



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1309776
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: _____

1309776

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)*

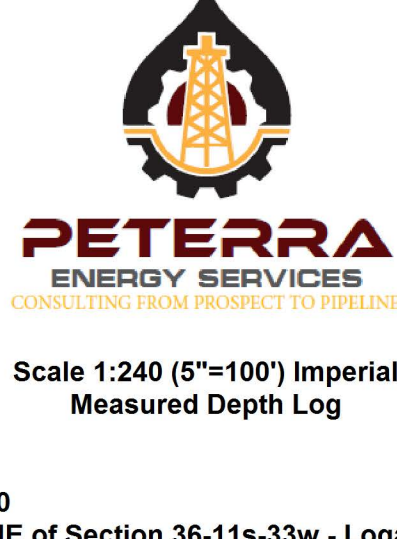
| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |

| | | | | |
|----------------|-------|---------|------------|---|
| 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: _____ _____ |
|--|--|---|



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

Well Name: Willie Z-1
API: 15-109-21460
Location: SW-NE-SE-NE of Section 36-11s-33w - Logan County, KS
License Number: KCC Licence#: 34917
Region: Loganberry North
Spud Date: 4/26/2016
Drilling Completed: 5/04/2016
Surface Coordinates: 1870' FNL & 535' FEL
of Section 36-11s-33w
Bottom Hole: Same as Surface Coordinates
Coordinates:
Ground Elevation (ft): 3080' **K.B. Elevation (ft):** 3090'
Logged Interval (ft): 200' **To:** 4734' **Total Depth (ft):** 4734'
Formation: 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: Bickle Energies, LLC
Address: Attn: Matt Bickle
 P.O. BOX 816
 HAYS, KS 67601

GEOLOGIST

Name: Garett Dinkel, Eli Felts, Consulting Petroleum Geologists, Cole Robben, Geo-Tech
Company: PETERRA Energy Services
Address: 110 South Main, Suite #510
 Wichita, KS 67202
Phone: (316) 269-2015

Drilling Report

Southwind Rig 8 MIRU 4/26/2016
 Ran (6) jts. of new 23# 8.625" casing, tallied @ 230.67" Set @ 242.67"
 Cemented w/ 170 sxs of 80/20 3% cc 2% gel. cement circulated to surface. Quality Cement ticket # 1958. Plug down @ 11:30 pm, 4/26/16

- 4/27: Drilling, 242' - 1963'
- 4/28: Drilling, 1963' - 3035'
- 4/29: Drilling, 3035' - 3608'
- 4/30: Drilling, 3608' - 4060'
- 5/01: Drilling, 4060' - 4170' & DST #1
- 5/02: Drilling, 4170' - 4540'
- 5/03: Drilling, 4540' - 4730' RTD
- 5/04: Logging, Plug well, LDDP
- 5/05: Tear Down

Comments

After evaluating the Willie Z-1 rock samples, drill stem testing the Lansing "E" zone, and evaluation of the electronic logs, favorable results were not acquired. It was decided by all parties involved to plug and abandon the test.

Peterrally Submitted,

PETERRA Energy Services
 Eli J. Felts & Garett Dinkel, Petroleum Geologists

ROCK TYPES

| | | | |
|-----------|-------|-------|-------|
| Anhy Bent | Coal | Lmst | Shcol |
| Brec | Congl | Meta | Shgy |
| Cht | Dol | Mrst | Slst |
| Clyst | Gyp | Salt | Ss |
| | Igne | Shale | Till |

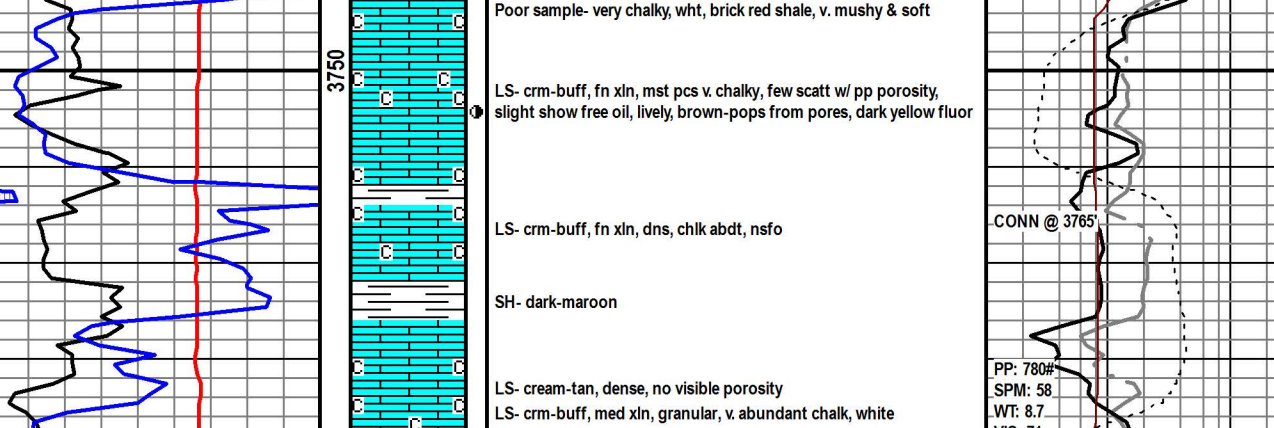
DRILL STEM TEST REPORT
 Bickle Energies, LLC 36 11s 33w Logan KS
 Willie Z #1
 Job Ticket #6463 DST# 1
 ATTN: Carol Diney/ Eli Felts Test Start: 2016.05.01 @ 17:04:00

GENERAL INFORMATION:

| | | |
|--|------------|--|
| Formation: LKC E | ft (KB) | Test Type: Conventional Bottom Hole (Hole) |
| Deviated: No | Whalestock | Tester: Bradley Walter |
| Time Tool Opened: 21:54:00 | | Unit No: 69 |
| Time Test Ended: 03:08:30 | | Reference Elevations: 3000.00 ft (FSL) |
| Interval: 4140.00 ft (999) To 4165.00 ft (998) (TVD) | | 3000.00 ft (CF) |
| Total Depth: 4165.00 ft (KB) (TVD) | | KB to GRIPC: 10.00 ft |
| Hole Diameter: 7.68 inches/Hole Condition: Good | | |

TEST COMMENT: F# 808 @ 3 min. S# 100 return. FC# 808 @ 4 min. FSI# 808 return.

| | | |
|----------------------------|--|-------------------------------------|
| Serial #: 8365 | Ins. size: 7.09 5/8 psig @ 4141.00 ft (KB) | Capacity: 6000.00 psig |
| Press@RunDepth: 2016.05.01 | End Date: 2016.05.02 | Last Calls: 2016.05.02 |
| Start Time: 17:04:05 | End Time: 03:08:30 | Time On BHM: 2016.05.01 @ 19:19:16 |
| | | Time Off BHM: 2016.05.02 @ 02:23:30 |



Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--|--------------|
| 1480.00 | smow 5m95w (oil spots on top of in tool) | 20.76 |

Gas Rates

| Choke (Inches) | Pressure (psig) | Gas Rate (cf/d) |
|----------------|-----------------|-----------------|
|----------------|-----------------|-----------------|

| | | | |
|---|--|---------------------------------------|---|
| <p>Curve Track 1</p> <p>ROP (min/ft) Gas (units) Gamma (API)</p> | <p>Lithology</p> | <p>Geological Descriptions</p> | <p>TG, C1-C5</p> <p>C1 (units) ———</p> <p>C2 (units) ———</p> <p>C3 (units) - - - -</p> <p>C4 (units)</p> <p>C5 (units) - - - - -</p> |
| | | | <p>DRILLER PICKS</p> <p>2802 (+488) ANHYDRITE TOP 2828 (+486) ANHYDRITE BASE</p> <p>Displacement Depth 376' - Mud system provided by Kansas Drilling Technologies; Ken Rupp, Engineer</p> <p>Kept (W & Dry) From 3807-4730' - Geologists on location @ 3807' - Location severely muddy, cool & rainy</p> |
| <p>TOPEKA 3802' (-712')</p> <p>HEBNER 4022' (-433')</p> <p>LANSING 4071' (-817')</p> <p>MUNCIE CREEK 4218' (-1126')</p> <p>STARK SHALE 4284' (-1204')</p> <p>HUSHUCKNEY 4332' (-1242')</p> <p>BKC 4365' (-1276')</p> <p>MARMATON 4415' (-1325')</p> <p>PAWNEE 4502' (-1412')</p> <p>FT. SCOTT 4532' (-1442')</p> <p>CU. CHEROKEE 4552' (-1462')</p> <p>FL. CHEROKEE 4589' (-1489')</p> <p>MORROW 4655' (-1575')</p> <p>MISSISSIPPIAN 4686' (-1596')</p> <p>RTD 4730' (-1640')</p> <p>LTD 4734' (-1644')</p> | <p>SS- clear grains, qtz, fine grains, sub angular, dirty matrix, glauc ind</p> <p>SH- dark gry. v. dense, chky white on edges</p> <p>SH- aa, few pieces w/ pyritic banding</p> <p>LS- dark gry. dense</p> <p>LS- cream, fine-med xtn, w/ sandy texture, foss in most, some chaly pcs</p> <p>LS- very similar as above, sandy tst</p> <p>SH- mushy gry, went wash from sample</p> <p>LS- cream, fine xtn & granular, fossiliferous w/ re-xtn fractures in few, some mineral staining</p> <p>LS- cream-tan, med xtn & granular, glauc in part, slight chaly, sl. show free oil, lt brown golden, sl cingy, no odor, no gas kick, v. faint-weak floor</p> <p>LS- crm-It tan, granular, sl sandy in some, foss in many, abdt chnk</p> <p>Poor sample- very chaly, wht, brick red shale, v. mushy & soft</p> <p>LS- crm-buff, fn xtn, mat pcs v. chaly, few scatt w/ pp porosity, slight show free oil, livly, brown-pops from pores, dark yellow floor</p> <p>LS- crm-buff, fn xtn, dns, chk abdt, nsfo</p> <p>SH- dark-maeson</p> <p>LS- cream-tan, dense, no visible porosity</p> <p>LS- crm-buff, med xtn, granular, v. abundant chalk, white</p> <p>LS- crm-buff, fn-med xtn, v. foss, dense overall</p> <p>LS- crm-It gry, fn xtn, highly foss, mat dns, few wf fracs</p> <p>LS- most as above, interfoos porosity, re-xtn fracs & mineral stain</p> <p>LS- cream, fine xtn, smooth texture, sub-lithographic</p> <p>LS- cream-buff, fine xtn, v. foss, few pieces w/ gils stain</p> <p>LS- lt brown, med xtn, granular</p> <p>LS- cream-It tan, fine xtn, granular in some, sl foss, few pcs gry-sandy</p> <p>LS- cream-brown, coarse xtn in most, heavy foss tature, crinoids/hoods, few pcs cherty</p> <p>LS- lt brown, fine-med xtn, granular, sl. foss, abundant chalk throughout</p> <p>LS- cream, med xtn, sl. foss texture</p> <p>LS- cream, fine-med xtn, granular, lithographic</p> <p>LS- cream-white, most as above, few fossiliferous, some pcs sandy w/ overall granular texture</p> <p>SH- blk, carbonaceous, very dense</p> <p>LS- lt tan, fine xtn, few pcs gry-grn glauc siltstone</p> <p>LS- tan, med xtn, sl. granular, some ool to pelletal</p> <p>LS- lt, med xtn, sl. gran, w/ lt grn-brown siltstone, chaly throughout</p> <p>LS- white, fine xtn, pg-puggy porosity, chaly, fair-good show free oil, only found in (1) piece, dirt, bubbles, no odor</p> <p>LS- as above, wht, fine xtn, pp- granular, chaly oil show less livly than above</p> <p>LS- cream-It tan, med xtn, most granular texture, most chaly</p> <p>LS- cream-It tan, platy, sub lithographic, chaly in part</p> <p>Shale- black, carbonaceous, fissile shale</p> <p>LS- cream-It gry, med xtn, foss in part, ool-pelatal, sparite cement, varicolored oolites</p> <p>LS- tan, med xtn, heavy foss tate, oolitic, abndt Sandstone, brown, green, sub-rounded, poorly sorted, well cemented, scatt pyritic inclusions</p> <p>SH- dk gry-bk, carbonaceous, bleeds gas</p> <p>LS- lt gry-tan, fn xtn, foss & re-xtn foss, ool frags</p> <p>SH- gry, v. mush- non sticky, washes in sample</p> <p>Chalk- white</p> <p>LS- wht- cream, v. chaly, few scatt Siltstone - red brick</p> <p>LS- crm- It brown, med xtn, heavy ool-oostatic porosity abundant chalk, mineral stain throughout</p> <p>LS- crm-tan, few pieces foss, aa, med xtn, mat pieces lithographic, scatt chalk</p> <p>SH- red, siltstone, mushy</p> <p>LS- cream, med xtn, granular to sandy, foss & re-xtn foss, scattered chalk</p> <p>LS- cream, med xtn, chaly, few scattered stain, no show free oil</p> <p>LS- cream to white, med xtn, platy</p> <p>LS- cream to lt tan, fine-med xtn, few w/ gran tst, mat chaly foss in some, no visible porosity</p> <p>LS- wht, fn xtn, faint to oogy, w/ irregular re-xtn, chaly in part, heavy oil, fair show free oil, sub-porous in parts, fair show, light, stringy cut</p> <p>LS- white, v. chaly, soft break, few vis foss</p> <p>LS- white, v. chaly, v. similar to above, few scattered shale, globular</p> <p>LS- white, chaly texture w/ small fossil frags</p> <p>LS- white, fine-med xtn, chly tst, few scatt foss, some gils stn edge, nsfo</p> <p>LS- wht- lt gry, v. sm aa, scatt foss, few pcs pyrite, gils stn, nsfo</p> <p>SH- dk gry-bk, fairly soft, (1) pct mott w/ green, fair odor in sample, nsfo</p> <p>LS- cream-It brown, few w/ pyrite, fine-med xtn, foss, v. fn xtn</p> <p>LS- cream- It gry, med xtn</p> <p>LS- cream-white, fn xtn, few foss, visible fractures & pyrite development</p> <p>LS- white- lt brown, v. fine xtn, foss, sub cherty in part</p> <p>LS- v. similar as above, few lt gry, ool v. chaly fair odor, nsfo</p> <p>SH- silty red, chaly ls & pyritic incl in chalk</p> <p>LS- wht-brown, med xtn, re-xtn foss, abdt chalk, nsfo</p> <p>SH- dk-jet black, carb, dense, no visible gas/ no kick</p> <p>LS- white, med xtn, sl. gmit tst, ool, pyrite abundant</p> <p>LS- white- lt gry, foss, no vis show/odor</p> <p>LS- as above, chaly</p> <p>SH- dk, carb</p> <p>LS- crm-It gry, foss ool, chert in some, lt gry, foss, sharp</p> <p>LS- gry, med xtn, granular tst, v. dns, foss w/ ool</p> <p>LS- aa & chert, ls crm-gmit tst w/ foss, dns</p> <p>LS- white, chaly & soft</p> <p>LS- cream to white, med xtn, scatt foss, some re-xtn, overall chaly, few lt tan, foss, slightly dns</p> <p>SS- clustered, green-black, fissile, silty, sorted, dirty weathered, hvy chalk, (2) pcs glauc, scatt pyrite, a smoky chert</p> <p>SH- gry, sub ang, heavy cement, abdt pyrite, scatt glauc shale</p> <p>LS- crm-gry, fn xtn</p> <p>LS- crm, fn xtn, scatt gry chert</p> <p>LS- crm-tan, fn xtn, granular, sl. chaly</p> <p>LS- crm-gry, med xtn, granular</p> <p>LS- crm-It tan, fn xtn, sl. ool, sl foss, fenestella</p> <p>LS- crm-It brown, fn-micro, sl foss, scatt chert, amber</p> <p>SH- clear, sub rounded, well sorted, dirty weathered, hvy chalk, (2) pcs glauc, scatt pyrite, a smoky chert</p> <p>SS- gry, sub ang, heavy cement, abdt pyrite, scatt glauc shale</p> <p>LS- crm-gry, fn xtn</p> <p>LS- crm, fn xtn, scatt gry chert</p> <p>LS- crm-tan, fn xtn, granular, sl. chaly</p> <p>LS- crm-gry, med xtn, granular</p> | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bickle Energies, LLC

36 11s 33w Logan KS

PO Box 816
Hays, Ks 67601

Willie Z #1

Job Ticket: 64643

DST#: 1

ATTN: Garet Dinkel/ Eii Ho

Test Start: 2016.05.01 @ 17:04:00

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:54:00

Time Test Ended: 03:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4140.00 ft (KB) To 4165.00 ft (KB) (TVD)

Reference Elevations: 3090.00 ft (KB)

Total Depth: 4165.00 ft (KB) (TVD)

3080.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8365

Inside

Press @ Run Depth: 709.96 psig @ 4141.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.01

End Date:

2016.05.02

Last Calib.:

2016.05.02

Start Time: 17:04:05

End Time:

03:08:30

Time On Btm:

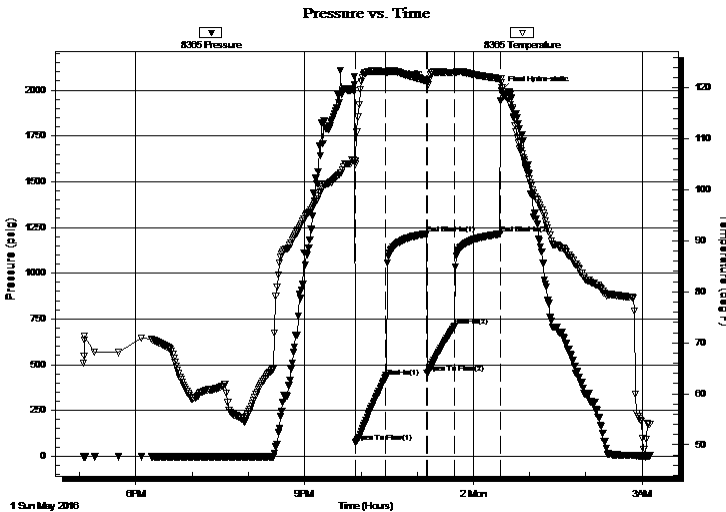
2016.05.01 @ 21:53:15

Time Off Btm:

2016.05.02 @ 00:29:30

TEST COMMENT: IF: BOB @ 3 min.
IS: No return.
FF: BOB @ 4 min.
FS: No return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2030.69 | 105.52 | Initial Hydro-static |
| 1 | 78.04 | 105.02 | Open To Flow (1) |
| 34 | 432.95 | 123.16 | Shut-In(1) |
| 77 | 1216.66 | 121.40 | End Shut-In(1) |
| 78 | 452.68 | 120.93 | Open To Flow (2) |
| 107 | 709.96 | 122.90 | Shut-In(2) |
| 155 | 1214.43 | 121.74 | End Shut-In(2) |
| 157 | 1998.16 | 120.99 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--|--------------|
| 1480.00 | smcw 5m 95w (oil spots on top / in tool) | 20.76 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bickle Energies, LLC

36 11s 33w Logan KS

PO Box 816
Hays, Ks 67601

Willie Z #1

Job Ticket: 64643

DST#: 1

ATTN: Garet Dinkel/ Eii Ho

Test Start: 2016.05.01 @ 17:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

72000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--|---------------|
| 1480.00 | smcw 5m 95w (oil spots on top / in tool) | 20.761 |

Total Length: 1480.00 ft Total Volume: 20.761 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .190 @ 41 = 72000ppm

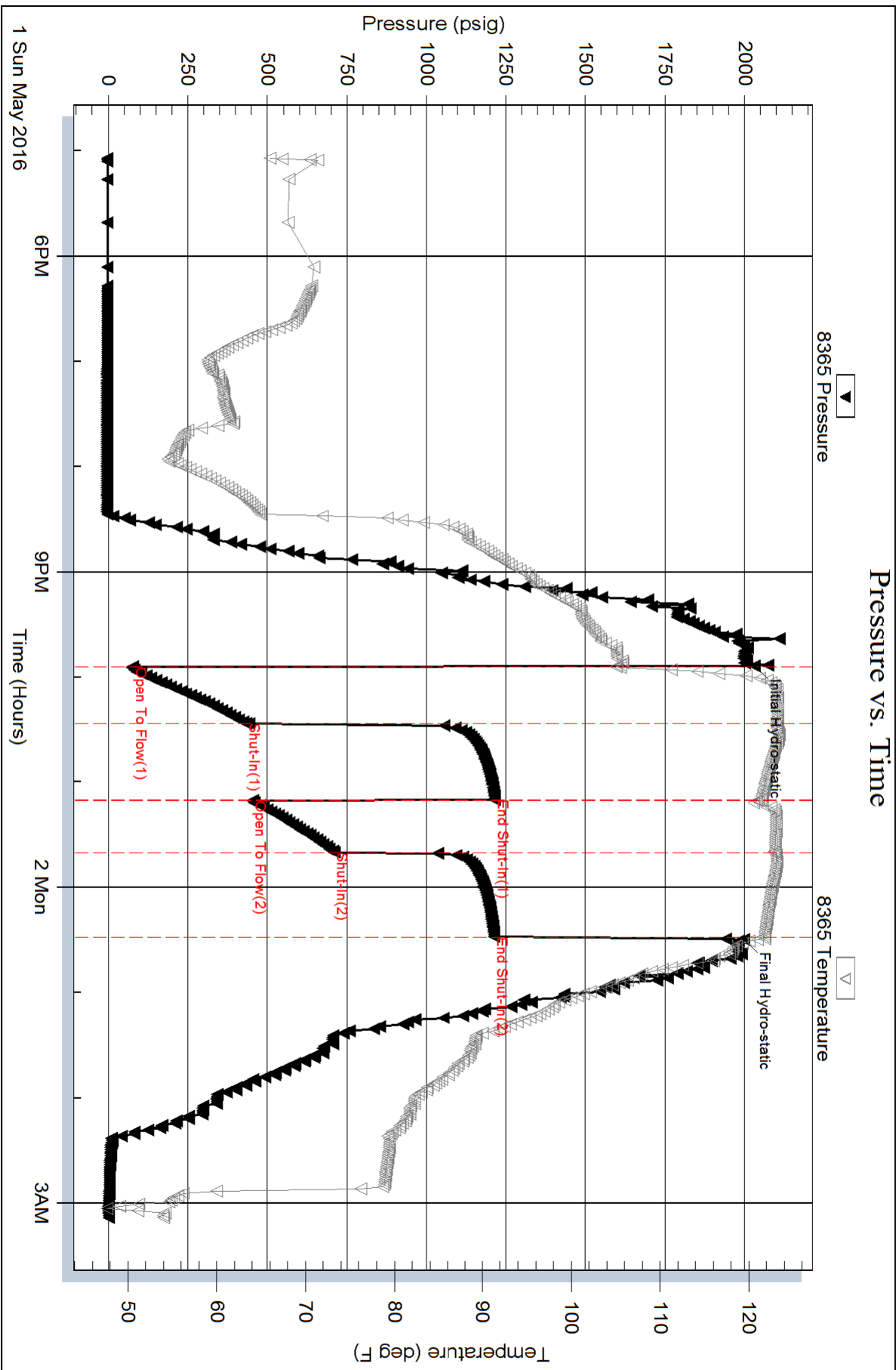
Serial #: 8365

Inside

Bickle Energies, LLC

Wellie Z #1

DST Test Number: 1

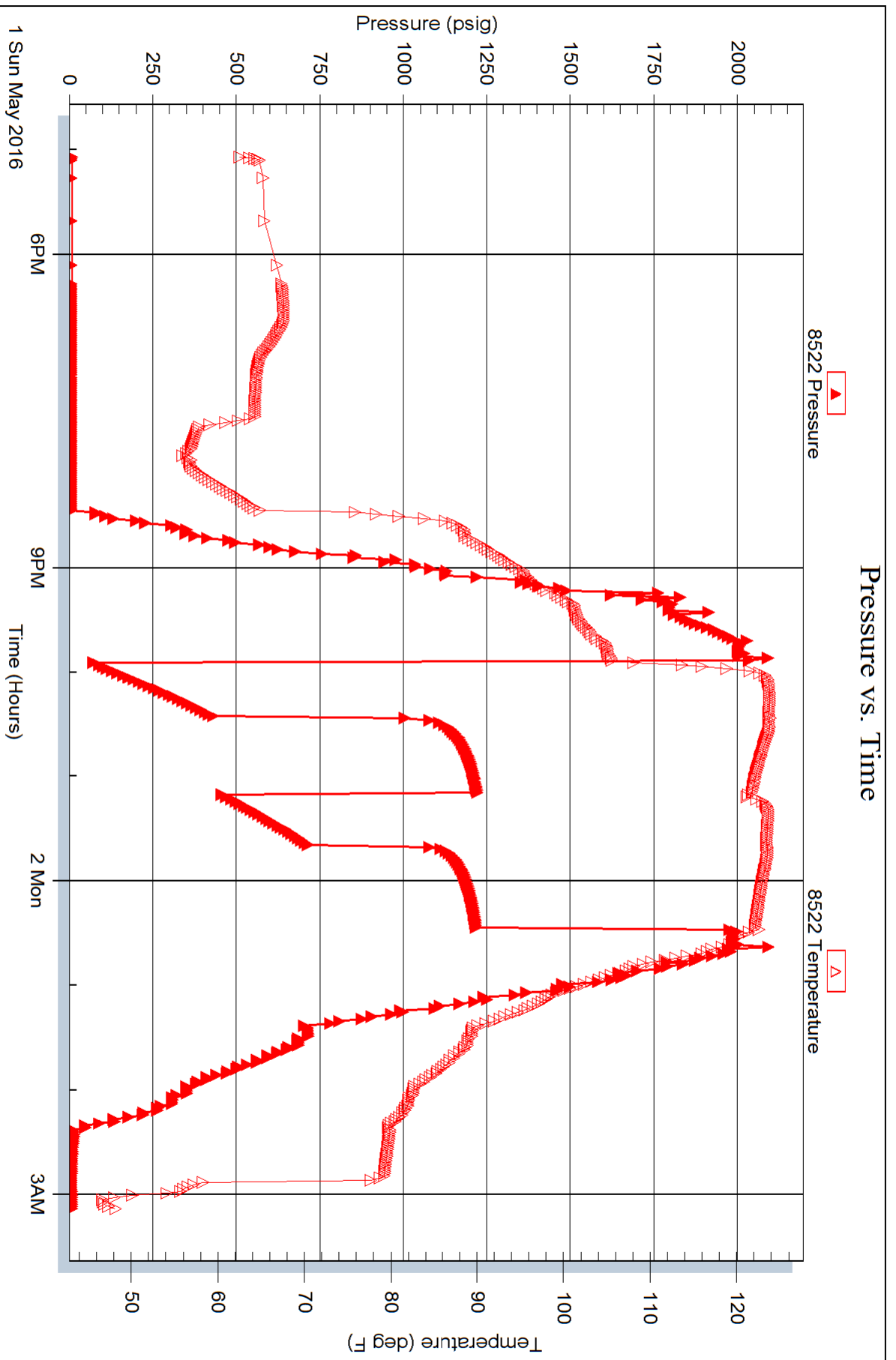


Serial #: 8522

Outside Bickle Energies, LLC

Willie Z #1

DST Test Number: 1



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 1981

Phone 785-483-2025

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

Cell 785-324-1041

| | | | | | | | |
|------|------|------|-------|--------|-------|-------------|--------|
| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
| | | | | | | | |

Lease _____ Well No. _____ Location _____

Contractor _____ 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.

Type Job _____ Charge To _____

Hole Size _____ T.D. _____ Depth _____ Street _____

Csg. _____ Depth _____ City _____ State _____

Tbg. Size _____ Depth _____

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 _____

EQUIPMENT

| | | | |
|---------|-----|----------|----------|
| Pumptrk | No. | Cementer | Common |
| | | Helper | Poz. Mix |
| Bulktrk | No. | Driver | Gel. |
| | | Driver | Calcium |
| Bulktrk | No. | Driver | Hulls |
| | | Driver | Salt |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| 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 |
| | Handling |
| | Mileage |

FLOAT EQUIPMENT

| | |
|--|-------------|
| | Guide Shoe |
| | Centralizer |
| | Baskets |
| | AFU Inserts |
| | Float Shoe |
| | Latch Down |

Pumptrk Charge _____

Mileage _____

Tax _____

Discount _____

Total Charge _____

X Signature _____

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. 1950

| | | | | | | | |
|---------|------|------|-------|----------|-------|-------------|--------|
| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
| 4-26-70 | 30 | 1 | 2 | ... | ... | | ... |
| | | | | Location | | | |

| | | |
|---------------------|------------|--|
| Lease | Well No. | 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 | | |
| Type Job | | |
| Hole Size | T.D. | Charge To |
| 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 |
| Meas Line | Displace | |

EQUIPMENT

| | | | |
|---------|-----|----------|----------|
| Pumptrk | No. | Cementer | Common |
| | | Helper | Poz. Mix |
| Bulktrk | No. | Driver | Gel. |
| | | Driver | |
| Bulktrk | No. | Driver | Calcium |
| | | Driver | |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| Remarks: | 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 |
| | Mileage |

FLOAT EQUIPMENT

| | |
|--|-------------|
| | Guide Shoe |
| | Centralizer |
| | Baskets |
| | AFU Inserts |
| | Float Shoe |
| | Latch Down |

| | |
|--|----------------|
| | Pumptrk Charge |
| | Mileage |
| | Tax |
| | Discount |
| | Total Charge |

X Signature