

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) (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	Bickle Energies LLC
Well Name	Ahrens 1
Doc ID	1280338

All Electric Logs Run

CNL/CDL
DUAL INDUCTION
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Bickle Energies LLC
Well Name	Ahrens 1
Doc ID	1280338

Tops

Name	Top	Datum
Anhydrite	2636	525
Base/Anhydrite	2661	500
Queen Hill	4008	-847
Heebner	4059	-898
Lansing	4103	-942
Muncie Creek	4248	-1087
Stark Shale	4333	-1172
Hushpuckney	4365	-1204
Base KC	4397	-1236
Marmaton	4433	-1272
Pawnee	4527	-1366
"Lower" Pawnee	4560	-1399
Ft. Scott	4585	-1424
Cherokee Shale	4613	-1452
Johnson Zone	4658	-1497
Morrow Sand	4712	-1551
Mississippian	4749	-1588
RTD	4825	-1664
LTD	4826	-1665





**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone:785-324-1041 fax:785-483-1087  
 Email: cementing@ruraltel.net

Date: 1/15/2016  
 Invoice # 1315

P.O.#:

Due Date: 2/14/2016

Division: Russell

# Invoice

**ENTERED**

**Contact:**  
 BICKLE ENERGY  
**Address/Job Location:**

PO Box 816  
 HAYS, KS 67601

**Reference:**  
 AHRENS 1

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 620.74	No				
Common-Class A	120	\$ 1,692.00	Yes				
Calcium Chloride	6	\$ 283.66	Yes				
POZ Mix-Standard	30	\$ 178.37	Yes				
Bulk Truck Matl-Material Service Charge	169	\$ 143.55	No				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 88.76	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 56.48	No				
Premium Gel (Bentonite)	3	\$ 41.48	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,105.06

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (77.63)

SubTotal for Taxable Items: \$ 2,140.63

SubTotal for Non-Taxable Items: \$ 886.80

Total: \$ 3,027.43

Tax: \$ 171.25

8.00% Logan County Sales Tax

**Amount Due: \$ 3,198.68**

**Applied Payments:**

**Balance Due: \$ 3,198.68**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1315

Date	1-15-16	Sec.	20	Twp.	12	Range	33	County	Logan	State	Ks	On Location		Finish	5:30 PM
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Location Monument, Ks - 7 1/2 S, E 1/4

Lease	Ahrens	Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	W.W.		10	Charge To	Boyle Energies
Type Job	Surface			Street	
Hole Size	12 1/4"	T.D.	218'	City	
Csg.	8 3/5"	Depth	218'	State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	150 80/100 3-2
Cement Left in Csg.	15'	Shoe Joint	15'		
Meas Line		Displace	12 3/4		

**EQUIPMENT**

Pumptrk	5	No.	Cementer	Common	120
			Helper	Poz. Mix	30
Bulktrk	14	No.	Driver	Gel.	3
			Driver	Calcium	6
Bulktrk	P.L.	No.	Driver		
			Driver		

**JOB SERVICES & REMARKS**

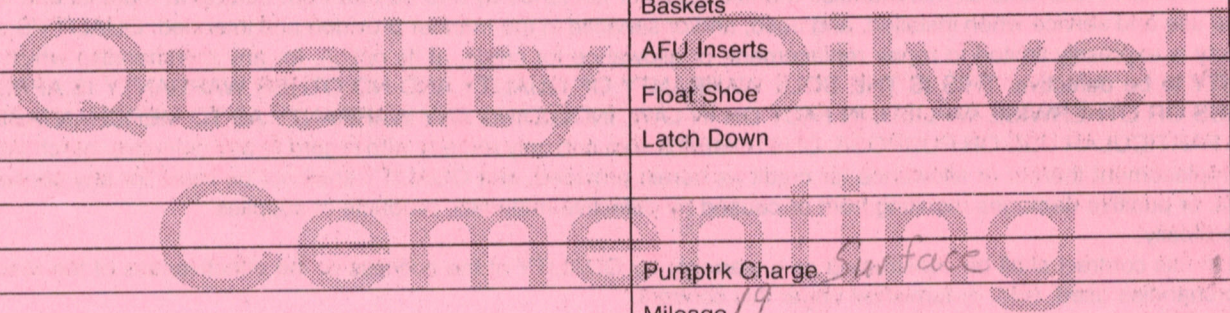
Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	154
		Mileage	

**FLOAT EQUIPMENT**

	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	

Pumptrk Charge Surface  
Mileage 19

X Signature	Tax	
	Discount	
	Total Charge	





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 1/21/2016  
 Invoice # 1316

P.O.#:  
 Due Date: 2/20/2016  
 Division: Russell

# Invoice

Contact:  
 BICKLE ENERGY  
 Address/Job Location:

PO Box 816  
 HAYS, KS 67601

**ENTERED**

Reference:  
 AHRENS 1

Description of Work:  
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	Yes				
Common-Class A	144	\$ 1,982.63	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 86.67	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 55.16	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 206.52	Yes				
POZ Mix-Standard	96	\$ 557.36	Yes				
Premium Gel (Bentonite)	9	\$ 121.53	Yes				

**Invoice Terms:**

Net 30

	SubTotal:	\$	3,761.98
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(94.05)
<hr/>			
	SubTotal for Taxable Items:	\$	3,667.93
	SubTotal for Non-Taxable Items:	\$	-
<hr/>			
	Total:	\$	3,667.93
	Tax:	\$	293.43
	<b>Amount Due:</b>	<b>\$</b>	<b>3,961.36</b>
	<b>Applied Payments:</b>		
	<b>Balance Due:</b>	<b>\$</b>	<b>3,961.36</b>

8.00% Logan County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1318

Date	1-21-16	Sec.	20	Twp.	12	Range	33	County	Logan	State	Ks	On Location		Finish	8:15 PM
								Location Monument Ks - 7 1/2 S, E114							

Lease	Ahrens	Well No.	1	Owner	To Quality Oilwell Cementing, Inc.
Contractor	WLD 10	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Plug				
Hole Size	7 7/8"	T.D.	4825'	Charge To	Bickle Energies
Csg.		Depth		Street	
Tbg. Size	4 1/2" DP	Depth	2650'	City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	240 60/40 4% Gel 1/4 HP 1/2 SS
Meas Line		Displace	H2O / mud		

**EQUIPMENT**

Pumptrk	18	No.	Cementor	Common	144
			Helper	Poz. Mix	96
Bulktrk	15	No.	Driver	Travis	9
			Driver	Dwight	
Bulktrk	10	No.	Driver	Calcium	
			Driver	Rick	

**JOB SERVICES & REMARKS**

Remarks:	2650' - 50 SX	Hulls	
Rat Hole	1610' - 100 SX	Salt	
Mouse Hole	270' - 50 SX	Flowseal	60 #
Centralizers	40' - 10 SX w/plug	Kol-Seal	
Baskets	Rathole - 30	Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	144
		Mileage	

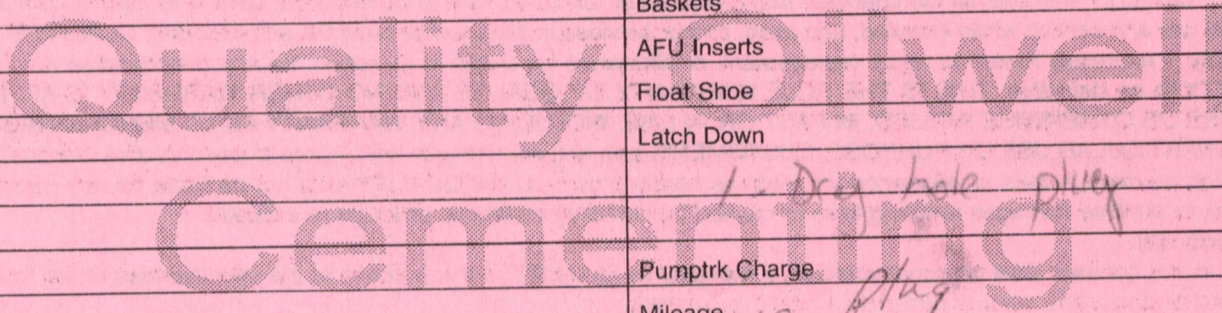
**FLOAT EQUIPMENT**

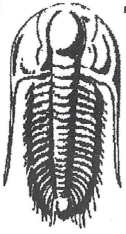
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

1 - Dry hole plug

Pumptrk Charge	
Mileage	19 plug
Tax	
Discount	
Total Charge	

X Signature *[Signature]*





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bickle Energies, LLC

20 12s 33w Logan, Ks

PO Box 816  
Hays, Ks 67601

Ahern #1

Job Ticket: 64636

DST#: 1

ATTN: Garet Dinkel

Test Start: 2016.01.20 @ 14:30:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:59:15

Time Test Ended: 23:05:45

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Bradley Walter**

Unit No: **69**

Interval: **4652.00 ft (KB) To 4725.00 ft (KB) (TVD)**

Total Depth: **4725.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3161.00 ft (KB)**

**3156.00 ft (CF)**

KB to GR/CF: **5.00 ft**

Serial #: **8522** Outside

Press@RunDepth: **408.06 psig @ 4653.00 ft (KB)**

Start Date: **2016.01.20**

End Date: **2016.01.20**

Capacity: **8000.00 psig**

Last Calib.: **2016.01.20**

Start Time: **14:30:00**

End Time: **23:05:45**

Time On Btm: **2016.01.20 @ 16:58:45**

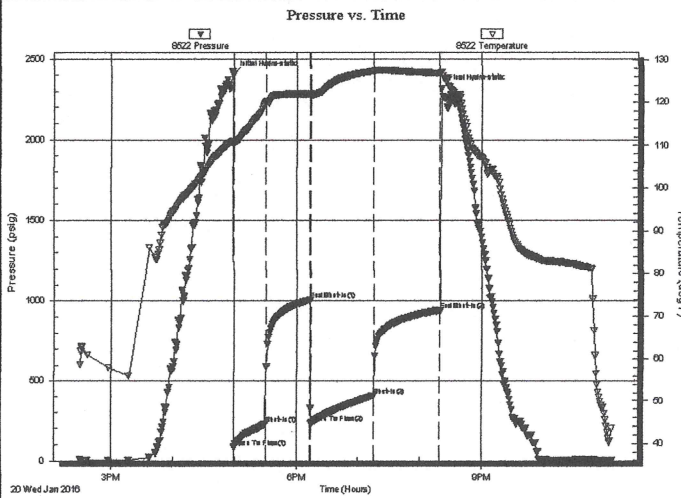
Time Off Btm: **2016.01.20 @ 20:20:45**

TEST COMMENT: **IF: BOB @ 10 minutes.**

**IS: No return.**

**FF: BOB @ 16 min.**

**FSI: No return.**



## PRESSURE SUMMARY

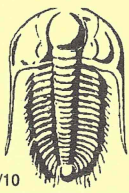
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2404.61	111.08	Initial Hydro-static
1	82.71	110.44	Open To Flow (1)
32	227.86	120.00	Shut-In(1)
75	1005.99	122.04	End Shut-In(1)
76	235.10	121.78	Open To Flow (2)
137	408.06	127.35	Shut-In(2)
201	942.95	126.87	End Shut-In(2)
202	2318.45	127.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
490.00	smcw 3m 97w (oil trace)	5.78
330.00	somcw 2o 30m 68w	4.63
10.00	oil 100o	0.14
0.00	45' GIP	0.00

## Gas Rates

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64636

Well Name & No. Ahern # 1 Test No. 1 Date 1/20/2016  
 Company Buckle Energies, LLC Elevation 3161 KB 3156 GL  
 Address 20 Box 816 Hays, Ks 67601  
 Co. Rep / Geo. Garet Dinkel Rig WW # 10  
 Location: Sec. 20 Twp. 12s Rge. 33w Co. Logan State KS

Interval Tested 4652 - 4725 Zone Tested Johnson  
 Anchor Length 73 Drill Pipe Run 4520 Mud Wt. 9.4  
 Top Packer Depth 4647 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 4652 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4725 Chlorides 3500 ppm System LCM 1 #

Blow Description JF: BOD @ 10 min.  
JSJ: No return.  
FF: BOD @ 16 min.  
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OIL</u>	<u>100</u>			
<u>330</u>	<u>50mcw</u>	<u>2</u>	<u>68</u>	<u>30</u>	
<u>490</u>	<u>5mcw Trace OIL</u>		<u>97</u>	<u>3</u>	
	<u>45' GJP</u>				

Rec Total 830 BHT 127 Gravity - API RW 1488 @ 50 °F Chlorides 19,000 ppm

(A) Initial Hydrostatic <u>2405</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>11.40</u>
(B) First Initial Flow <u>83</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>1430</u>
(C) First Final Flow <u>228</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1658</u>
(D) Initial Shut-In <u>1006</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2013</u>
(E) Second Initial Flow <u>235</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2306</u>
(F) Second Final Flow <u>408</u>	<input checked="" type="checkbox"/> Mileage <u>98 RT</u>	Comments
(G) Final Shut-In <u>943</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2318</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total	

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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.

Serial #: 8522

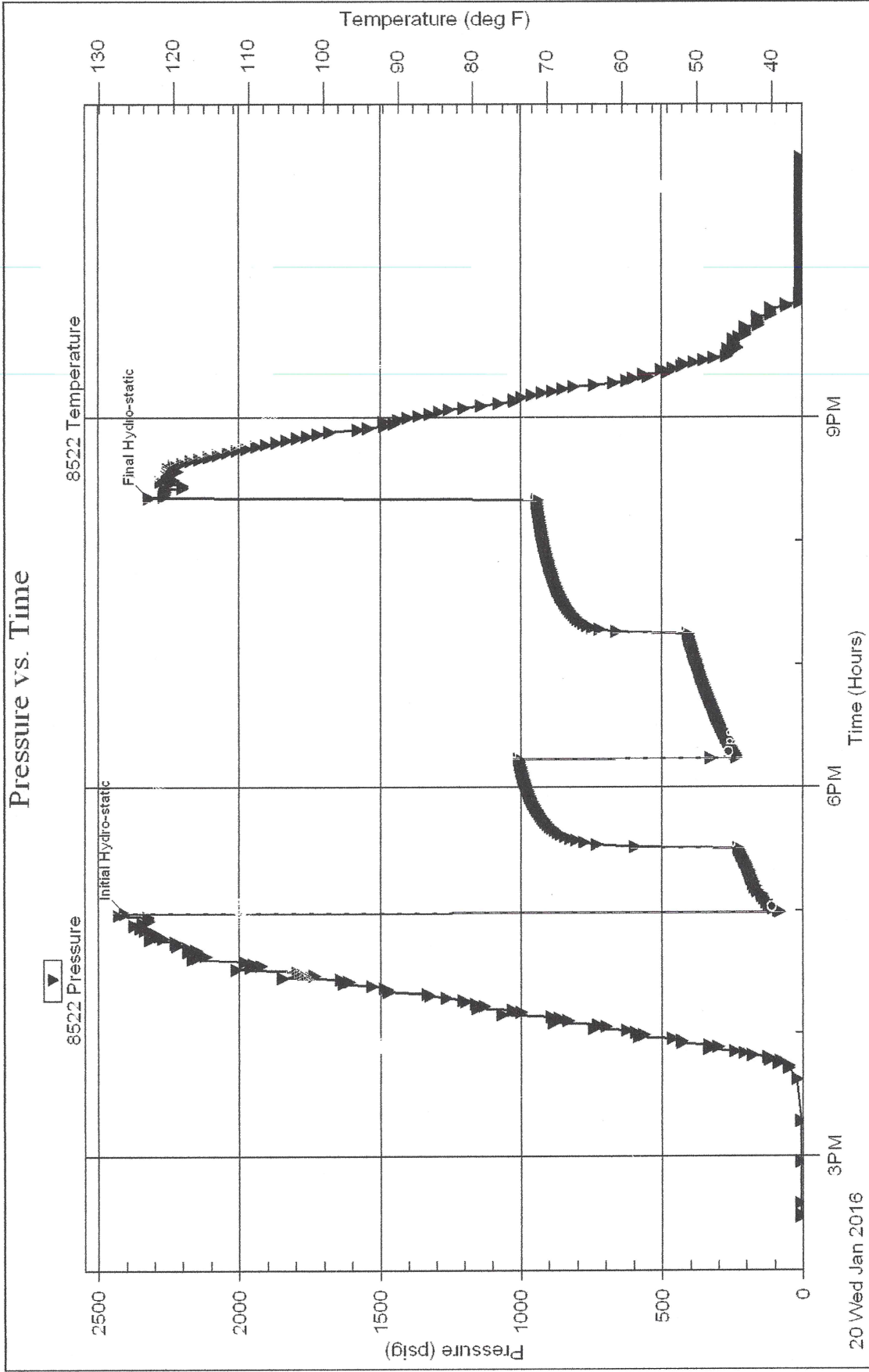
Outside

Bickle Energies, LLC

Ahern #1

DST Test Number: 1

### Pressure vs. Time



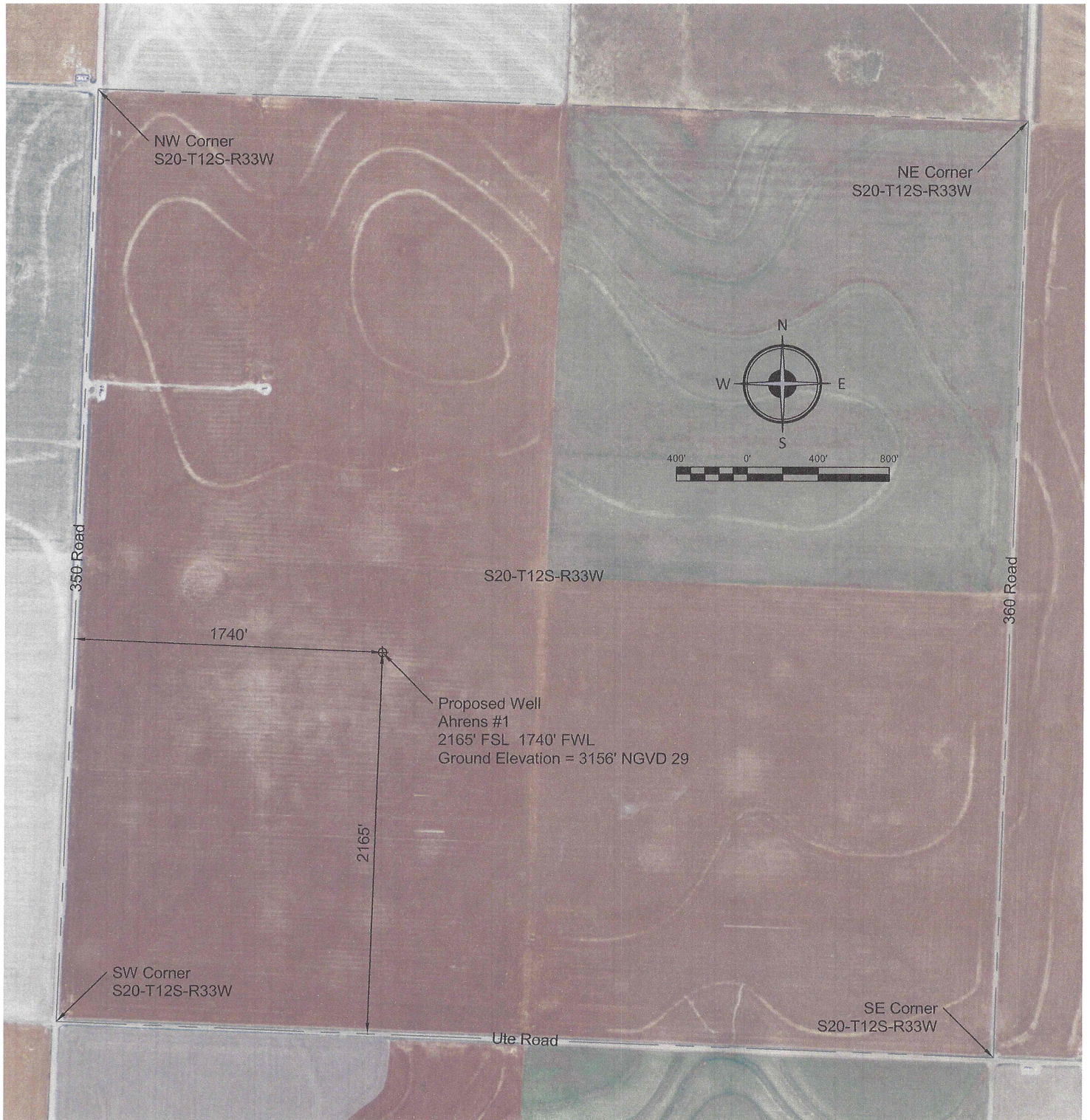
Trilobite Testing, Inc

Ref. No: 64636

Printed: 2016.01.20 @ 23:24:15

# STAKE OIL WELL

Ahrens #1 in the Southwest Quarter of Section 20, Township 12 South, Range 33 West  
Logan County, Kansas



## SURVEY NOTES:

1. Elevation based on USGS 7.5 minute quad map titled "RUSSELL SPRINGS NE". Elevations are on the NGVD 1929 datum.
2. Staked coordinates of proposed well Ahrens #1 (NAD83): Latitude = N38°59'40.92" Longitude = W101°00'41.97"

Bickle Energies LLC  
Matt Bickle, President

## DRIGGS DESIGN GROUP, PA

Surveying Engineering Planning

James Meis, PS 1533  
203 E 7th, Suite D, Hays, Kansas 67601  
jmeis@driggsdesign.com (785) 650-9864

Project No: 2015-097  
Date: 01-01-2016  
Scale: 1" = 800'  
Sheet No: 1 of 1  
Drawn By: JM



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

Well Name: Ahrens #1
API: 15-109-21453
Location: SE-10W-NE-5W of Section 20-12s-33w - Logan County, KS
License Number: KCC Licence#: 34917
Spud Date: 1/15/2016
Surface Coordinates: 2165' FSL & 1740' FWL of Section 20-12s-33w
Bottom Hole: Same as Surface Coordinates
Coordinates:
Ground Elevation (ft): 3156' K.B. Elevation (ft): 3161'
Logged Interval (ft): 3800' To: 4826' Total Depth (ft): 4826'
Formation: Mississippian @ Total Depth
Drilling Region: Mid-Continent
Completed: 1/21/2016
Type of Drilling Fluid: Mud-Co. (Chemical Deep)
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Bickle Energies, LLC
Address: P.O. BOX 816 HAYS, KS 67601

GEOLOGIST

Name: Garett Dinkel, Consulting Petroleum Geologist
Company: PETERRA Energy Services
Address: 110 South Main, Suite #510 Wichita, KS 67202
Phone: (785) 623-1009

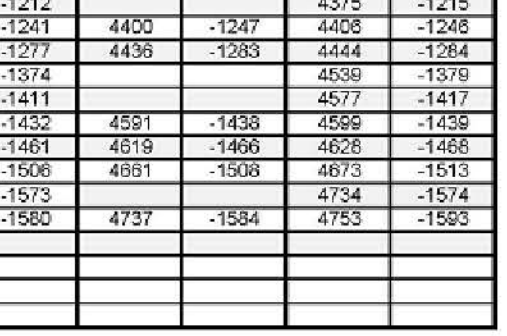
Comments

This well ran structurally low on all known productive horizons to the Bertrand #1 (north key well) through the Lansing/Kansas City section. Once the Johnson Zone was reached, this well was structurally "flat" to that key well. Minor shows were noted in the Johnson Zone and they were subsequently tested with the Morrow Sand. As a result of the negative results obtained from that test, and the subsequent poor electric log calculations, it was decided that both, the Johnson Zone & Morrow Sand were non-commercial.

Respectfully submitted,
PETERRA Energy Services
Garett Dinkel, Petroleum Geologist
Jeffrey A. Burk, Petroleum Geologist

ROCK TYPES legend including Anhydrite, Bentonite, Breccia, Chert, Claystone, Coal, Dolomite, Gypsum, Igneous, Limestone, Metasandstone, Mica, Miltstone, Sandstone, Shale, Shaly, Silty, Siltstone, Sandstone, Shale, Tuff

Operator: Bickle Energies, LLC
Well Name: Ahrens #1
API #: 15-109-21453
Location: SE-10W-NE-5W
County: Logan
State: Kansas
Elevation: 3156' GEL, 3161' KB
SAMPLE TOPS table with columns for Formation, Depth, Datum, and well names Bertrand #1, Ahrens #1, Colwell #1, and Colwell #2.



REFERENCE WELLS - E-LOG TOPS table with columns for Formation, Bertrand #1, Ahrens #1, Bertrand #2, Bertrand #3, Colwell #1, and Colwell #2.

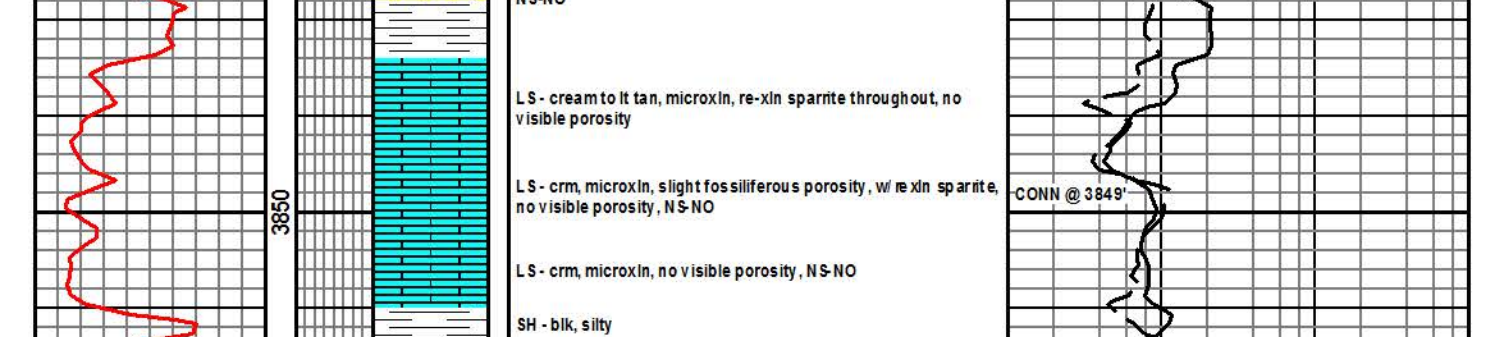
COMMENTS:
Jeffrey A. Burk
Consulting Petroleum Geologist

DRILL STEM TEST REPORT
Bickle Energies, LLC
20 12s 33w Logan, Ks
Ahrens #1
Job Ticket: 64838
DST#:1
Test Start: 2016.01.20 @ 14:30:00

GENERAL INFORMATION
Formation: Johnson
Deviated: No
Time Tool Opened: 16:60:15
Time Test Ended: 23:05:45
Interval: 4652.00 ft (KB) To 4725.00 ft (KB) (TVD)
Total Depth: 4725.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Serial #: 8522
Process Run Depth: 408.06 psi @ 2016.01.20
Start Date: 14:30:00
End Date: 20:16:01.20
Capacity: 8000.00 piig
Last Calc: 2016.01.20
Time On Burn: 2016.01.20 @ 16:58:45
Time Off Burn: 2016.01.20 @ 20:29:45

TEST COMMENT: F: BOB @ 10 minutes.
SI: No return.
FF: BOB @ 16 min.
RIS: No return.



Recovery and Gas Rates tables. Recovery table shows length, interval, and core recovery. Gas Rates table shows gas flow in scf/d.

Curve Track 1
ROP (in/ft)
Gamma (API)
Depth (ft)
Porosity (%)
Lithology
Geological Descriptions
TG, C1-C5

