



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1273225

Form ACO-1  
August 2013

**Form must be Typed**  
**Form must be Signed**  
**All blanks must be Filled**

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD
- Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_
- Dual Completion Permit #: \_\_\_\_\_
- SWD Permit #: \_\_\_\_\_
- ENHR Permit #: \_\_\_\_\_
- GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Feet from  North /  South Line of Section

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1273225

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Bickle Energies LLC
Well Name	Younkin RDC 1
Doc ID	1273225

Tops

Name	Top	Datum
Anhydrite Top	2510	489
Anhydrite Base	2534	465
Queen Hill Shale	3913	-914
Heebner Shale	3964	-965
Lansing	4007	-1008
Muncie Creek	4147	-1148
Stark Shale	4230	-1231
Hushpuckney	4265	-1266
BKC	4297	-1298
Marmaton	4333	-1434
Pawnee Lime	4433	-1434
Lower Pawnee	4460	-1461
Ft. Scott	4485	-1486
Cherokee Shale	4511	-1512
Johnson	4555	-1556
Mississippian	4593	-1594



# 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. 1929

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-25-15	21	12	32	Logan	KS		10:30 am
Lease				Well No. 1		Owner	
Contractor				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.	
Type Job				Charge To		Street	
Hole Size				T.D.		City	
Csg.				Depth		State	
Tbg. Size				Depth		City	
Tool				Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.				Shoe Joint		Cement Amount Ordered	
Meas Line				Displace			
<b>EQUIPMENT</b>				Common			
Pumptrk	No.	Cementer		Poz. Mix			
Bulktrk	No.	Helper		Gel.			
Bulktrk	No.	Driver		Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
8 5/8 on bottom fish				Handling			
M.V. 120215				Mileage			
<b>FLOAT EQUIPMENT</b>				Guide Shoe			
Cement Coolant?				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
						Tax	
						Discount	
						Total Charge	
X Signature				Surface			

# 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. 1935

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-4-15	21	12	32	Logan	KS		1:50 PM
Lease				Well No.		Owner	
Yankin RDC				1		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				Type Job		Charge To	
W.W.#10				Bottom		Bickle Finishes	
Hole Size				T.D.		Street	
7 7/8				4025			
Csg.				Depth		City	
5 1/2 17#				4674		State	
Tbg. Size				Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
D.V. Tool				2542			
Cement Left in Csg.				Shoe Joint		Cement Amount Ordered	
22.17				22.17		150 Q-Pro-C 10/1 Salt	
Meas Line				Displace		5/6 6000 1/4# Flo 5000 gal mud clear	
<b>EQUIPMENT</b>						Common	
Pumptrk				No. Cementer		Poz. Mix	
5				1			
Bulktrk				No. Driver		Gel.	
9				1			
Bulktrk				No. Driver		Calcium	
19				1			
<b>JOB SERVICES &amp; REMARKS</b>						Hulls	
Remarks:						Salt	
Rat Hole						Flowseal	
Mouse Hole						Kol-Seal	
Centralizers						Mud CLR 48	
Baskets						CFL-117 or CD110 CAF 38	
D/V or Port Collar						Sand	
5 1/2 SPAC 4070 2110 465/8						Handling	
E.P. Cement Pump 5000 gal						Mileage	
Cement 5 1/2 with 1505K						<b>FLOAT EQUIPMENT</b>	
Cement 1505K 1500#						Guide Shoe	
Rings 1500#						Centralizer 11 Turbo's	
Reference Pressure Data						Baskets 4	
S.S. Holes 4500 gal						AFU Inserts D.V. Tool	
5 1/2 17#						Float Shoe 1	
9 BC with 1/4" dia						Latch Down 1	
Drop Down 1/4" Tool & Cement							
						Pumptrk Charge	
						Mileage	
						Tax	
						Discount	
						Total Charge	
X Signature							
[Signature]							

1st Stage

# 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. 1936

Date	12 4 15	Sec.	21	Twp.	12	Range	32	County	Logan	State	KS	On Location		Finish	6:00 AM
Lease								Well No. 1		Location					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size								Charge To		RICK FERRIS					
Csg.								Depth		Street					
Tbg. Size								Depth		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 450 80/20 QUIDC 1/4" Flt					
Meas Line								Displace							
<b>EQUIPMENT</b>								Common							
Pumptrk 5 No. Cementer								Poz. Mix							
Bulktrk No. Helper								Gel.							
Bulktrk 19 No. Driver								Calcium							
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
DO Tool 2045								Handling							
Displace Plug								Mileage							
<b>FLOAT EQUIPMENT</b>															
Cement Circulated								Guide Shoe							
Plug landed @ 1800'								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature								2nd Stage							



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bickle Energies, LLC

**S21-12s-32w Logan/KS**

2052 250th Ave.  
Hays, KS 67601

**Younkin RDC #1**

Job Ticket: 64618

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2015.12.02 @ 13:00:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:25:00

Time Test Ended: 22:27:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 61

**Interval: 4544.00 ft (KB) To 4580.00 ft (KB) (TVD)**

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8357 Inside**

Press @ Run Depth: 65.12 psig @ 4548.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.12.02

End Date:

2015.12.02

Last Calib.: 2015.12.02

Start Time: 13:00:02

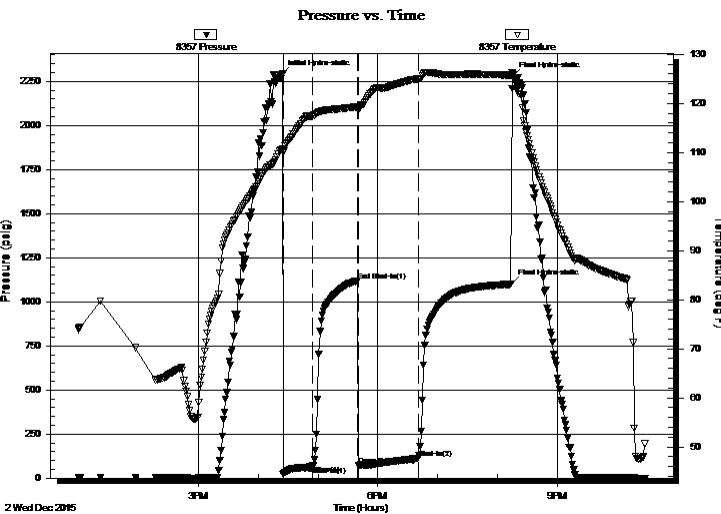
End Time:

22:27:49

Time On Btm: 2015.12.02 @ 16:23:40

Time Off Btm: 2015.12.02 @ 20:13:30

**TEST COMMENT:** 30- B.O.B. @ 19 min.  
45- 1" Return.  
60- B.O.B. @ 15 min.  
90- 5" Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.13	110.59	Initial Hydro-static
2	23.14	109.92	Open To Flow (1)
31	65.12	117.30	Shut-In(1)
76	1118.86	119.28	End Shut-In(1)
77	70.74	118.88	Open To Flow (2)
137	113.09	124.98	Shut-In(2)
230	1099.72	125.75	Final Hydro-static
232	2279.83	126.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 23 @ 30 Degrees F = 26.	0.00
120.00	GOCM 30g 25o 45m	1.68
140.00	GMCO 20g 25m 55o	0.69
0.00	740' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bickle Energies, LLC

**S21-12s-32w Logan/KS**

2052 250th Ave.  
Hays, KS 67601

**Younkin RDC #1**

Job Ticket: 64618

**DST#: 1**

ATTN: Jeff Burk

Test Start: 2015.12.02 @ 13:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	API: 23 @ 30 Degrees F = 26.	0.000
120.00	GOCM 30g 25o 45m	1.683
140.00	GMCO 20g 25m 55o	0.688
0.00	740' GIP	0.000

Total Length: 260.00 ft

Total Volume: 2.371 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

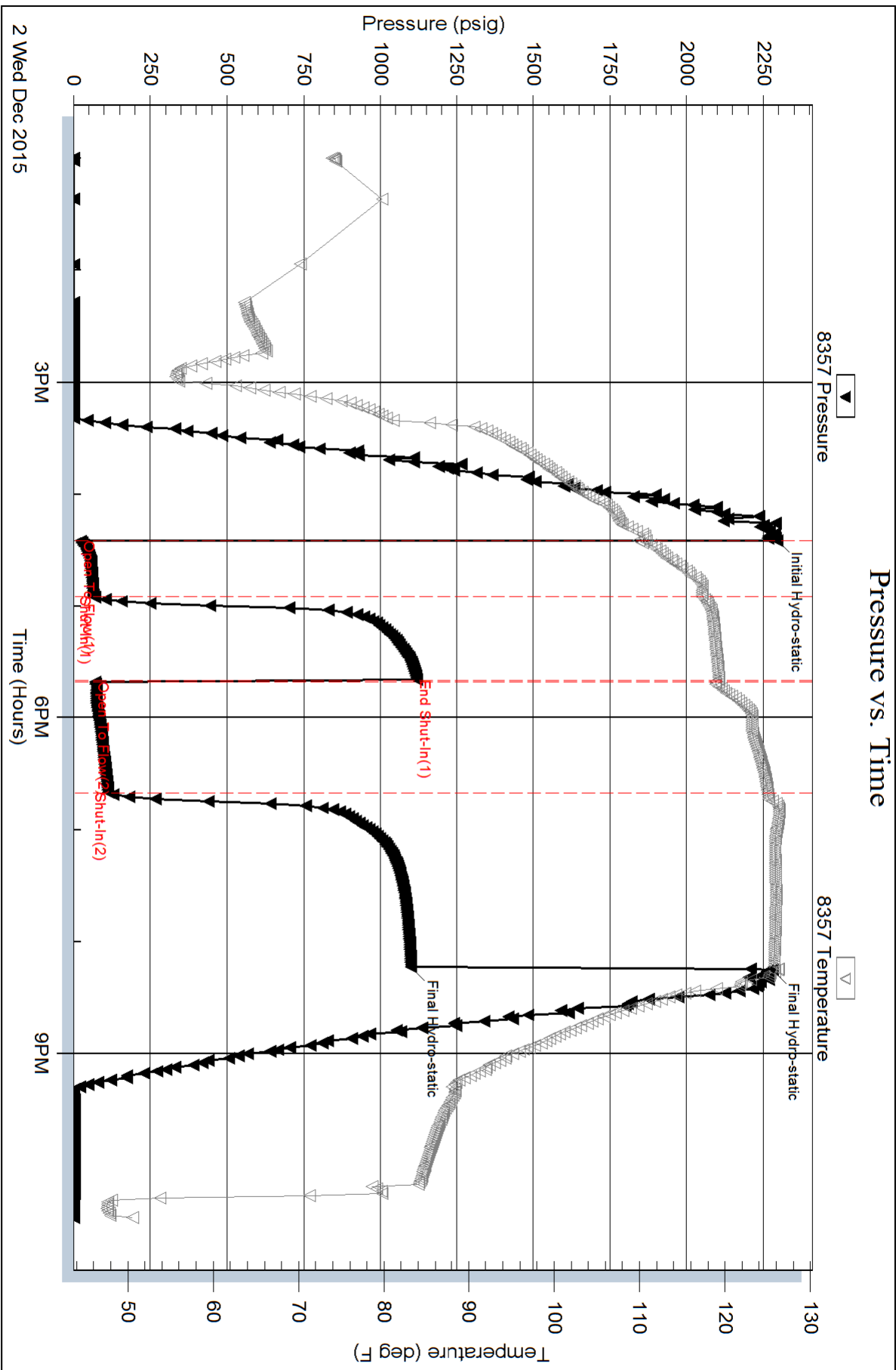
Serial #: 8357

Inside

Bickle Energies, LLC

Younkin RDC #1

DST Test Number: 1





PETERRA ENERGY SERVICE CONSULTING FROM PROSPECT TO PRODUCE

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

Well Name: Younkun RDC #1
API: 15-109-21444
Location: SE-SW-NE-SE of Section 21-12s-37w - Logan County, KS
License Number: KCC Licence#: 34917
Spud Date: 11/30/2015
Region: Mid-Continent
Surface Coordinates: 380' FNL & 23801' FWL of Section 21-12s-37w
Drilling Completed: 12/4/2015

Bottom Hole Coordinates: Same as Surface Coordinates
Ground Elevation (ft): 2994'
K.B. Elevation (ft): 2999'
Logged Interval (ft): 3600' To: 4676' Total Depth (ft): 4676'

Formation: Mississippian @ Total Depth
Mississippian @ Total Depth
Mississippian @ Total Depth
Mississippian @ Total Depth

Type of Drilling Fluid: Kansas Drilling Technologies (Chemical Drispac)
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

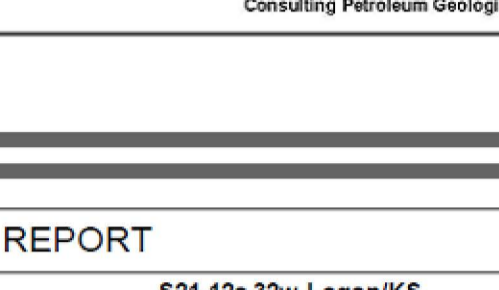
OPERATOR

Company: Bickie Energies, LLC
Address: 2052 250th AVE
HAYS, KS 67601

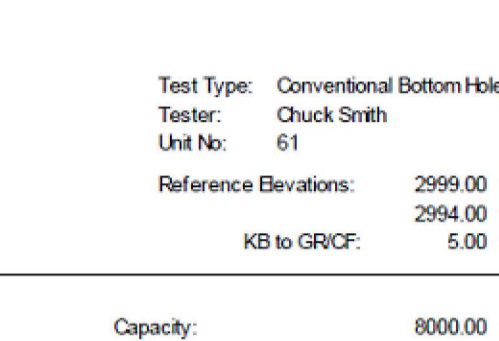
GEOLOGIST

Name: Garet Dinkel & Jeffrey Burk
Company: PETERRA Energy Services
Address: 110 South Main, Suite #510
Wichita, KS 67202
Phone: (316) 269-2015

Operator: Bickie Energies, LLC
Well Name: Younkun RDC #1
API #: 15-109-21444
Location: SE - NE - NW of 21-12s-37w
County: Logan
State: Kansas
Elevation: 2994 GL 3001 KB



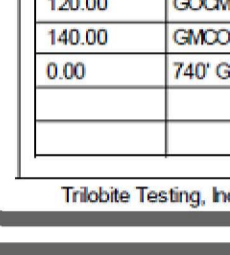
LOG TOPS table with columns: Formation, Depth, Datum. Includes layers like Anhydrite Top, Anhydrite Base, Queen Hill Shale, Heebner Shale, Lansing, Munroe Creek, Stark Shale, Hushpuckney Shale, Base Kansas City, Marmaton, Pawnee Lime, Lower Pawnee Lime, Ft Scott Lime, Cherokee Shale, Johnson Zone, Mississippian.



REFERENCE WELLS- E-LOG TOPS

Table comparing E-Log Tops for Younkun RDC #1, Younkun #3, Younkun 21 A, and Sheels #1 across various formations.

COMMENTS: Due to positive results in Drill Stem Test #1, in the Johnson Zone, it is recommended to set production casing to further evaluate the zone.



DRILL STEM TEST REPORT

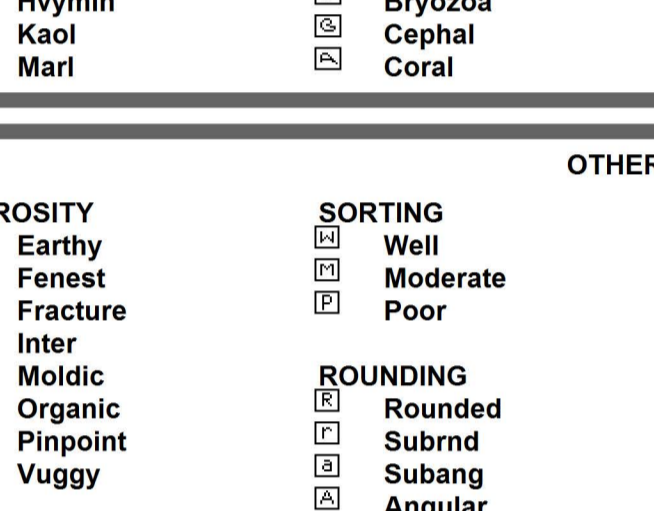
Well Name: Younkun RDC #1
Job Ticket: 64618
DST#: 1
Test Start: 2015.12.02 @ 13:00:00

GENERAL INFORMATION: Formation: Johnson
Whipstock: No
Time Tool Opened: 16:25:00
Time Test Ended: 22:27:49

Interval: 4544.00 ft (KB) To: 4580.00 ft (KB) (TVD)
Total Depth: 4580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches

Serial #: 8357
Press@RunDepth: 65.12 psig @ 4548.00 ft (KB)
Start Date: 2015.12.02
Start Time: 13:00:02

TEST COMMENT: 30- B.O.B. @ 19 min.
45- 1" Return.
60- B.O.B. @ 15 min.
90- 5" Return.



PRESSURE SUMMARY table with columns: Time (Min.), Pressure (psig), Temp (deg F), Initial Hydro-static, Open to Flow, Shut-In, etc.

Recovery table with columns: Length (ft), Description, Volume (bbl)

Gas Rates table with columns: Choke (inches), Pressure (psig), Gas Rate (Mscf/D)

COMMENTS:

Due to the positive log evaluations and pressure results encountered on DST #1 (Johnson Zone), the subsequent positive electric log evaluations, it was decided to run production casing to further evaluate this test interval.
In addition to the above recommendations, slight shows were noted (not tested) in the following intervals: 4195'-4197' & 4213'-4216'. Although the shows were minor, they should be evaluated prior to abandonment.

PETERRA Energy Services
Jeffrey A. Burk, Petroleum Geologist
Production casing (5 1/2" - 17#) was set @ a depth of 4674' and the 1st stage was cemented with 150 sxs. A DV tool was also run @ 2542' and it was cemented to the surface with 420 sxs. (12/04/15 - Quality Cementing)

ROCK TYPES legend including Anhy, Bent, Brecc, Cht, Clyst, Coal, Congl, Silt, Gyp, Igne, Lmet, Meta, Mrlst, Salt, Shale, Schol, Shst, Silst, Ss, TIII

ACCESSORIES legend including MINERAL (Anhy, Arg, Argbrn, Bit, Breccfrag, Calc, Carb, Chtkd, Chttk, Dol, Feldspar, Ferpel, Ferr, Glau, Gyp, Hymin, Kaol, Marl), MINERAL Nodule (Minxl, Nodule, Pyf, Sait, Sandy, Silt, Sil, Sulphur, Tuff), FOSSIL (Fossil, Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephala, Coral), Crin, Echin, Foram, Fossil, Gasst, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, STRINGER (Anhy, Arg, Bent, Coal, Dol)

OTHER SYMBOLS legend including POROSITY (Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy), SORTING (Well, Moderate, Poor), ROUNDING (Rounded, Subrnd, Subang, Angular), OIL SHOW (EVEN, Shown, Spotted, Ques, Dead, Gas show, New symbol), INTERVAL (Core), EVENT (Dst, pipesymbol, Rft, Sidewall)

