

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254299
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1254299

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	HARTING 1
Doc ID	1254299

All Electric Logs Run

Compensated Density/Neutron
Dual Induction
Micro Log
Sonic Log



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

Well Name: Harting #1
Location: 7-4S-22W
License Number: API: 15-137-20732
Spud Date: 05/26/15
Surface Coordinates: 435' FSL, 1390' FWL

Region: Norton Co., KS
Drilling Completed: 06/01/15

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2302 **K.B. Elevation (ft): 2307**
Logged Interval (ft): 2800 **To: 3800** **Total Depth (ft): 3800**
Formation: Granite
Type of Drilling Fluid: Chemical

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

OPERATOR

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

GEOLOGIST

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

Remarks

Due to positive DST results, the decision was made to run production casing and perforate the Lansing 'J'

General Info

Drilling Contractor: WW Rig 8

Logs: Open Hole Solutions/Nabors
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 304'-1/2, 3494'-1, 3630'-1, 3800'-1.25

Daily Status

05/26/15: Spud @ 5:45 P.M. Drill 12-1/4" Surface hole to 304' Ran 7 Joints 8-5/8" 23# Surface Casing, cemented w/ 225 sacks of Common cement, 3% CC, 2% gel

05/27/15: Waiting on Cement @ 7, Start drilling out @7:30 A.M

05/28/15: Drilling ahead @ 2435'

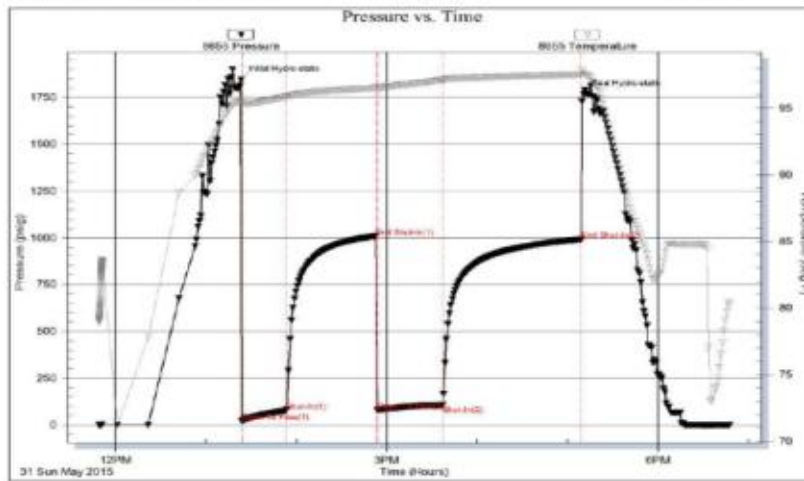
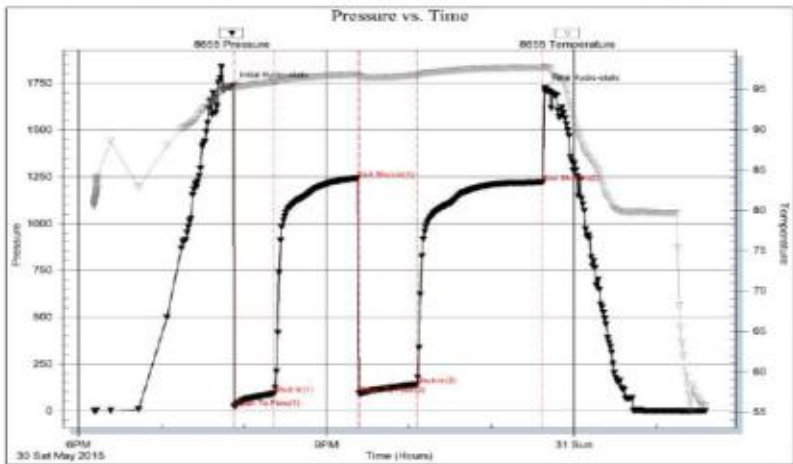
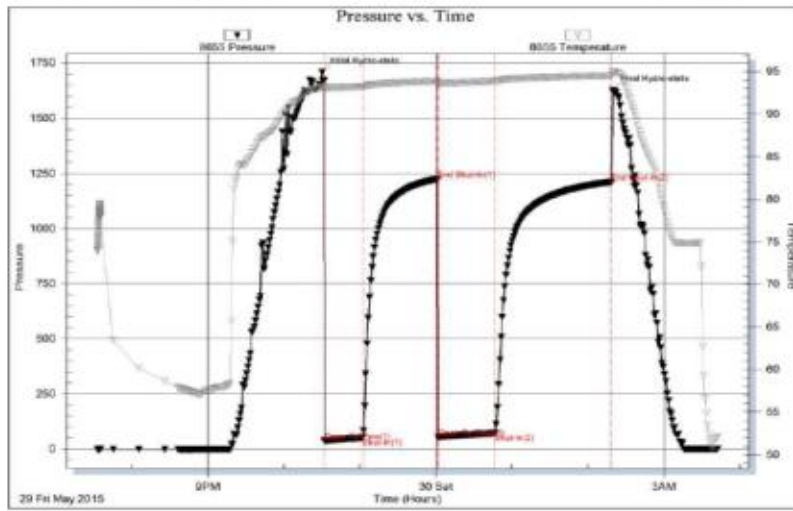
05/29/15: Drilling ahead @ 3365'

05/30/15: Drilling ahead @ 3520'

05/31/15: Drilling ahead @ 3682'


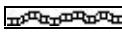
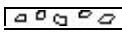

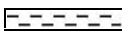

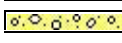
06/01/15: Logging well, Ran 5-1/2" guide Shoe and 91 Joints of new 5-1/2", 14#, S-55 Production Casing. mix and pump 12 bbls Super Flush and 140 Sacks of Allied Special Blend Class A Cement with 6# of CA-200, 5.5% CA-500, 2% gel, and 5# Kol-Seal/sack.





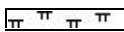

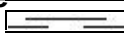
White Exploration, Inc.				Hummon		Great Plains		William and Keller	
Harting #1				Harting #1		Hill #1		Steffel #1	
Sec 7-4S-22W				Sec 8-4S-22S		Sec 20-4S-22W		Sec 7-4S-22W	
435' FSL, 1490' FWL				C-NE-NE-SW		375' FNL, 1070' FWL		4620' FSL, 660' FEL	
KB: 2307				KB: 2368		KB: 2296		KB: 2380	
Sample	Log	Datum		Relationship		Relationship		Relationship	
Anhydrite	1921	1926	381	+27		+11		+16	
B. Anhydrite	1951	1958	349	+22		+8		+14	
Heebner	3430	3430	-1123	+28		+15		+17	
Toronto	3457	3460	-1153	+20		+12		+19	
Lansing	3470	3476	-1169	+23		+13		+15	
BKC	3656	3660	-1353	+29		+19		+17	
Arbuckle	3720	3718	-1411	+41		NA		NA	
Reagan Sand	NA	0		NA		NA		NA	
Granite Wash	3745	3736	-1429	+64		+39		+37	


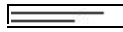






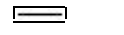







ROCK TYPES

LITHOLOGY

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Black shale
-  Congl





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

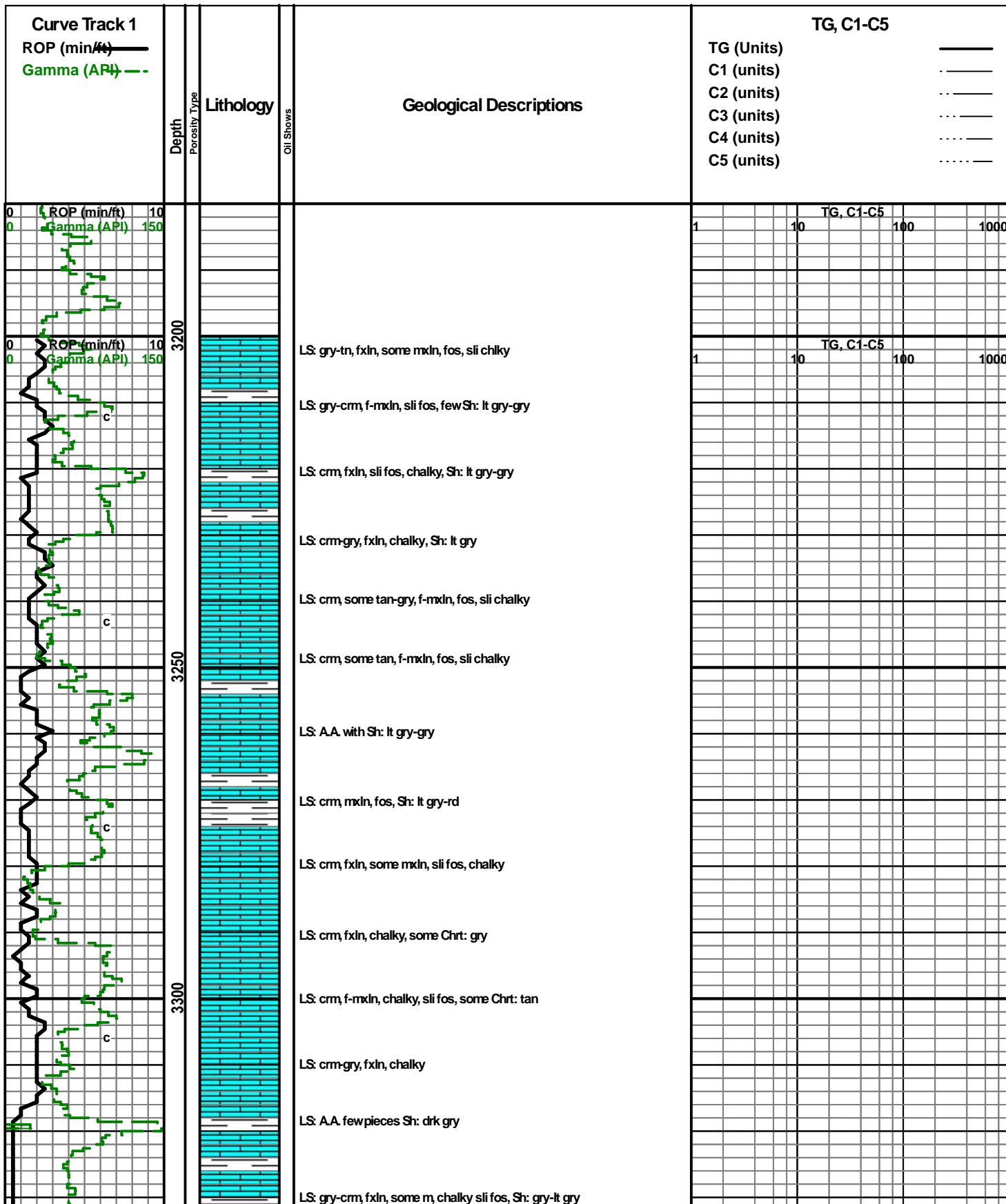
-  Shcol
 -  Shgy
 -  Slstst
 -  Ss
 -  Till
- STRINGER**
-  Anhy

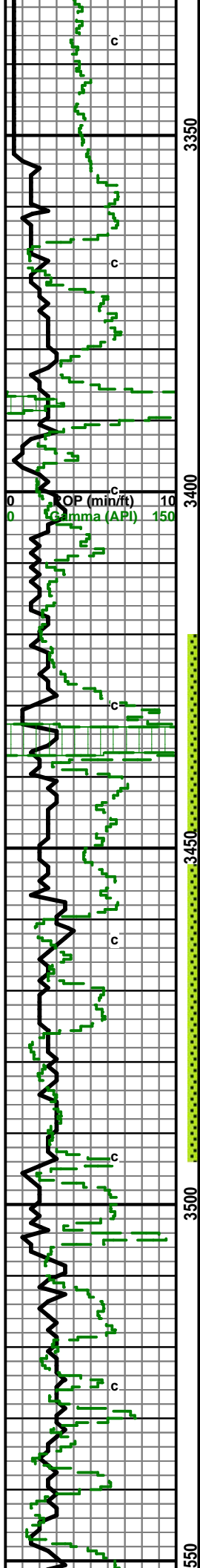
-  Arg
-  Bent
-  Coal
-  Dol
-  Gyp
-  Ls
-  Mrst
-  Slststrg

 Ssstrg

OIL SHOW

-  Even
-  Spotted
-  Ques
-  Dead





LS: AA. with Sh: lt gry-gry

LS: crm-gry, fxl, fos, sli chalky, some Sh: lt gry-brwn

LS: crm-gry, fxl, fos, sli chalky, Sh: brwn-rd, lt gry

LS: gry, some crm, fxl, few mxln, sli fos, chalky, some Sh: gry-brwn/rd, few drk gry/blk

LS: crm-gry, fxl, few mxln, sli fos, sli chalky, Sh: AA.

LS: crm-gry, f-mxln, fos, Sh: gry-drk gry

LS: crm, some gry, fxl, sli fos, sli chalky

LS: AA. with some Sh: gry-drk gry

LS: crm, mcr-fxl, sli chalky

Sh: blk

LS: crm-gry, f-mxln, sli fos, chalky, some Sh: lt gry-gry-red

LS: crm-tan, f-mxln, fos, sli dense,

LS: crm-tan, f-mxln, sli fos, some ool, vssfo, pr pp por, sli light stain on few pieces, no odor, no fluor, few friable pieces

LS: crm-tan, f-mxln, some ool, some fos, tight, no show

LS: crm, f-mxln, sli fos, light-drk stain, SFO, sli odor, sli fluor, fr pp por

LS: crm, f-mxln, sli fos, sli staining, sli SFO, no odor, sli fluor, pr-fr pp por,

Sh: rd-lt gry-gry, some pieces LS: crm-tan, mcrxln, dense no show

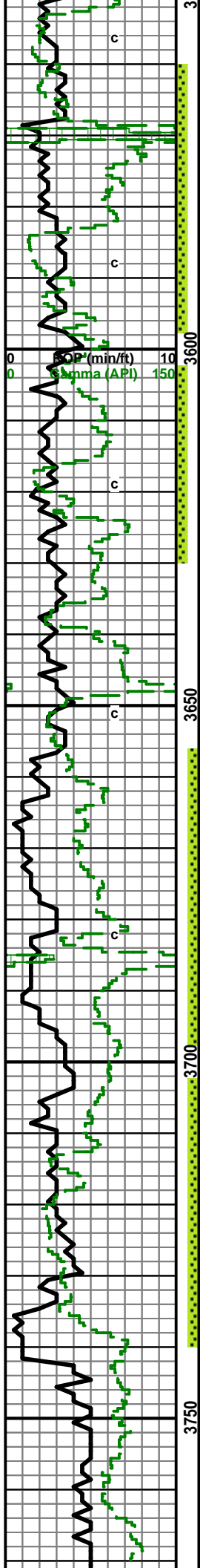
LS: crm-gry, fxl, some mxln, sli ool, pr pp por, some pieces drk stn, with vssfo, no odor, no fluor,

LS: crm-gry, fxl, sli ool, dense, Chert: gry, no show

LS: crm, mcr-fxl, dense, with Sh: red-gm-gry, some purple

LS: crm, some gry, mcr-fxl, dense

TG, C1-C5		1	10	100	1000
Mudco mdck Wt: 8.9 Vis: 60+ pH: 11.0 Fil: 5.8 LCM: 2#					
Heebner: 3430 (-1123)					
Toronto: 3457 (-1150)					
CFS 60 min					
Lansing: 3470 (-1163)					
DST #1 3420-3494 30-60-45-90 IF: Surface blow build to 1/2" FF: Surface Blow					
CFS 60 min Rec: 75' M IFP: 37-52 ISIP: 1225 FFP: 55-72 FSIP: 1211					
Tool Slide 4-5 Ft on first open					
CFS 60 min					
Mudco mdck Wt: 9.1 Vis: 50 pH: 11.0 Fil: 6.8 LCM: 2#					



LS: crm, fxln, dense, sli fos, few pieces of chert

LS: crm-gry, mxln, sli gran, dense, Sh: gry-bck

LS: crm-tan, f-mxln, some friable, SSFO, few pieces fr pp por, no odor, sli fluor, drk brwn stain on edges,

LS: crm-tan-gry, fxln, sli fos, no show, Chert: white

LS: A.A. with Sh: gry-rd

LS: crm f-mxln, SFO, dark edge stain, fr pp por, sli friable, sli dull yell fluor, dead oil stain, some gas bubbles,

LS: crm, f-mxln, sli dark edge stain, sli SFO, pr-fr pp por, Poor Sample

Sh: red-gry, some LS: crm-gry, fxln, dense,

LS: crm-gry, mcr-fxln, dense, NSFO

Sh: rd-gry, some gm

LS: crm-gry, fxln, dense

Sh: rd-gry-lt gry-gm

LS: crm-gry, f-mxln, dense, Sh: red-gry

Sh: red-gm-lt gry, LS: crm-tan, some gry, f-mxln, dense

LS: crm-gry, f-mxln, dense, Sh: red-gm few pieces of SS: wht-gry, gran-mgrn, dense, sub ang, pr sort, no show

Dolo: gry-white, f-mxln, scat por, spot dark stain, SFO

SS: clear-white, f-mgrn, sub ang, pr sort, dark stain, dull fluor, no odor, SF black tarry oil, Sh: red, with granite quartz, and some felds

Granite, quartz, biotite,

CFS 60 min

DST #2 3560-3630
 30-60-45-90
 IF: BOB in 18min
 ISI: No blow
 FF: BOB in 14min
 FSI: 1" in 16min, died in 77min
 Rec: 495' GIP, 320' GMCO
 10% G, 55% O, 35% M
 IFP: 20-92 ISIP: 1240
 FFP: 91-139 FSIP: 1221

CFS 60 min

TG, C1-C5
 1 10 100 1000

BKC: 3656 (-1349)

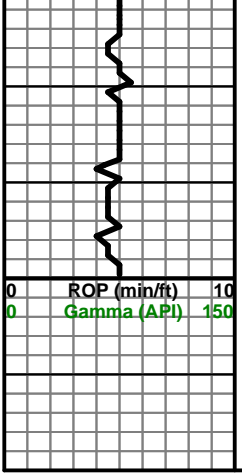
CFS 60 min

DST #3 3656-3740
 30-60-45-90
 IF: built to 1.5"
 ISI: no blow
 FF: built to 2.25"
 FSI: no blow
 Rec: 150' mud
 IFP: 22-76 ISIP: 1009
 FFP: 78-105 FSIP: 992

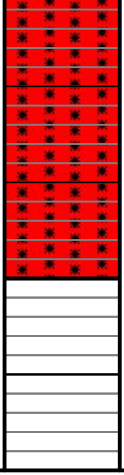
Arbuckle: 3720 (-1413)

Granite Wash: 3745 (-1438)

Mudco mdck
 Wt: 9.3 Vis: 54
 pH: 10.5 Fil: 6.4
 LCM: 1#



3800



RTD: 3800

LTD: 3800 10 TG, C1-C5 100 1000

ALLIED OIL & GAS SERVICES, LLC 055772

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell FS

DATE <u>5-26-15</u>	SEC. <u>7</u>	TWP. <u>4</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>1130 PM</u>	JOB FINISH <u>1200 AM</u>
LEASE <u>Harting</u>	WELL# <u>1</u>	LOCATION <u>Norton K3 85 2 1/2 E</u>			COUNTY <u>Norton</u>	STATE <u>KJ</u>	
OLD OR <u>NEW</u> (Circle one)		<u>Winto</u>					

CONTRACTOR W/W 6
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 304
 CASING SIZE 8 7/8 23" DEPTH 304
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 15
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 18.4

OWNER
 CEMENT
 AMOUNT ORDERED 225 can 3% cc

EQUIPMENT
 PUMP TRUCK CEMENTER Robert Y
 # 409 HELPER Tracy J.
 BULK TRUCK
 # 378 DRIVER Ben G
 BULK TRUCK
 # DRIVER

COMMON 225 @ 17.90 4027.50
 POZMIX @
 GEL @
 CHLORIDE 635" @ 1.10 698.50
 ASC @
 @
 @
 @
 @
 @
 @
 @
 HANDLING 225 sts @ 2.48 558.00
 MILEAGE 793 t/m @ 2.75 2180.75
 TOTAL

REMARKS:

see log
cement did circulate 20 sts to pit
Thank you!!!

CHARGE TO: White Exploration, Inc
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB 304
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 75 LVR @ 4.40 330.00
 MANIFOLD @
150 HVMT @ 7.70 1155.00
 @
Disc 2581.20 TOTAL 5736.00

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL

SALES TAX (If Any)
 TOTAL CHARGES 10462.00
 DISCOUNT 4707.90 (45%) IF PAID IN 30 DAYS

net \$5754.10

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Sid Deutscher
 SIGNATURE [Signature]

ALLIED OIL & GAS SERVICES, LLC U55664

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>6-1-15</u>	SEC. <u>7</u>	TWP. <u>4</u>	RANGE <u>22</u>	CALLED OUT <u>9:00 AM</u>	ON LOCATION <u>1:00 PM</u>	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Hartley</u>		WELL# <u>1</u>	LOCATION <u>Norton - 8-S, 2 1/2 - East</u>		COUNTY <u>Norton</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one)			<u>North into</u>				

CONTRACTOR <u>WJH</u>	OWNER <u>used 400 Allied ltrc</u>
TYPE OF JOB <u>5 1/2 - 2-Stage Low String</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D. <u>3800</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>3800</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL DW @	DEPTH <u>19.36'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>10.02</u>
CEMENT LEFT IN CSG. <u>10' S.S.</u>	
PERFS.	
DISPLACEMENT <u>92.52 BBLs</u>	
EQUIPMENT	
<u>Allen Worth</u>	
PUMP TRUCK # <u>429</u>	CEMENTER <u>Robert Yakubovich</u>
BULK TRUCK # <u>410</u>	HELPER <u>Tracy Jordan</u>
BULK TRUCK # <u>985-242</u>	DRIVER <u>Ben Griffin</u>
	DRIVER <u>Steve Orlando</u>

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<u>litr</u>	<u>400</u>	@ <u>19.88</u>	<u>7952.00</u>
<u>ASC</u>	<u>190</u>	@ <u>23.50</u>	<u>3290.00</u>
<u>Gilsonite</u>	<u>700</u>	@ <u>0.98</u>	<u>686.00</u>
<u>Flascol</u>	<u>75</u>	@ <u>2.97</u>	<u>222.75</u>
	@		
<u>Materials</u>	@		<u>12150.15</u>
<u>Alum</u>	@	<u>4860.30</u>	
	@		
HANDLING <u>435 lbs</u>	@	<u>2.78</u>	<u>1678.80</u>
MILEAGE <u>1365 m</u>		<u>2.75</u>	<u>3753.75</u>

REMARKS:

Circulated 20 bbls to pit

Thank you!!!

CHARGE TO: White Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Terry Baird

SIGNATURE [Signature]

TOTAL

SERVICE

DEPTH OF JOB <u>3792'</u>		
PUMP TRUCK CHARGE <u>2558.75</u>		
EXTRA-FOOTAGE <u>1 1/2 stage @ 2406.25</u>		<u>2406.25</u>
MILEAGE <u>H.V.M. 150 @ 7.70</u>		<u>1155.00</u>
MANIFOLD <u>Head @ 275.00</u>		<u>275.00</u>
<u>LV m 75 @ 4.40</u>		<u>330.00</u>

Alum 4623.02 TOTAL 11557.55

PLUG & FLOAT EQUIPMENT

<u>Thread loc</u>	<u>85.00</u>	<u>85.00</u>
<u>Baskets 2-en @ 395.00</u>		<u>790.00</u>
<u>Cent. 2-en @ 57.00</u>		<u>456.00</u>
<u>scratcher 12-en @ 70.50</u>		<u>846.00</u>
<u>Shoe Auto Fill 1-en @ 545.00</u>		<u>545.00</u>
<u>latch down @ 60.00</u>		<u>60.00</u>
<u>Stage vent-DY 5335.00</u>		<u>5335.00</u>
<u>Alum 3486.80</u>		TOTAL <u>8717.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES 32425.30

DISCOUNT 12970.12 (40%) IF PAID IN 30 DAYS

net 19455.18



DRILL STEM TEST REPORT

Prepared For: **White Exploration, Inc.**

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

ATTN: Andy White

Harting #1

7-4s-22w Norton, KS

Start Date: 2015.05.29 @ 19:32:57

End Date: 2015.05.30 @ 03:42:57

Job Ticket #: 61173 DST #: 1

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

Printed: 2015.06.01 @ 10:27:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61173

DST#: 1

ATTN: Andy White

Test Start: 2015.05.29 @ 19:32:57

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:31:57

Time Test Ended: 03:42:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3420.00 ft (KB) To 3494.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3494.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8655 Outside

Press@RunDepth: 72.26 psig @ 3428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.29

End Date:

2015.05.30

Last Calib.:

2015.05.30

Start Time: 19:32:58

End Time:

03:42:57

Time On Btm:

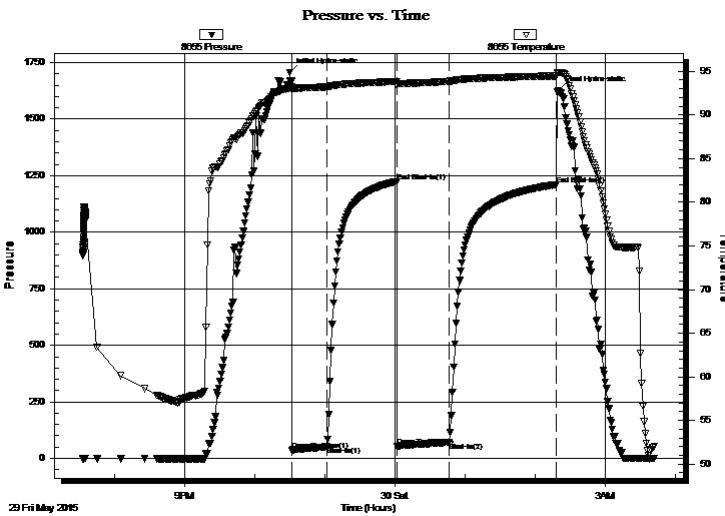
2015.05.29 @ 22:29:57

Time Off Btm:

2015.05.30 @ 02:19:57

TEST COMMENT: 30- IF- Surface blow built very slowly to .5"
60- IS- No blow
45- FF- Surface blow
90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.82	93.13	Initial Hydro-static
2	37.30	92.94	Open To Flow (1)
32	51.78	93.22	Shut-In(1)
92	1224.53	93.83	End Shut-In(1)
92	54.58	93.34	Open To Flow (2)
137	72.26	93.84	Shut-In(2)
229	1210.62	94.47	End Shut-In(2)
230	1626.11	94.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	M	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy.Suite 100
Wichita, KS 67206

Harting #1

ATTN: Andy White

Job Ticket: 61173

DST#: 1

Test Start: 2015.05.29 @ 19:32:57

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:31:57

Time Test Ended: 03:42:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3420.00 ft (KB) To 3494.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3494.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8651 Inside

Press@RunDepth: psig @ 3428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.29

End Date:

2015.05.30

Last Calib.:

2015.05.30

Start Time: 19:33:00

End Time:

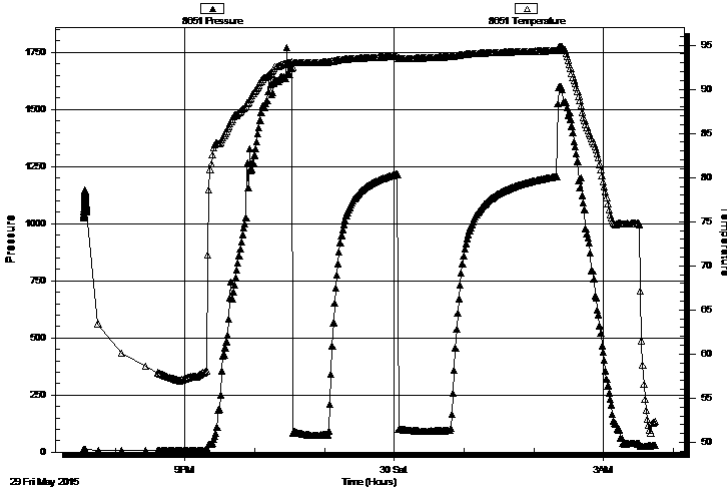
03:44:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Surface blow built very slowly to .5"
60- IS- No blow
45- FF- Surface blow
90- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	M	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61173

DST#: 1

ATTN: Andy White

Test Start: 2015.05.29 @ 19:32:57

Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.82 inches	Volume: 46.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3420.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3401.00	
Shut In Tool	5.00			3406.00	
Hydraulic tool	5.00			3411.00	
Packer	5.00			3416.00	20.00 Bottom Of Top Packer
Packer	4.00			3420.00	
Stubb	1.00			3421.00	
Perforations	6.00			3427.00	
Change Over Sub	1.00			3428.00	
Recorder	0.00	8651	Inside	3428.00	
Recorder	0.00	8655	Outside	3428.00	
Drill Pipe	62.00			3490.00	
Change Over Sub	1.00			3491.00	
Bullnose	3.00			3494.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61173

DST#: 1

ATTN: Andy White

Test Start: 2015.05.29 @ 19:32:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	M	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

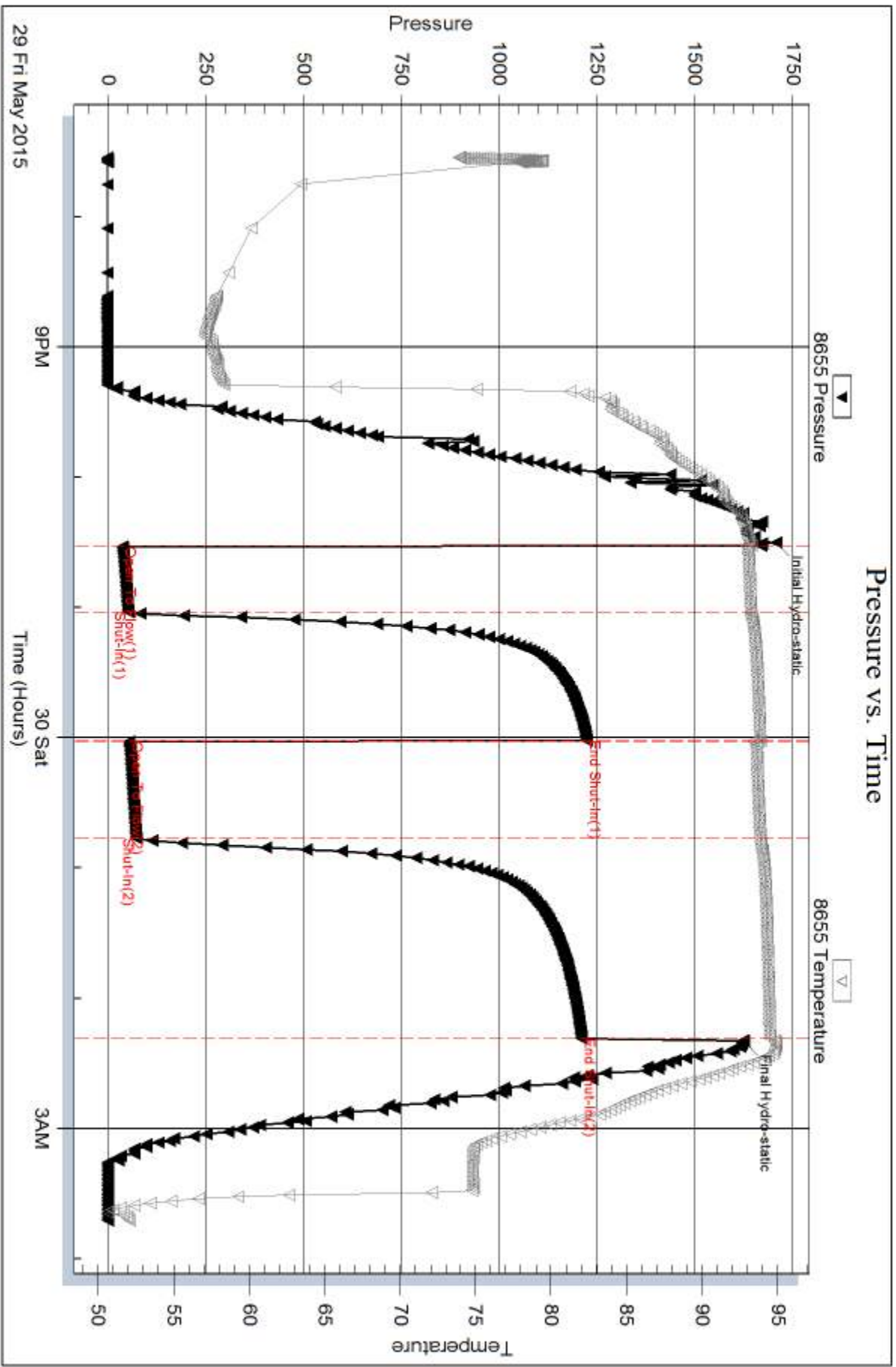
Num Gas Bombs: 0

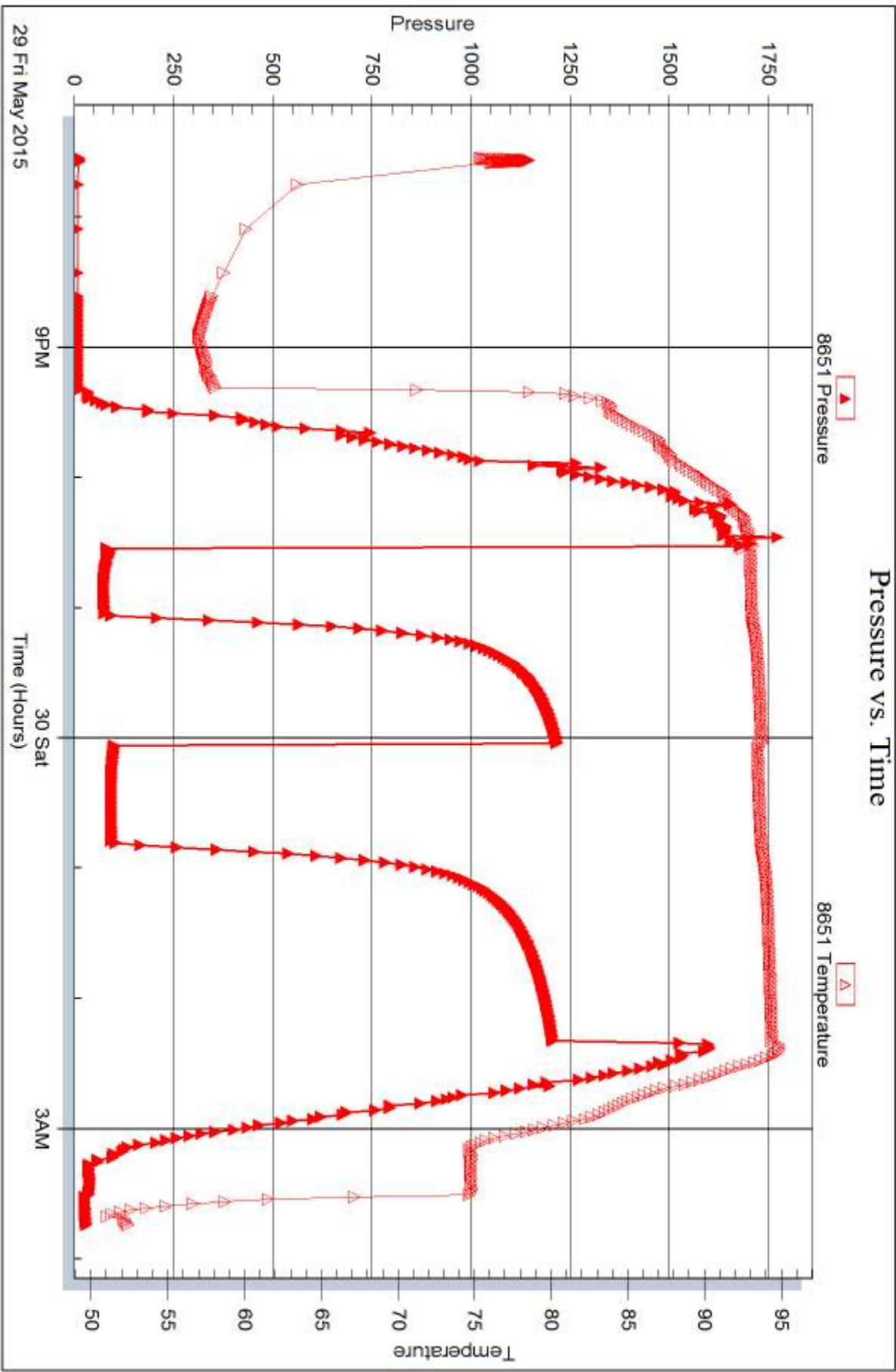
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **White Exploration, Inc.**

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

ATTN: Andy White

Harting #1

7-4s-22w Norton, KS

Start Date: 2015.05.30 @ 18:10:56

End Date: 2015.05.31 @ 01:35:56

Job Ticket #: 61174 DST #: 2

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

Printed: 2015.06.01 @ 10:24:09

White Exploration, Inc. 7-4s-22w Norton, KS Harting #1 DST # 2 LKC "H-J" 2015.05.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61174

DST#: 2

ATTN: Andy White

Test Start: 2015.05.30 @ 18:10:56

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:56

Time Test Ended: 01:35:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3560.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8655 Outside

Press@RunDepth: 139.42 psig @ 3564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.30

End Date:

2015.05.31

Last Calib.: 2015.05.31

Start Time: 18:10:57

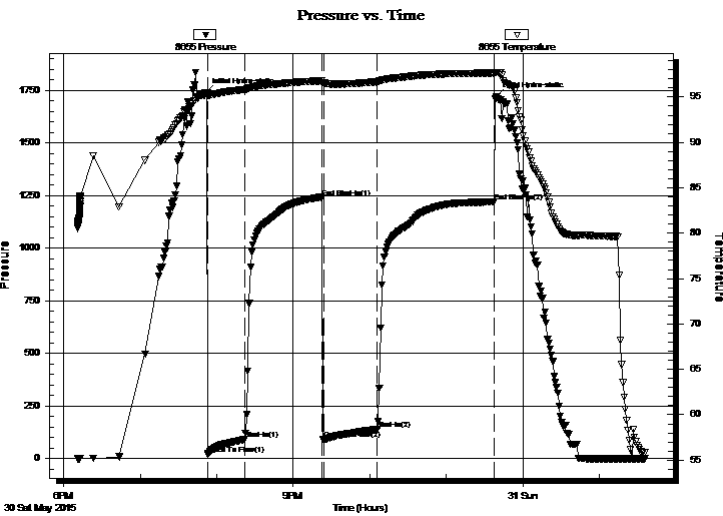
End Time:

01:35:56

Time On Btm: 2015.05.30 @ 19:51:26

Time Off Btm: 2015.05.30 @ 23:38:56

TEST COMMENT: 30- IF- BOB 18 mins
60- IS- No blow
45- FF- BOB 14 mins
90- FSI- Slowly built to 1" in 16 mins, then slowly died after 77 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.97	95.46	Initial Hydro-static
2	20.49	95.15	Open To Flow (1)
31	91.64	95.83	Shut-In(1)
91	1240.37	96.78	End Shut-In(1)
93	90.52	96.56	Open To Flow (2)
135	139.42	96.68	Shut-In(2)
226	1220.98	97.63	End Shut-In(2)
228	1721.22	97.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
320.00	GMCO, 10%G 35%M 55%O	3.43
0.00	495' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61174

DST#: 2

ATTN: Andy White

Test Start: 2015.05.30 @ 18:10:56

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:52:56

Time Test Ended: 01:35:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3560.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8651 Inside

Press@RunDepth: psig @ 3564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.30

End Date:

2015.05.31

Last Calib.:

2015.05.31

Start Time: 18:11:10

End Time:

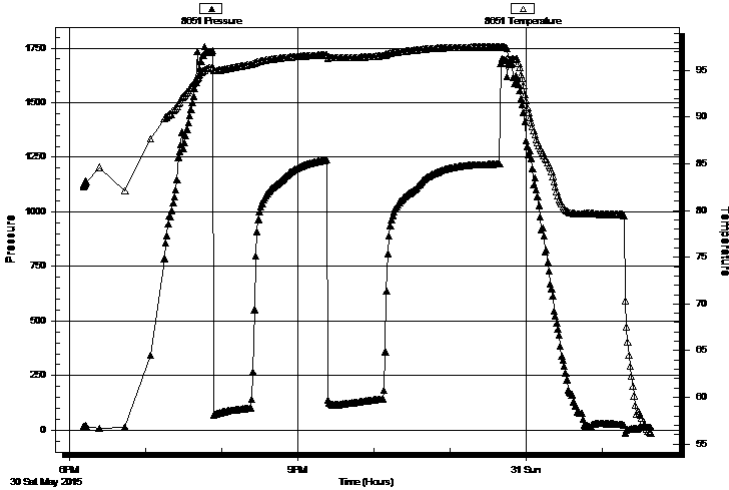
01:37:39

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 18 mins
60- IS- No blow
45- FF- BOB 14 mins
90- FS- Slowly built to 1" in 16 mins, then slowly died after 77 mins

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
320.00	GMCO, 10%G 35%M 55%O	3.43
0.00	495' GIP	0.00

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.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61174

DST#: 2

ATTN: Andy White

Test Start: 2015.05.30 @ 18:10:56

Tool Information

Drill Pipe:	Length: 3448.00 ft	Diameter: 3.82 inches	Volume: 48.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3560.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3541.00	
Shut In Tool	5.00			3546.00	
Hydraulic tool	5.00			3551.00	
Packer	5.00			3556.00	20.00 Bottom Of Top Packer
Packer	4.00			3560.00	
Stubb	1.00			3561.00	
Perforations	2.00			3563.00	
Change Over Sub	1.00			3564.00	
Recorder	0.00	8651	Inside	3564.00	
Recorder	0.00	8655	Outside	3564.00	
Drill Pipe	62.00			3626.00	
Change Over Sub	1.00			3627.00	
Bullnose	3.00			3630.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61174

DST#: 2

ATTN: Andy White

Test Start: 2015.05.30 @ 18:10:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
320.00	GMCO, 10%G 35%M 55%O	3.425
0.00	495' GIP	0.000

Total Length: 320.00 ft Total Volume: 3.425 bbl

Num Fluid Samples: 0

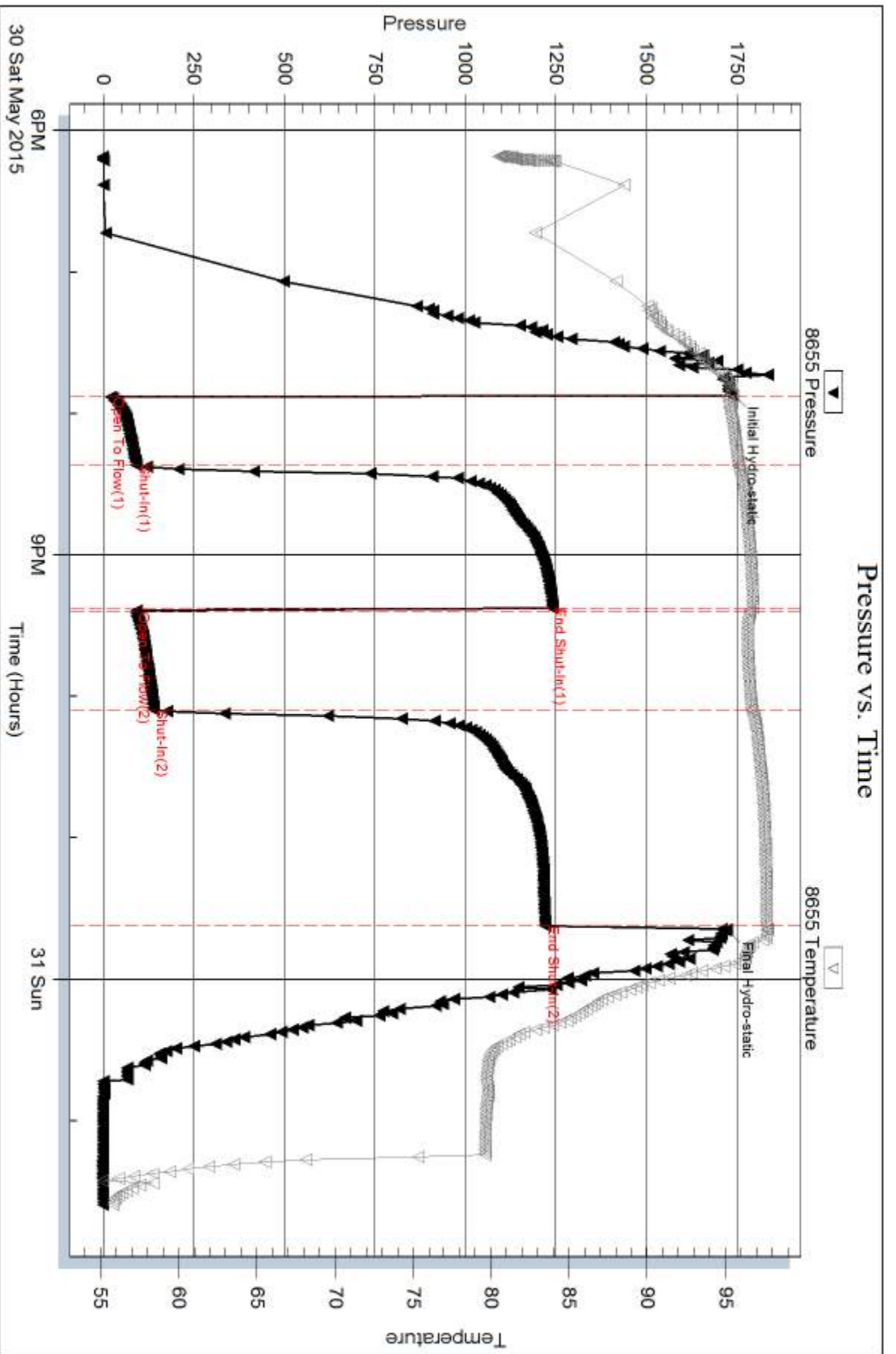
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



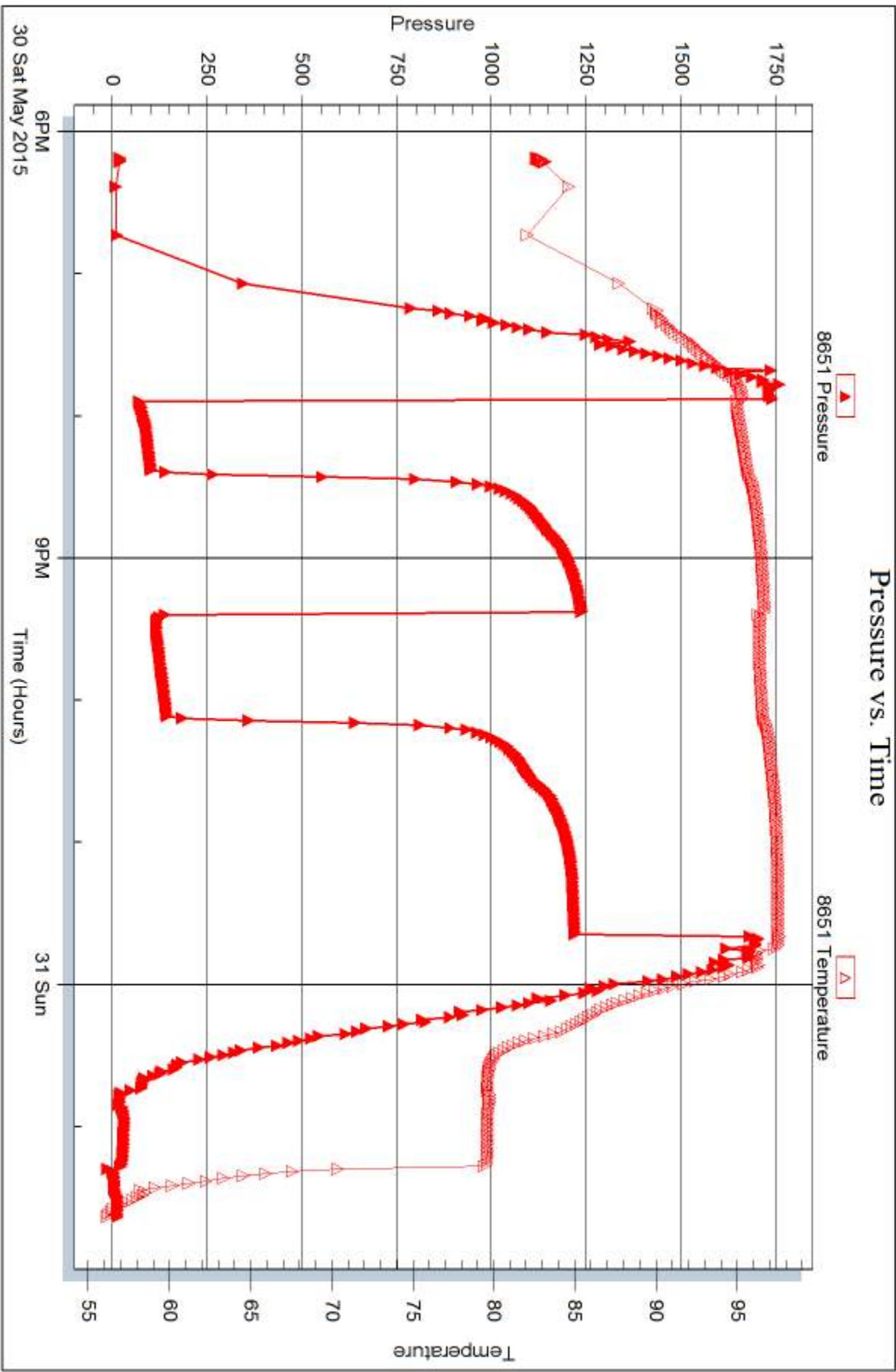
Serial #: 8651

Inside

White Exploration, Inc.

Hearing #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61174

Printed: 2015.06.01 @ 10:24:10



DRILL STEM TEST REPORT

Prepared For: **White Exploration, Inc.**

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

ATTN: Andy White

Harting #1

7-4s-22w Norton, KS

Start Date: 2015.05.31 @ 11:49:02

End Date: 2015.05.31 @ 18:47:32

Job Ticket #: 61175 DST #: 3

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

Printed: 2015.06.01 @ 10:05:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61175

DST#: 3

ATTN: Andy White

Test Start: 2015.05.31 @ 11:49:02

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:23:32

Time Test Ended: 18:47:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3656.00 ft (KB) To 3740.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8655 Outside

Press@RunDepth: 105.09 psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.31

End Date:

2015.05.31

Last Calib.: 2015.05.31

Start Time: 11:49:03

End Time:

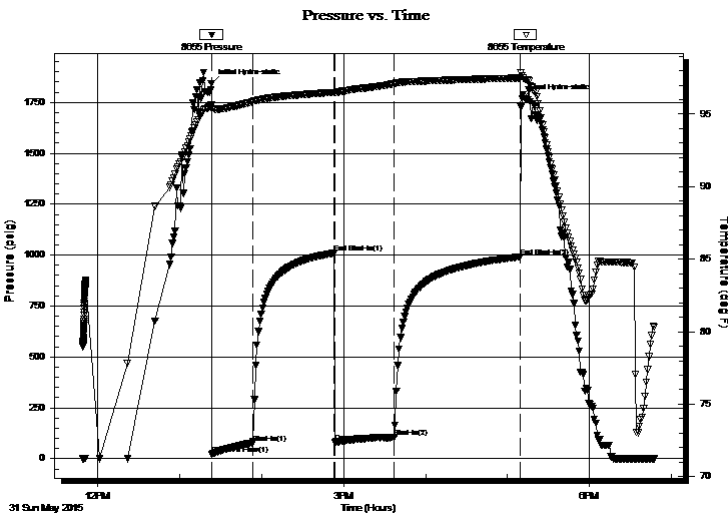
18:47:32

Time On Btm: 2015.05.31 @ 13:23:02

Time Off Btm: 2015.05.31 @ 17:10:32

TEST COMMENT: 30- IF- Built very slow ly to 1 1/2"
60- IS- No blow
45- FF- Built very slow ly to 2 1/4"
90- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.28	95.63	Initial Hydro-static
1	21.83	95.40	Open To Flow (1)
30	75.84	95.84	Shut-In(1)
90	1008.66	96.50	End Shut-In(1)
91	78.30	96.49	Open To Flow (2)
134	105.09	97.10	Shut-In(2)
226	991.78	97.49	End Shut-In(2)
228	1767.48	97.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	M	1.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

ATTN: Andy White

Job Ticket: 61175

DST#: 3

Test Start: 2015.05.31 @ 11:49:02

GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:23:32

Time Test Ended: 18:47:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3656.00 ft (KB) To 3740.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

2302.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8651 Inside

Press@RunDepth: psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.31

End Date:

2015.05.31

Last Calib.:

2015.05.31

Start Time: 11:48:54

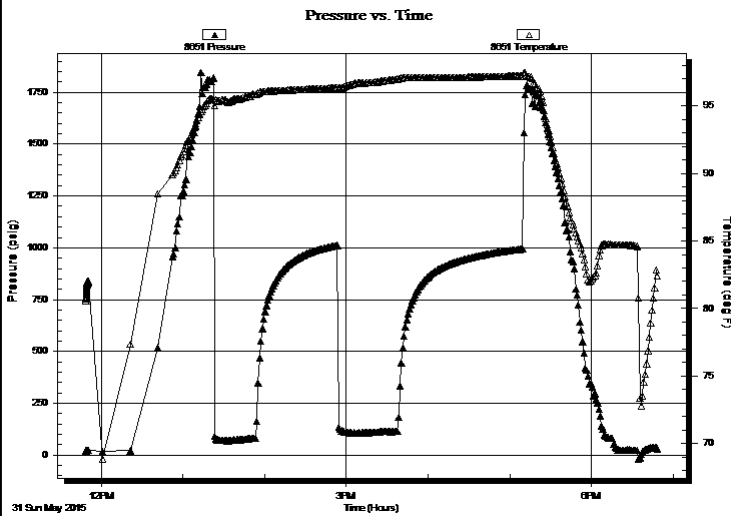
End Time:

18:48:23

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Built very slowly to 1 1/2"
60- IS- No blow
45- FF- Built very slowly to 2 1/4"
90- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	M	1.02

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.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61175

DST#: 3

ATTN: Andy White

Test Start: 2015.05.31 @ 11:49:02

Tool Information

Drill Pipe:	Length: 3542.00 ft	Diameter: 3.82 inches	Volume: 50.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3656.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3637.00	
Shut In Tool	5.00			3642.00	
Hydraulic tool	5.00			3647.00	
Packer	5.00			3652.00	20.00 Bottom Of Top Packer
Packer	4.00			3656.00	
Stubb	1.00			3657.00	
Perforations	15.00			3672.00	
Change Over Sub	1.00			3673.00	
Recorder	0.00	8651	Inside	3673.00	
Recorder	0.00	8655	Outside	3673.00	
Drill Pipe	63.00			3736.00	
Change Over Sub	1.00			3737.00	
Bullnose	3.00			3740.00	84.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

7-4s-22w Norton, KS

1635 N. Waterfront Pkwy. Suite 100
Wichita, KS 67206

Harting #1

Job Ticket: 61175

DST#: 3

ATTN: Andy White

Test Start: 2015.05.31 @ 11:49:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	M	1.015

Total Length: 150.00 ft

Total Volume: 1.015 bbl

Num Fluid Samples: 0

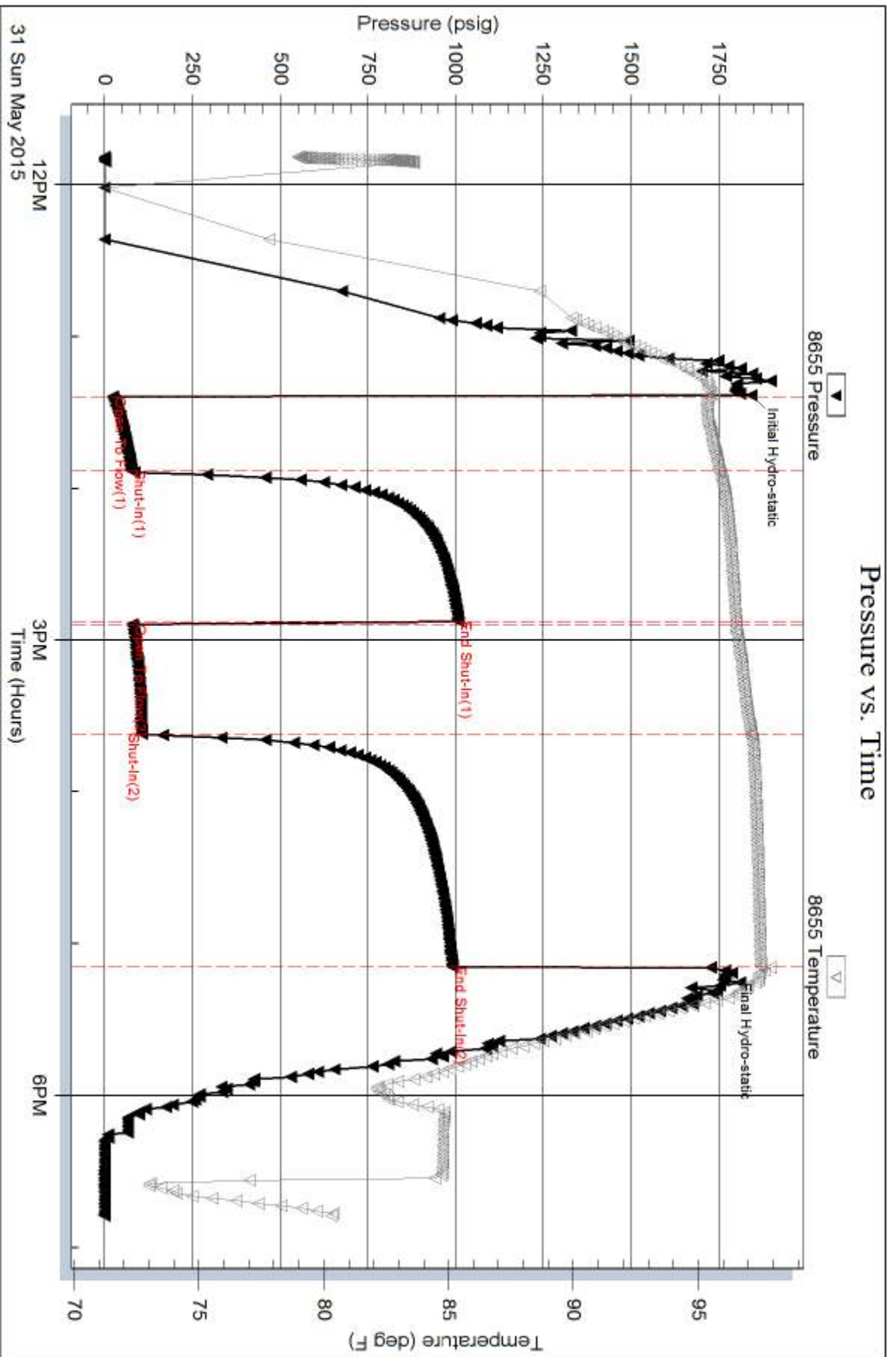
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



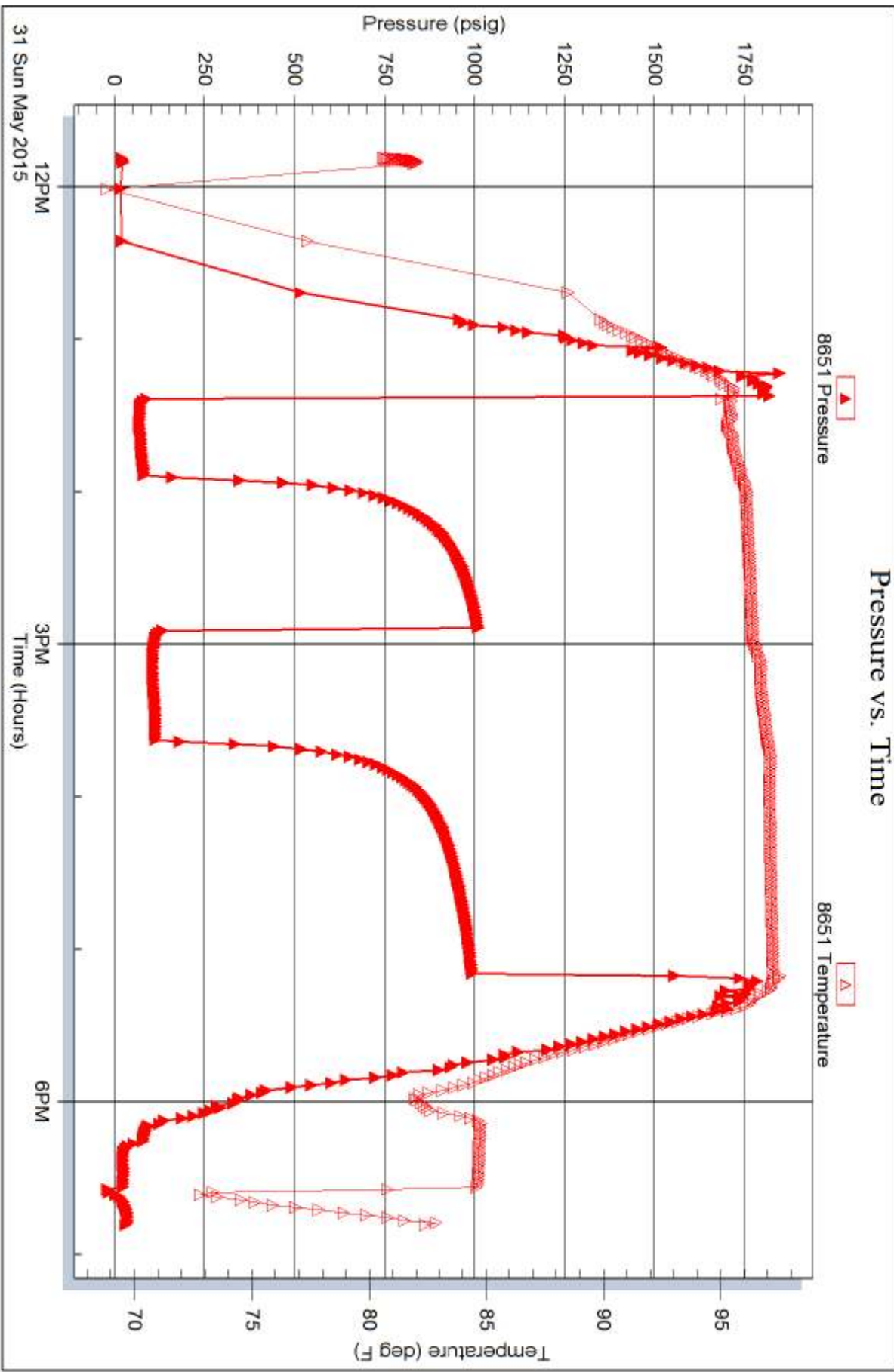
Serial #: 8651

Inside

White Exploration, Inc.

Hearing #1

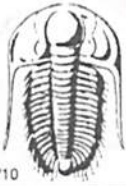
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61175

Printed: 2015.06.01 @ 10:05:14



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61173**

4/10

Well Name & No. Harding #1 Test No. 1 Date 5/29/15
 Company White Exploration, Inc. Elevation 2307KB 2302GL
 Address 1635 N. Waterfront Pkwy. Suite 100 Wichita, KS 67206
 Co. Rep / Geo. Andy White Rig WW #8
 Location: Sec. 7 Twp. 4 S Rge. 22 W Co. Norton State KS

Interval Tested 3420-3494 Zone Tested Lansing "A"
 Anchor Length 74' Drill Pipe Run 3290 Mud Wt. 8.9
 Top Packer Depth 3415 Drill Collars Run 120 Vis 60+
 Bottom Packer Depth 3420 Wt. Pipe Run --- WL 5.8
 Total Depth 3494 Chlorides 1200ppm System LCM 2#

Blow Description IF - Surface blow built very slowly to 1/2"
IST - No blow
FP - Surface blow
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>M</u>				
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 25' BHT 95° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1707 Test 1050 T-On Location 1915
 (B) First Initial Flow 37 Jars --- T-Started 1933
 (C) First Final Flow 52 Safety Joint --- T-Open 2232
 (D) Initial Shut-In 1225 Circ Sub --- T-Pulled 0217 5/30
 (E) Second Initial Flow 55 Hourly Standby --- T-Out 0345
 (F) Second Final Flow 72 Mileage 190 RT 95 Comments ---
 (G) Final Shut-In 1211 Sampler ---
 (H) Final Hydrostatic 1626 Straddle ---
 Shale Packer ---
 Extra Packer ---
 Extra Recorder ---
 Day Standby ---
 Accessibility ---

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90
 Sub Total 1145
 Total 1145
 MP/DST Disc't ---

Approved By _____ Our Representative Brannan Lonsdale

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61174

Well Name & No. Harding #1 Test No. 2 Date 5/30/15
 Company White Exploration, Inc. Elevation 2307 KB 2302 GL
 Address 1635 N. Waterfront Pkwy, Suite 100 Wichita, KS 67206
 Co. Rep / Geo. Andy White Rig WW #8
 Location: Sec. 7 Twp. 4 S Rge. 22 W Co. Norton State KS

Interval Tested 3560-3630 Zone Tested LKC "H-J"
 Anchor Length 20' Drill Pipe Run 3448 Mud Wt. 9.0
 Top Packer Depth 3555 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 3560 Wt. Pipe Run — WL 6.8
 Total Depth 3630 Chlorides 1500 ppm System LCM 2#
 Blow Description IF-DOB 18mins
PSI - No flow

PP-DOB 14mins
PSI - slowly built to 1" in 16mins, then slowly died after 77mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>320</u>	<u>6MCO</u>	<u>10</u>	<u>55</u>	<u>—</u>	<u>35</u>
Rec	Feet of <u>495' GIP</u>	%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 320' BHT 98° Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1737 Test 1050 T-On Location 1750
 (B) First Initial Flow 20 Jars — T-Started 1811
 (C) First Final Flow 92 Safety Joint — T-Open 1953
 (D) Initial Shut-In 1240 Circ Sub — T-Pulled 2338
 (E) Second Initial Flow 91 Hourly Standby — T-Out 0138 5/31
 (F) Second Final Flow 139 Mileage 190 RT 95 Comments —
 (G) Final Shut-In 1221 Sampler —
 (H) Final Hydrostatic 1721 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —

Initial Open 30 Extra Packer — Extra Copies —
 Initial Shut-In 60 Extra Recorder — Sub Total 0
 Final Flow 48 Day Standby — Total 1145
 Final Shut-In 90 Accessibility — MP/DST Disc't —
 Sub Total 1145

Approved By _____ Our Representative Brennan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61175

4/10

Well Name & No. Hasting #1 Test No. 3 Date 5/31/15
 Company White Expiration Inc. Elevation 2307 KB 2302 GL
 Address 1635 N. Waterfront Pkwy, Suite 100 Wichita, KS 67206
 Co. Rep / Geo. Andy White Rig WW #8
 Location: Sec. 7 Twp. 4 S Rge. 22 W Co. Norton State KS

Interval Tested 3656-3740 Zone Tested Raegen Sand
 Anchor Length 84' Drill Pipe Run 3542 Mud Wt. 9.3
 Top Packer Depth 3651 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 3656 Wt. Pipe Run --- WL 6.4
 Total Depth 3740 Chlorides 1500 ppm System LCM 2⁺

Blow Description IF - Built very slowly to 1 1/2"
ISF - No blow
FF - Built very slowly to 2 1/4"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 98° Gravity --- API RW --- @ --- °F Chlorides --- ppm

- (A) Initial Hydrostatic 1843
- (B) First Initial Flow 22
- (C) First Final Flow 76
- (D) Initial Shut-In 1009
- (E) Second Initial Flow 78
- (F) Second Final Flow 105
- (G) Final Shut-In 992
- (H) Final Hydrostatic 1767

- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 190 RT 95
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1145

T-On Location 1146
 T-Started 1149
 T-Open 1324
 T-Pulled 1709
 T-Out 1849
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1145
 MP/DST Disc't _____

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

Approved By _____ Our Representative Brannan Lonsdale

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Attached to and Made a Part of
ACO-1 Form for
WHITE EXPLORATION, INC.
HARTING #1
430' FSL and 1390' FWL
Section 7-4S-22W
Norton County, Kansas
API# 15-137-20732-00-00

Production Casing Cement

Bottom Stage cemented with 140 Sacks of Allied Special Blend Class A Cement with 6# of CA-200 (salt), 5.5% CA-500 (Gypseal), 2% gel and 5# Kol-Seal/sack.

Top Stage cemented with 300 sacks of Allied Light Blend Cement (65/35 Poz Mix) with 6% gel and .25lb/sk cellophane flakes. Cement circulated to surface.