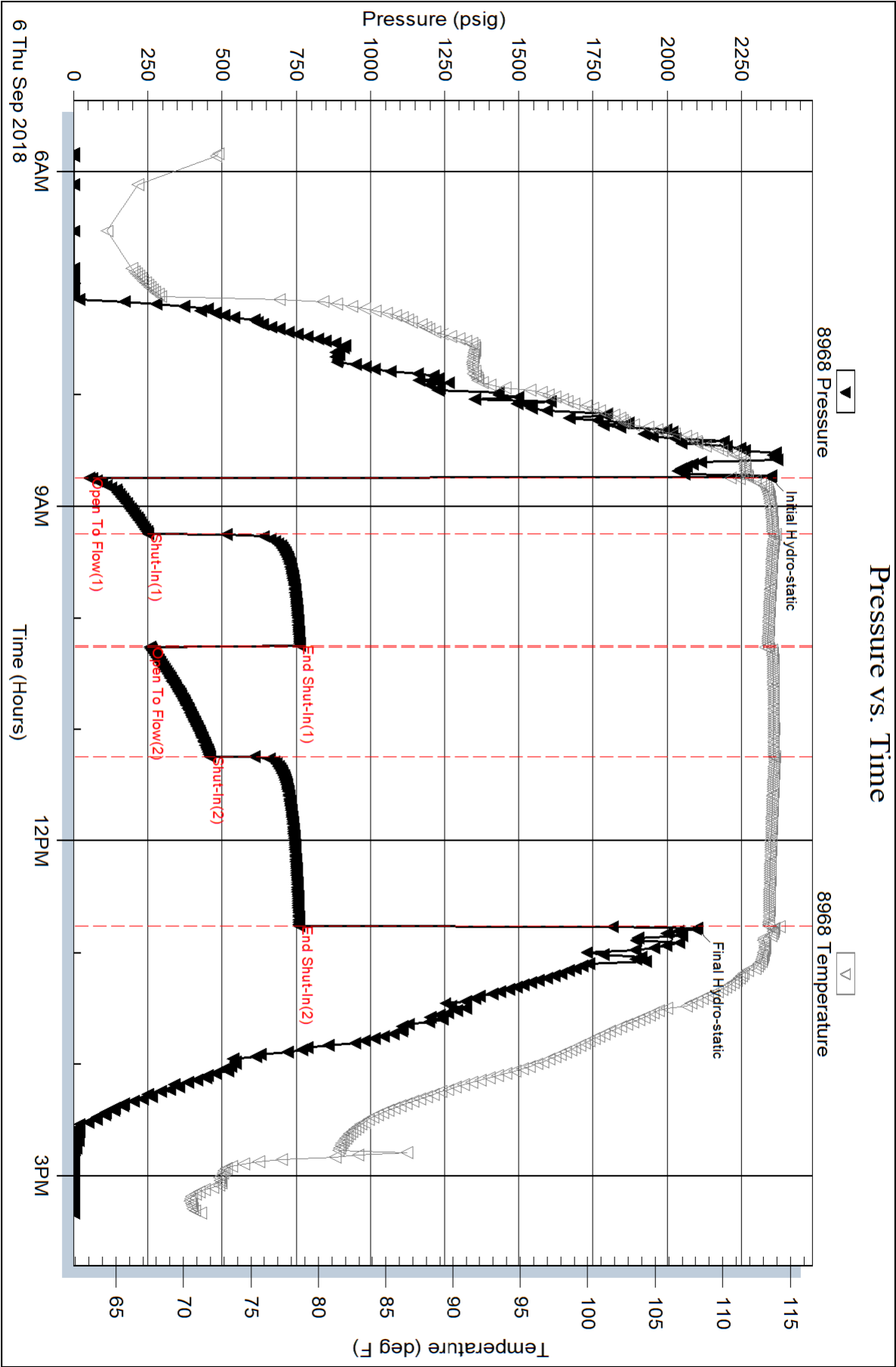
Recovery Comments: RW= .276@ 68.2= 38,000 ppm

Serial #: 8968

Outside White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 3

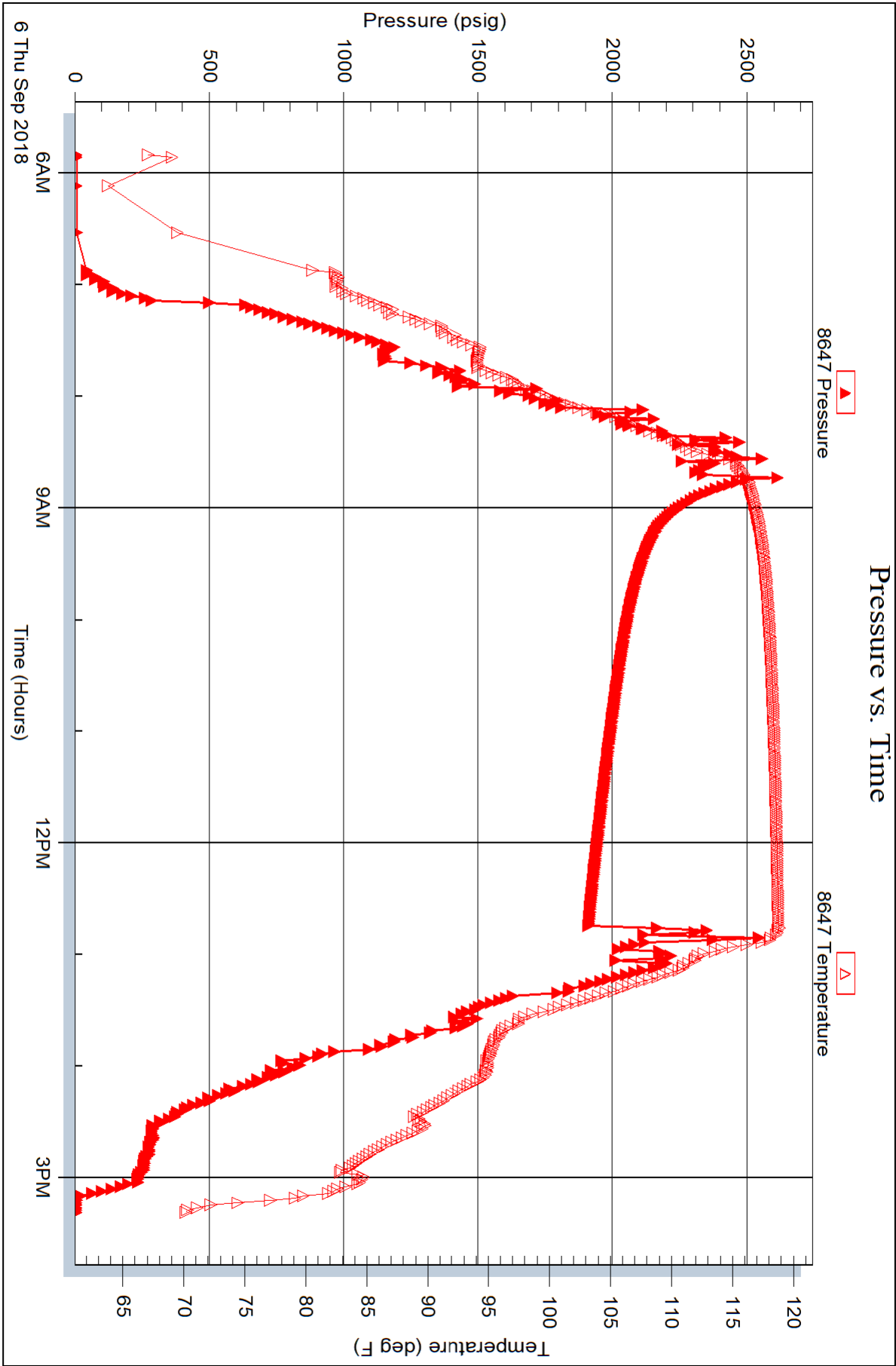


Serial #: 8647

Below (Stratfield) Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 3



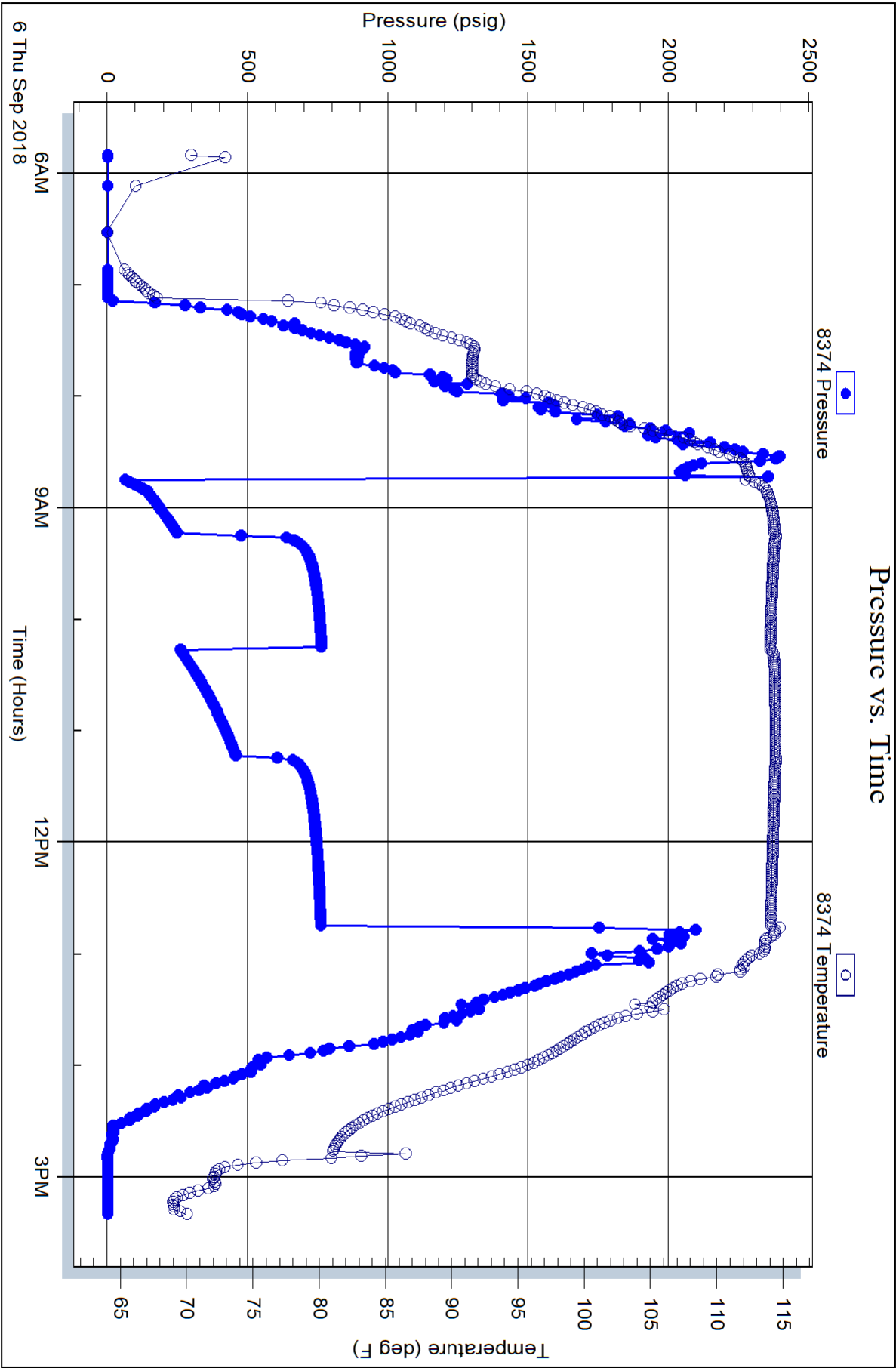
Serial #: 8374

Inside

White Exploration Inc.

Powers Barlow Unit 1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64349

Well Name & No. Powers Barlow Unit 1 Test No. 1 Date 9-4-18
Company ~~Wichita~~ White Exploration Elevation 2994 KB 2984 GL
Address 11635 N Waterfront Pkwy Ste 100 Wichita KS 67206
Co. Rep / Geo. Andy White Rig Murfin 21
Location: Sec. 5 Twp 22 Rge. 34 Co. Finney State Ks

Interval Tested 4660-4740 Zone Tested Morrow
Anchor Length 80 Drill Pipe Run ~~4407~~ 4407 Mud Wt. 9.2
Top Packer Depth 4655 Drill Collars Run 246 Vis 51
Bottom Packer Depth 4660 Wt. Pipe Run _____ WL 8.4
Total Depth 4740 Chlorides 3550 ppm System LCM 4

Blow Description IF: Boil 4 to 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total _____ BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
(A) Initial Hydrostatic 2358 ☒ Test 1150 T-On Location 09:45
(B) First Initial Flow 62 ☒ Jars 250 T-Started 13:10
(C) First Final Flow 63 ☒ Safety Joint 75 T-Open 15:30
(D) Initial Shut-In 682 ☒ Circ Sub _____ T-Pulled 18:10
(E) Second Initial Flow 66 ☐ Hourly Standby _____ T-Out 20:03
(F) Second Final Flow 67 ☒ Mileage 76 RT 76 Comments EM Tool 350
(G) Final Shut-In 247 ☐ Sampler _____
(H) Final Hydrostatic 2337 ☐ Straddle _____

Initial Open 10 ☒ Shale Packer 250 ☐ Ruined Shale Packer _____
Initial Shut-In 60 ☐ Extra Packer _____ ☐ Ruined Packer _____
Final Flow 30 ☐ Extra Recorder _____ ☐ Extra Copies 350
Final Shut-In _____ ☐ Day Standby _____ Sub Total 2151
☐ Accessibility _____ Total 2151
Sub Total 1801 MP/DST Disc't _____

Approved By [Signature] Our Representative Mike Roberts
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64350

Well Name & No. Powers Barlow Unit 1 Test No. 2 Date 9-5-18
Company White Exploration Inc Elevation 2994 KB 2984 GL
Address 1635 N Waterfront Pkwy Ste 100 Wichita KS 67206
Co. Rep / Geo. Andy White Rig Murfin 21
Location: Sec. 5 Twp 22 Rge. 34 Co. Finney State KS

Interval Tested 4808-5000 Zone Tested Miss
Anchor Length 192 Drill Pipe Run 4557 Mud Wt. 9.2
Top Packer Depth 4803 Drill Collars Run 243 Vis 59
Bottom Packer Depth 4808 Wt. Pipe Run 0 WL 8.0
Total Depth 5000 Chlorides 2800 ppm System LCM 6

Blow Description IF BOB in 2 Min Built to 27"

IS: No Return Blow

FF BOB in 2 Min Built to

FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>496</u>	<u>mud</u>			<u>100</u>	
<u>558</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>124</u>	<u>WCM</u>		<u>50</u>	<u>50</u>	
<u>246</u>	<u>SW</u>		<u>100</u>		

Rec Total 1424 BHT 120 Gravity — API RW 345 @ 63.8° F Chlorides 38000 ppm

(A) Initial Hydrostatic 2588

(B) First Initial Flow 340

(C) First Final Flow 474

(D) Initial Shut-In 1277

(E) Second Initial Flow 545

(F) Second Final Flow 832

(G) Final Shut-In 1201

(H) Final Hydrostatic 2305

Initial Open 5

Initial Shut-In 30

Final Flow 30

Final Shut-In 60

☒ Test \$1150.00/-

☒ Jars \$250.00/-

☒ Safety Joint \$75.00/-

☒ Circ Sub

☐ Hourly Standby

☒ Mileage 76.00/- 76

☐ Sampler

☐ Straddle

☒ Shale Packer \$250.00/-

☒ Extra Packer 200 \$250.00/-

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 2001

T-On Location 21:17 20:33

T-Started 21:17

T-Open 23:40

T-Pulled 01:45

T-Out 04:33

Comments EM Tool 350

☒ Ruined Shale Packer 350

☐ Ruined Packer

☐ Extra Copies

Sub Total 700

Total 2701

MP/DST Disc't

Approved By

Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64376

Well Name & No. Powers Barlow Unit 1 Test No. 3 Date 9-6-18
 Company White Exploration Inc Elevation 2994 KB 2984 GL
 Address 1635 N Waterfront Pkwy STE 100 Wichita KS 67206
 Co. Rep / Geo. Andy White Rig Martin 21
 Location: Sec. 5 Twp 22 Rge. 34 Co. Finney State KS

Interval Tested 4400-4430 5000^{TP} Zone Tested Marmaton
 Anchor Length 30 Drill Pipe Run 4150 Mud Wt. 9.2
 Top Packer Depth 404395 Drill Collars Run 243 Vis 59
 Bottom Packer Depth 4400 Wt. Pipe Run 0 WL 8.0
 Total Depth 5000 Chlorides 2800 ppm System LCM 6
 Blow Description IFI BOB in 12 Min Built to 27"
TS! No Return Blow
FFI BOB in 15 Min Built to 28"
FS! No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>71</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
<u>128</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>822</u>	<u>SW</u>		<u>100</u>		

Rec Total 1621 BHT 112 Gravity — API RW 274 @ 68.3° F Chlorides 2800 ppm
 (A) Initial Hydrostatic 2346 ☒ Test 1150 T-On Location Stayed
 (B) First Initial Flow 52 ☒ Jars 250 T-Started 05:50
 (C) First Final Flow 250 ☒ Safety Joint 75 T-Open 08:45
 (D) Initial Shut-In 760 ☒ Circ Sub NC T-Pulled 12:45
 (E) Second Initial Flow 257 ☐ Hourly Standby T-Out 15:19
 (F) Second Final Flow 458 ☐ Mileage Stayed Comments EM Tool 350
 (G) Final Shut-In 758 ☐ Sampler Shale Packer 600 3 shale Packers
 (H) Final Hydrostatic 2099 ☒ Straddle 750

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

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 350
 Total 3175
 MP/DST Disc't
 Sub Total 2825

Approved By AW

Our Representative White Exploration

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