



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1316486
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
-----------------------------------	-----------------	---

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: _____

1316486

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

GLOBAL CEMENTING, L.L.C.

2655

MIT TO 1958 E. Highway 40
Russell, KS 67665

SERVICE POINT: Russell

DATE 6-20-16 SEC. 3 TWP. 15 S RANGE 19 W CALLED OUT _____ ON LOCATION _____ JOB START 6-21-2016 JOB FINISH 1:00 AM
LEASE Schmeider WELL # #1 LOCATION ANTONIA 1W 1/4 STAFF COUNTY ELLIS STATE KANSAS
OLD OR (NEW) (CIRCLE ONE)

CONTRACTOR Shield's DRIG Rig #1 George OWNER _____

TYPE OF JOB CEMENT SURFACE

HOLE SIZE 12 1/4 T.D. 225

CASING SIZE 8 5/8 NEW DEPTH 225

TUBING SIZE 5 1/2 DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 250* MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 1.5'

PERFS _____

DISPLACEMENT 13 1/4 /BBL

EQUIPMENT

PUMP TRUCK CEMENTER Glenn G.

P-2 HELPER Cody H.

BULK TRUCK _____

B-5 DRIVER Jason M.

BULK TRUCK _____

_____ DRIVER _____

CEMENT AMOUNT ORDERED 150 sx Com.

32 CC

22 Gal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Set 8 5/8 @ 225'

Received Circulation

Cement w/ 150 sx Com 392

Displace @ TOTAL OF 13 1/4 BBL / 100

Shut IN @ 250 PSI.

Cement Did Circulate

TO SURFACE

THANKS

CHARGE TO: HABIT Petroleum LLC

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PRINTED NAME George Begler

SIGNATURE George Begler

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Global Cementing, L.L.C.,
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.

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **2**

Daily Drilling Mud Report

Date: **06/21/16** Depth: **225**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 El: 2069 GL est.		County Ellis	State Kansas	
Twp 15S		Range 19W		

Operation Present Activity WOC		Casing 8 5/8 in. at 222		Mud Volume (BBL) Hole 20 Pits 400		Circulation Data Liner Size 6 Stroke 14		Opposite Drill Pipe 174	Pump Pressure 600
Bit Size (in.) 7 7/8	No 1	Intermediate in. at		Total Circulating Vol. 420		Est. Hole/DS capacities 9 1.1463		Opposite Drill Collars 316	Pump Make Bethlehem
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at		Volume in Storage		BBV/ Strk 0.124	Strk / Min. 57	Bottoms Up (Min.) 3	Pump Model 225
Drill Collar size 6 1/4	233	Drilling mud type Native/Premix		BBL/Min. 7.1		GAL/Min. 296		System Total (Min) 60	

Flowline Temperature	Mud Properties	Daily Mud Cost 809.36	Cumulative Mud Cost 809.36
----------------------	----------------	---------------------------------	--------------------------------------

Time Sample Taken	7:45 AM
Depth (Ft.)	225
Weight (lb/gal.)	
Mud Gradient (psi/ft.)	
Funnel Viscosity (Sec/qt. API)	
Plastic Viscosity cp	
Yield Point (lb/100 sq.ft.)	
Gel Strength 10 sec/10 min.	
pH	
Filtrate API (ml/30 min.)	
Cake Thickness 32nd	
Alkalinity, Mud (Pm)	Makeup
Alkalinity, Filtrate (Pf/Mf)	Water
Chloride Content, ppm	820
Calcium, ppm	240
Sand Content (% by Vol)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	
LCM, lbs/bbl.	
Reynold's #DP	#DIV/0!
Reynold's # DC	#DIV/0!
ECD lb/gal	#DIV/0!

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	280		245	35	598.85
Lime	6		5	1	10.23
Soda Ash	28		28		
Caustic Soda	19		19		
Lignite	15		15		
C/S Hulls	150		138	12	200.28
Drill Pak	6		6		
Desco	2		2		
Poly Plus	2		2		
s.bicarb					
Xcide					
Sapp					
Barite					
Multi Seal					

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.) 9.0-9.5	Viscosity As needed	Filtrate No cont	LCM As needed.

- Suggest to mud up:**
- Run plenty of fresh water and jet as needed.
 - Flush hole as needed with the following:
40 bbls. Fresh water
10-15 sx. Gel
1/2 sx. Lime (Add just before adding to system)
 - If hole pulls tight, add 2-3 gallons of Poly Plus down the pipe on connections.
 - If loss circulation does occur, mix and add the following:
80 bbls. Fresh water
20 sx. Gel
18 sx. c/s hulls
1/2 sx. Lime (Add just before adding to system)
 - Displace @ 2600' (or per Geo's orders)
 - Fill frac tank with the following:
80 bbls. Fresh water
23 sx. Gel
3 sx. Soda ash
1 sx. Caustic soda
1 sx. Lignite
1/3 sx. Pac
3 sx. c/s hulls
 - Always Keep Hole Full!
 - Always Circulate Hole Clean Before Trips.
 - Always Keep Mud Skids Covered.

Thank You

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **3**

Daily Drilling Mud Report

Date: **06/22/16** Depth: **1690**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 EI: 2069 GL est.		County Ellis	State Kansas	
Twp 15S		Range 19W		

Operation Drilling		Casing 8 5/8 in. at 222		Mud Volume (BBL) Hole 140 Pits 400		Liner Size 6 Stroke 14		Circulation Data Opposite Drill Pipe 195		Pump Pressure 600
Bit Size (in.) 7 7/8	No 1	Intermediate in. at		Total Circulating Vol. 540		Est. Hole/DC capacities 1.1463		Opposite Drill Collars 356		Pump Make Bethlehem
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at		Volume in Storage		BBV/ Strk 0.139	Strk / Min. 57	Bottoms Up (Min.) 18		Pump Model 225
Drill Collar size 6 1/4	233	Drilling mud type Native/Premix		BBL/Min. 7.9		GAL/Min. 333		System Total (Min) 68		Critical GPM DC/DP #DIV/0!

Sample from Flowline ___ or Pit ___	Daily Mud Cost 722.69	Cumulative Mud Cost 1,532.05
Flowline Temperature	Mud Properties	

Time Sample Taken	7:45 AM
Depth (Ft.)	1,690
Weight (lb/gal.)	8.9
Mud Gradient (psi/ft.)	0.463
Funnel Viscosity (Sec/qt. API)	28
Plastic Viscosity cp	
Yield Point (lb/100 sq.ft.)	
Gel Strength 10 sec/10 min.	
pH	7.0
Filtrate API (ml/30 min.)	NC
Cake Thickness 32nd	
Alkalinity, Mud (Pm)	
Alkalinity, Filtrate (Pf/Mf)	
Chloride Content, ppm	11,000
Calcium, ppm	Hvy
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	3.6
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	96.4
LCM, lbs/bbl.	Nil
Reynold's #DP	#DIV/0!
Reynold's # DC	#DIV/0!
ECD lb/gal	#DIV/0!

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.) 9.0-9.5	Viscosity As needed	Filtrate No cont	LCM As needed.

- Suggest to mud up:**
- Run plenty of fresh water and jet as needed.
 - Flush hole as needed with the following:
40 bbls. Fresh water
10-15 sx. Gel
1/2 sx. Lime (Add just before adding to system)
 - If hole pulls tight, add 2-3 gallons of Poly Plus down the pipe on connections.
 - If loss circulation does occur, mix and add the following:
80 bbls. Fresh water
20 sx. Gel
18 sx. c/s hulls
1/2 sx. Lime (Add just before adding to system)
 - Displace @ 2600' (or per Geo's orders)
 - Fill frac tank with the following:
80 bbls. Fresh water
23 sx. Gel
3 sx. Soda ash
1 sx. Caustic soda
1 sx. Lignite
1/3 sx. Pac
3 sx. c/s hulls
 - Always Keep Hole Full!
 - Always Circulate Hole Clean Before Trips.
 - Always Keep Mud Skids Covered.

Thank You

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	245		235	10	171.10
Lime	5		5		
Soda Ash	28		25	3	72.12
Caustic Soda	19		18	1	62.52
Lignite	15		14	1	26.60
C/S Hulls	138		133	5	83.45
Drill Pak	6		5	1	306.90
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **4**

Daily Drilling Mud Report

Date: **06/23/16** Depth: **2746**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3 Twp 15S Range 19W
Well Name & No. Schmeidler #1 EI: 2069 GL est.		County Ellis		State Kansas

Operation Drilling		Casing 8 5/8 in. at 222		Mud Volume (BBL) Hole 228 Pits 300		Liner Size 6 14 Stroke 1.1463		Circulation Data Opposite Drill Pipe 189 Pump Pressure 600	
Bit Size (in.) 7 7/8	No 1	Intermediate in. at		Total Circulating Vol. 528		Est. Hole/DS capacities 1.1463		Opposite Drill Collars 344 Pump Make Bethlehem	
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at		Volume in Storage Volume		BBL/ Strk 0.137 Strk / Min. 56		Bottoms Up (Min.) 28 Pump Model 225	
Drill Collar size 6 1/4	233	Drilling mud type Chemical		BBL /Min. 7.7		GAL/Min. 322		System Total (Min) 69 Critical GPM DC/DP 442 708	

Sample from Flowline ___ or Pit ___	Daily Mud Cost 3,299.82	Cumulative Mud Cost 4,831.87
Flowline Temperature ___	Mud Properties	

Time Sample Taken	7:30 AM
Depth (Ft.)	2,746
Weight (lb/gal.)	8.8
Mud Gradient (psi/ft.)	0.458
Funnel Viscosity (Sec/qt. API)	60+
Plastic Viscosity cp	15
Yield Point (lb/100 sq.ft.)	50
Gel Strength 10 sec/10 min.	20/47
pH	11.5
Filtrate API (ml/30 min.)	7.2
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	0.0
Alkalinity, Filtrate (Pf/Mf)	1.3/1.5
Chloride Content, ppm	5,000
Calcium, ppm	Tr
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	3.3
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	96.7
LCM, lbs/bbl.	2
Reynold's #DP	525
Reynold's # DC	1,168
ECD lb/gal	9.90

MUD PROPERTIES SPECIFICATIONS			
Mud Wt.(lbs/gal.)	Viscosity	Filtrate	LCM
9.5-9.8	50-55	8-10cc	1-2 ppb.

Suggest :

1. Run water **ONLY** when the mud weight gets to 9.5 or better.
2. If more vis is required, mix gel in pit mud. **No Chemicals!**
3. If hole pulls tight, add Poly Plus down the pipe on connection.
4. For volume & or when mud wt. climbs above 9.7, mix this:
 100 bbls. Fresh water
 25 sx. Gel
 3 sx. Soda ash
 1 sx. Caustic Soda
 1 sx. Lignite
 1/2 sx. Pac
 3 sx. c/s hulls

**Jet & gun a pit before adding to system.
Add over 1 1/2 hour period.**

5. Always Keep Hole Full!

6. Always Circulate Hole Clean Before Trips.

7. Always Keep Mud Skids Covered.

8. Prior to trips, circulate hole until sample box is clean!

THANK YOU

**Do Not Shake Pipe on Trips!
Use mud sack when tripping out of the hole.
Keep Hole Full At All Times!**

Displaced @ 2589-2622

Reserve pit chlorides: 66000 ppm. Reserve pit volume est: 600 bbls.

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	235		115	120	2,053.20
Lime	5		5		
Soda Ash	25		10	15	360.60
Caustic Soda	18		13	5	312.60
Lignite	14		9	5	133.00
C/S Hulls	133		125	8	133.52
Drill Pak	5		4	1	306.90
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Mud-Co / Service Mud Representative
Gary Schmidtberger

Cell: 785-259-2757

Home Address
Hays, Ks

Warehouse Location
Hays, Ks

Telephone Number
785-625-4931

Telephone Number
785-621-4232

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **5**

Daily Drilling Mud Report

Date: **06/24/16** Depth: **3183**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 EI: 2069 GL est.		County Ellis	State Kansas	
Operation Drilling		Casing 8 5/8 in. at 222	Mud Volume (BBL) Hole 264 Pits 300	Circulation Data Opposite Drill Pipe 189

Bit Size (in.) 7 7/8	No 2	Intermediate in. at	Total Circulating Vol. 564	Liner Size 6	Stroke 14	Est. Hole/DS capacities 1.1463	Opposite Drill Collars 344	Pump Pressure 700
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at	Volume in Storage 70 bbls. Pit mud	BBL/ Strk 0.137	Strk / Min. 56	Bottoms Up (Min.) 34	Pump Make Bethlehem	Pump Model 225
Drill Collar size 6 1/4	233	Drilling mud type Chemical		BBL/Min. 7.7	GAL/Min. 322	System Total (Min.) 74	Critical GPM DC/DP 371	531

Sample from Flowline ___ or Pit ___	Daily Mud Cost 0.00	Cumulative Mud Cost 4,831.87
-------------------------------------	-------------------------------	--

Mud Properties	
Time Sample Taken	7:30 AM
Depth (Ft.)	3,183
Weight (lb/gal.)	9.2
Mud Gradient (psi/ft.)	0.478
Funnel Viscosity (Sec/qt. API)	60+
Plastic Viscosity cp	20
Yield Point (lb/100 sq.ft.)	29
Gel Strength 10 sec/10 min.	16/29
pH	10.5
Filtrate API (ml/30 min.)	7.4
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	0.0
Alkalinity, Filtrate (Pf/Mf)	1.2/1.5
Chloride Content, ppm	6,000
Calcium, ppm	20
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	6.1
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	93.9
LCM, lbs/bbl.	2
Reynold's #DP	944
Reynold's # DC	1,621
ECD lb/gal	9.86

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.) 9.5-9.8	Viscosity 50-55	Filtrate 8-10cc	LCM 1-2 ppb.

Suggest :

- Run stream of water to control wt. & vis.
- If more vis is required, mix gel in pit mud. **No Chemicals!**
- If hole pulls tight, add Poly Plus down the pipe on connection.
- For volume & or when mud wt. climbs above 9.7, mix this:
 100 bbls. Fresh water
 25 sx. Gel
 3 sx. Soda ash
 1 sx. Caustic Soda
 1 sx. Lignite
 1/2 sx. Pac
 3 sx. c/s hulls

**Jet & gun a pit before adding to system.
Add over 1 1/2 hour period.**

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	115		115		
Lime	5		5		
Soda Ash	10		10		
Caustic Soda	13		13		
Lignite	9		9		
C/S Hulls	125		125		
Drill Pak	4		4		
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

- Always Keep Hole Full!
- Always Circulate Hole Clean Before Trips.
- Always Keep Mud Skids Covered.
- Prior to trips, circulate hole until sample box is clean!

THANK YOU

**Do Not Shake Pipe on Trips!
Use mud sack when tripping out of the hole.
Keep Hole Full At All Times!**

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **6**

Daily Drilling Mud Report

Date: **06/25/16** Depth: **3552**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 El: 2069 GL est.		County Ellis	State Kansas	
Twp 15S		Range 19W		

Operation Drilling		Casing 8 5/8 in. at 222		Mud Volume (BBL) Hole 295 Pits 300		Circulation Data Liner Size 6 Stroke 14		Opposite Drill Pipe 189	Pump Pressure 700
Bit Size (in.) 7 7/8	No 2	Intermediate in. at		Total Circulating Vol. 595		Est.Hole/DS capacities 1.1463		Opposite Drill Collars 344	Pump Make Bethlehem
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at		Volume in Storage 70 bbls. Pit mud		BB/ Strk 0.137	Strk / Min. 56	Bottoms Up (Min.) 38	Pump Model 225
Drill Collar size 6 1/4	233	Drilling mud type Chemical		BBL./Min. 7.7	GAL/Min. 322	System Total (Min) 78		Critical GPM DC/DP 381 552	

Sample from Flowline ___ or Pit ___	Daily Mud Cost 161.24	Cumulative Mud Cost 4,993.11
Flowline Temperature _____	Mud Properties	

Time Sample Taken	7:40 AM
Depth (Ft.)	3,552
Weight (lb/gal.)	9.7
Mud Gradient (psi/ft.)	0.504
Funnel Viscosity (Sec/qt. API)	65
Plastic Viscosity cp	21
Yield Point (lb/100 sq.ft.)	33
Gel Strength 10 sec/10 min.	11/20
pH	10.5
Filtrate API (ml/30 min.)	7.4
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	0.0
Alkalinity, Filtrate (Pf/Mf)	1.2/1.4
Chloride Content, ppm	6,000
Calcium, ppm	20
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	9.5
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	90.5
LCM, lbs/bbl.	2
Reynold's #DP	880
Reynold's # DC	1,551
ECD lb/gal	10.43

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.) 9.5-9.8	Viscosity 50-55	Filtrate 8-10cc	LCM 1-2 ppb.

Suggest :

1. Run stream of water to control wt. & vis.
2. If more vis is required, mix gel in pit mud. No Chemicals!
3. If hole pulls tight, add Poly Plus down the pipe on connection.
4. For volume & or when mud wt. climbs above 9.7, mix this:
 100 bbls. Fresh water
 25 sx. Gel
 3 sx. Soda ash
 1 sx. Caustic Soda
 1 sx. Lignite
 1/2 sx. Pac
 3 sx. c/s hulls

Jet & gun a pit before adding to system.
Add over 1 1/2 hour period.

5. Always Keep Hole Full!
6. Always Circulate Hole Clean Before Trips.
7. Always Keep Mud Skids Covered.
8. Prior to trips, circulate hole until sample box is clean!

THANK YOU

Do Not Shake Pipe on Trips!
Use mud sack when tripping out of the hole.
Keep Hole Full At All Times!

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	115		115		
Lime	5		5		
Soda Ash	10		7	3	72.12
Caustic Soda	13		12	1	62.52
Lignite	9		8	1	26.60
C/S Hulls	125		125		
Drill Pak	4		4		
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **7**

Daily Drilling Mud Report

Date: **06/26/16** Depth: **3695**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 EI: 2069 GL est.		County Ellis		State Kansas
Operation Drilling		Casing 8 5/8 in. at 222		Mud Volume (BBL) 307

Bit Size (in.) 7 7/8	No. 2	Intermediate in. at	Total Circulating Vol. 607	Liner Size 6	Stroke 14	Opposite Drill Pipe 189	Pump Pressure 700
Drill pipe sz 4 1/2	Type XH	Production / Liner in. at	Volume in Storage Volume	Est. Hole/DS capacities 1.1463	Opposite Drill Collars 344	Pump Make Bethlehem	Pump Model 225
Drill Collar size 6 1/4	233	Drilling mud type Chemical		BBL/Strk 0.137	Strk / Min. 56	Bottoms Up (Min.) 40	Pump Model 225
				BBL/Min. 7.7	GAL/Min. 322	System Total (Min.) 79	Critical GPM DC/DP 377 564

Sample from Flowline ___ or Pit ___	Daily Mud Cost 273.34	Cumulative Mud Cost 5,266.45
-------------------------------------	---------------------------------	--

Mud Properties	
Time Sample Taken	7:00 AM
Depth (Ft.)	3,695
Weight (lb/gal.)	9.6
Mud Gradient (psi/ft.)	0.499
Funnel Viscosity (Sec/qt. API)	62
Plastic Viscosity cp	18
Yield Point (lb/100 sq.ft.)	35
Gel Strength 10 sec/10 min.	14/20
pH	10.5
Filtrate API (ml/30 min.)	7.6
Cake Thickness 32nd	1
Alkalinity, Mud (Pm)	0.0
Alkalinity, Filtrate (Pf/Mf)	1.3/1.4
Chloride Content, ppm	5,400
Calcium, ppm	Tr
Sand Content (% by Vol)	Tr
Solids Content (% by Vol.)	9.0
Oil Content (% by Vol.)	0.0
Water Content (% by Vol.)	91.0
LCM, lbs/bbl.	1
Reynold's #DP	827
Reynold's # DC	1,563
ECD lb/gal	10.35

MUD PROPERTIES SPECIFICATIONS			
Mud Wt. (lbs/gal.)	Viscosity	Filtrate	LCM
9.5-9.8	50-55	8-10cc	1-2 ppb.

Suggest :

1. Run stream of water to control wt. & vis.
2. If more vis is required, mix gel in pit mud. No Chemicals!
3. If hole pulls tight, add Poly Plus down the pipe on connection.
4. For volume & or when mud wt. climbs above 9.7, mix this:

100 bbls. Fresh water
25 sx. Gel
3 sx. Soda ash
1 sx. Caustic Soda
1 sx. Lignite
1/2 sx. Pac
3 sx. c/s hulls

Jet & gun a pit before adding to system.
Add over 1 1/2 hour period.

5. Always Keep Hole Full!
6. Always Circulate Hole Clean Before Trips.
7. Always Keep Mud Skids Covered.
8. Prior to trips, circulate hole until sample box is clean!

THANK YOU

Do Not Shake Pipe on Trips!
Use mud sack when tripping out of the hole.
Keep Hole Full At All Times!

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	115		100	15	256.65
Lime	5		5		
Soda Ash	7		7		
Caustic Soda	12		12		
Lignite	8		8		
C/S Hulls	125		124	1	16.69
Drill Pak	4		4		
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **8**

Daily Drilling Mud Report

Date: **06/27/16** Depth: **3726**

Operator Habit Petroleum, LLC.		Contractor Shields Drilling Company, Inc.		Rig No. 1
Address Rig		Address Rig		Spud Date 06/20/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein		Report for Mr. George Begler		Section 3
Well Name & No. Schmeidler #1 EI: 2069 GL est.		County Ellis	State Kansas	
Twp 15S		Range 19W		

Operation Plugged	Casing 8 5/8 in. at 222	Mud Volume (BBL) Hole 309 Pits 300	Circulation Data	
Present Activity Plugged		Liner Size 6 Stroke 14	Opposite Drill Pipe 189	Pump Pressure 700
Bit Size (in.) 7 7/8	No 2	Total Circulating Vol. 609	Est. Hole/DS capacities 1.1463	Opposite Drill Collars 344
Drill pipe sz 4 1/2	Type XH	Volume in Storage Volume	BBL/Strk 0.137	Strk / Min. 56
Drill Collar size 6 1/4	Drilling mud type Chemical		BBL/Min. 7.7	GAL/Min. 322
			System Total (Min) 79	Critical GPM DC/DP #DIV/0! #DIV/0!

Sample from Flowline ___ or Pit ___	Daily Mud Cost 0.00	Cumulative Mud Cost 5,266.45
Flowline Temperature _____	Mud Properties	

Time Sample Taken 7:15 AM	Depth (Ft.) 3,726	RTD	MUD PROPERTIES SPECIFICATIONS		
			Mud Wt. (lbs/gal.) 9.5-9.8	Viscosity 50-55	Filtrate 8-10cc
					LCM 1-2 ppb.

Weight (lb/gal.)	
Mud Gradient (psi/ft.)	0.000
Funnel Viscosity (Sec/qt. API)	
Plastic Viscosity cp	
Yield Point (lb/100 sq.ft.)	
Gel Strength 10 sec/10 min.	
pH	
Filtrate API (ml/30 min.)	
Cake Thickness 32nd	
Alkalinity, Mud (Pm)	
Alkalinity, Filtrate (Pf/Mf)	
Chloride Content, ppm	
Calcium, ppm	
Sand Content (% by Vol)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	100.0
LCM, lbs/bbl.	
Reynold's #DP	#DIV/0!
Reynold's # DC	#DIV/0!
ECD lb/gal	#DIV/0!

FINAL REPORT

2- DST'S
Logs- OK
Loggers TD: 3725
D & A
Plugged Hole

THANK YOU

2 skids on location
#1 skid 30 Gel
#2 skid The remainder of the materials

DRILLING MUD INVENTORY					
Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	100		100		
Lime	5		5		
Soda Ash	7		7		
Caustic Soda	12		12		
Lignite	8		8		
C/S Hulls	124		124		
Drill Pak	4		4		
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Reserve pit chlorides: 66000 ppm. Reserve pit volume est: 600 bbls.

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Ks	Telephone Number 785-625-4931
Cell: 785-259-2757	Warehouse Location Hays, Ks	Telephone Number 785-621-4232

Mud-Co / Service Mud Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **1**

Daily Drilling Mud Report

Date: **06/07/16** Depth: **0**

Operator Habit Petroleum, LLC.	Contractor Shields Drilling Company, Inc.	Rig No. 1
Address Rig	Address Rig	Spud Date 06/13/16
Report for Mr. Irvin E. Haselhorst/Duane Stecklein	Report for Mr. George Begler	Section 3
Well Name & No. Schmeidler #1 EI: 2069 GL est.	County Ellis	State Kansas
Operation RURT	Casing 8 5/8 in. at 0	Mud Volume (BBL) 0

Present Activity RURT	Bit Size (in.) 12 1/4	No 1	Drill pipe sz 4 1/2	Type XH	Drill Collar size 6 1/4	Drilling mud type 233	Mud Volume (BBL) 0	Liner Size 6	Stroke 14	Opposite Drill Pipe 66	Pump Pressure 650
							Total Circulating Vol. 300	Est. Hole/DC capacities 2.342		Opposite Drill Collars	Pump Make Bethlehem
							Volume in Storage	BBI/ Strk 0.139	Strk / Min. 57	Bottoms Up (Min.)	Pump Model 225
								BBL./Min. 7.7	GAL/Min. 348	System Total (Min) 48	

Sample from Flowline ___ or Pit ___	Daily Mud Cost 0.00	Cumulative Mud Cost 0.00
-------------------------------------	-------------------------------	------------------------------------

Time Sample Taken	MUD PROPERTIES SPECIFICATIONS			
	Mud Wt. (lbs/gal.) 9.4-10.0	Viscosity 36-40	Filtrate No Cont	LCM 2-3 ppg.

Depth (Ft.)	0
Weight (lb/gal.)	
Mud Gradient (psi/ft.)	
Funnel Viscosity (Sec/qt. API)	
Plastic Viscosity cp	
Yield Point (lb/100 sq.ft.)	
Gel Strength 10 sec/10 min.	
pH	
Filtrate API (ml/30 min.)	
Cake Thickness 32nd	
Alkalinity, Mud (Pm)	
Alkalinity, Filtrate (Pf/Mf)	
Chloride Content, ppm	
Calcium, ppm	
Sand Content (% by Vol)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	
LCM, lbs/bbl.	
Reynold's #DP	#DIV/0!
Reynold's # DC	#DIV/0!
ECD lb/gal	#DIV/0!

Suggest for surface hole:

- Spud with 36-40 vis of gel and lime slurry.
- Have weight of 9.4 to 10.0 ppg. @ surface TD.
- Mix 6 sx. Hulls and add more as needed for LCM of 2-3 ppg.

Suggest to mud up:

- Run plenty of fresh water and jet as needed.
- Flush hole as needed with the following:
40 bbls. Fresh water
10-15 sx. Gel
1/2 sx. Lime (Add just before adding to system)
- If hole pulls tight, add 2-3 gallons of Poly Plus down the pipe on connections.
- If loss circulation does occur, mix and add the following:
80 bbls. Fresh water
20 sx. Gel
18 sx. c/s hulls
1/2 sx. Lime (Add just before adding to system)
- Displace @ 2600' (or per Geo's orders)
- Fill frac tank with the following:
80 bbls. Fresh water
25 sx. Gel
3 sx. Soda ash
1 sx. Caustic soda
1 sx. Lignite
1/3 sx. Pac
4 sx. c/s hulls

- Always Keep Hole Full!
- Always Circulate Hole Clean Before Trips.
- Always Keep Mud Skids Covered.

Thank You

DRILLING MUD INVENTORY					
Products:	Delivery	Transfer	On Hand	Used	Cost
Premium Gel	280		280		
Lime	6		6		
Soda Ash	28		28		
Caustic Soda	19		19		
Lignite	15		15		
C/S Hulls	150		150		
Drill Pak	6		6		
Desco	2		2		
Poly Plus	2		2		
Florigel					
Xcide					
Sapp					
Barite					
Multi Seal					

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Kansas	Telephone Number 785-625-4931
Cell# 785-259-2757	Warehouse Location Hays, Kansas	Telephone Number 785-621-4232



DRILL STEM TEST REPORT

Prepared For: **Habit Petroleum, LLC**

PO Box 243
Hays, KS 67601

ATTN: Duane Stecklein

Schmeidler #1

3-15S-19W Ellis,KS

Start Date: 2016.06.25 @ 13:26:52

End Date: 2016.06.25 @ 19:15:52

Job Ticket #: 58093 DST #: 1

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

Printed: 2016.06.27 @ 11:58:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58093

DST#: 1

ATTN: Duane Stecklein

Test Start: 2016.06.25 @ 13:26:52

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:52

Time Test Ended: 19:15:52

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3499.00 ft (KB) To 3574.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3574.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651

Inside

Press@RunDepth: 40.97 psig @ 3571.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.25 End Date: 2016.06.25

Last Calib.: 2016.06.25

Start Time: 13:26:53 End Time: 19:15:52

Time On Btm: 2016.06.25 @ 15:43:22

Time Off Btm: 2016.06.25 @ 17:46:22

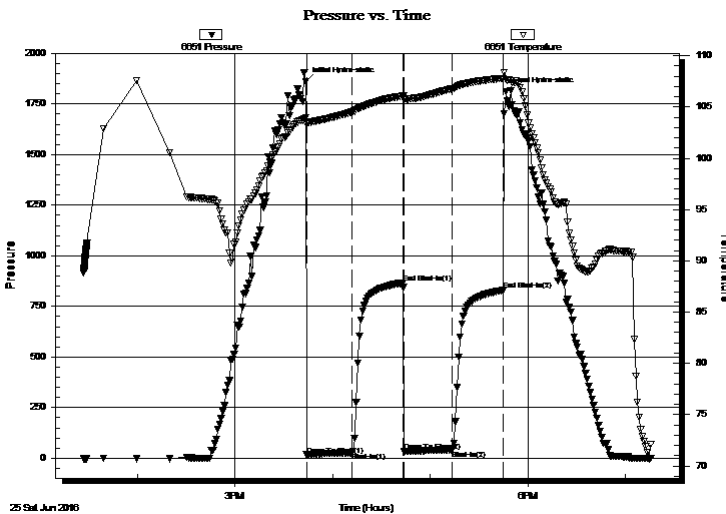
TEST COMMENT: 30- IF- Slow ly built to 1 1/2"

30- IS- No blow

30- FF- Slow ly built to 1"

30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.42	103.95	Initial Hydro-static
1	16.65	103.32	Open To Flow (1)
29	27.19	104.52	Shut-In(1)
60	865.43	106.06	End Shut-In(1)
61	31.94	105.79	Open To Flow (2)
90	40.97	106.78	Shut-In(2)
122	829.61	107.80	End Shut-In(2)
123	1812.52	107.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	M w/ few oil spots	0.44

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58093

DST#: 1

ATTN: Duane Stecklein

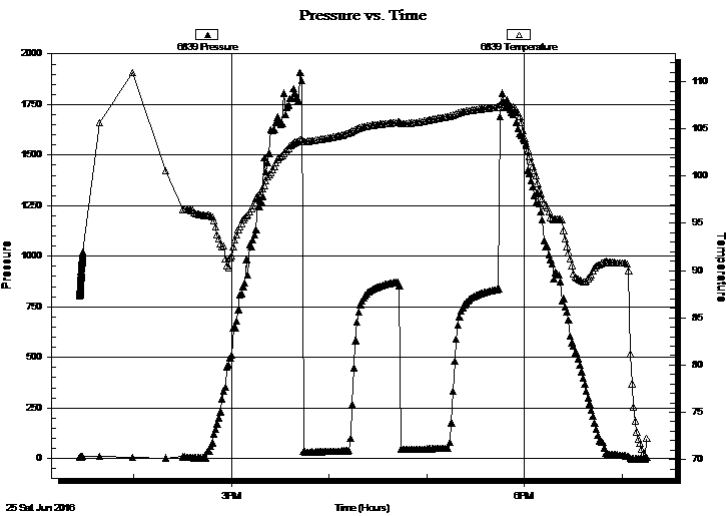
Test Start: 2016.06.25 @ 13:26:52

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:43:52
 Tester: Brannan Lonsdale
 Time Test Ended: 19:15:52
 Unit No: 73
Interval: 3499.00 ft (KB) To 3574.00 ft (KB) (TVD)
 Reference Elevations: 2060.00 ft (KB)
 Total Depth: 3574.00 ft (KB) (TVD) 2055.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6839 Outside
 Press@RunDepth: psig @ 3571.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.06.25 End Date: 2016.06.25 Last Calib.: 2016.06.25
 Start Time: 13:26:41 End Time: 19:15:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 1 1/2"
 30- IS- No blow
 30- FF- Slow ly built to 1"
 30- FS- No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	M w/ few oil spots	0.44

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58093

DST#: 1

ATTN: Duane Stecklein

Test Start: 2016.06.25 @ 13:26:52

Tool Information

Drill Pipe:	Length: 3021.00 ft	Diameter: 3.82 inches	Volume: 42.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 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: 60000.00 lb
			<u>Total Volume: 46.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3499.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 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			3480.00	
Shut In Tool	5.00			3485.00	
Hydraulic tool	5.00			3490.00	
Packer	5.00			3495.00	20.00 Bottom Of Top Packer
Packer	4.00			3499.00	
Stubb	1.00			3500.00	
Perforations	5.00			3505.00	
Change Over Sub	1.00			3506.00	
Drill Pipe	64.00			3570.00	
Change Over Sub	1.00			3571.00	
Recorder	0.00	6651	Inside	3571.00	
Recorder	0.00	6839	Outside	3571.00	
Bullnose	3.00			3574.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58093

DST#: 1

ATTN: Duane Stecklein

Test Start: 2016.06.25 @ 13:26:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.39 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 bbl
60.00	M w / few oil spots	0.441

Total Length: 60.00 ft Total Volume: 0.441 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

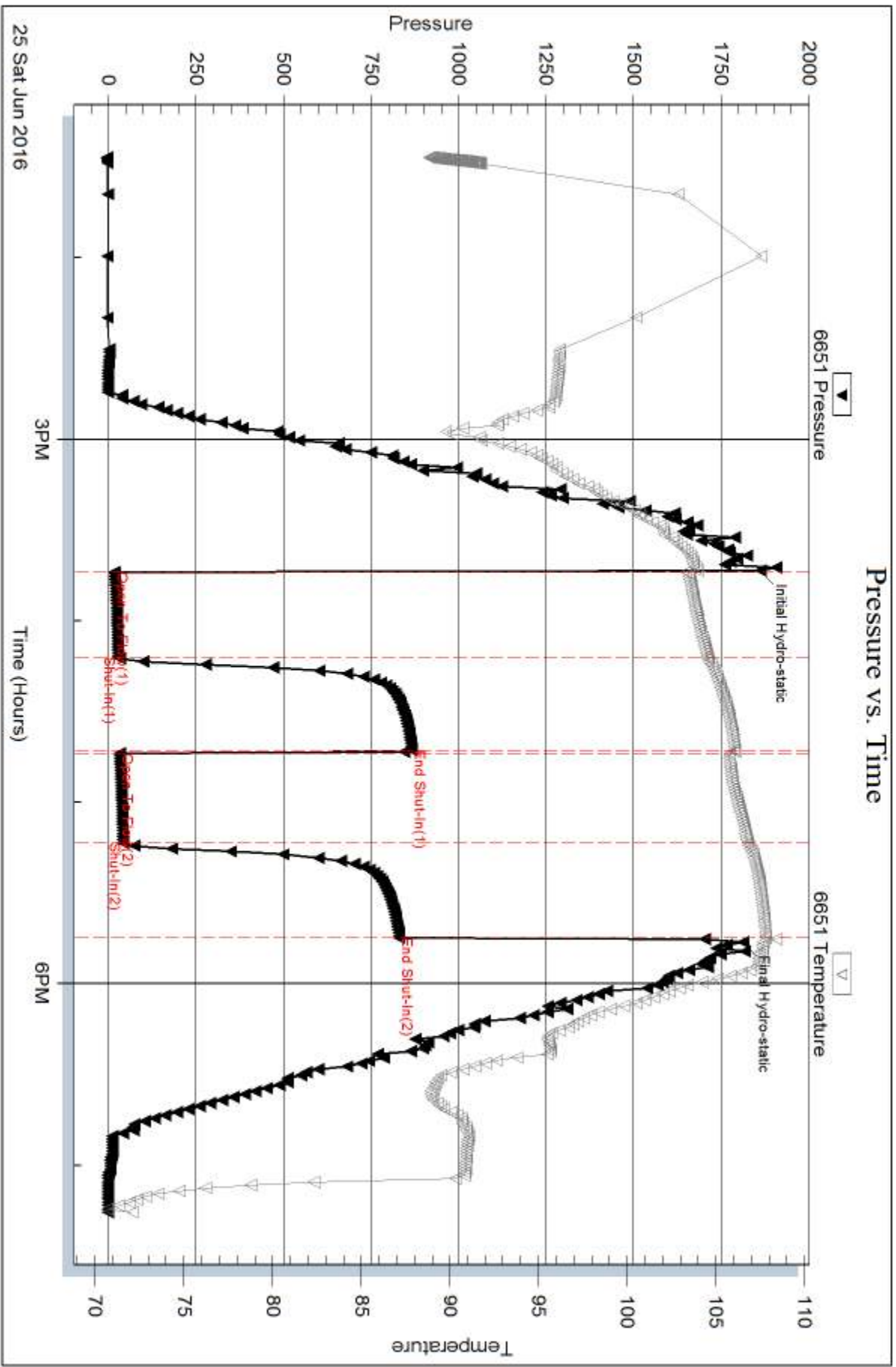
Serial #: 6651

Inside

Habit Petroleum, LLC

Schmedler #1

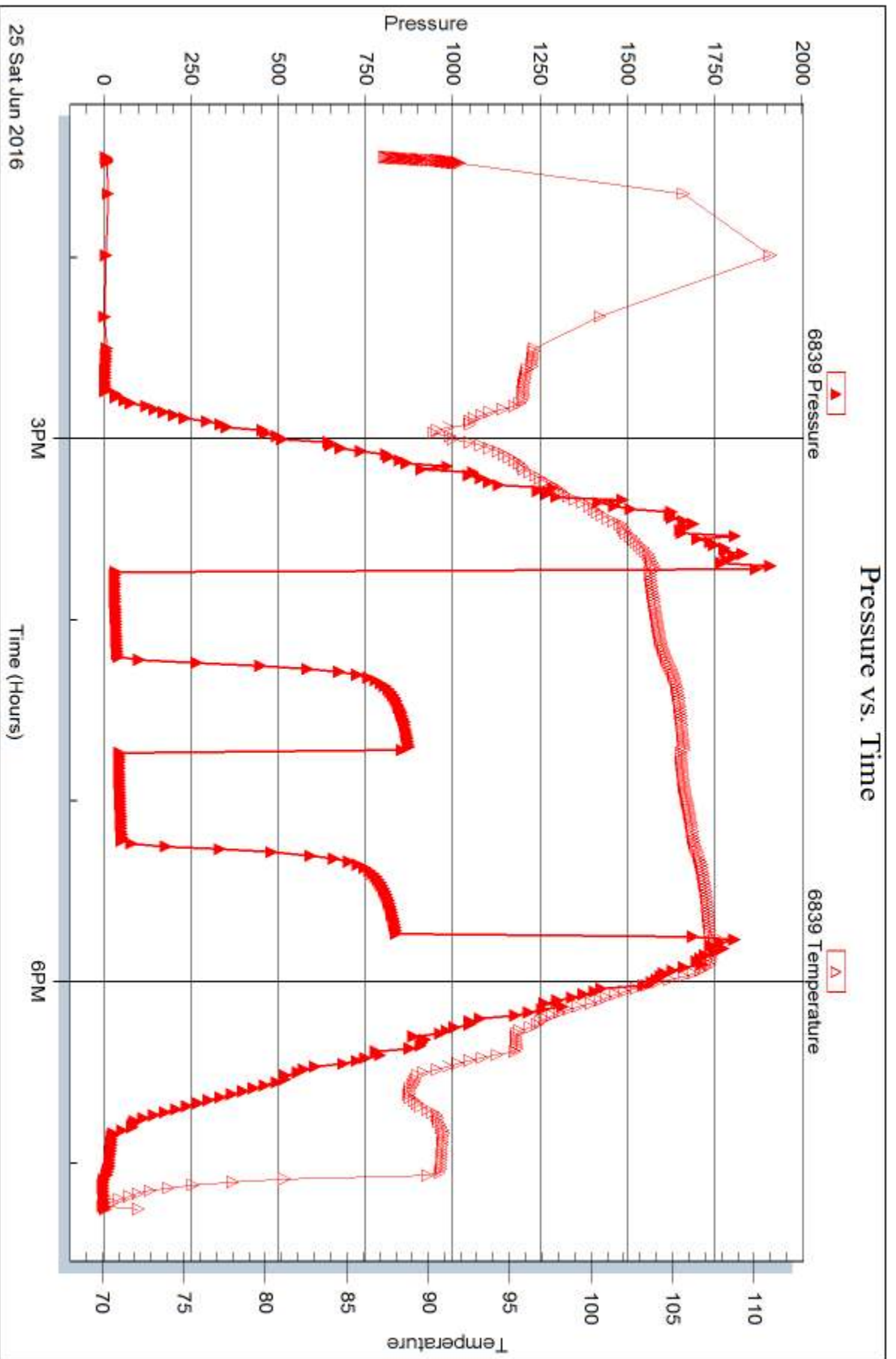
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58093

Printed: 2016.06.27 @ 11:58:21





DRILL STEM TEST REPORT

Prepared For: **Habit Petroleum, LLC**

PO Box 243
Hays, KS 67601

ATTN: Duane Stecklein

Schmeidler #1

3-15S-19W Ellis,KS

Start Date: 2016.06.26 @ 15:24:31

End Date: 2016.06.26 @ 22:06:01

Job Ticket #: 58094 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.06.27 @ 11:57:34



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58094

DST#: 2

ATTN: Duane Stecklein

Test Start: 2016.06.26 @ 15:24:31

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:18:31

Time Test Ended: 22:06:01

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3670.00 ft (KB) To 3710.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3725.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651 Inside

Press@RunDepth: 594.30 psig @ 3672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.26

End Date:

2016.06.26

Last Calib.:

2016.06.26

Start Time: 15:24:32

End Time:

22:06:01

Time On Btm:

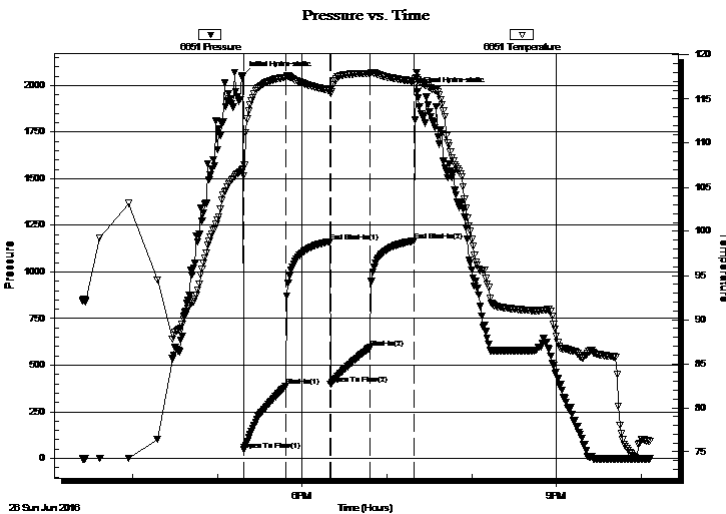
2016.06.26 @ 17:17:31

Time Off Btm:

2016.06.26 @ 19:21:31

TEST COMMENT: 30- IF- BOB 4 mins
30- IS- No blow
30- FF- BOB 5 mins
30- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.01	107.02	Initial Hydro-static
1	45.63	106.31	Open To Flow (1)
31	387.92	117.46	Shut-In(1)
62	1163.13	115.99	End Shut-In(1)
63	398.02	115.63	Open To Flow (2)
91	594.30	117.91	Shut-In(2)
122	1166.31	117.01	End Shut-In(2)
124	1968.94	117.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1292.00	MW, 15%M 85%W	15.13

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58094

DST#: 2

ATTN: Duane Stecklein

Test Start: 2016.06.26 @ 15:24:31

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:18:31

Time Test Ended: 22:06:01

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3670.00 ft (KB) To 3710.00 ft (KB) (TVD)

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3725.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6839 Outside

Press@RunDepth: psig @ 3672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.26

End Date: 2016.06.26

Last Calib.: 2016.06.26

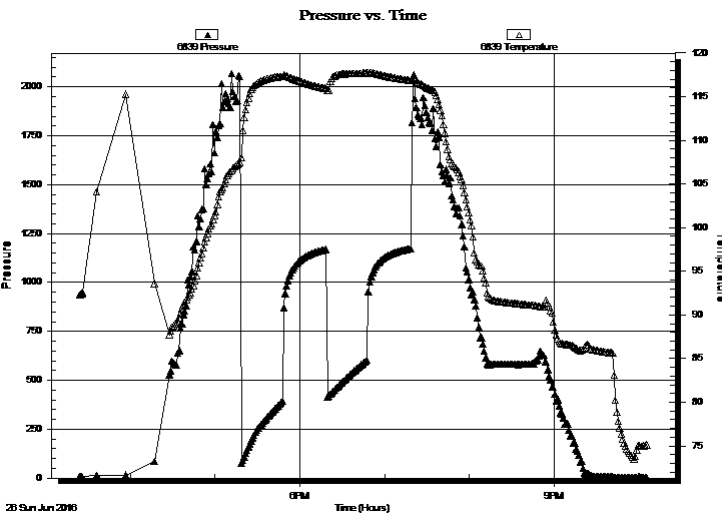
Start Time: 15:24:04

End Time: 22:05:33

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 4 mins
30- IS- No blow
30- FF- BOB 5 mins
30- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1292.00	MW, 15%M 85%W	15.13

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58094

DST#: 2

ATTN: Duane Stecklein

Test Start: 2016.06.26 @ 15:24:31

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:18:31

Time Test Ended: 22:06:01

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3670.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Reference Elevations: 2060.00 ft (KB)

Total Depth: 3725.00 ft (KB) (TVD)

2055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8959 Below (Straddle)

Press@RunDepth: psig @ 3712.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.26

End Date: 2016.06.26

Last Calib.: 2016.06.26

Start Time: 15:24:47

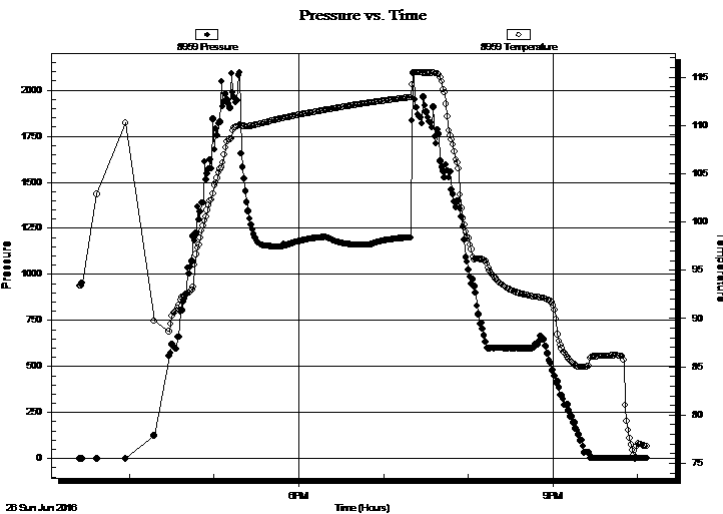
End Time: 22:06:16

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB 4 mins
30- IS- No blow
30- FF- BOB 5 mins
30- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1292.00	MW, 15%M 85%W	15.13

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58094

DST#: 2

ATTN: Duane Stecklein

Test Start: 2016.06.26 @ 15:24:31

Tool Information

Drill Pipe:	Length: 3211.00 ft	Diameter: 3.82 inches	Volume: 45.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 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: 67000.00 lb
			Total Volume: 48.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3670.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	3710.00 ft			
Interval between Packers:	40.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	3	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3651.00	
Shut In Tool	5.00			3656.00	
Hydraulic tool	5.00			3661.00	
Packer	5.00			3666.00	20.00 Bottom Of Top Packer
Packer	4.00			3670.00	
Stubb	1.00			3671.00	
Change Over Sub	1.00			3672.00	
Recorder	0.00	6651	Inside	3672.00	
Recorder	0.00	6839	Outside	3672.00	
Drill Pipe	32.00			3704.00	
Change Over Sub	1.00			3705.00	
Perforations	1.00			3706.00	
Blank Off Sub	1.00			3707.00	
Blank Spacing	3.00			3710.00	40.00 Tool Interval
Packer	1.00			3711.00	
Stubb	1.00			3712.00	
Recorder	0.00	8959	Below	3712.00	
Perforations	10.00			3722.00	
Bullnose	3.00			3725.00	15.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum, LLC

3-15S-19W Ellis,KS

PO Box 243
Hays, KS 67601

Schmeidler #1

Job Ticket: 58094

DST#: 2

ATTN: Duane Stecklein

Test Start: 2016.06.26 @ 15:24:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1292.00	MW, 15%M 85%W	15.132

Total Length: 1292.00 ft Total Volume: 15.132 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

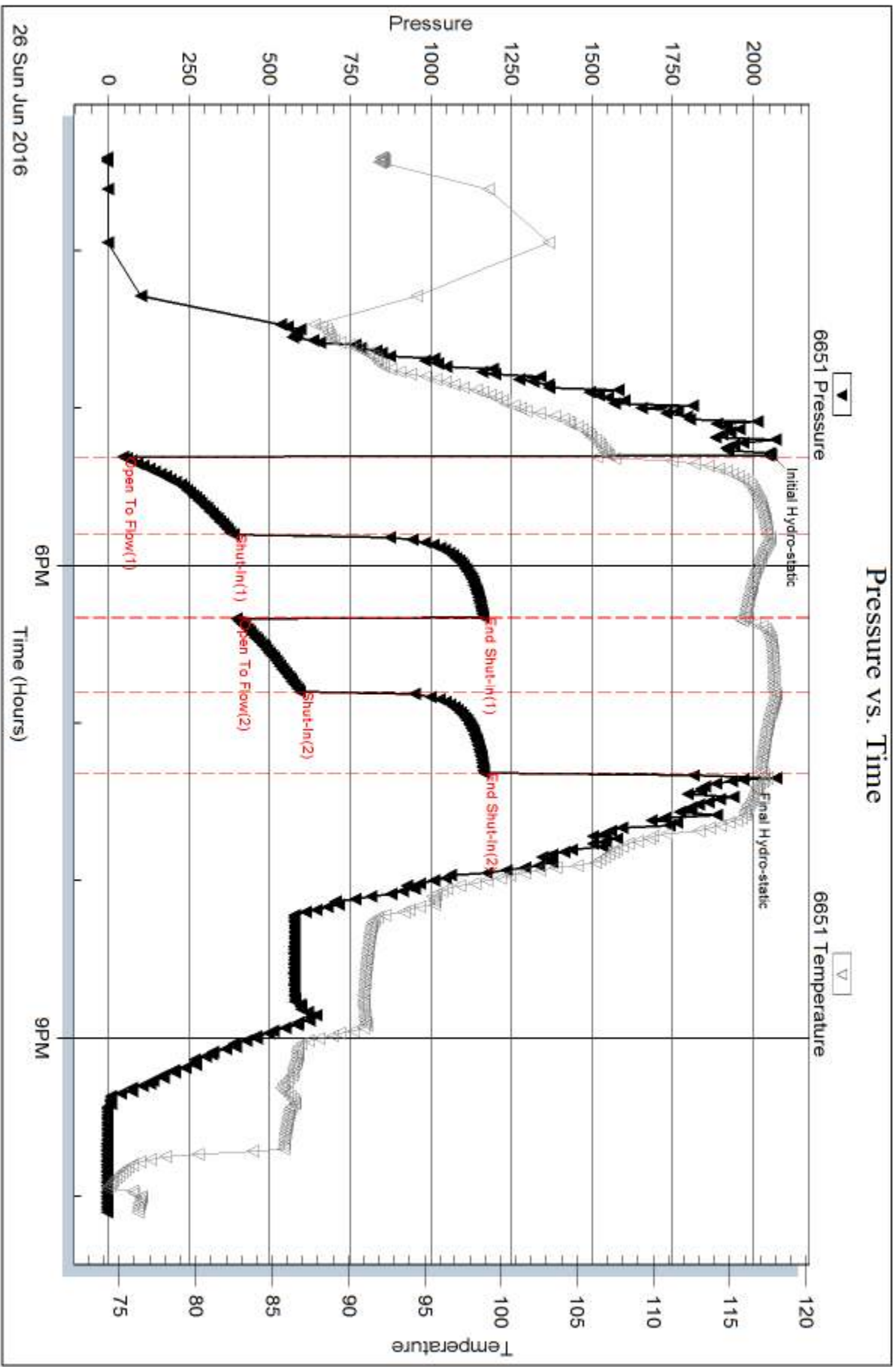
Serial #: 6651

Inside

Habit Petroleum, LLC

Schmedler #1

DST Test Number: 2



26 Sun Jun 2016

Triobite Testing, Inc

Ref. No: 58094

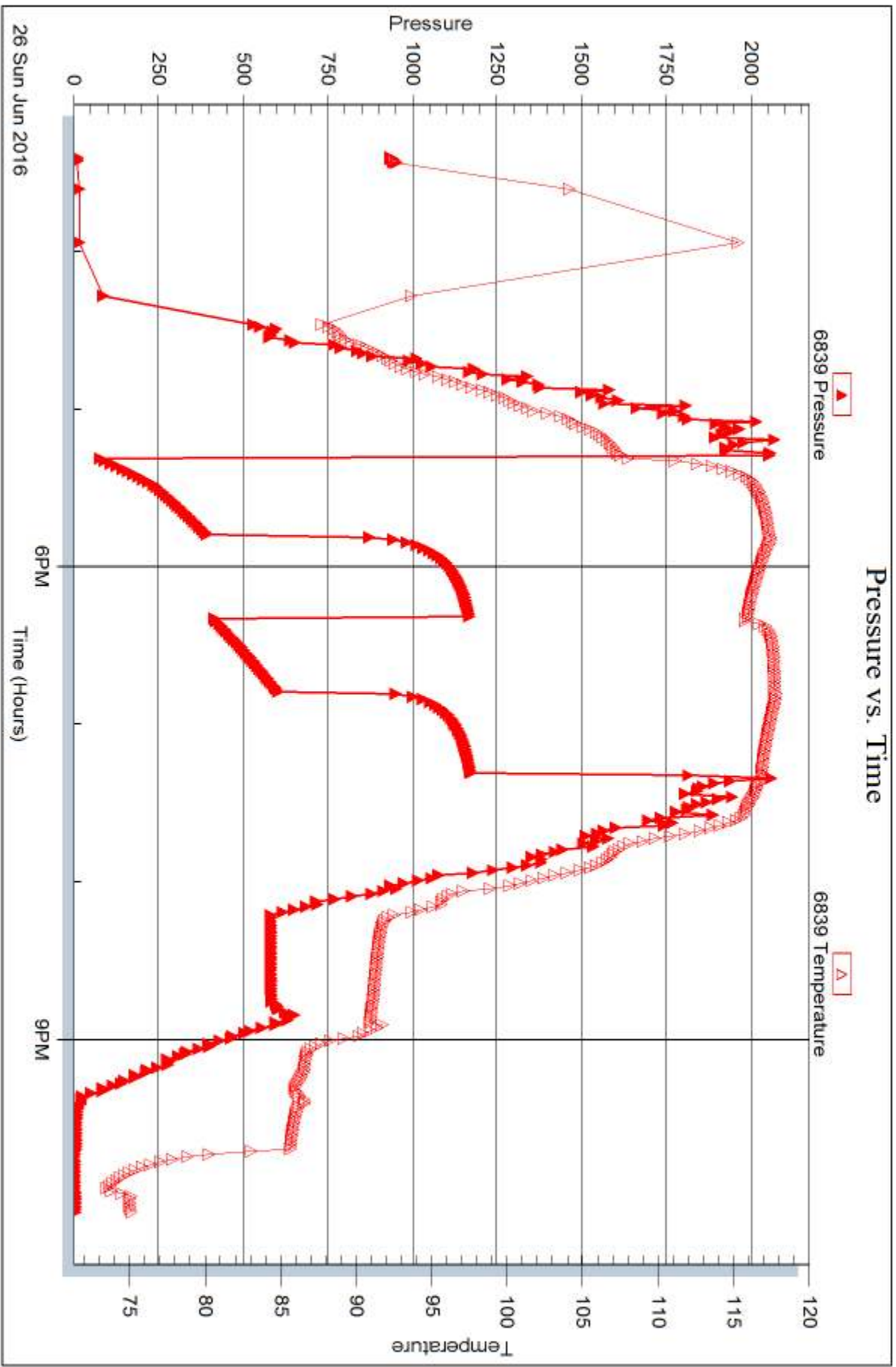
Printed: 2016.06.27 @ 11:57:36

Serial #: 6839

Outside Habit Petroleum, LLC

Schmedler #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58094

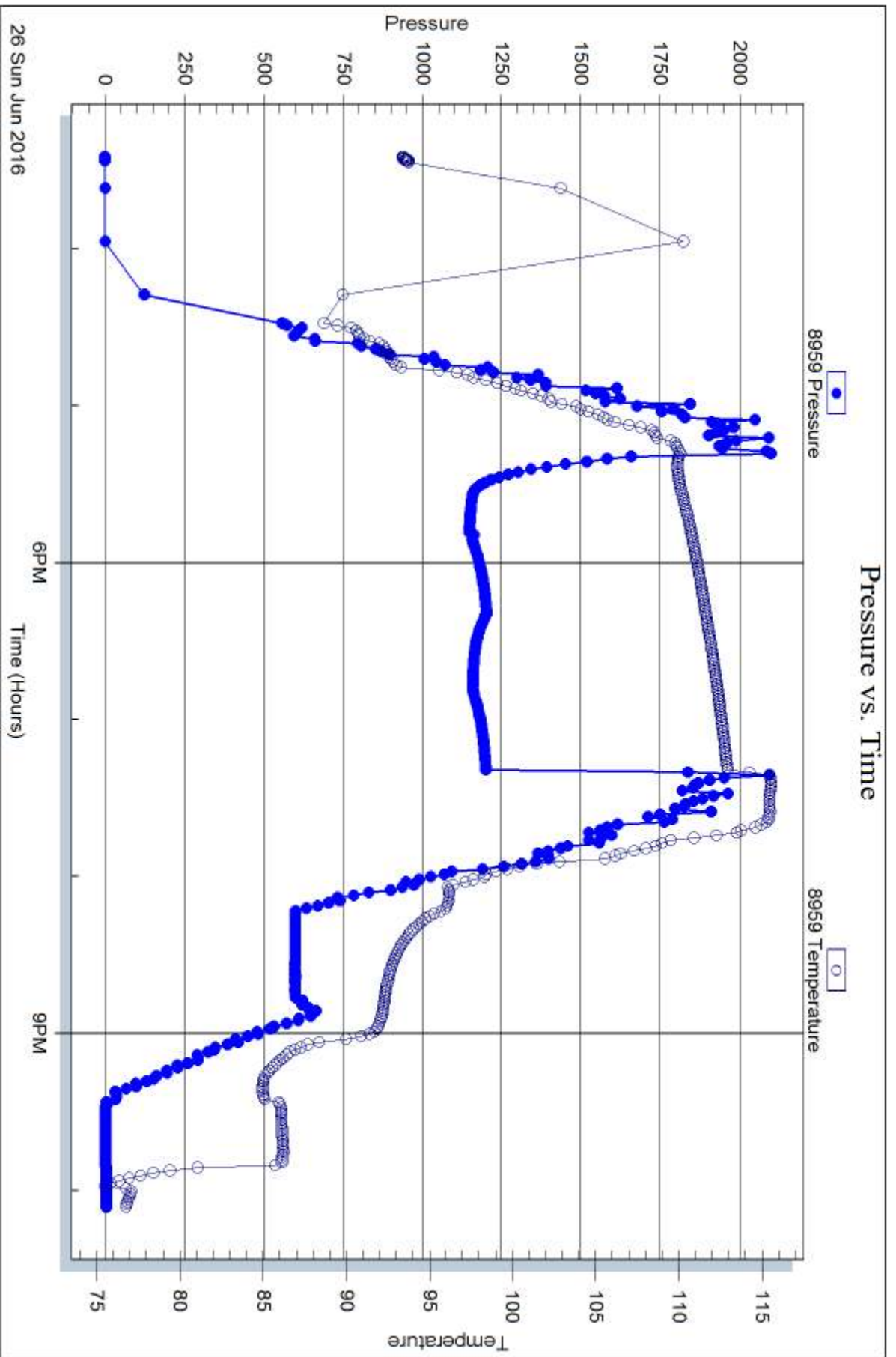
Printed: 2016.06.27 @ 11:57:36

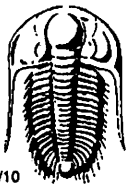
Serial #: 8959

Below (Straddle) Petroleum, LLC

Schmedler #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58093

Well Name & No. Schmeidler #1 Test No. 1 Date 6/25/16
 Company Habit Petroleum LLC Elevation 2060 KB 2055 GL
 Address 639 280th Ave. PO Box 243 Hays, KS, 67601
 Co. Rep / Geo. Duane Stecklein Rig Shields #2
 Location: Sec. 3 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3499-3574 Zone Tested LKC "H-J"
 Anchor Length 75' Drill Pipe Run 3021 Mud Wt. 9.7
 Top Packer Depth 3494 Drill Collars Run Vis 65
 Bottom Packer Depth 3499 Wt. Pipe Run 466 WL 7.4
 Total Depth 3574 Chlorides 6,000 ppm System LCM 2[#]

Blow Description IF - Slowly built to 1 1/2"
ISI - No blow
FF - Slowly built to 1"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Feet of M w/ few oil spots</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

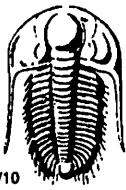
Rec Total 60' BHT 108° Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1861</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1302</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>1326</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint <u> </u>	T-Open <u>1542</u>
(D) Initial Shut-In <u>865</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1742</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1915</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>24 RT</u> 18	Comments <u> </u>
(G) Final Shut-In <u>830</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>1813</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u> </u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u> </u>	Total <u>1068</u>
	<input type="checkbox"/> Accessibility <u> </u>	MP/DST Disc't <u> </u>
	Sub Total <u>1068</u>	

Approved By Our Representative Brannon 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. 58094

Well Name & No. Schmeidler #1 Test No. 2 Date 6/26/16
 Company Habit Petroleum, LLC Elevation 2066 KB 2071 GL
 Address 639 280th Ave. PO Box 243 Hays, KS 67601
 Co. Rep / Geo. Duane Stecklein Rig Shields #2
 Location: Sec. 3 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3670-3710 Zone Tested Arbuckle
 Anchor Length 40' Tool-15' Drill Pipe Run 3211 Mud Wt. 9.6
 Top Packer Depth 3665-3670 Drill Collars Run — Vis 62
 Bottom Packer Depth 3710 Wt. Pipe Run 466 WL 7.6
 Total Depth 3725 Chlorides 5400 ppm System LCM 1st
 Blow Description IF - BOB 4mins
ISI - No blow
PF - BOB 5mins
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1292</u>	<u>MW</u>			<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1292 BHT 117° Gravity _____ API RW .16 @ 77° F Chlorides 37,000 ppm
 (A) Initial Hydrostatic 2055 Test 1050 T-On Location 1410
 (B) First Initial Flow 46 Jars _____ T-Started 1524
 (C) First Final Flow 388 Safety Joint _____ T-Open 1717
 (D) Initial Shut-In 1163 Circ Sub _____ T-Pulled 1917
 (E) Second Initial Flow 398 Hourly Standby _____ T-Out 2205
 (F) Second Final Flow 594 Mileage 24 RT 18
 (G) Final Shut-In 1166 Sampler _____
 (H) Final Hydrostatic 1969 Straddle 600
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 1918
 Final Flow 30 Sub Total 1918
 Final Shut-In 30 MP/DST Disc't _____

Approved By _____ Our Representative Bryan Lunsdale

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.