

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

JERRY GREEN

CONSULTING GEOLOGIST
4350 Keystone Rd
HAYS, KS 67601
PHONE: 785-625-5155

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: HABIT PETROLEUM LLC
ELEVATIONS: KB 2046

LEASE: RUDER-5-31

FIELD: SW-SE-NE

LOCATION: TWP 14S RGE 18W

SEC 31 STATE KS

COUNTY: ELLIS

CONTRACTOR: WHITE KNIGHT DRILLING

SPUD: 8-2-19 COMP: 8-6-19

RTD: 3635 LTD

MUD UP: 2900' TYPE MUD: CHEM.

SAMPLES SAVED FROM: 2900' TO TD.

DRILLING TIME KEPT FROM: 2900' TO TD.

SAMPLES EXAMINED FROM: 2900' TO TD.

GEOLOGICAL SUPERVISION FROM: 2900' TO TD.

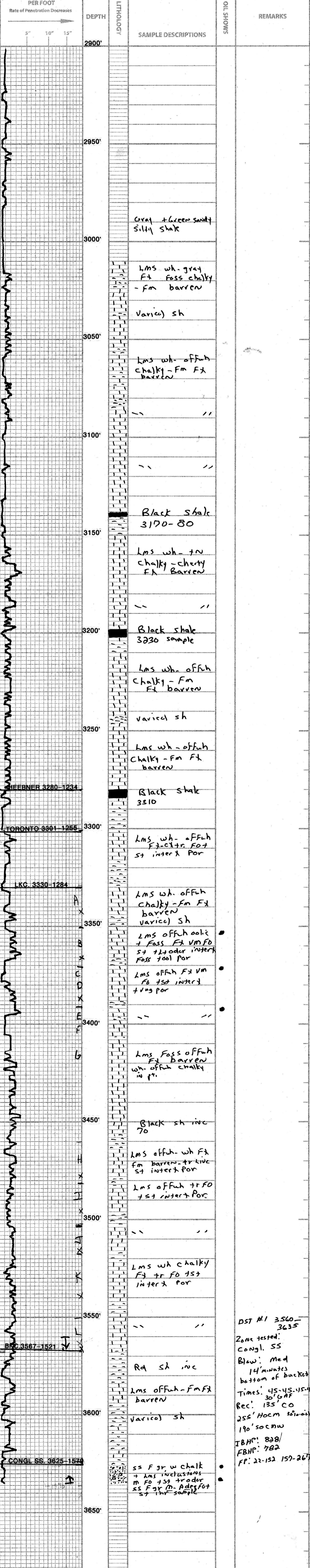
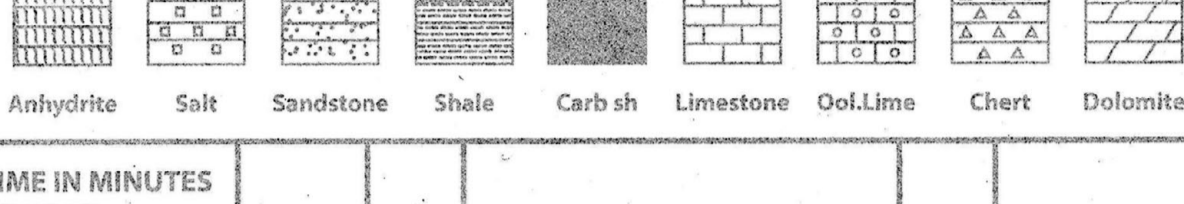
GEOLOGIST ON WELL: 3200-TD

FORMATION TOPS	LOG	SAMPLES
ANHY.	1242-78 804	1243-80
HEEBNER	3282-1236	3280-1234
TORONTO	3302-1256	3301-1255
LKC.	3332-1286	3330-1284
BKC.	3568-1522	3567-1521
CONGL SS.	Net reached	3625-1579
RTD		3635-1589

FORMATION TOPS	LOG	SAMPLES
ANHY.	1242-78 804	1243-80
HEEBNER	3282-1236	3280-1234
TORONTO	3302-1256	3301-1255
LKC.	3332-1286	3330-1284
BKC.	3568-1522	3567-1521
CONGL SS.	Net reached	3625-1579
RTD		3635-1589

REMARKS: All parties involved recommended that pipe be set. An open hole completion in the Congl. SS. is planned. Deepening to the Arbuckle in the future is recommended. B, C + E should be tested before abandoning. Respectfully submitted

LEGEND



DST #1 3560-3635
Zone tested: Congl. SS
Blow: Med 14 minutes bottom of bucket
Times: 45-45-45-45-30' GAF
Rec: 135' CO
255' Hoem 30' oil
190' soc mw
IBHP: 828/
FBHP: 782
FP: 22-152 157-267

JERRY GREEN

CONSULTING GEOLOGIST
4350 Keystone Rd
HAYS, KS 67601
PHONE: 785-625-5155

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: HABIT PETROLEUM LLC
ELEVATIONS: KB 2046

LEASE: RUDER-5-31
FIELD: SW-SE-NE

LOCATION: SW-SE-NE
SEC 31 TWP 14S RGE 18W
GL 2041

COUNTY: ELLIS STATE: KS
Measurements Are All From KB

CONTRACTOR: WHITE KNIGHT DRILLING
CASING SURFACE @ 219

SPUD: 8-2-19 COMP: 8-6-19
PRODUCTION: ELECTRICAL SURVEYS

RTD: 3635 LTD: TYPE MUD: CHEM. STACK-MICRO

MUD UP: 2900' TO TD.

SAMPLES SAVED FROM: 2900' TO TD.

DRILLING TIME KEPT FROM: 2900' TO TD.

SAMPLES EXAMINED FROM: 2900' TO TD.

GEOLOGICAL SUPERVISION FROM: 2900' TO TD.

GEOLOGIST ON WELL: 3200-TD

FORMATION TOPS LOG SAMPLES

ANHY. 1242-78 804 1243-80

HEEBNER 3282-1236 3280-1234

TORONTO 3302-1256 3301-1255

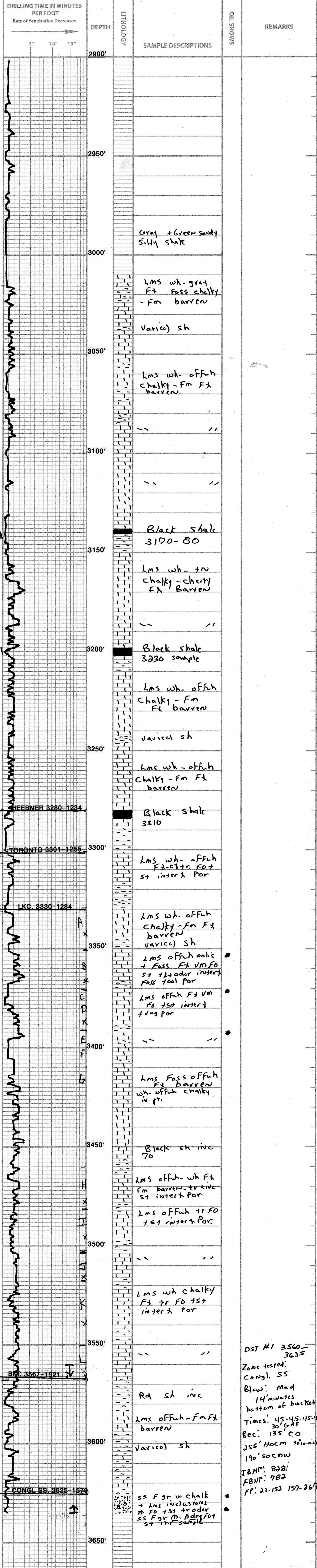
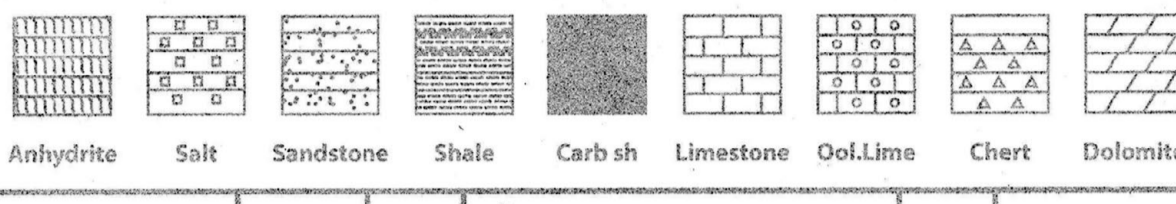
LKC. 3332-1286 3330-1284

BKC. 3568-1522 3567-1521

CONGL SS. Net reached 3625-1579
RTD 3635-1589

REMARKS: All parties involved recommended that pipe be set. An open hole completion in the Congl. SS. is planned. Deepening to the Arbuckle in the future is recommended. B, C + E should be tested before abandoning.
Respectfully submitted
JG

LEGEND



DST #1 3560-3635
Zone tested: Congl. SS
Blow: Med 14 minutes bottom of bucket
Times: 45-45-45-45-30' GAF
Rec: 135' CO
255' Hoem 30' oil
190' soc mw
IBHP: 828/
FBHP: 782
FP: 22-152 157-267



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum, LLC
 639 280th Ave.
 PO Box 243
 Hays, KS 67601
 ATTN: Jerry Green

31-14S-18W Ellis, KS

Ruder #5-31

Job Ticket: 64487

DST#: 1

Test Start: 2019.08.06 @ 04:44:59

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:13:50
 Time Test Ended: 13:45:34
 Interval: **3560.00 ft (KB) To 3635.00 ft (KB) (TVD)**
 Total Depth: 3635.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2046.00 ft (KB)
 2041.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8700

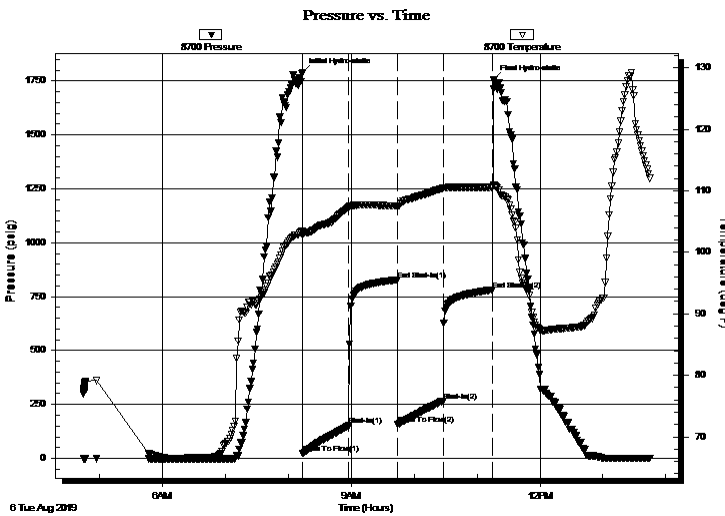
Outside

Press@RunDepth: 266.75 psig @ 3561.00 ft (KB)
 Start Date: 2019.08.06 End Date: 2019.08.06
 Start Time: 04:45:00 End Time: 13:45:34

Capacity: 8000.00 psig
 Last Calib.: 2019.08.06
 Time On Btm: 2019.08.06 @ 08:13:35
 Time Off Btm: 2019.08.06 @ 11:16:05

TEST COMMENT: 45- IF- BOB 14mins. Built to 34.99"
 45- IS- Slow ly built to 0.81"
 45- FF- BOB 14mins. Built to 33.63"
 45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.28	103.48	Initial Hydro-static
1	22.44	102.86	Open To Flow (1)
45	151.84	107.36	Shut-In(1)
91	828.23	107.55	End Shut-In(1)
91	157.23	107.39	Open To Flow (2)
134	266.75	110.45	Shut-In(2)
182	781.57	110.52	End Shut-In(2)
183	1754.26	110.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	MW, 10%M 90%W	2.69
255.00	OCM, 30%O 70%M	3.61
135.00	CO	1.91
0.00	50' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum, LLC
639 280th Ave.
PO Box 243
Hays, KS 67601
ATTN: Jerry Green

31-14S-18W Ellis, KS
Ruder #5-31
Job Ticket: 64487 **DST#: 1**
Test Start: 2019.08.06 @ 04:44:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 21000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: inches		

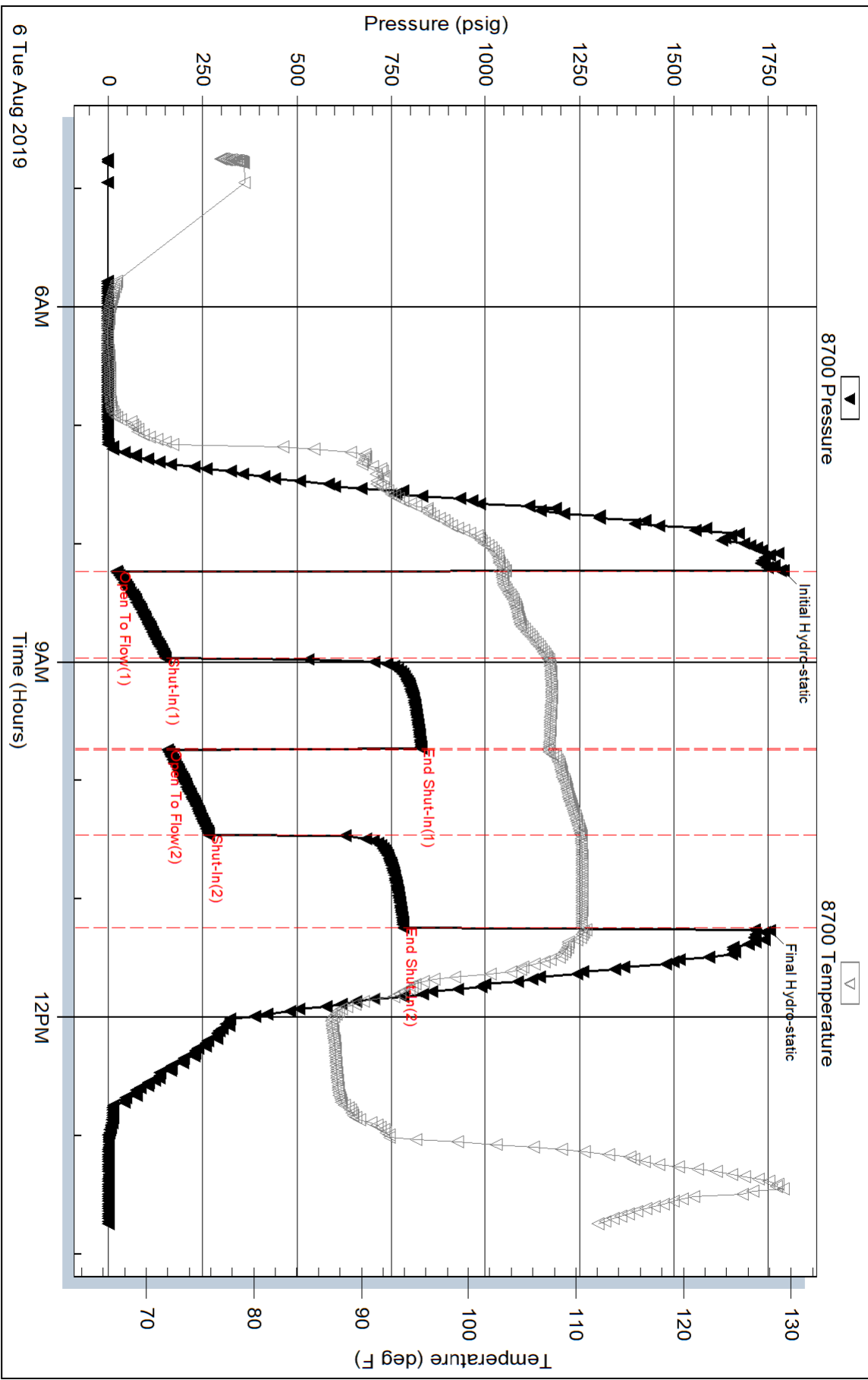
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	MW, 10%M 90%W	2.693
255.00	OCM, 30%O 70%M	3.615
135.00	CO	1.914
0.00	50' GIP	0.000

Total Length: 580.00 ft Total Volume: 8.222 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW: .25@87deg

Pressure vs. Time



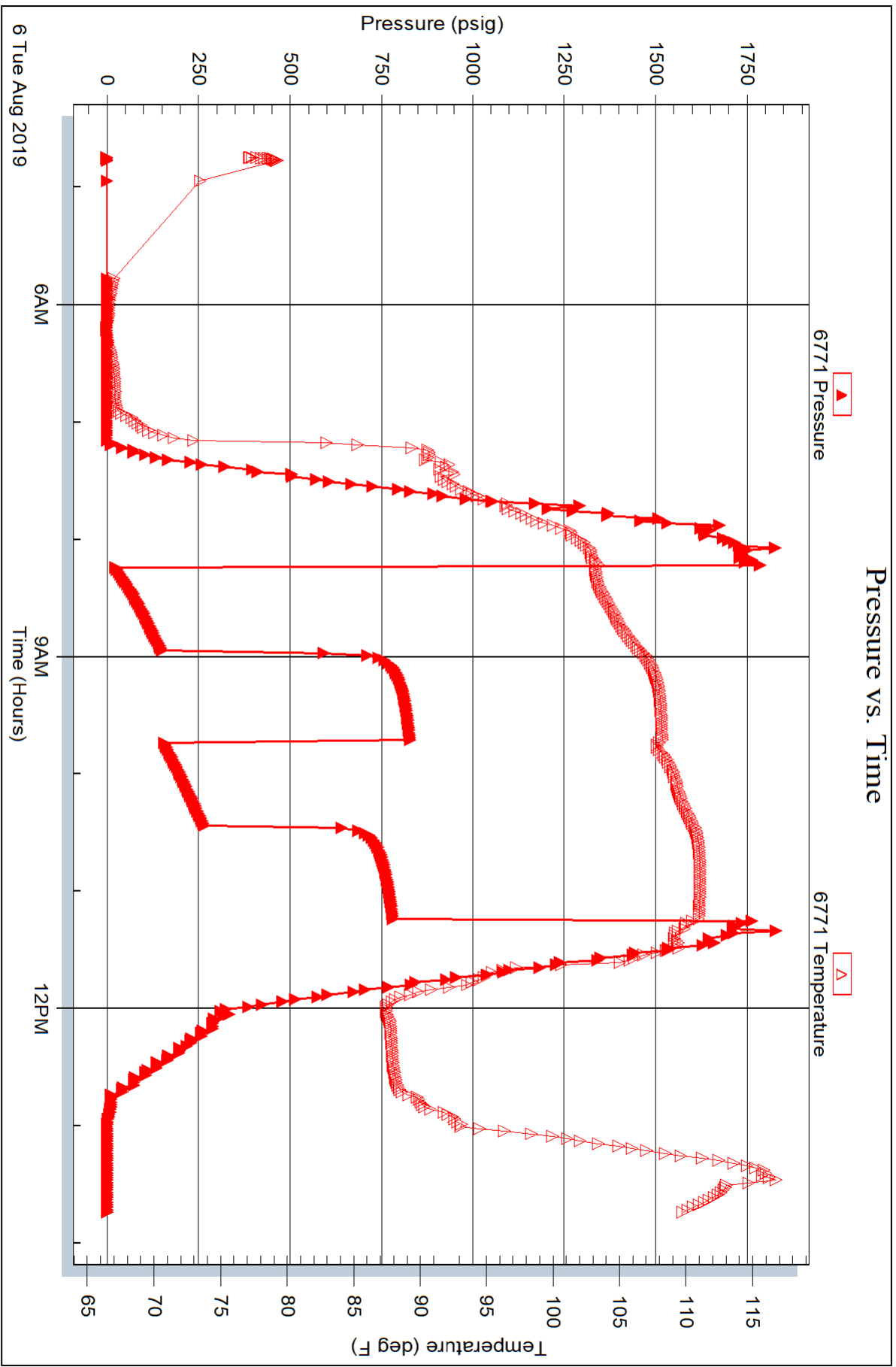
Serial #: 6771

Inside

Habit Petroleum, LLC

Ruder #5-31

DST Test Number: 1



GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
 RUSSELL, KS 67665

Invoice

Date	Invoice #
8/14/2019	3415

Bill To
HABIT PETROLEUM PO BOX 243 HAYS KS 67601

P.O. No.	Terms	Project
RUDER #5-31	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT		
5	CALCIUM-CHLORIDE		
3	BENTONITE GEL		
158	HANDLING BULK MILEAGE		
1	TRI-PLEX PUMP CHARGE FOR SURFACE		
25	HEAVY EQUIPMENT. ONE WAY		
25	LMV- ONE WAY		
15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE			
ELLIS CO SALES TAX			

PD

Thank you for your business.

Phone #	Fax #
785-445-3525	785-445-3526

7

GLOBAL OIL FIELD SERVICES, LLC

3415

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>8-2-19</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Rader</u>	WELL #. <u>5-31</u>	LOCATION <u>South of Hays, KS to</u>			COUNTY	STATE	
OLD OR NEW (CIRCLE ONE)		<u>Del Rio RD 2 W 1/2 N W 1/4 to</u>					

CONTRACTOR White Knight
 TYPE OF JOB Surface
 HOLE SIZE _____ T.D. _____
 CASING SIZE 8 5/8 DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX. 300PSI MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 200
 PERFS _____
 DISPLACEMENT _____

OWNER _____
 CEMENT AMOUNT ORDERED 15000 com 3% oil
2% gel

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

EQUIPMENT
 PUMP TRUCK CEMENTER Heath
 # 409 HELPER Mark
 BULK TRUCK
 # 411 DRIVER Tom Tjorne
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Run 545 of 8 5/8 casing & landing
Up & Circulate - Mix 15000 and
10000 lbs of 110
Shut in @ 300PSI.
Cement Did Circulate!!

CHARGE TO: Habit Petro
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

PRINTED NAME _____
 SIGNATURE _____

SERVICE
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 MANIFOLD _____ @ _____
 _____ @ _____
 TOTAL _____

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
 RUSSELL, KS 67665

Invoice

Date	Invoice #
8/14/2019	13792

Bill To
HABIT PETROLEUM PO BOX 243 HAYS KS 67601

P.O. No.	Terms	Project
RUDER#S-31	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT		
13	SALT		
3	BENTONITE GEL		
166	HANDLING BULK MILEAGE		
400	GMDC COMMON CEMENT		
400	HANDLING BULK MILEAGE		
1	TRI-PLEX PUMP TRUCK CHARGE FOR LONGSTRING		
25	HEAVY EQUIPMENT. ONE WAY		
25	LMV- ONE WAY		
6	5 1/2 TURBOLIZER		
3	5 1/2 BASKET		
1	5 1/2 LD PLUG & BAFFLE		
1	5 1/2 PACKER SHOE		
15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE ELLIS CO SALES TAX			

pd.

Thank you for your business.

Phone #	Fax #
785-445-3525	785-445-3526

applied discount from previous invoice

GLOBAL OIL FIELD SERVICES, LLC

13792

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>8-7-17</u>	SEC. <u>31</u>	TWP. <u>14</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION <u>11:00 PM</u>	JOB START	JOB FINISH <u>5:00 AM</u>
LEASE <u>Ruden</u>		WELL #. <u>S31</u>		LOCATION <u>HAYCOCKS 2W</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>
OLD OR NEW (CIRCLE ONE) <input checked="" type="radio"/> OLD <input type="radio"/> NEW							

CONTRACTOR White Knight

TYPE OF JOB PROD CIG

HOLE SIZE _____ T.D. 3635

CASING SIZE 53 DEPTH 3626.50

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 20.20

PERFS _____

DISPLACEMENT 87.8

EQUIPMENT _____

OWNER _____

CEMENT AMOUNT ORDERED

15000 Cement 10% Bulk 29.00

11000 2.10

COMMON _____	@ _____
POZMIX _____	@ _____
GEL _____	@ _____
CHLORIDE _____	@ _____
ASC _____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
HANDLING _____	@ _____
MILEAGE _____	@ _____
TOTAL _____	_____

PUMP TRUCK # _____	CEMENTER <u>Bill</u>
BULK TRUCK # _____	HELPER <u>JASON</u>
BULK TRUCK # _____	DRIVER <u>mark</u>
BULK TRUCK # _____	DRIVER <u>Fddie</u>

REMARKS: Shoe 5' + 20.20

pipe out @ 3626' In out @ 3602

Cement w/ 4000 lbs Full w/ 1500 Com

10% Bulk 29.00

Pump plug @ 87.8 665

10% Plug @ 15.00

Float did hold

Cement did Cig.

CHARGE TO: Habit Prod

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____	_____
PUMP TRUCK CHARGE _____	_____
EXTRA FOOTAGE _____	@ _____
MILEAGE _____	@ _____
MANIFOLD _____	@ _____
_____	@ _____
_____	@ _____
TOTAL _____	_____

PLUG & FLOAT EQUIPMENT

<u>1-Cement</u>	@ _____
<u>2-Bags</u>	@ _____
<u>float chgs</u>	@ _____
<u>part on chgs</u>	@ _____
TOTAL _____	_____

Global Oil Field Services, LLC

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

PRINTED NAME _____

SIGNATURE Terrill Rusten

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS