

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	STANBERRY 1
Doc ID	1466951

All Electric Logs Run

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

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
7/1/2019	C-2062

Bill To
White Exploration Inc 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206

well file **(D)**

P.O. No.	Terms	Lease Name
		Stanberry #1

Description	Qty	Rate	Amount
Common	170	15.50	2,635.00
Gel	320	0.22	70.40
Calcium	480	1.20	576.00
Flo-Seal	85	3.70	314.50
SFC 0-500'	1	600.00	600.00
Handling	183	2.10	384.30
.08 * sacks * miles	6,771	0.08	541.68
Service Supervisor	1	150.00	150.00
LMV	35	3.75	131.25
Heavy Equipment Mileage	70	8.00	560.00
Customer Discount		-1,192.62	-1,192.62
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Stanberry #1 Ness Co.			

Thank You for your business!	Subtotal	\$4,770.51
	Sales Tax (7.5%)	\$0.00
	Total	\$4,770.51

QUALITY WELL SERVICE, INC.

7155

Federal Tax I.D. # 481187368

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

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	6-19	Sec.	35	Twp.	19S	Range	22W	County	NESS	State	KS	On Location		Finish	
Lease #	STANBERRY			Well No.	1			Location	Bazine Ks 7S 1 1/2 W N into						
Contractor	Pickwell Drlg Rig # 10							Owner	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	Surface							Charge To	WHITE EXPLORATION INC						
Hole Size	12 1/4			T.D.	266'			Street							
Csg.	8 5/8 23'			Depth	263.37			City	State						
Tbg. Size	Depth														
Tool	Depth														
Cement Left in Csg.	Shoe Joint			25'			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line	Displace			15.4			Cement Amount Ordered	170 1/2 Common							
EQUIPMENT								2 1/2 GAL 3% CL 1/2" PS							
Pumptrk	9	No.	TS					Common	170 SL						
Bulktrk	15	No.	JAKE					Poz. Mix							
Bulktrk		No.						Gel.	320 lbs						
Pickup		No.						Calcium	480 lbs						
JOB SERVICES & REMARKS								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal 85 lbs							
Centralizers								Kol-Seal 2 lbs							
Baskets								Mud CLR 48 1							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
Rm 6 3/4" 8 5/8 23" csg set d								Sand							
START CSG CSG ON BOTTOM								Handling 103							
Hook up to CSG BREAK circ w/ rig								Mileage 35							
START Pumping 10 Bbls H2O								FLOAT EQUIPMENT							
START Mix & Pump 170 SL Common								Guide Shoe							
2 1/2 GAL 3% CL 1/2" PS d 14.8" / gal								Centralizer							
START 0.50								Baskets							
Close Valve on CSG 15.4 Bbls out								AFU Inserts							
Good circ Thru JOB								Float Shoe							
Circ CNT TO BOT								Latch Down							
Thank you								SERVICE Svr. 1 EA							
PLEASE CALL AGAIN								LMV 35							
TODD IS JAKE								Pumptrk Charge Surface							
								Mileage 70							
X Signature <i>Wesley Brady</i>								Tax							
								Discount							
								Total Charge							

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

well file
C

Invoice

Date	Invoice #
7/8/2019	C-2069

Bill To
White Exploration Inc 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206

P.O. No.	Terms	Lease Name
		Stanberry #1

Description	Qty	Rate	Amount
5 1/2 DV Tool	1	4,500.00	4,500.00T
5 1/2 Centralizer	9	55.00	495.00T
5 1/2 Basket	2	275.00	550.00T
5 1/2" Rotating Scratchers	20	45.00	900.00T
5 1/2 AFU Float Shoe	1	425.00	425.00T
5 1/2 LD Plug & Baffle	1	300.00	300.00T
Head & Manifold	1	250.00	250.00T
Pro-C	150	18.00	2,700.00T
MDC	250	18.00	4,500.00T
Gel	282	0.22	62.04T
Calcium	705	1.20	846.00T
Cement Defoamer	36	6.00	216.00T
Salt	824	0.50	412.00T
Kol-Seal	750	0.75	562.50T
Mud Flush	500	1.00	500.00T
Fluid Loss	85	7.50	637.50T
CC-1	8	35.00	280.00T
Rotating Head	1	200.00	200.00T
Flo-Seal	94	3.70	347.80T
Longstring	1	1,750.00	1,750.00
Handling	451	2.10	947.10
.08 * sacks * miles	10,700	0.08	856.00
Service Supervisor	1	150.00	150.00
Additional Hours	3	250.00	750.00
LMV	35	3.75	131.25
Heavy Equipment Mileage	105	8.00	840.00
Customer Discount		-6,027.04	-6,027.04
Discount Expires after 30 days from the date of the invoice		0.00	0.00

Thank You for your business!	Subtotal	\$18,081.15
	Sales Tax (6.5%)	\$1,214.45
	Total	\$19,295.60

QUALITY WELL SERVICE, INC.

7161

Federal Tax I.D. # 481187368

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

Mailing Address P.O. Box 468

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

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-7-19	35	19S	22W	NESS	Ks		
Lease STANBERRY	Well No. #1		Location BAZING Ks W EDGE 7 S 1 1/2 W				
Contractor Pickwell Drilling Rig #10				Owner WINTO			
Type Job 5 1/2 2 stage	T.D. 4500			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 2 7/8	Depth 4499		Charge To WHITE EXPLORATION				
Csg. 5 1/2 14"	Depth		Street				
Tbg. Size	Depth		City State				
Tool	Depth		City State				
Cement Left in Csg.	Shoe Joint 11.13		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 109.5		Cement Amount Ordered 150x Poc 2 1/2 GAL 101/50A				
EQUIPMENT				5 1/2 x Koseal .67 C16A 257 C 41P .25 PSI			
Pumptrk 8 No.			Common 150x Poc 250x mac 3 1/2 CC 1/6 PS				
Bulktrk 10 No.			Poz Mix 250x mac				
Bulktrk 15 No.			Gel. 282 lbs.				
Pickup No.			Calcium 705 lbs.				
JOB SERVICES & REMARKS				Hulls- 36 lbs C-41P,			
Rat Hole 30			Salt 924 lbs.				
Mouse Hole			Flowseal 94 lbs.				
Centralizers 1-2-3-4-5-8-10-12-10-73			Kol-Seal 750 lbs.				
Baskets 2-72			Mud CLR 48 500 gal.				
DN or Port Collar 1488 TOP 72 Bottom 73			CFL-117 or CD110 CAF 38 C-16A 85 lbs.				
Run 107 H'S 5 1/2 14" CSG SET			Sand- 1 EA Rotate HEAD				
START CSG w/ tool 2 72 1488			Handling 451 8 GAL CC-1.				
Break circ w/rig DROP BALL			Mileage 35 / 10700				
could not GET WITH RIG Hook up to			5 1/2 FLOAT EQUIPMENT				
Pump TRK 1900" BALL WENT THRU			Guide Shoe 2V TOOL 1 EA				
circ 1 1/2 hrs start Pumping Preflush			Centralizer 9 EA H:M 1 EA				
6 bbls H2O 12 Bbls MF 6 bbls H2O			Baskets 2 EA				
START Mix 150x Poc 14.8 GAL			AFU Inserts 20 EA Rotate Scratch				
4 CSG SHUT DOWN WASH UP BK			Float Shoe 1 EA				
Release 5 1/2 LA PLUG			Latch Down 1 EA				
START Disp w/ 2 1/2 KCL			SERVICE Siph 1 EA				
LIFT PSE 90 at 700'			LMV 35				
Land POG 1500' 110 bbl. out			Pumptrk Charge LS / odd HES 3 EA				
RELEASE & HELD 1/4 Bbl BACK			Mileage 105.				
DROP DV tool & DOWN W 900'			Tax				
W/ Pumptrk Hook up to RIG Circ 1 hr			Discount				
X Signature <i>[Signature]</i> White Exploration			Total Charge				

QUALITY WELL SERVICE, INC.

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Date	7-7-19	Sec.	35	Twp.	19S	Range	22W	County	NESS	State	Ks	On Location		Finish				
Lease	STANBERRY		Well No.		1		Location									BAZING KS W EDGE 7S 1 1/2 W		
Contractor	Pickzell Drig Rig #10							Owner									U TATO	
Type Job	5 1/2 2 STAGE							To Quality Well Service, Inc.									You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	7 7/8		T.D.		4500		Charge To									WHITE Exploration		
Csg.	5 1/2 14"		Depth		4499		Street											
Tbg. Size			Depth				City									State		
Tool			Depth				Cement Left in Csg.									Shoe Joint	11.13	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line			Displace		109.5		Cement Amount Ordered											

START Pumping 10 Bbls H₂O
 START MIX 250GAL MOC @ 12 1/4 GAL
 SHUT DOWN WASH UP TUB & Release Closing Plug
 START DISD W 2% KCL
 LIFT 500'
 Land Plug 1300'
 36 1/2 out
 RELEASE HELD 1/4 BH BACK
 Good Circ THRU JOBS
 Circ CMT TO PIT

15' STAGE
 150.50 Proc
 2% CEL 10% SALT - 3 1/2% K₂CO₃
 6% C-16A 25% C-11P 25% PS
 14.8% / GAL 1.50 H₂O

THANK YOU
 PLEASE CALL A FAN

TODD KEITH TS JAKE
 2ND STAGE
 250 1/2 MOC 3 1/2 CC 1 1/2' PS
 12 1/4 / GAL 2.61 H₂O



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

Well Name: Stanberry #1
API: API: 15-135-26070
Location: 35-19S-22W
License Number:
Spud Date: 06/28/19
Surface Coordinates: 1060' FSL, 650' FEL

Region: Ness Co., KS
Drilling Completed: 07/06/19

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2280 **K.B. Elevation (ft):** 2287
Logged Interval (ft): 3700 **To:** 4500 **Total Depth (ft):** 4500
Formation: Mississippi
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 structural position, casing was run on the Stanberry #1 to test the Mississippi.

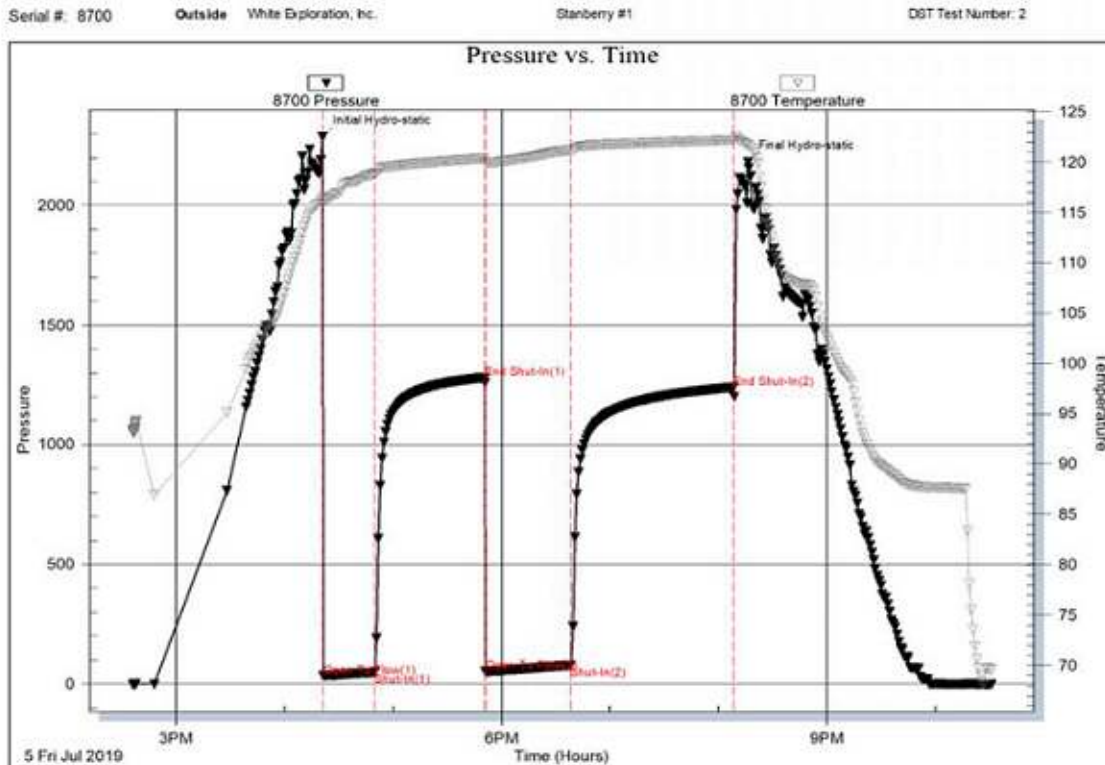
General Info

Drilling Contractor: Pickrell Drilling, Rig #10
Logs: ELI Wireline Services
Compensated Density/Neutron, Dual, Micro, Sonic
Drilling Mud: Mudco/Service Mud, Inc.
DST: Trilobite
Surveys: 265'-.75, 4086'-.5, 4420'- 1, 4500'-1

Daily Status

06/28/19: Spud Well @12:00 P.M. Drill to 265, run 6 joints new 8-5/8" surface casing set @ 255, cemented with 170 sacks of 60/40 Poz mix, 3%CC, 2% gel.
06/29/19: Drilling out from under Surface
06/30/19: Drilling ahead @ 1761'
07/01/19: Drilling ahead @ 2703'
07/02/19: Drilling ahead @ 3337'
07/03/19: Drilling ahead @ 3885'
07/04/19: TIH with bit #2
07/05/19: TOH for DST #1
07/06/19: Circulating hole @ 4500'

White Ex				The Reach Group		Tom Kat, Inc.		Sinclair		Mustang	
Stanberry				Moore #1		Ficken #1		Anna Williams#4		Miller Mossburgh	
35-19S-22W				35-19S-22W		35-19S-22W		36-19S-22W		34-19S-22W	
1060' FSL, 650' FEL				C SW SE		C SE NE		CNW SW		1120' FSL, 190' FEL	
KB: 2287				KB: 2285		KB: 2282		KB: 2267		KB: 2287	
Sample	Log	Datum		Relationship		Relationship		Relationship		Relationship	
Stone Corral	1512	1514	773	+4		-1		-4		+13	
B. Stone	1554	1550	737	+4		-3		-6		-4	
Heebner	3765	3763	-1476	0		-6		+3		0	
Stark	4072	4065	-1778	+12		-2		-5		+2	
BKC	4128	4126	-1839	+3		+4		-4		-1	
Cherokee	4343	4338	-2051	+14		+1		+8		+3	
Mississippi	4417	4417	-2130	+17		+2		-4		0	



ROCK TYPES

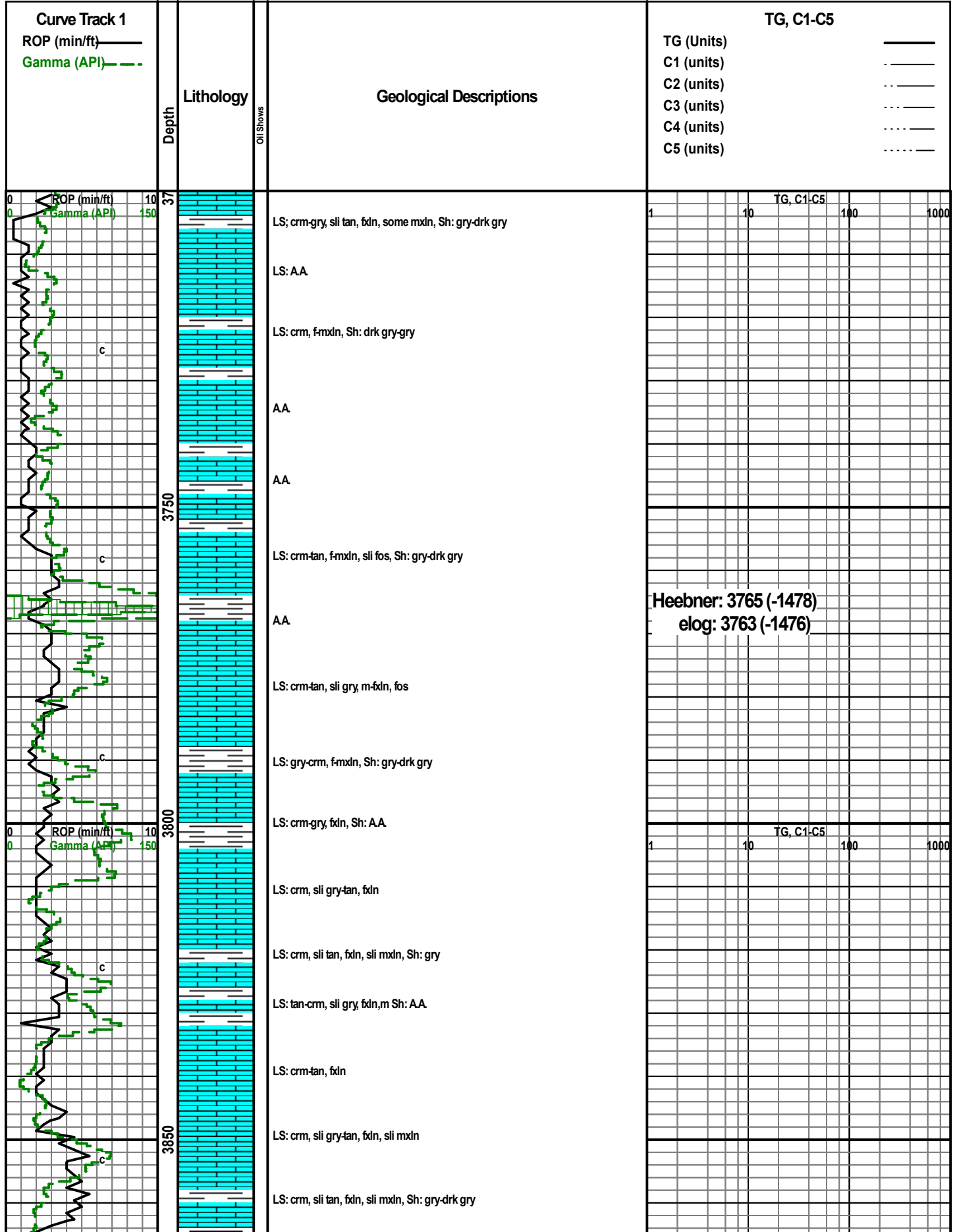
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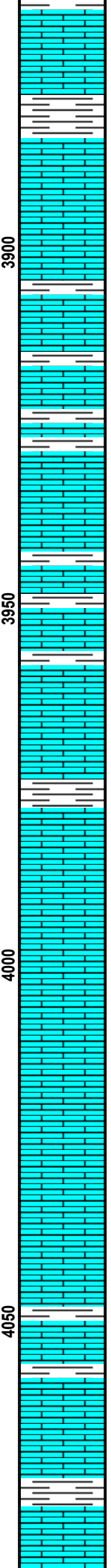
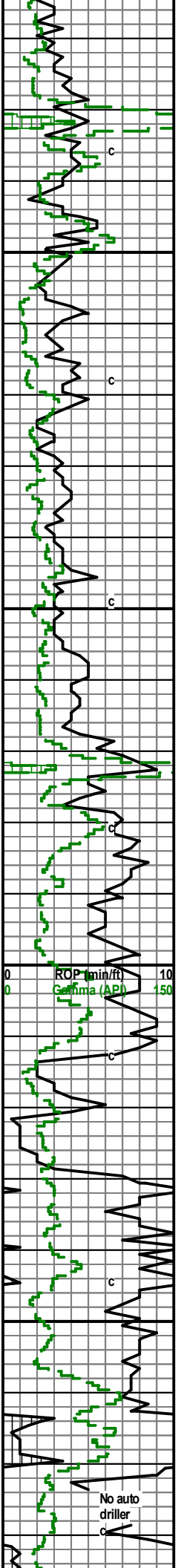
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta

- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till





LS: crm, sli gry, fxdn, sli mxln, Sh: gry

Sh: gry-drk gry, LS: crm, m-fxdn, sli fos

AA

LS: crm, sli gry, mcr-fxdn, sli fos, Sh: gry

LS: crm, sli tan, mcr-fxdn, sli fos, sli chalk, Sh: gry-ft gry

LS: crm, sli tan, fxdn, sli mcr, sli fos, sli chalky, Sh: gry-drk gry

LS: AA

LS: crm, sli tan, fxdn, sli mcr, sli fos, sli chalk

AA with Sh: gry-drk gry-grm, sli ft gry slit

LS: crm, sli tan, mcrxln, chalky, Sh: AA

AA

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

LS: AA

LS: crm-gry, mcrxln, sli chalk

LS: gry-crm, mcrxln, sli fos

LS: AA some Sh: gry-ft gry

LS: crm, mcr-fxdn, some ool, chalky

LS: AA

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

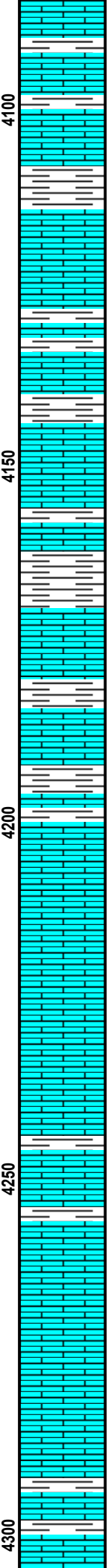
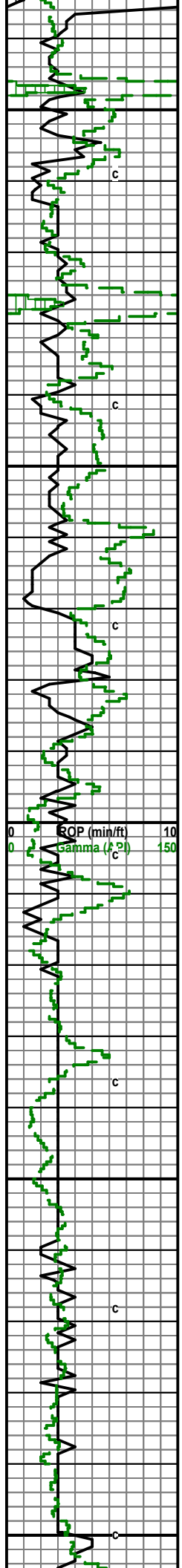
LS: crm-gry, sli tan, mcrxln, cherty, ool, Sh: gry-drk gry

Mudco mdchk
 Wt: 9.15 Vis: 45
 pH: 10.5 Fil: 9.6
 LCM: 1#

TG, C1-C5

1 10 100 1000

Stark Shale: 4072 (-1785)
elog: 4065 (-1778)



LS: crm-gry, sli tan, mcrxn, sli fxdn, sli fos, sli chalky, Sh: gry-lt gry, some grn

LS: crm-gry, mcrxn, sli chalky,

LS: AA

LS: crm-gry, mcrxn, sli chalky, Sh: gry-drk gry

LS: crm-tan, mcrxn, chalky, sli fos

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

LS: crm-gry, mcrxn, sli fxdn, sli cherty, sli chalky, Sh: gry

LS: gry-crm, mcrxn, some fxdn, chalky, Sh: gry-drk gry

LS: AA with Sh: gry-lt gry,

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

LS: gry-crm, sli tan/brwn, mcrxn some fxdn, sli fos, sli chalky, Sh: gry-lt gry

LS: crm-gry, sli tan, mcrxn, few fxdn, couple pieces sandy,

LS: crm-gry, mcrxn, sli cherty

LS: AA sli chalky

LS: gry-crm, mcrxn, sli cherty, sli chalky, some Sh: gry-lt gry,

LS: gry/crm, mcrxn

LS: gry-crm, mcrxn, chalky

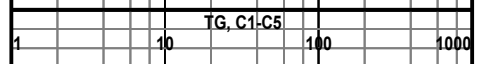
Sh: gry-drk gry, some lt gry, LS: AA

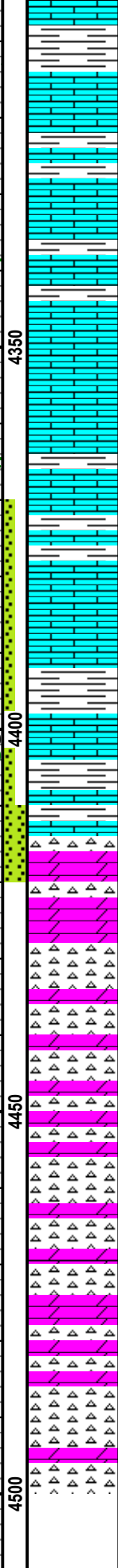
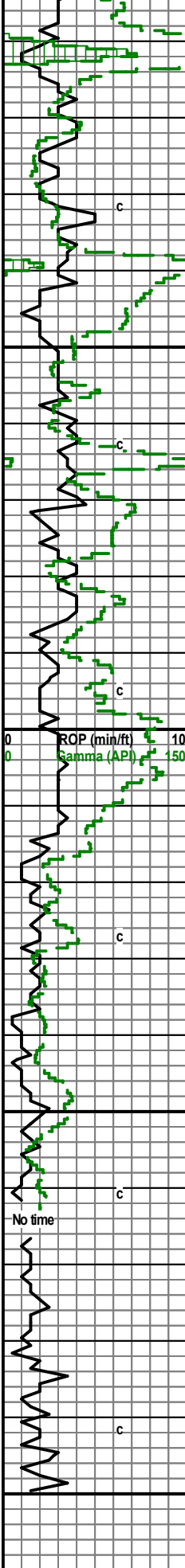
BKC: 4128 (-1841)
elog: 4126 (-1839)

elog Marmaton: 4170 (-1883)

elog Pawnee: 4235 (-1948)

Mudco mdchk
Wt: 9.2 Vis: 56
pH: 9.5 Fil: 8.8
LCM: 1#





Sh: gry-drk gry-blck some LS: crm-tan, fxdn, sli sandy, pos dead oil, pos sli odor, no fluor

Sh: blck-drk gry-gry

LS: crm-tan, mcrxln, chert, pr vis por, vssFO, sli odor, sli dull fluor, show dead oil

LS: crm-gry, mcrxln, sli cherty,

LS: AA

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

LS: gry-crm, mcrxln

LS: crm, mcrxln, sli cherty, Sh: gry-lt gry-gm

LS: crm-gry, mcrxln, Chert yellow

LS: crm, sli tan, mcrxln, some f-mxln, cherty, Sh: gry-lt gry-gm/blue

Dolo: crm, fxdn, dense, fair odor, fair stain, SFO, dull yellow fluor, fair vis pp por,

Chert: crm, vit, dense. and Dolo: crm, fxdn fair stain, SFO, yellow fluor, fair vis pp por

Mostly Chert: some Dolo: AA.

Chert: white/crm

Chert: AA some Dolo: crm, fxdn, sli limey

Chert: crm, Dolo: crm, sli tan, fxdn, sli chalky

RTD 4500

LTD 4500

Cherokee Shale: 4343 (-2056)
 elog: 4338 (-2051)

Mississippian: 4417 (-2130)
 elog: 4417 (-2130)

Mudco mdchk
 Wt: 9.35 Vis: 61
 pH: 10.5 Fil: 8.0
 LCM: 1#

DST #1 4410-4420
 Misrun

CFS 60 min

DST #2 4370-4420
 30-60-45-90

CFS IF: built to 8"
 FF: built to 13"
 Rec: 90' GIP, 90' CGO, 70' GHMCO (10%G, 40%M, 50%O)
 IFP: 32-49 ISIP: 1281
 FFP: 52-77 FSIP: 1240



DRILL STEM TEST REPORT

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

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

ATTN: Andrew White

Stanberry #1

35-19S-22W Ness,KS

Start Date: 2019.07.05 @ 14:35:51

End Date: 2019.07.05 @ 22:31:12

Job Ticket #: 64476 DST #: 2

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

Printed: 2019.07.08 @ 08:46:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White Exploration, Inc.
 1635 N. Waterfront Pkwy
 Ste. 100
 Wichita, KS 67206
 ATTN: Andrew White

35-19S-22W Ness,KS

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

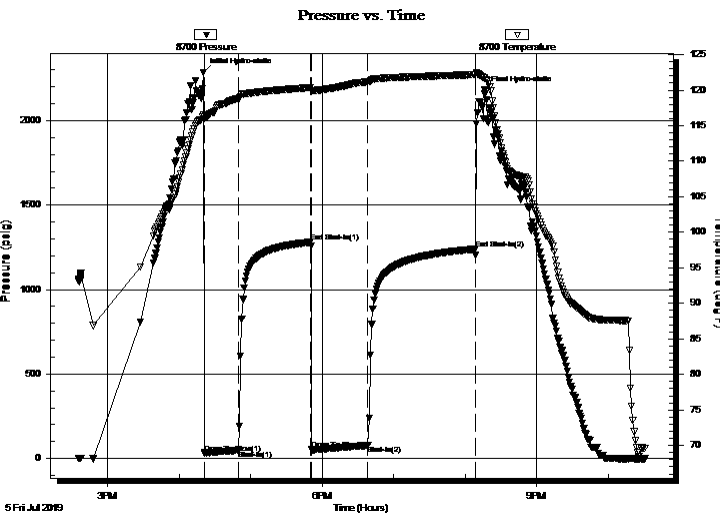
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:12
 Time Test Ended: 22:31:12
 Interval: **4370.00 ft (KB) To 4420.00 ft (KB) (TVD)**
 Total Depth: 4420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2287.00 ft (KB)
 2280.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8700 Outside

Press@RunDepth: 77.49 psig @ 4371.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.07.05 End Date: 2019.07.05 Last Calib.: 2019.07.05
 Start Time: 14:35:52 End Time: 22:31:12 Time On Btm: 2019.07.05 @ 16:20:42
 Time Off Btm: 2019.07.05 @ 20:16:27

TEST COMMENT: 30- IF- Slowly built to 8.32"
 60- IS- No blow
 45- FF- BOB 37 mins. Built to 13.22"
 90- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.46	116.55	Initial Hydro-static
1	32.32	115.95	Open To Flow (1)
29	48.77	118.84	Shut-In(1)
90	1280.89	120.36	End Shut-In(1)
91	52.42	119.91	Open To Flow (2)
138	77.49	121.19	Shut-In(2)
228	1240.01	122.18	End Shut-In(2)
236	2180.18	121.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GHMCO, 10%G 40%M 50%O	0.99
90.00	CGO, 40%G 60%O	1.28
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

Tool Information

Drill Pipe:	Length: 4349.00 ft	Diameter: 3.82 inches	Volume: 61.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4370.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Jars	5.00			4358.00	
Safety Joint	3.00			4361.00	
Packer	5.00			4366.00	28.00 Bottom Of Top Packer
Packer	4.00			4370.00	
Stubb	1.00			4371.00	
Recorder	0.00	6771	Inside	4371.00	
Recorder	0.00	8700	Outside	4371.00	
Perforations	12.00			4383.00	
Change Over Sub	1.00			4384.00	
Drill Pipe	32.00			4416.00	
Change Over Sub	1.00			4417.00	
Bullnose	3.00			4420.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 64476

DST#: 2

Test Start: 2019.07.05 @ 14:35:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	GHMCO, 10%G 40%M 50%O	0.992
90.00	CGO, 40%G 60%O	1.276
0.00	90' GIP	0.000

Total Length: 160.00 ft Total Volume: 2.268 bbl

Num Fluid Samples: 0

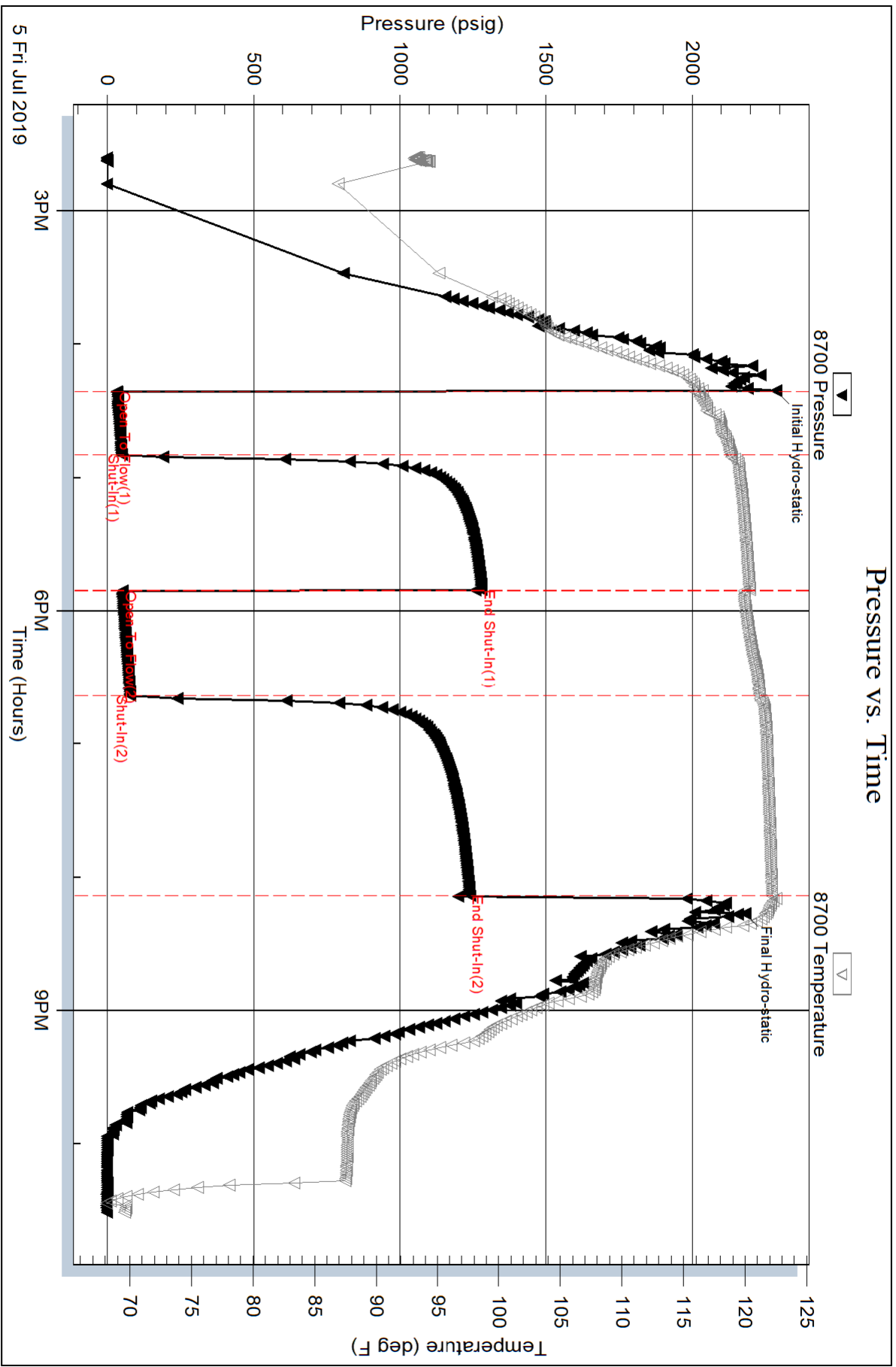
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



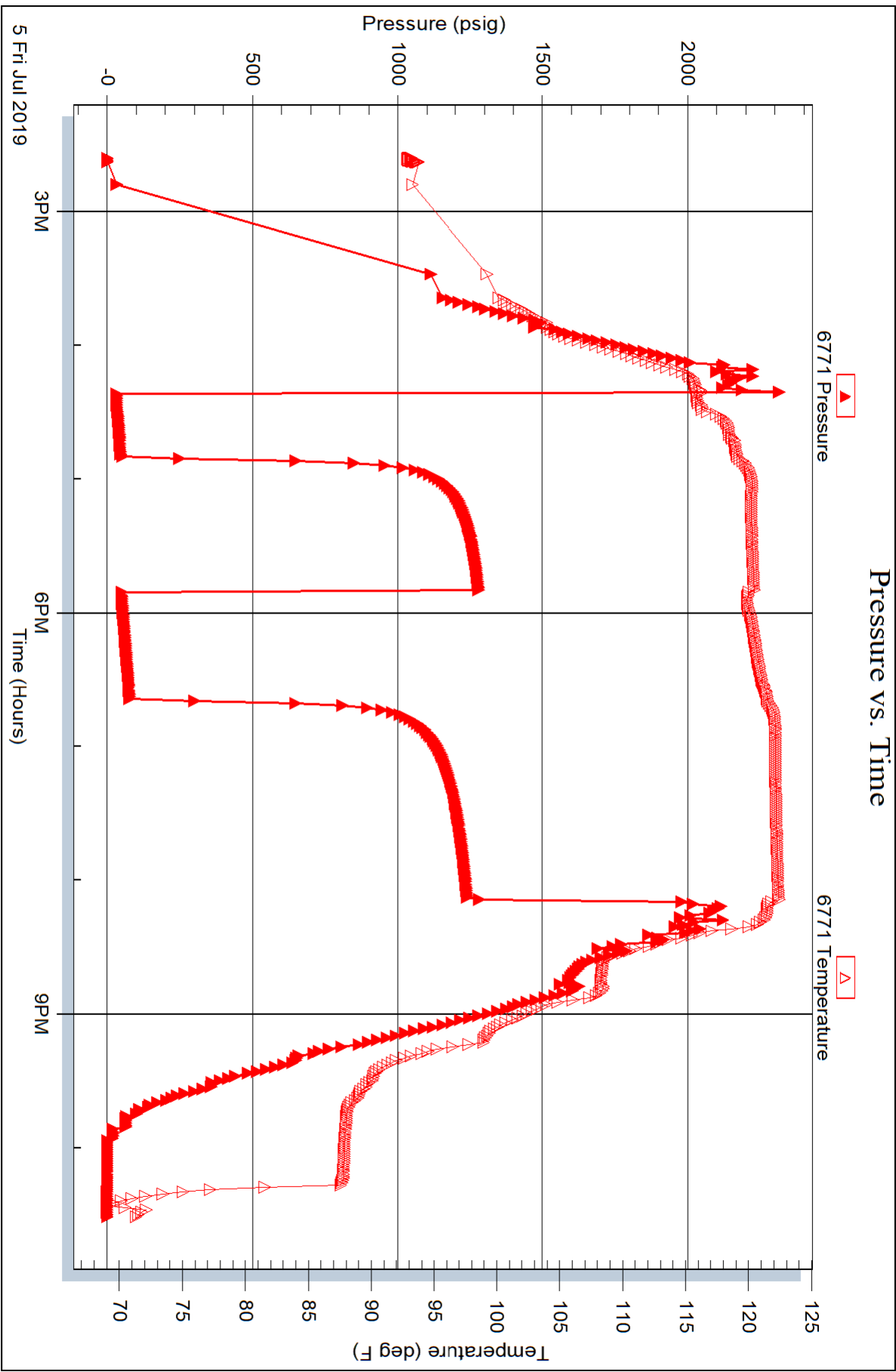
Serial #: 6771

Inside

White Exploration, Inc.

Stanberry #1

DST Test Number: 2





DRILL STEM TEST REPORT

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

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

ATTN: Andrew White

Stanberry #1

35-19S-22W Ness,KS

Start Date: 2019.07.05 @ 06:11:23

End Date: 2019.07.05 @ 14:22:58

Job Ticket #: 65700 DST #: 1

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

Printed: 2019.07.08 @ 08:50:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 65700

DST#: 1

Test Start: 2019.07.05 @ 06:11:23

Tool Information

Drill Pipe:	Length: 4318.00 ft	Diameter: 3.82 inches	Volume: 61.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 80000.00 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:	4410.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	3.00			4401.00	
Packer	5.00			4406.00	28.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	6771	Inside	4411.00	
Recorder	0.00	8700	Outside	4411.00	
Perforations	6.00			4417.00	
Bullnose	3.00			4420.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration, Inc.

35-19S-22W Ness,KS

1635 N. Waterfront Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Andrew White

Stanberry #1

Job Ticket: 65700

DST#: 1

Test Start: 2019.07.05 @ 06:11:23

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	M	0.584

Total Length: 100.00 ft

Total Volume: 0.584 bbl

Num Fluid Samples: 0

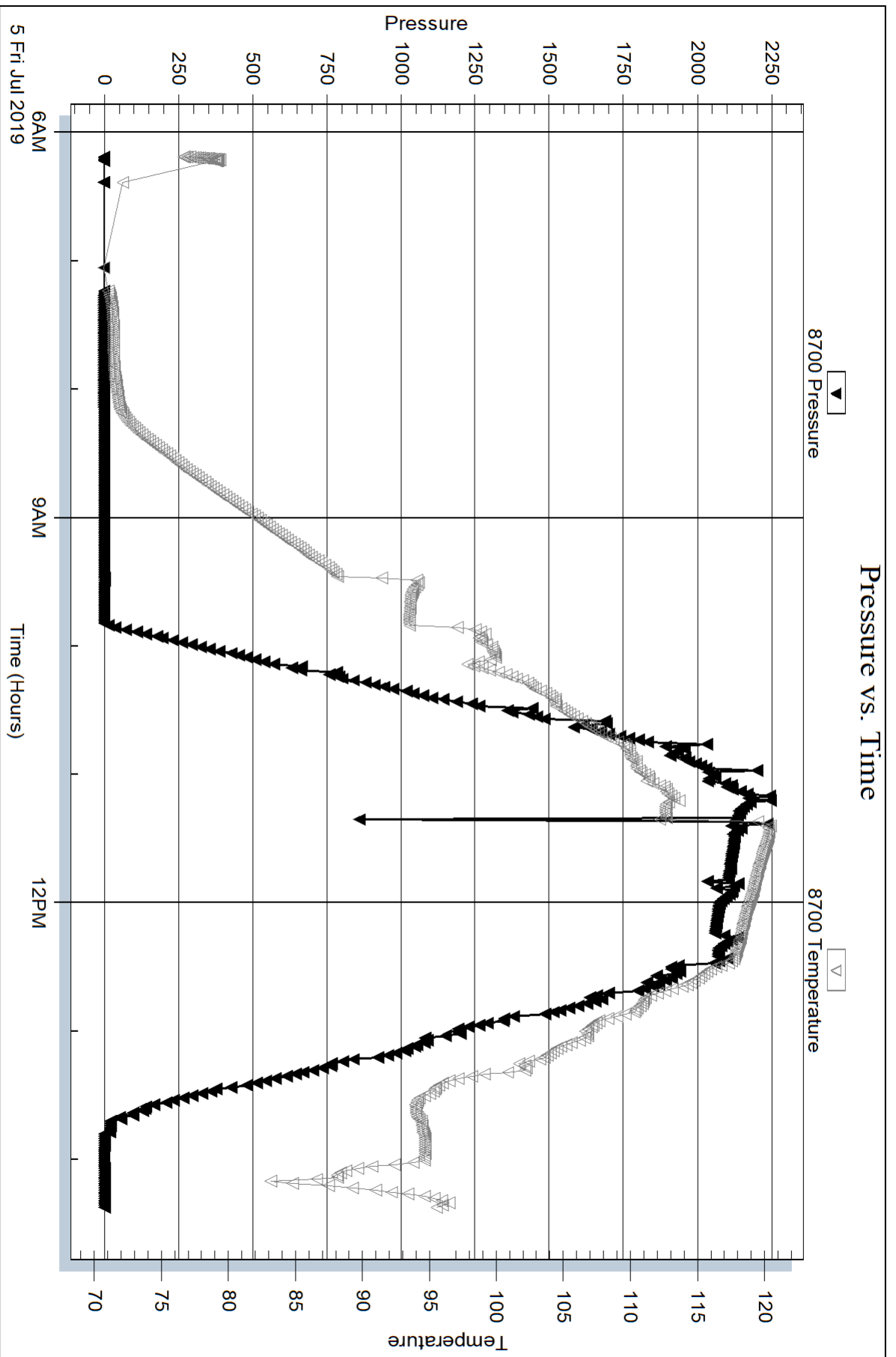
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



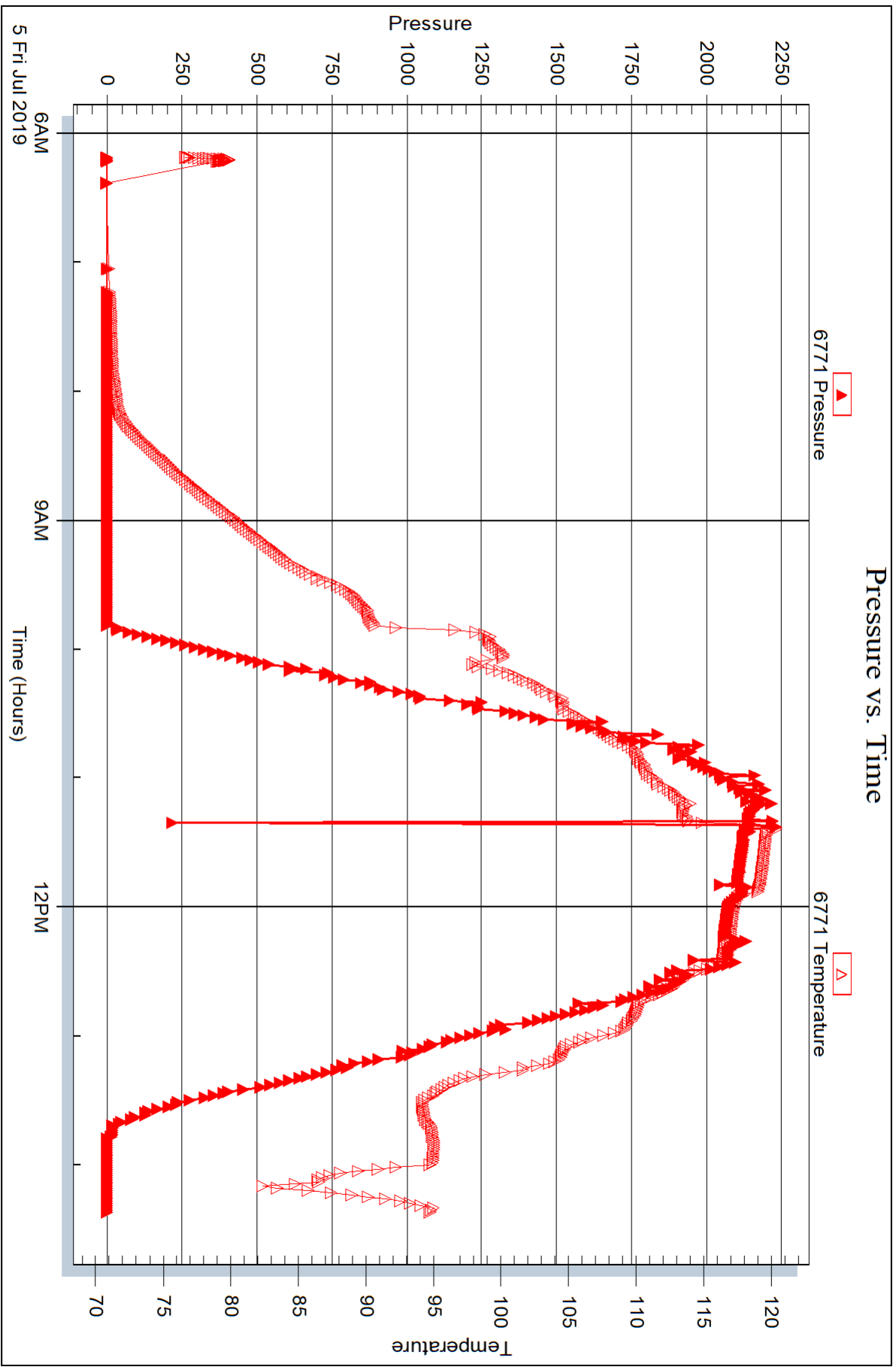
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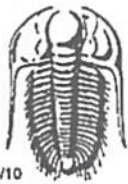
Inside

White Exploration, Inc.

Stanberry #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65700

Well Name & No. Stanberry #1 Test No. 1 Date 7/5/19
 Company White Exploration, Inc. Elevation 2287 KB 2280 GL
 Address 1635 N. Waterfront Pkwy, Ste. 100, Wichita, KS 67206
 Co. Rep / Geo. Andrew White Rig Pickrell 10
 Location: Sec. 35 Twp 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4410-4420 Zone Tested MISS
 Anchor Length 10' Drill Pipe Run 4318 Mud Wt. 9.2
 Top Packer Depth 4405 Drill Collars Run 90 Vis 56
 Bottom Packer Depth 4410 Wt. Pipe Run --- WL 8.8
 Total Depth 4420 Chlorides 6000 ppm System LCM 1#

Blow Description PACKER FAILURE

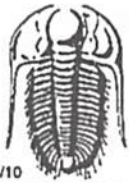
Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 1050 T-On Location 0554
 (B) First Initial Flow _____ Jars 250 T-Started 0611
 (C) First Final Flow _____ Safety Joint 75 T-Open 1120
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 1140
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1422
 (F) Second Final Flow _____ Mileage 120 RT 120 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____
 Extra Packer _____ EM Tool _____
 Extra Recorder _____ Ruined Shale Packer _____
 Day Standby _____ Ruined Packer _____
 Accessibility _____ Sub Total 0
 Sub Total 1495 Total 1495 MP/DST Disc't _____

Approved By _____ Our Representative Bryan 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. 64476

Well Name & No. Stanberry #1 Test No. 2 Date 7/5/19
 Company White Exploration, Inc. Elevation 2287 KB 2280 GL
 Address 1635 N. Waterfront Pkwy, Ste. 100 Wichita, KS 67206
 Co. Rep / Geo. Andy White Rig Pickrell 10
 Location: Sec. 35 Twp 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4370-4420 Zone Tested MISS
 Anchor Length 50' Drill Pipe Run 4349 Mud Wt. 9.2
 Top Packer Depth 4365 Drill Collars Run --- Vis 56
 Bottom Packer Depth 4370 Wt. Pipe Run --- WL 8.8
 Total Depth 4420 Chlorides 6,000 ppm System LCM 1#

Blow Description IF - Slowly built to 8.32"
FSI - No blow
FF - BOB 37 mins. Built to 13.22"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>6HMC0</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>40</u>
<u>90</u>	<u>CA0</u>	<u>40</u>	<u>60</u>		
<u>90'</u>	<u>WIP</u>				

Rec Total 160' BHT 40 Gravity 122° API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2285</u>	<input checked="" type="checkbox"/> Test	<u>1300</u>	T-On Location	<u>1422</u>
(B) First Initial Flow	<u>32</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1436</u>
(C) First Final Flow	<u>49</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1621</u>
(D) Initial Shut-In	<u>1281</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>2006</u>
(E) Second Initial Flow	<u>52</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2233</u>
(F) Second Final Flow	<u>77</u>	<input checked="" type="checkbox"/> Mileage	<u>120 RT x 2</u> 120	Comments	<u>Tools landed @ 1330 7/6</u>
(G) Final Shut-In	<u>1240</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2180</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>45</u>	<input type="checkbox"/> Day Standby		Total	<u>1995</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1995</u>		

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.