



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1203484  
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: \_\_\_\_\_

1203484

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Gunzelman 1
Doc ID	1203484

All Electric Logs Run

Compensated Density/Neutron
Dual Induction
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Gunzelman 1
Doc ID	1203484

Tops

Name	Top	Datum
Anhydrite	2848	+946
Base Anhydrite	2882	+912
Topeka	3881	-88
Heebner	4140	-346
Lansing	4196	-402
Marmaton	4580	-786
Morrow Shale	4982	-1188
Lwr Morrow Limestone	5087	-1293
Mississippi	5120	-1326





**CONSOLIDATED**  
Oil Well Services, LLC

267582

TICKET NUMBER 44497  
LOCATION Oakley, Ks  
FOREMAN Walt Drukat

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-23-14	8860	Gunzelman #1	20	13 <sup>s</sup>	42 <sup>w</sup>	Wallace
CUSTOMER <u>White Exploration</u>		LOCATION <u>Weskan</u>		TRUCK #		
MAILING ADDRESS		STATE <u>KS</u>		DRIVER <u>Cory Dennis</u>		TRUCK #
CITY		ZIP CODE		DRIVER <u>JEFF K</u>		

JOB TYPE Sur Face HOLE SIZE 17 1/2" HOLE DEPTH 265' CASING SIZE & WEIGHT 13 3/8 - 48#  
 CASING DEPTH 264' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL 59 BBL WATER gal/sk 5.9 CEMENT LEFT in CASING 15'-20'  
 DISPLACEMENT 38 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI 150# RATE 5 BPM

REMARKS: Safety Meeting. Rig up on murfin #22, circ casing on  
bottom, mix 250 sks cem, 3% cc - 2% gel, Release Plus + Displace  
38 1/4 BBL H2O @ 250#, Shut in,  
Control Dicl Circ.  
Approx 5 BBL to BT

*Thank You*  
*Walt + crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54013	1	PUMP CHARGE	1,150.00	1,150.00
5406	75	MILEAGE	5.25	393.75
5407A	11.75	Ton mileage Delivery	1.25	1,542.25
11045	250 sks	Class A Cement	18.55	4,637.50
1102	705#	Calcium Chloride	.94	662.70
1118B	490#	Gal	.27	126.90
4436	1	13 3/8 Wooden Plug	179.25	179.25
<input checked="" type="checkbox"/> completed				
				8,693.35
Less 10% Disc				869.34
				7,824.01
SALES TAX				310.34
ESTIMATED TOTAL				8,134.35

Revin 3737

AUTHORIZATION [Signature] TITLE Tool Pusher DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



268036

TICKET NUMBER 47634  
 LOCATION Oakley Co.  
 FOREMAN Damen

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/1/14	8860	Gunzelman #1	20	13	42	Wallace
CUSTOMER White Exploration			Weskan 3W 3N E+Minto			
MAILING ADDRESS 1635 N. Waterfront Pkwy Suite 100						
CITY Wichita	STATE Ko.	ZIP CODE 67206 3966	TRUCK # 731	DRIVER Cory	TRUCK # 460	DRIVER Lance

JOB TYPE PTA HOLE SIZE \_\_\_\_\_ HOLE DEPTH 5210' CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2 2875 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 12.5 To 13 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting Rig up on Martin #22 Plug as ordered

2875' - 25 SKs  
1875' - 100 SKs  
300' - 40 SKs      230 SKs 60/40 Poz 4% Gel 1/4" Flaseal  
40' - 20 SKs  
Plug Mouse Hole 15 SKs  
Plug Rat Hole 30 SKs

*Thanks Damen + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	\$1395. <sup>00</sup>	\$1395. <sup>00</sup> ✓
5406	65	MILEAGE	\$5.25	\$341. <sup>25</sup> ✓
5407R	9.89	Ton Mileage Delivery	\$1.25	\$1125. <sup>15</sup> ✓
7131	230 SKs	60/40 Poz mix	\$15.86	\$3647. <sup>80</sup> ✓
1118B	791*	Bentonite	\$ .27	\$213. <sup>57</sup> ✓
1107	58*	Flaseal	\$2.97	\$172. <sup>36</sup> ✓
			SubTotal	\$6895. <sup>03</sup> ✓
			Less 10%	\$689. <sup>50</sup> ✓
			SubTotal	\$6205. <sup>53</sup> ✓
			SALES TAX	223.25 ✓
			ESTIMATED TOTAL	16428.78 ✓

*[Handwritten Signature]*

**completed**

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



## GEOLOGIST'S REPORT

OPERATOR <b>WHITE EXPLORATION, INC.</b>		RIG NO. <b>22</b>	
LEASE <b>GUNZELMAN # 1</b>			
LOCATION <b>670 FNL &amp; 1000 FWL</b>			
SEC. <b>20</b>	TWSP <b>13S</b>	RGE <b>42W</b>	
COUNTY <b>WALLACE</b>	STATE <b>KANSAS</b>		
FIELD <b>WILDCAT</b>			
CONTRACTOR <b>Murfin Drilling Company</b>		RIG NO. <b>22</b>	
COMMENCED <b>22 April 2014</b>		COMPLETED <b>1 May 2014</b>	
MUD DISPLACED <b>3500</b>		MUD TYPE <b>Chemical</b>	
DRILLING TIME KEPT FROM	<b>3800</b>	TO	<b>5210</b>
SAMPLES SAVED FROM	<b>3800</b>	TO	<b>5210</b>
SAMPLES EXAMINED FROM	<b>3800</b>	TO	<b>5210</b>
GEOLOGICAL SUPERVISION FROM <b>3800</b>		TO <b>5210</b>	
GEOLOGIST ON WELL <b>Paul Gunzelman</b>			

FORMATION NAME	LOG TOP DATUM	SAMPLE TOP DATUM
Stone Corral	2848 +946	2844 +950
Base/Anhydrite	2882 +912	2876 +918
Topeka	3881 -88	3874 -80
Heebner Shale	4140 -346	4132 -338
Lansing	4196 -402	4189 -395
Base/Kansas City	4565 -771	4556 -762
Cherokee	4776 -982	4766 -972
Morrow Shale	4982 -1188	4971 -1177
Mississippian	5120 -1326	5110 -1316
Total Depth	5220 -1426	5210 -1416

<b>ELEVATIONS</b>	
KB <b>3794 Ft.</b>	
GL <b>3783 Ft.</b>	
ALL MEASUREMENTS FROM K.B.	

<b>CASING RECORD</b>	
Conductor <b>None</b>	
Surface <b>8 5/8" @ 264'</b>	
Production <b>None</b>	

<b>ELECTRICAL SURVEYS:</b>	
<b>Nabors Production Serv.</b>	
Comp. Neutron Density	
Dual Induction	
Micro-resistivity	
Comp. Sonic	

20

**REMARKS**

API 15-199-20407-00-00

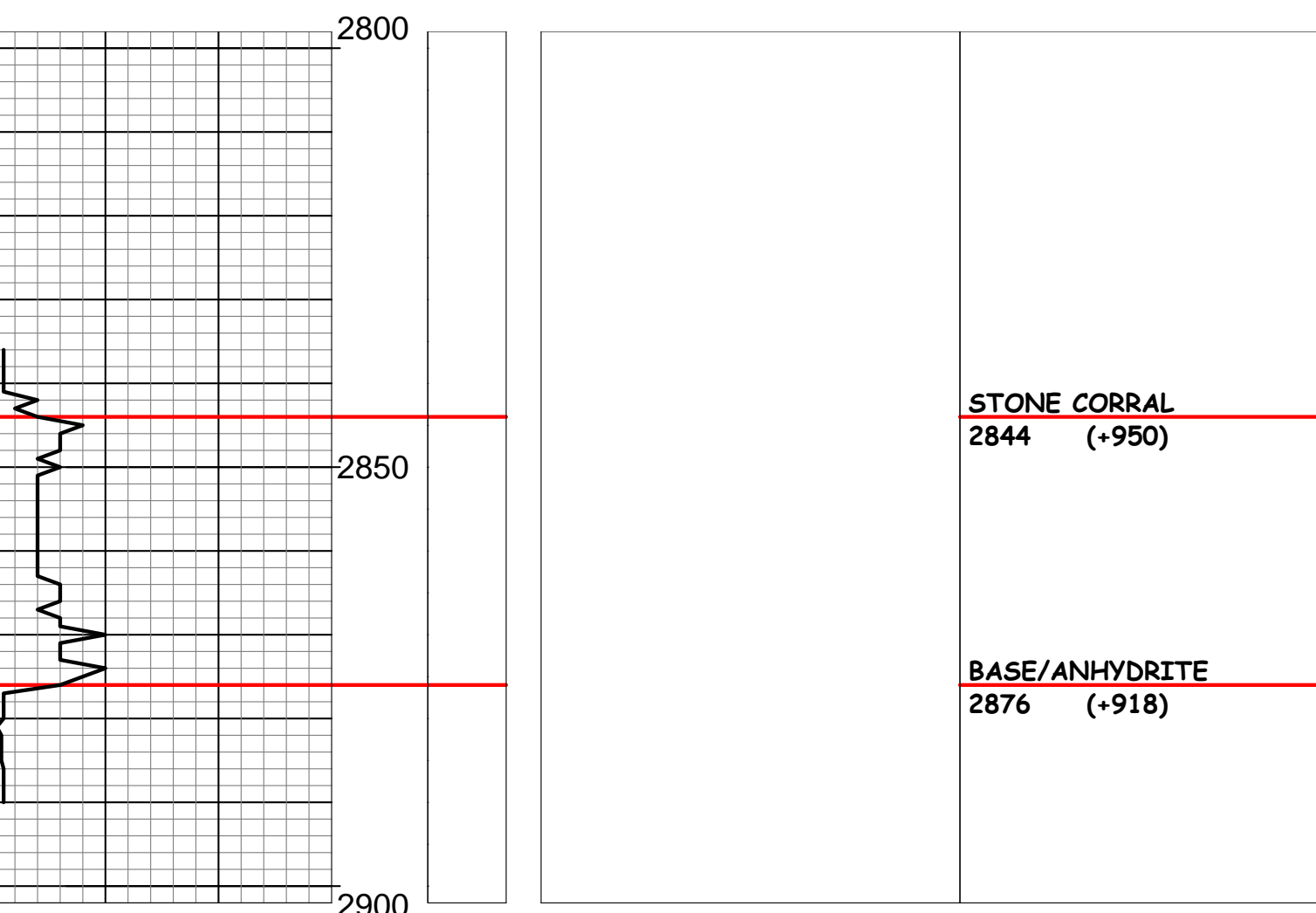
Drilling Fluids: Mud-Co./Service Mud, Inc. (Tony Maestas, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Bradley Walter, tester)

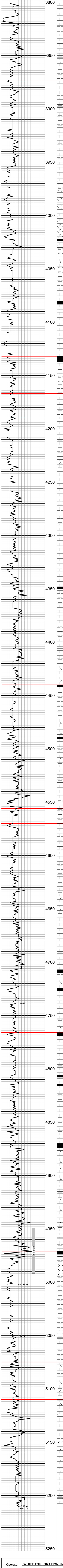
Gas Trailer: No Gas Trailer

Reserve Pit Chlorides: 17,000 PPM

DRILL TIME (MIN/FT)	DEPTH	LITHOLOGY	SHOWS	SAMPLE DESCRIPTIONS	REMARKS
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GY, mesly, tr org rem, some arg.  
 SH: Gy dk gy, fis, some stly.  
 Lt gy tr crm-gy, frly gran, occ amor calc, some arg, gd intgran por, n/s.  
 V.dk gy, fis.  
 V.lt gy-wh, vfxin-microxin, some chky, dns, n/s.  
 Tn-gy, vfxin occ microxin, sli ool, v.dns, n/s.  
 V.dk gy, thk fis, calc, foss (Crin).  
 Tn-brn, fxdn, ool pkstn, wl-cmt, n/s.  
 Rd-brn occ rd-or, some v.lt gn-gy bkly, stly; tr gum.  
 Crm-gy, fxdn, tr org rem, some dol, pr intxn & pp por, n/s.  
 Crm fxdn, sil foss (Fus) occ dol, pr pp por, n/s.  
 V.dk gy-bk, fis, calc pyr, some ool & org rem.  
 Crm-lt gy, vfxin, occ whd, tr org rem, dns, tr frac, n/s.  
 Crm, fxdn, ool, occ sbchky, tr org rem, n.v.p, n/s.  
 Rd-brn occ brn & rd-or, bkly ea stly, some gum, tr dk rd-brn v. arg Ls.  
 Crm-tn, fr-vfxin, sbchky, tr org rem, r.amor calc, n.v.p.  
 Crm-lt gy, fr-vfxin, tr org em, occ sbchky, gen dns.  
 Dk gy & gy-brn, fis, tr carb mat.  
 Crm-gy fxdn, r.org rem, some withd-sbchky, n.v.p.  
 Tn-brn mott w/dk brn inc, fxdn, sil ool, gen dns, sil odor on crush, no shc O, no str.  
 Wh, some wh-gy mott fxdn, tr gran, sbchky in pt, sil foss, occ ool, pr-fr intgran por, gd odor, NFO, no str.  
 Crm, frly gran dol, sli chky, tr amor calc, gd intgran por, gd odor, v.sli shw v.lt brn FO, v.lt sly-arg sil sh.  
 Med gy some carb mat, occ v. arg, gd por, n/s.  
 Wh-crm, vfxin gran-fxin, some lmy, tr spr calc, fr-gd intgran por, scat fr vug por, gd sulf odor, NFO, no str.  
 Crm, tr lt gy, frly gran-suc, occ fxdn, tr rextzd ool, some spr calc, gd intgran & scat vug por, n/s.  
 Dk gy, fis.  
 Crm fxdn, v.dol, sli chky, some wh-lt gy trnsil frs cht, fr pp por, n/s.  
 Crm, fxdn-gran, v.dol, tr wh op cht, some amor calc, gd intgran & vug por, n/s.  
 V.dk gy dk gy-brn some blk, thn fis, occ carb, tr stly.  
 Crm-tn fxdn dol, rextzd, tr sbchky, some arg, tr pyr, n/s.  
 Med gy-lt gy calc, some v. arg, tr pyr.  
 Crm, fxdn-gran, foss, tr ool, cons sec calc, some sbchky, n.v.p, n/s.  
 Gy & rd-brn mott, some tn & gy-gn, arg, tr calc-lmy, intbd tn rd-brn & mar sh.  
 Gy-purp, bkly, v.sily, some calc, tr lmy, intbd rd-or-thk fis sh.  
 Crm tr crm-tn, fxdn-gran, sil ool, occ sbchky, n.v.p.  
 Blk thn fis, carb, bcm dk gy fis, occ calc, tr org rem, intbd dk gy-brn mott fr-vfxin, smwt arg Ls, n.v.p.  
 Wh-crm, fxdn, sbchky-chky, tr org rem, cons spr calc, pr intxn por, n/s.  
 Tn mott w/dk gy & brn inc, fr-vfxin, sil ool, some arg, intbd dk gy sh, n/s.  
 Crm, fxdn, sbchky, tr foss (Fus) some amor calc fr intxn & pp por, n/s.  
 Crm some crm-lt gy, fxdn, chky-sbchky, sil foss, fr pp por, n/s.  
 Crm-lt gy, fxdn tr gran, chky, some dol, tr foss & spr calc, r.pyr, n/s.  
 Blk & v.dk gy, fis-thn fis, some carb.  
 Mott gy-brn fxdn smwt arg, dns.  
 Gy dk gy & gy-gn fis, intbd gy-gn arg sil calc, silst, some lt gy gum sh.  
 Gy gy-brn some rd-brn, stly occ gum, tr brn fr-vfxin dns Ls.  
 Gy dk gy, tr gy-gn, fis.  
 Lt gy fxdn, tr org rem, some spr calc, n.v.p, n/s.  
 Crm-lt gy, fxdn, occ sbchky, tr rextzd ool, n.v.p, n/s.  
 Rd-brn thk fis, ea.  
 Crm, fxdn-gran, ool, tr sbchky, cons spr calc, fr intxn & intgran por, n/s.  
 Wh-crm, fxdn & gran, sbchky, cons spr calc, pr fr intgran por, n/s.  
 Tn fr-vfxin, foss, sil pyr, some spr calc, intbd gy-gn bkly v.sily sh, n.v.p.  
 Rd-brn bkly ea, tr stly.  
 Wh-crm, fxdn, sbchky, tr amor calc, n.v.p.  
 Wh fxdn, sbchky, sil foss (Fus) occ mott w/brn inc, n.v.p.  
 Dk gy fis, some carb mat.  
 Wh fxdn, sbchky-chky, cons amor calc, gd intxn & vug por, n/s.  
 Wh-lt gy, fr-medxin, sbchky, abd amor calc, tr pyr, fr-gd intxn & vug por, n/s.  
 Crm fr-vfxin, sbchky, tr org rem, cons amor calc, n.v.p.  
 Gy-gn & dk gy, fis, stly, some calc.  
 Gy occ tn-gy, fxdn, some sbchky, tr org rem, cons spr calc, pty arg, n/s.  
 Tn-gy, vfxin, some withd, tr spr calc, dns occ arg.  
 Wh occ wh-crm, fxdn, sbchky, r.org rem, tr amor calc, n.v.p.  
 Wh some v.lt gy, fr-vfxin, sbchky, dns, frac, tr spr calc.  
 Crm tr lt gy, fxdn, tr rextzd org rem, r.pyr, cons spr calc, n.v.p.  
 V.lt gy-wh, fxdn, tr med xin, chky-sbchky, some pyr & org rem, abd spr calc, gd intxn & vug por, n/s.  
 Wh-lt gy, fxdn, sbchky, dns, tr spr calc.  
 Blk thn fis, carb, intbd dk choc brn vfxin sil pyr arg frac Ls, n/s.  
 Dk gy & gn-gy, fis, occ vgt, tr carb mat & pyr, some stly.  
 Gy-brn & brn, mott w/dk gy ool & sh inc, fr-vfxin, tr foss (Fus) r.withd, dns, n/s.  
 Gy dk gy & gn-gy, fis-bkly stly, occ calc-lmy, tr org rem.  
 Crm-gy, fxdn sil ool, some org rem, occ sbchky, r.pyr, n.v.p.  
 Crm-gy, fr-vfxin, some ool & org rem, occ mott w/dk gy & brn inc, pt sbchky, n.v.p.  
 Lt gn-gy bkly, stly-sdy, sil pyr.  
 Crm some v.lt gy, fxdn, ool, occ sbchky, cons spr calc, tr arg, n.v.p.  
 Crm-lt gy tr tn, fxdn, ool, occ org rem, tr sbchky, some spr calc, n.v.p.  
 Blk thn fis, carb, bcm dk gy fis stly occ carb mat, intbd brn xin dns Ls.  
 Dk gy & gy-brn intbd w/gy & gn-gy arg silst.  
 Gy dk gy & dk gy-brn, fis, some stly, occ carb mat.  
 Med gy & gn-gy, bkly v.sily, tr pyr.  
 Crm, fxdn, ool, sbchky sil foss, occ dk gy sh inc, some spr calc, n.v.p.  
 Crm-tn, fxdn, ool, foss, some sbchky pyr, occ dk gy & brn sh inc, wh & gy-brn op-trnsil frs cht, n.v.p.  
 Blk, thn fis, carb.  
 Gy some gy-brn, fr-vfxin, dns tr org rem, n/s.  
 Dk gy-brn, calc, occ stly.  
 Crm-tn fxdn foss, sil ool, tr pyr & wh op frs cht, n.v.p.  
 Tn & gy-brn fxdn, foss, occ mott w/dk gy sh, some lt gy & gy-brn op-trmsl cht, dk gy intbd sh, n.v.p.  
 Tn-gy occ mott gy-brn, fxdn foss, some cht, tr sbchky, v.dk gy-bk intbd sh, n/s.  
 Dk gy & gy-brn, bkly, stly sil pyr.  
 Crm fxdn, foss, occ mott w/dk gy sh, cons spr calc, n.v.p.  
 Wh-lt gy, sil calc, occ sdy, tr pyr, some sil arg, n/s.  
 Crm-tn mott w/dk gy ool & sh inc, fxdn-gran, occ sdy, n.v.p.  
 Gy dk gy dk gy-brn, tr blk, fis occ stly, r.gum, some carb mat, wh-v.lt gy sdy sil calc silst.  
 Tn-brn fxdn, tr vfxin, some spr calc, dns, occ arg, n/s.  
 V.dk gy gy-brn tr gn-gy, fis, occ calc, few org rem, some stly.  
 Crm gran sil foss, sbchky, tr amor calc, fr intgran por, n/s.  
 Dk gn-gy & dk gy, fis, some vgt, tr pyr.  
 Crm fr-vfxin, occ sbchky, tr org rem, n.v.p.  
 Crm vfxin gran dol, tr chk, fr intgran por, n/s.  
 Dk gy fis, tr carb mat, intbd med gy bkly v.sily sh.  
 Tn-brn vfxin, sli withd, some arg, dns.  
 Gy bkly stly, sil pyr.  
 Tn fxdn, tr frag, mott w/dk gy ool & foss, r.schky, pr intgran por, n/s.  
 Gy & dk gy fis, some stly, occ calc, r.pyr.  
 Crm-tn fxdn ool, some org rem, occ arg, n.v.p.  
 Tn-brn, fxdn, occ intbd dk gy fis sh, some gy & brn op-trnsil vit cht, n.v.p.  
 Tn-brn some v.dk gy, fr-vfxin, occ arg, intbd dk gy fis sh, n.v.p.  
 Tn & v.dk gy, vfxin-microxin, occ silic, dns, frac, some arg.  
 Brn occ tn-brn, vfxin-crxin, some arg, dns.  
 Brn & v.dk gy, fxdn, sil foss, occ arg, some gy & dk gy-brn trnsil cht, n.v.p.  
 Blk & v.dk gy, tr org rem, some arg, dns.  
 Dk brn fxdn, fr-fxn fis, carb.  
 Tn-brn, fxdn tr frag, ool sil foss, tr sbchky, some blu-gy & brn mott ool cht, n.v.p, n/s.  
 Blk thn fis, carb.  
 Dk gy-v dk brn, fxdn arg, tr org rem, some dk gy fis sh, n.v.p, n/s.  
 Gy-brn dk gy, fxdn, occ arg, intbd dk gy calc sil foss sh.  
 Brn-v.dk gy, vfxin tr org rem, some arg, tn-brn op-trnsil cht, n/s.  
 Crm-tn mott w/dk gy ool & org rem, fxdn, tr frag, arg, n.v.p.  
 Blk fis carb, some dk gy stly pyr sh.  
 Tn vfxin, dns frac, bcm crm-gy fxdn chky tr ool, n.v.p, n/s.  
 V.dk gy & dk gy-brn fis, some calo-lmy, intbd dk gy & brn fxdn Ls, n/s.  
 Tn & mott gy-brn fxdn foss, some arg-shly, intbd dk gy fis sh, n/s.  
 Tn-gy occ mott w/dk gy sh, sil pyr, vfxin, dns.  
 Blk fis carb, bcm dk gy fis sil pyr.  
 Tn & dk gy mott fxdn, some ool & org rem, tr amor calc, intbd blk carb sh, n.v.p.  
 Gy dk gy & blk, fis, occ carb mat, some pyr, tr org rem.  
 Crm-tn frag-gran, ool, sdy, tr sbchky, pr intgran por, n/s.  
 Tn & gy mott fxdn, sil pyr, tr org rem, smwt arg, n.v.p.  
 Dk gy & dk gy-gn fis, sil pyr, tr org rem.  
 V.dk gy-brn blk, fxdn tr vfxin, foss sil arg, intbd w/blk & v.dk gy fis occ carb sh.  
 Blk v.dk gy dk gy-brn, fxdn some org rem, tr pyr, dns, n/s.  
 Blk & v.dk gy fis, some carb.  
 Tn-brn fxdn, sil foss, some withd, bcm lt brn vfxin-microxin frac dns Ls, some intbd dk gy fis sh.  
 Dk gy-brn & v.dk gy fxdn, tr org rem, some arg, wh & v.dk gy op mott foss cht.  
 V.dk gy-bk, fxdn foss (Crin, Brach) arg, r.pyr, intbd v.dk gy & dk gy-brn sh.  
 Brn & mott gy-brn fxdn, tr org rem, r.v.dk gy-brn trnsil cht, intbd dk gy fis sh.  
 Crm-tn fr-medxin, sli chky, foss (Bry) cons amor calc, tr wh op frs cht, n.v.p, n/s.  
 Tn & brn mott w/dk gy foss & sh inc, arg, cons wh gy & tn op-trmsl cht, intbd dk gy-bk sh.  
 Dk gy-brn & v.dk gy, fxdn sil foss, occ arg, wh tn & gy-brn op-trnsil cht, dk gy fis sh.  
 V.dk gy & dk gy-brn fxdn arg, sil pyr, tr org rem, silstbd w/v.dk gy & blk fis occ carb sh.  
 Blk dk gy, fis, some carb, occ thn bd w/tn pyr arg Ls, some med gy gum sh.  
 Wh vfn-vfxin sbang glauc, wl-cmt tr sb-fi, pyr, fr intgran por, n/s.  
 Wh & lt gy, fr-vfxin, ang-sbrnd, sb-fi, pyr occ calc, tr glauc, some brn & blk sh inc, gd intgran por, n/s.  
 Lt gy, fr, sbang-sbrnd, pyr, occ calc, tr glauc, some intbd brn sh, fr intgran por, n/s.  
 Gy-gn & dk gy, fis, thn bd some dk brn & blk occ carb sh.  
 V.dk gy-bk, fis, some carb, tr pyr, intbd dk choc brn fxdn pyr Ls, n/s.  
 Dk gy & blk, tr brn, fis, tr pyr, some carb.  
 V.dk gy & blk, tr brn, fis, tr pyr, some carb.  
 V.dk gy dk brn & blk, fis, some gd-gn & brn vgt pyr sh, tr med ind fross sd, n/s.  
 Gy-gn dk gy & blk, fis, some vgt & pyr, intbd brn fxdn dns Ls.  
 Dk gy & blk, fis, intbd w/dk gy stly sh & gy-gn pyr sh, some brn gran arg Ls, tr foss (Bry).  
 Crm fxdn frag mott w/tn & brn ool, sbchky in pt, occ amor calc, some v. arg-shly, n/s.  
 Tn-brn fxdn-frag, ool, sil foss rextzd, cons spr calc, tr wh & dk gy mott op cht, intbd dk gy fis sh.  
 Crm tn & brn mott fxdn, foss (Bry) cons spr calc, some chky, occ sbchky, n/s.  
 Brn & tn mott fxdn sbchky, foss (Brach) cons spr calc, intbd gy-gn & dk gy fis thn bd sh.  
 Tn & gy-brn vfxin gran dol, tr pyr & chk, pr intgran por, n/s.  
 Tn-dk brn microxin, tr pyr, v.dns, n/s.  
 Brn, v.lnly gran dol, r.pyr, pr-fr intgran por, n/s.  
 Crm-tn frag-gran v.ool, tr org rem, some sdy, occ sbchky, tr lt gn sh inc, n.v.p, n/s.  
 Wh-lt gy vfxin, ang-sbang, sbfi, sil arg, fr intgran por, n/s.  
 Crm some lt gy, fxdn-frag, abd smlt tn ool, occ aren, sbchky, pr por, n/s.  
 Crm-tn fxdn, ool, occ sbchky, tr med sbrnd fros sd, n.v.p.  
 Crm-tn occ tn-gy, fxdn ool, some sbchky, cons sec calc, dns, n/s.  
 Crm-tn fxdn sbchky, abd lt gy blu-gy & wh op-trnsil vit occ spd cht, n/s.  
 Dk olv gn, thk fis, vgt w/v.dk gy sh  
 Dk gy-brn fxdn, dol, arg, sil pyr, mott, n.v.p, n/s.

2:54 PM, 25 April 2014  
**TOPEKA**  
 3874 (-380)  
 Mud-Co mud check @ 4016'  
 Vis: 68, Wt: 9.0, WL: 8.8  
 Chlor: 3,600 ppm, LCM: 5#  
**HEEBNER SHALE**  
 4132 (-338)  
**TORONTO**  
 4167 (-373)  
**LANSING**  
 4189 (-395)  
**STARK SHALE**  
 4440 (-646)  
 Mud-Co mud check @ 4403'  
 Vis: 95, Wt: 9.3, WL: 8.0  
 Chlor: 3,800 ppm, LCM: 4#  
**BASE/KANSAS CITY**  
 4558 (-764)  
**MARMATON**  
 4570 (-776)  
 Mud-Co mud check @ 4701'  
 Vis: 56, Wt: 9.3, WL: 7.2  
 Chlor: 4,000 ppm, LCM: 4#  
**CHEROKEE**  
 4766 (-972)  
 Mud-Co mud check @ 4985'  
 Vis: 60, Wt: 9.3, WL: 7.2  
 Chlor: 3,400 ppm, LCM: 5#  
**MORROW SHALE**  
 4971 (-1177)  
 DST # 1 4949 - 4992  
 w/stredle packers  
 "Adjusted to Rotary Depth"  
 30"-60"-90"  
 IF: Weak 1/2 inch blow, decreasing  
 FF: No Blow  
 RECOVERY:  
 30 Ft. Drilling Mud, no shows  
 IHP: 2641 psi FHP: 2392 psi  
 IFP: 47-52 psi ISIP: 820 psi  
 FFP: 95-65 psi FSIP: 807 psi  
 BHT: 143 deg. F.  
**LOWER MORROW LIME**  
 5075 (-1281)  
**MISSISSIPPIAN**  
 5110 (-1316)  
 Mud-Co mud check @ 5210'  
 Vis: 60, Wt: 9.3, WL: 7.2  
 Chlor: 3,200 ppm, LCM: 4#  
**TOTAL DEPTH**  
 5210 (-1416)  
 12:38 AM, 30 April 2014

Operator: WHITE EXPLORATION, INC.  
 Lease: GUNZELMAN # 1  
 Location: 670 FNL & 1000 FWL SEC. 20 TWP. 13S RGE. 42W  
 County: WALLACE State: KANSAS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

White Exploration, Inc  
1635 N Waterfront Pkw y  
Ste 100  
Wichita, Ks  
ATTN: Paul Gunzleman

**20 13s 42w Wallace Ks**

**Gunzleman #1**

Job Ticket: 57641

**DST#: 1**

Test Start: 2014.04.30 @ 13:55:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:00

Time Test Ended: 22:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

**Interval: 4959.00 ft (KB) To 5002.00 ft (KB) (TVD)**

Reference Elevations: 3794.00 ft (KB)

Total Depth: 5210.00 ft (KB) (TVD)

3783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: 65.11 psig @ 4960.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.30

End Date:

2014.04.30

Last Calib.:

2014.04.30

Start Time: 13:55:05

End Time:

22:50:00

Time On Btm:

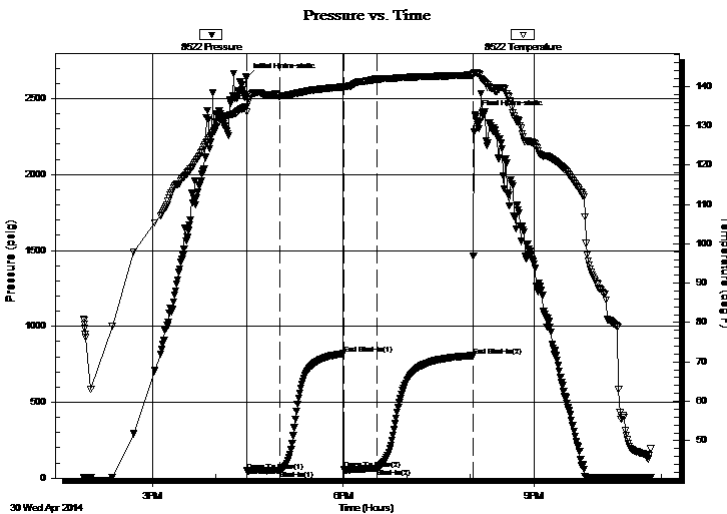
2014.04.30 @ 16:28:45

Time Off Btm:

2014.04.30 @ 20:04:15

TEST COMMENT: IF: 1/2" receded to a Surface blow .  
IS: No return.  
FF: No blow .  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.33	134.92	Initial Hydro-static
1	47.33	133.42	Open To Flow (1)
32	52.14	137.56	Shut-In(1)
92	820.23	139.89	End Shut-In(1)
92	55.24	139.82	Open To Flow (2)
123	65.11	141.84	Shut-In(2)
214	807.16	142.91	End Shut-In(2)
216	2391.89	143.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m	0.15

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

White Exploration, Inc  
1635 N Waterfront Pkwy  
Ste 100  
Wichita, Ks  
ATTN: Paul Gunzleman

**20 13s 42w Wallace Ks**  
**Gunzleman #1**  
Job Ticket: 57641      **DST#: 1**  
Test Start: 2014.04.30 @ 13:55:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

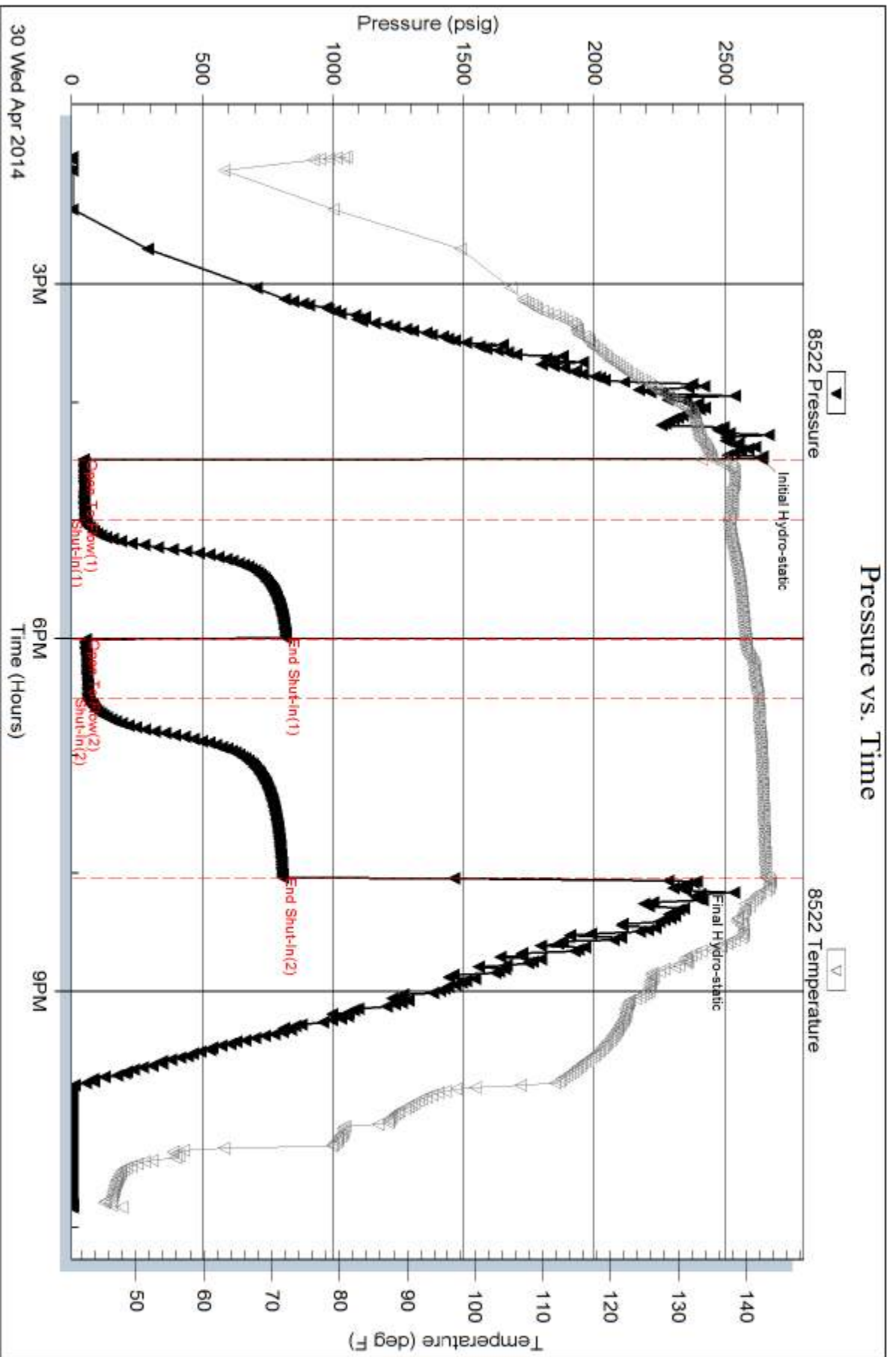
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



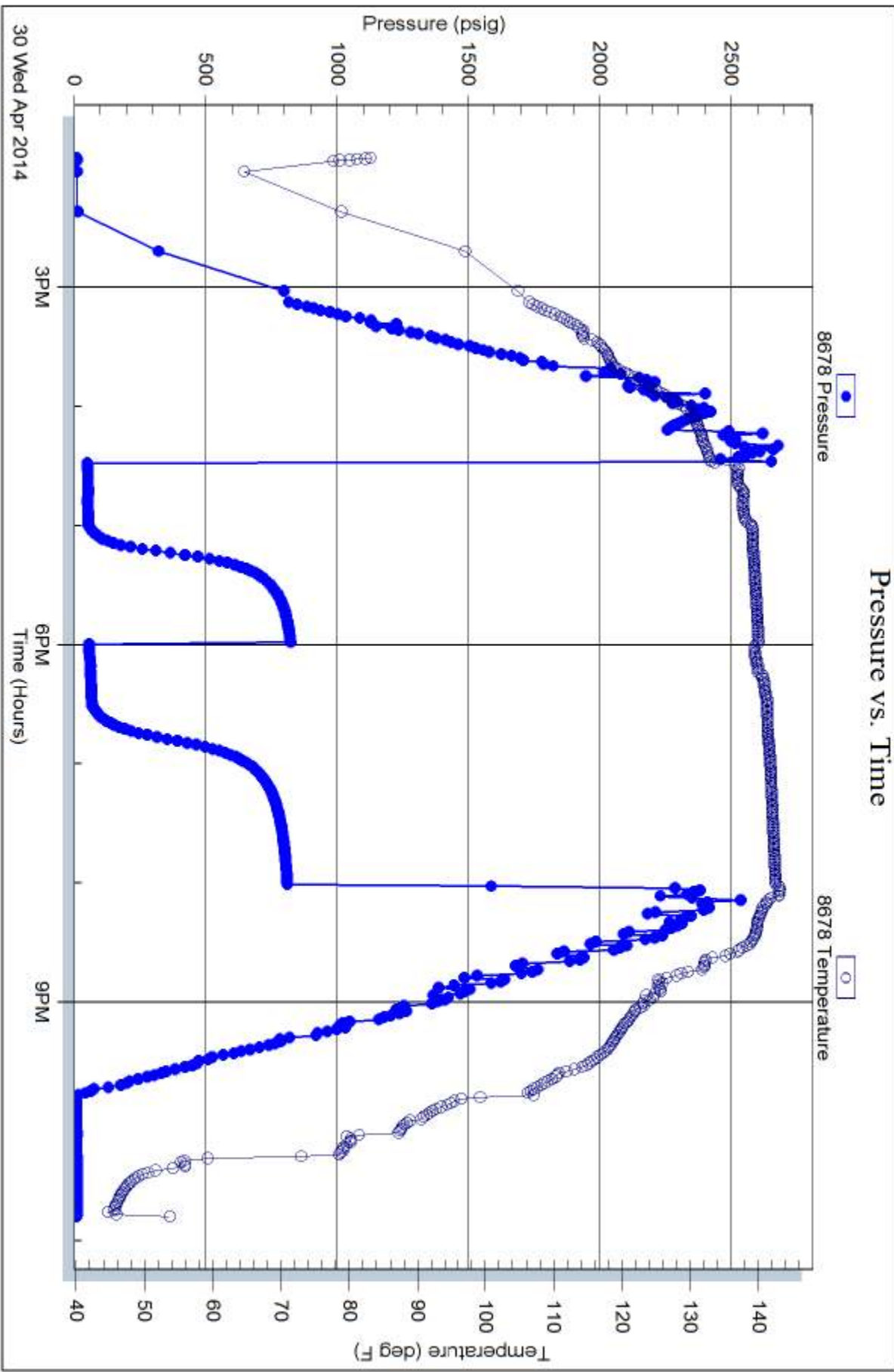


Serial #: 8678

Below (Stratellite) Exploration, Inc

Gunzleman #1

DST Test Number: 1



30 Wed Apr 2014

3PM

6PM

9PM

Time (Hours)

Triobite Testing, Inc

Ref. No: 57641

Printed: 2014.05.01 @ 07:57:46