

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	MOORE 1
Doc ID	1428034

Tops

Name	Top	Datum
Anhydrite	1220	+941
Heebner	3544	-1383
LKC	3600	-1439
BKC	3896	-1735
Cherokee Shale	4016	-1855
Cherokee SS	4026	-1865
Arbuckle	4033	-1872
RTD	4120	-1959





# GLOBAL OIL FIELD SERVICES, LLC

0013186

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>11-5-18</u>	SEC <u>34</u>	TWP. <u>20S</u>	RANGE <u>18W</u>	CALLED OUT _____	ON LOCATION _____	JOB START _____	JOB FINISH <u>11:00am</u>
LEASE <u>Moore</u>	WELL# <u>1</u>	LOCATION <u>12 south of Rush Center</u>			COUNTY <u>Pawnee</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			<u>South</u>				

CONTRACTOR White Knight Drilling Rig #1

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 I.D. 4 1/2

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH 4012'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

EQUIPMENT	
PUMP TRUCK # <u>409</u>	CEMENTER <u>Cody</u>
BULK TRUCK # <u>410</u>	HELPER <u>Blad</u>
BULK TRUCK # _____	DRIVER <u>Kris</u>
BULK TRUCK # _____	DRIVER _____

REMARKS:  
4012' 505X  
1260' 505X  
480' 505X  
60' 205X Wiper Plug  
Put 305X

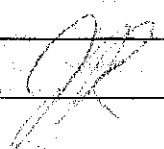
CHARGE TO: Castle Resources

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 

OWNER Castle Resources

CEMENT AMOUNT ORDERED 2005X 60/40 Poz  
7% Gel 1/4" Flow Seal

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

**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



# Company: Castle Resources, Inc

## Lease: Moore #1

SEC: 34 TWN: 20S.RNG: 18W  
County: PAWNEE  
State: Kansas  
Drilling Contractor: White Knight Drilling, LLC - Rig 1  
Elevation: 2160 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 265

**Operation:**  
Test Complete

**DATE**  
November  
**04**  
2018

DST #1    Formation: Arbuckle    Test Interval: 4014 - 4040'    Total Depth: 4040'

Time On: 01:55 11/04    Time Off: 08:48 11/04  
Time On Bottom: 04:48 11/04    Time Off Bottom: 06:38 11/04

Electronic Volume Estimate:  
0'

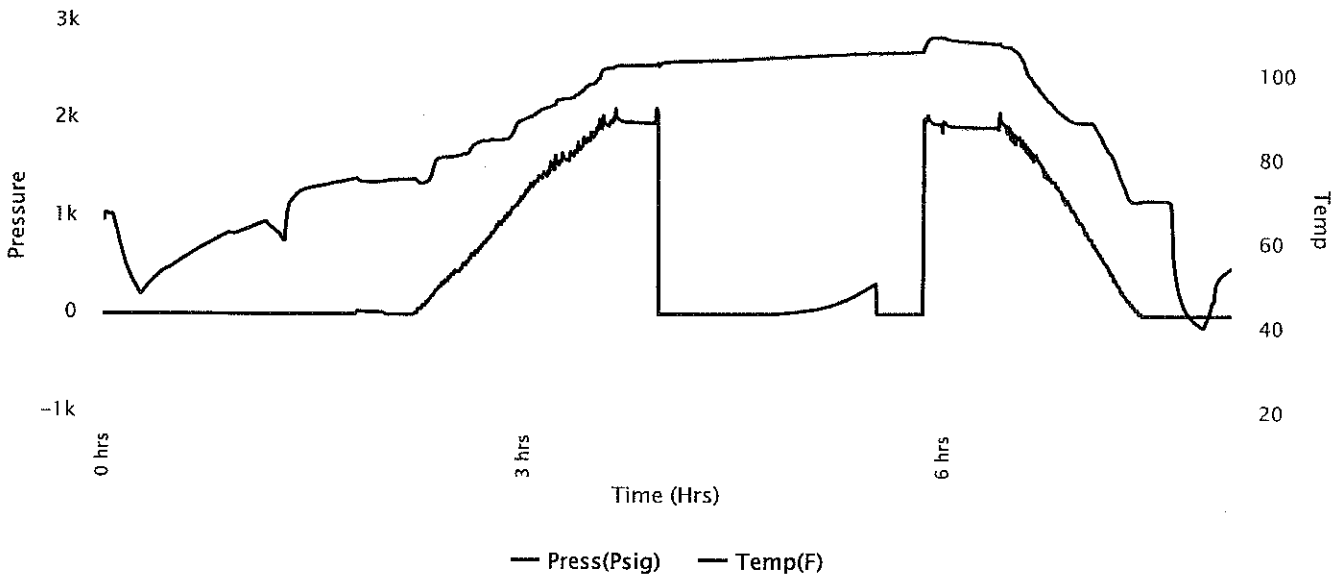
1st Open  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

1st Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Open  
Minutes: 20  
Current Reading:  
0" at 20 min  
Max Reading: 0"

2nd Close  
N/A

Inside Recorder





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SEC: 34 TWN: 20S.RNG: 18W  
County: PAWNEE  
State: Kansas  
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Elevation: 2160 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 265

**Operation:**  
Test Complete

**DATE**  
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2018

DST #1    Formation: Arbuckle    Test Interval: 4014 - 4040'    Total Depth: 4040'

Time On: 01:55 11/04    Time Off: 08:48 11/04  
Time On Bottom: 04:48 11/04    Time Off Bottom: 06:38 11/04

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.1423	M	0	0	0	100

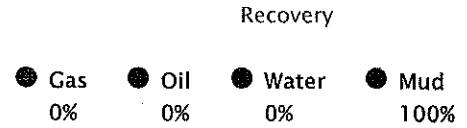
Total Recovered: 10 ft  
Total Barrels Recovered: 0.1423

Reversed Out  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1974	PSI	0.1
Initial Flow	11 to 13	PSI	BBL
<b>Initial Closed in Pressure</b>	<b>325</b>	<b>PSI</b>	
Final Flow Pressure	14 to 15	PSI	
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>	0
Final Hydrostatic Pressure	1972	PSI	
Temperature	107	°F	
Pressure Change Initial Close / Final Close	100.0	%	







**Company: Castle Resources,  
Inc**

**Lease: Moore #1**

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State: Kansas  
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Drilling, LLC - Rig 1  
Elevation: 2160 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 265

**Operation:**  
Test Complete

**DATE**  
November  
**04**  
2018

**DST #1      Formation: Arbuckle      Test Interval: 4014 -      Total Depth: 4040'**  
**4040'**  
Time On: 01:55 11/04      Time Off: 08:48 11/04  
Time On Bottom: 04:48 11/04      Time Off Bottom: 06:38 11/04

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to a 1/4 in. blow.  
1st Close: No blow back.  
2nd Open: No blow.  
2nd Close: N/A

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



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State: Kansas  
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Elevation: 2160 GL  
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Job Number: 265

**Operation:**  
Test Complete

**DATE**  
November  
**04**  
2018

**DST #1    Formation: Arbuckle    Test Interval: 4014 - 4040'    Total Depth: 4040'**

Time On: 01:55 11/04    Time Off: 08:48 11/04  
Time On Bottom: 04:48 11/04    Time Off Bottom: 06:38 11/04

**Down Hole Makeup**

**Heads Up:** 14.58 FT

**Packer 1:** 4009 FT

**Drill Pipe:** 3996.01 FT  
*ID-3 1/2*

**Packer 2:** 4014 FT

**Weight Pipe:** 0 FT  
*ID-2 7/8*

**Top Recorder:** 3998.42 FT

**Collars:** 0 FT  
*ID-2 1/4*

**Bottom Recorder:** 4016 FT

**Test Tool:** 33.57 FT  
*ID-3 1/2-FH*  
*Jars*  
*Safety Joint*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 26

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 0 FT  
*4 1/2-FH*

**Change Over:** 0 FT

**Drill Pipe: (in anchor):** 0 FT  
*ID-3 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 25 FT  
*4 1/2-FH*



**Company: Castle Resources,  
Inc**

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Drilling, LLC - Rig 1  
Elevation: 2160 GL  
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Pool: WILDCAT  
Job Number: 265

**Operation:**

Test Complete

**DATE**

November

**04**

2018

**DST #1    Formation: Arbuckle    Test Interval: 4014 -    Total Depth: 4040'**  
**4040'**

Time On: 01:55 11/04

Time Off: 08:48 11/04

Time On Bottom: 04:48 11/04

Time Off Bottom: 06:38 11/04

### **Mud Properties**

**Mud Type:** Chemical

**Weight:** 8.6

**Viscosity:** 45

**Filtrate:** 16.2

**Chlorides:** 18,000 ppm

# JERRY GREEN

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

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY: CASTLE RESOURCES INC.  
LEASE: MOORE #1  
FIELD: KB 2181  
ELEVATIONS: KB 2181  
DF: GL 2156

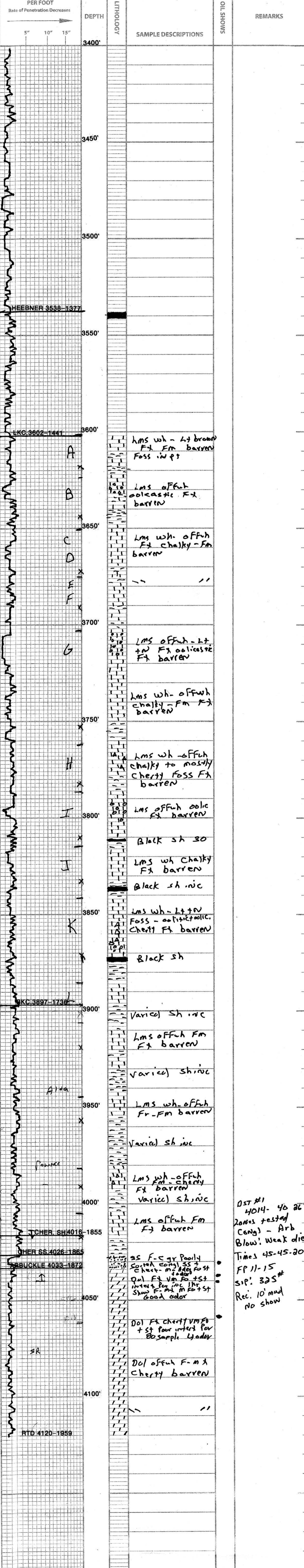
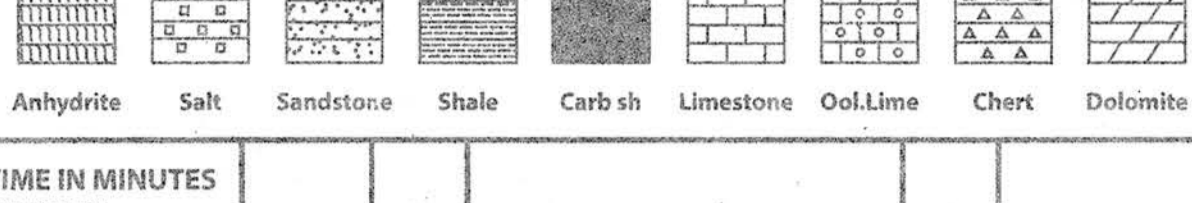
LOCATION: 380'FWL 1320'FNL  
SEC 34 TWP 20S RGE 18  
COUNTY: PAWNEE STATE: KS  
CONTRACTOR: WHITE KNIGHT DRILG.  
SPUD: 10-29-18 COMP: 11-5-18  
RTD: 4120 LTD: 4120  
MUD UP: 3400 TYPE MUD CHEM.  
SAMPLER: CASING SURFACE @ 441  
ELECTRICAL SURVEYS: DIL/ND/MICRO

DRILLING TIME KEPT FROM 3400' TO TD.  
SAMPLER EXAMINED FROM 3800' TO TD.  
GEOLOGICAL SUPERVISION FROM 3800' TO TD.  
GEOLOGIST ON WELL: 3800'-TD.

FORMATION TOPS	LOG	SAMPLES
ANHY.	1220-45 941	1222-47 939
HEEBNER	3544-1388	3538-1377
LKC.	3600-1439	3602-1441
BKC.	3898-1735	3897-1736
CHEROKEE SHALE	4016-1855	4016-1855
CHEROKEE SS	4026-1865	4026-1865
ARBuckle	4033-1872	4033-1872
RTD	4120-1959	4120-1959

REMARKS: Our main zone of interest here was the Cherokee - conglomerate sand. This is a sand deposited in a long shore bar. The Cherokee was very thin, almost missing here, tested and condemned. The Arbuckle was quite high here and very tight, probably due to erosion. All parties involved recommended that this well be plugged respectfully submitted *Jerry Green*

### LEGEND



DST #1  
4014- 40 26'  
Zones tested  
Congl - Arb.  
Blow: weak died  
Times 45-45.20  
FP 11-15  
SIP: 325#  
Rec. 10' mud  
no show