



KANSAS CORPORATION COMMISSION 1061707
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report 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 and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | |
|---|---|
| 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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 |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone | | | | |
| | | | | |

| 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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|---|--|--|
| 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> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|---|--|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | Stone 1-19 |
| Doc ID | 1061707 |

All Electric Logs Run

| |
|--|
| |
| Array Induction Shallow Focussed Electric Log |
| Compact Photo Density Compensated Neutron Log |
| Compensated Sonic Log with Integrated Transit time |
| Microresistivity Log |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | Stone 1-19 |
| Doc ID | 1061707 |

Tops

| Name | Top | Datum |
|----------------|------|-------|
| Heebner (base) | 3915 | -978 |
| Toronto | 3930 | -993 |
| Lansing | 3959 | -1022 |
| Marmaton | 4534 | -1597 |
| Cherokee | 4674 | -1737 |
| Morrow | 4921 | -1984 |
| Chester | 5059 | -2122 |
| St. Louis | 5093 | -2156 |
| TD | 5314 | |

JUL 06 20

ALLIED CEMENTING CO., LLC. 036590

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal K.S.

| | | | | | | | |
|--|-------------------|------------------------------------|------------------|------------|-----------------------|-------------------------|--------------------------|
| DATE <u>6-23-11</u> | SEC. <u>19</u> | TWP. <u>26S</u> | RANGE <u>33W</u> | CALLED OUT | ON LOCATION | JOB START <u>7:30am</u> | JOB FINISH <u>9:00am</u> |
| LEASE <u>Stone</u> | WELL# <u>1-19</u> | LOCATION <u>Ver Garden City KS</u> | | | COUNTY <u>Finnney</u> | STATE <u>K.S.</u> | |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | | | | | | |

CONTRACTOR Beredro Rig #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 1792
 CASING SIZE 8 5/8 DEPTH 1788
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 42.63
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT
 AMOUNT ORDERED 650^{SK} 60/40/8
+ 3 1/2 CC + .25 pps Floeal
150^{SK} Class A + 3 1/2 CC
 COMMON 150 @ 16.25 2437.50
 POZMIX @
 GEL @
 CHLORIDE 24 @ 58.20 1513.20
 ASC @
Light Weight 650 @ 14.50 9425.00
Floeal 168 @ 2.70 453.60
 HANDLING 833 @ 2.25 1874.25
 MILEAGE 4123.35
 TOTAL 19826.90

EQUIPMENT
 PUMP TRUCK CEMENTER Kenny
 # 372 HELPER Lenny
 BULK TRUCK
 # 457-251 DRIVER Ruben
 BULK TRUCK
 # 470-467 DRIVER Cesar

REMARKS:
THANK YOU!!!

CHARGE TO: Berexco
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE 1925.00
 EXTRA FOOTAGE @
 MILEAGE 90 @ 7.00 630.00
 MANIFOLD 1 @ 200.00 200.00
Light VM-leage 90 @ 4.00 360.00
 TOTAL 3115.00

PLUG & FLOAT EQUIPMENT
Basket 1 @ 478.00 478.00
Centralizer's 3 @ 64.00 192.00
AFU Insert 1 @ 382.00 382.00
 TOTAL 1052.00

To Allied Cementing Co., 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 Gilberta Druilova
 SIGNATURE [Signature]

SALES TAX (If Any)
 TOTAL CHARGES \$ 23,943.90
 DISCOUNT 41,431.68 IF PAID IN 30 DAYS
19,030.22

ALLIED CEMENTING CO., LLC. 036599

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend.

| | | | | | | | |
|--|----------------|---------------------|------------------|------------------------------------|-------------|-------------------------|--------------------------|
| DATE <u>7.11.11</u> | SEC. <u>19</u> | TWP. <u>26S</u> | RANGE <u>33W</u> | CALLED OUT | ON LOCATION | JOB START <u>3:00Am</u> | JOB FINISH <u>4:30Am</u> |
| LEASE <u>stone</u> | | WELL # <u>#1-19</u> | | LOCATION <u>Vec Garden City KS</u> | | COUNTY <u>Finnery</u> | STATE <u>KS</u> |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | | | | | | |

CONTRACTOR Beredco #2

TYPE OF JOB 2 Stage Long String

HOLE SIZE 7 7/8 T.D. 5310

CASING SIZE 5 1/2 DEPTH 5312

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 125.43 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Kenny

366 HELPER Wayne

BULK TRUCK

363- DRIVER Greg

BULK TRUCK

344-170 DRIVER Trent

REMARKS:

1st Stage

Thank You!!

CHARGE TO: Berexco Inc

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., 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 Ray M. [Signature]

OWNER

CEMENT

AMOUNT ORDERED 100 SK 60/40/8%

gel 1/4# Flo Seal

250 SK ASC

| | | |
|-------------------------|----------------|-----------------|
| COMMON _____ | @ _____ | _____ |
| POZMIX _____ | @ _____ | _____ |
| GEL _____ | @ _____ | _____ |
| CHLORIDE _____ | @ _____ | _____ |
| ASC <u>300</u> | @ <u>19.00</u> | <u>5700.00</u> |
| <u>Gilsonite 1800</u> | @ <u>.89</u> | <u>1602.00</u> |
| <u>Light Weight 100</u> | @ <u>14.50</u> | <u>1450.00</u> |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| HANDLING <u>436</u> | @ <u>2.25</u> | <u>981.00</u> |
| MILEAGE _____ | _____ | <u>2877.60</u> |
| TOTAL | | <u>12610.60</u> |

SERVICE

| | | |
|-------------------------|-------------------------------|----------------|
| DEPTH OF JOB _____ | _____ | |
| PUMP TRUCK CHARGE _____ | <u>2695.00</u> | |
| EXTRA FOOTAGE _____ | @ _____ | |
| MILEAGE <u>120</u> | @ <u>7.00</u> <u>840.00</u> | |
| MANIFOLD <u>1</u> | @ <u>200.00</u> <u>200.00</u> | |
| <u>120</u> | @ <u>4.00</u> <u>480.00</u> | |
| _____ | @ _____ | |
| TOTAL | | <u>4215.00</u> |

PLUG & FLOAT EQUIPMENT

| | | | |
|---------------------|-----------|---------------|----------------|
| <u>DV Tool</u> | <u>1</u> | @ <u>3200</u> | <u>3200.00</u> |
| <u>Centralizers</u> | <u>22</u> | @ <u>49</u> | <u>1078.00</u> |
| <u>Baskets</u> | <u>3</u> | @ <u>300</u> | <u>900.00</u> |
| <u>Float Shoe</u> | <u>1</u> | @ <u>349</u> | <u>349.00</u> |
| _____ | _____ | @ _____ | _____ |
| TOTAL | | | <u>5527.00</u> |

SALES TAX (If Any) _____

TOTAL CHARGES \$ 22352.60

DISCOUNT \$ 16987.98 IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 036600

Federal Tax I.D.# 20-5975804

ISSUE TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend KS.

| | | | | | | | |
|--------------------------------|--------------------|------------------------------------|------------------|------------|----------------------|-----------------------|----------------------------|
| DATE <i>7-11-11</i> | SEC. <i>19</i> | TWP. <i>26S</i> | RANGE <i>33W</i> | CALLED OUT | ON LOCATION | JOB START <i>9:00</i> | JOB FINISH <i>10:30 AM</i> |
| LEASE <i>Stone</i> | WELL # <i>1-19</i> | LOCATION <i>Vec Garden City KS</i> | | | COUNTY <i>Finney</i> | STATE <i>KS.</i> | |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

CONTRACTOR *Beredco #2*

TYPE OF JOB *2 stage Long String*

HOLE SIZE *7 7/8* T.D. *5310*

CASING SIZE *5 1/2* DEPTH *5312*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *42*

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *78*

OWNER

CEMENT

AMOUNT ORDERED *395^{SK} 60/408'*

gel by # Flo

50^{SK} ASC

| | | | |
|---------------------|---|---------------|----------------|
| COMMON | @ | | |
| POZMIX | @ | | |
| GEL | @ | | |
| CHLORIDE | @ | | |
| ASC | @ | | |
| <i>Light Weight</i> | @ | <i>14.50</i> | <i>5727.50</i> |
| <i>Flo seal</i> | @ | <i>123.75</i> | <i>2.70</i> |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| | @ | | |
| HANDLING | @ | <i>400</i> | <i>2.25</i> |
| MILEAGE | | | <i>900.00</i> |
| | | | <i>2640.00</i> |
| TOTAL | | | <i>9601.63</i> |

EQUIPMENT

PUMP TRUCK CEMENTER *Kenny*

366 HELPER *Wayne*

BULK TRUCK

363- DRIVER *Grey*

BULK TRUCK

344-170 DRIVER *Trent*

REMARKS:

2nd Stage.

THANK YOU!!

CHARGE TO: *Berexco Inc.*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB *N/A*

PUMP TRUCK CHARGE *N/A*

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

@

@

TOTAL *0*

PLUG & FLOAT EQUIPMENT

N/A

@

@

@

@

@

TOTAL *0*

To Allied Cementing Co., 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 *Shy m*

SALES TAX (If Any) _____

TOTAL CHARGES *\$9601.63*

DISCOUNT *\$7297.24* IF PAID IN 30 DAYS

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

WJ

COMPANY **BEREXCO LLC**
 LEASE **STONE** NO. **1-19**
 LOCATION **1320' FNL & 350' FEL**
 SEC. **19** TWP. **26S** RNG. **33W**
 COUNTY **FINNEY** STATE **KANSAS**
 FIELD **IVANHOE EXTENSION**

ELEVATIONS
 KB **2937**
 DF **2935**
 GL **2925**
 MEASUREMENTS ARE ALL FROM **KB**

CASING RECORD
 8.625" ID 1785' W / S X.
 DI W / S X.
 OI W / S X.
 OI W / S X.
 EL. LOG **AR.IND.-SP.-GR DEN-NEUT.-GR.-CALIPER ML-SONIC**

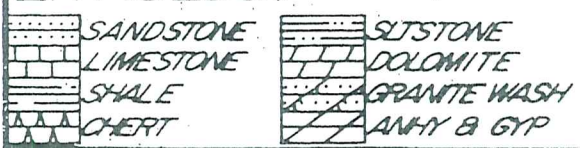
| SAMPLE | LOG | SUBSEA |
|--------|------|--------|
| 3914 | 3915 | 918 |
| 3930 | 3930 | 943 |
| 3959 | 3959 | 1022 |
| 4535 | 4534 | 1597 |
| 4674 | 4674 | 1737 |
| 4919 | 4921 | 1984 |
| 5053 | 5059 | 2112 |
| 5102 | 5093 | 2156 |
| 5310 | 5314 | |

FORMATION TOPS
 BASE HEEBNER
 TORONTO
 LANSING
 MARMATON
 CHEROKEE
 MORROW FM
 CHESTER FM
 ST. LOUIS
 TD

No. of DST'S **6** No. of CORES **NONE**
 SAMPLES SAVED FROM **3900** TO **TD**
 DRILLING TIME KEPT FROM **3900** TO **TD**
 SAMPLES EXAMINED FROM **3900** TO **TD**
 GEOLOGICAL SUPERVISION FROM **3900** TO **TD**
 GEOLOGIST ON WELL **EDWIN H. GRIEVES**

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to total depth

Thank you,
Edwin H. Grievess
Geologist

| | | |
|--|---|---|
| LITHOLOGY  | CHROMATOGRAPH HOT WIRE BY TOTAL GAS VOLUME | C1 = METHANE C2 = ETHANE C3 = PROPANE C4 = ISOBUTANE C5 = BUTANE C6 = ISOPENTANE C7 = PENTANE |
|--|---|---|

| | | |
|-----------------------------|---|----------------------------------|
| DRILL TIME SCALE 5 10 15 | SAMPLE DESCRIPTION 3810-3903 Lms. hvy test to extra. zbu wht. to crm. -chlk and tanj crypto. to v. u. x. i. sub. d. l. sub-sucro to sucro + trs packstn. trs. foss. R's dul. yel. to dul. H. yel. fluor. j. No Cut | GAS SCALE 10 100 1000 3800 |
|-----------------------------|---|----------------------------------|

3903-09 Lms. lt. to med. gray to grayish tan
 sli. to v. sh. l. crypto. to v. v. fine xln.
 sub-chalk or sh. l. + packstn.; No fluor.; No cut
 No vis por

Sh. v. drk. gray. to black-carb.
 Lms. grayish tan; crypto. xln.; sub-lithogr.
 dul. lt. yellow; No cut; No vis por

3918-3930 Sh. lt. green to lt. gray; silty IP's

3930-3939 Lms. abn. wht. to cream-chlk
 and tan; crypto. to v. v. fine xln.; sub-sucro
 to sucro; dul. yellow; No cut; abn. poor
 micro-por; w/ intr. chert wht top; trans to appur

Lms. lt. gray. to tan; crypto. to v. v. fine xln.; trans sub-chlk
 sub-sucro + packstn.; sli. to ext. sub-lithogr.; dul. yellow
 to yellow; No cut; No vis por; abn. chert wht to
 gray; trans to appur

Sh. med. to drk. gray; sli. to v. calc

3959-69 Lms. abn. wht. to cream-chlk +
 cream to lt. tan, grayish IP's; crypto. to v. v. fine
 phant. oolitic IP's; dul. yellow to dul. lt. yellow
 fluor.; No cut; hv. tes. poor micro-por.

Lms. lt. gray. to tan; crypto. to v. v. fine xln.; sub-chlk,
 sub-sucro, packstn. + tras. sub-lithogr.; dul. yellow
 to dul. lt. yellow; fluor.; No cut; No vis por.
 w/ interbeds sh. med to v. drk. gray-calc. IP's

3996-4015 Lms. wht. to cream-chlk + tan
 w/ sli. drk. tan sp. to even oil stn. v. v. fine
 v. fine + tras. xln.; v. sucro; strong oil cond.
 fal. sub-lithogr.; ext. yellow; fluor. w/ flush to
 gd. string cut; abn. fine. gd. to excel. pp
 micro-por. + interxln. por

Lms. grayish tan to tan; crypto. to v. v. fine xln.
 tras. sub-chlk, sub-sucro. + packstn.; dul. lt. yellow
 fluor.; No cut; No vis por

Sh. med to v. drk. gray. - calc IP's

Lms. hv. tes. wht. to cream-chlk + tan; v. v. fine
 xln.; ext. oolitic for sli. oolitic matrix
 sub-sucro. to ext. sucro; gd. yellow
 fluor.; ext. abn. gd. to excel. oolitic
 por. w/ hv. tes. pr. to tras. + tras. gd. to excel
 interxln. por

Lms. tras. wht. to cream-chlk + lt. tan to tan, grayish
 IP's; crypto. to v. v. fine xln.; tras. sub-chlk,
 sub-sucro + packstn.; dul. lt. to lt. yellow
 fluor.; No cut; No vis por

Sh. med to v. drk. gray, calc IP's
 Lms. similar 4059-4092

Lms. tras. wht. to cream-chlk + tan; crypto. to v. v. fine
 xln. w/ hv. tes. wht. to cream, med to coarse calc
 xls + frags; sli. to ext. oolitic for sli. to
 ext. oolitic matrix; chlk, sub-chlk, sub-sucro
 to sli. tras. sucro + packstn.; dul. yellow to
 yellow; fluor.; No cut; abn. gd. to excel. tras. gd.
 to sli. tras. excel. oolitic gas tras
 interxln. por. IP's; quest. por.

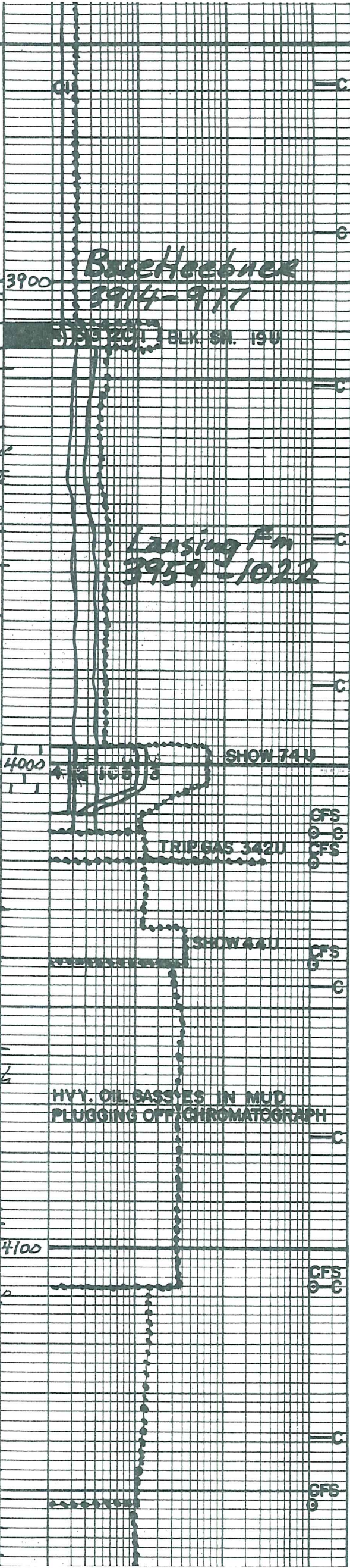
4110-4142 Lms. lt. gray. to tan; crypto. to v. v. fine
 xln.; sli. tras. chlk, tras. sub-chlk, sub-sucro,
 packstn. + tras. sub-lithogr.; dul. yellow. w/ tras
 lt. yellow; fluor.; No cut; No vis por

Sh. med to v. drk. gray - calc

Lms. abn. wht. to cream-chlk + tan; v. v. fine
 xln. w/ tras. med to coarse, wht. to coarse calc xls
 + frags; sub-sucro to ext. sucro; dul. yellow to lt.
 yellow; fluor.; No cut; abn. poor. gd. to excel.
 micro-por + interxln. por

Sh. v. drk. gray to black-carb

Lms. lt. gray. to tan; crypto. to v. v. fine xln.



dul. yol. to dul. lt. yel. + fluo. r.; No Lu
scattered poor micro-pp por

3903-09 Lms. lt. to med. gray to grayish tan
sli. to v. sh. l.; crypto. to v. u. xln.;
sub-chalky or shly. + packstn.; No fluo. r.; No Lu
No Vis Por

3900

Base Heebner
3914-977

Shv. drk. gray. to black-carb.
Lms. grayish tan; crypto. to v. u. xln.; sub-lithogr.
dul. lt. yel. fluo. r.; No Lu; No Vis Por

BLK. SM. 19U

3918-3930 Sh. lt. green to lt. gray; silty IP's

3930-3939 Lms. zbu. wht. to cream-chlk
and tan; crypto. to v. u. xln.; sub-sucro
to sucro; dul. yel. fluo. r.; No Lu; zbu. poor
micro-pp por.; w/ trs. Chert wht to gray; trans to appur

Lms. lt. gray. to tan; crypto. to v. u. xln.; trs. sub-chlk
sub-sucro + packstn. w/ sh. tes sub-lithogr.; dul. yel.
to yel. fluo. r.; No Lu; No Vis Por w/ zbu. Chert wht to
gray; trans to appur

Sh. med. to drk. gray; sli. to v. calc

3959-69 Lms. zbu. wht. to cream-chlk +
crum. to lt. tan, grayish IP's; crypto. to v. u. xln.;
phantom oolitic IP's; dul. yel. to dul. lt. yel.
fluor.; No Lu; hv. tes. poor micro-pp por.

Lansing Fm
3959-1022

Lms. lt. gray. to tan; crypto. to v. u. xln.; sub-chlk,
sub-sucro, packstn. + trs. sub-lithogr.; dul. yel.
to dul. lt. yel. fluo. r.; No Lu; No Vis Por.
w/ interbeds sh. med. to v. drk. gray - calc. IP's

3996-4015 Lms. wht. to cream-chlk + tan
w/ sli. drk. tan sp. to even oil stn.; v. u. xln. to
v. u. xln. + trs. xln.; v. sucro; strong oil ool.
rel. sulfur; ort. yel. fluo. r. w/ flush to
gd str. in cut; zbu. fa. gd. to excel. pp
micro-pp + interxln. por

4000

SHOW 74U

Lms. grayish tan to tan; crypto. to v. u. xln.
trs. sub-chlk, sub-sucro. + packstn.; dul. lt. yel
fluor.; No Lu; No Vis Por

TRIP GAS 342U

Sh. med. to v. drk. gray - calc IP's

Lms. hv. tes. wht. to cream-chlk + tan; v. u. xln.
xln.; ext. oolitic. You sli. oolitic matrix
sub-sucro. to ext. sucro; gd. n. yellow
fluor.; ext. zbu. gd. to excel. oolitic
por. w/ hv. tes. pr. to trs + tes gd. to excel.
interxln. por

SHOW 44U

Lms. trs. wht. to cream-chlk + lt. tan to tan gray
IP's; crypto. to v. u. xln.; trs. sub-chlk,
sub-sucro + packstn.; dul. lt. to lt. yel
fluor.; No Lu; No Vis Por

HVY. OIL CASSIES IN MUD
PLUGGING OFF CHROMATOGRAPH

Sh. med. to v. drk. gray, calc IP's

Lms. similar 4059-4092
Lms. trs. wht. to cream-chlk + tan; crypto. to v. u. xln.
xln. w/ hv. tes. wht. to cream, med. to coarse calc
xln. + frags; sli. to ext. oolitic. You sli. to
ext. oolitic matrix x chlk, sub-chlk, sub-sucro
to sli. trs. sucro + packstn.; dul. yel. to
yel. fluo. r.; No Lu; zbu. gd. to excel. tes gd.
to sli. trs. excel. oolitic + poss trs
interxln. por. IP's; quest. por. u.

4100

4112-4142 Lms. lt. gray. to tan; crypto. to v. u. xln.
xln.; sli. trs. chlk + sub-chlk, sub-sucro,
packstn. + trs. sub-lithogr.; dul. yel. w/ trs
lt. yel. fluo. r.; No Lu; No Vis Por

Sh. med. to v. drk. gray - calc
Lms. zbu. wht. to cream-chlk + tan; v. u. xln.
xln. w/ trs. med. to coarse wht. to coarse calc xln.
+ frags; sub-sucro to ext. sucro; dul. lt. to lt.
yel. fluo. r.; No Lu; zbu. pr. fa. gd. to excel.
micro-pp + interxln. por

CFS
C

CFS
C

crypto. to v. fn. xlu.; sub-chlk; sub-sucro
+ pachstn.; dul. yel. fluor. No cut; No Vis POR;
opaque, poss IP's
sh. med. to v. drk gray; calc IP's

4484-4518 Lms. lt. gray to tan, mottled IP's
crypto. to v. v. fn. xlu.; trs sub-chlk;
sub-sucro, pachstn. + sub-lithograpic
v. zbn. phantom galitic; dul. yel. fluor.;
No cut; No Vis POR; sl. trs Cheat
tan; opaque

sh med to v. drk gray - sl. to extaly
calc qrdng to shly lms

4535-4548 Lms similar R 4484-4518

4548-58 Lms. tan w/ zbn spid to even
dark tan to lt. brown; sl. crypto to
v. v. fn. xlu.; sl. to extaly calc IP's
sl. to shly calc IP's; m. to shly calc IP's
to v. sucro. + trs pachstn.; ft to tire oil odor
brt. greenish yel. fluor. w/ flush to excel staining
cuts; zbn. IP's to good + trs excel. calc IP's
POR. w/ hvy trs por to sh + trs qd. micro por
por + prob interxlu por IP's; zbn
w/ very Quest. Perm

4560-4615 Interbedded Lms + scattered thin sh

- 1) Lms. tan; crypto to v. v. fn. xlu.; sub-chlk; sub-sucro
+ pachstn.; dul. yel. fluor.; No cut; No Vis POR;
- 2) Lms. lt. to tan; med. gray - sl. to shly; crypto
xlu.; sub-chlk; for shly + pachstn.; trs. dul.
yel. fluor. No cut; No Vis POR
- 3) Sh. med. to v. drk gray; sl. to frly. calc.

Sh blk-carb

Lms. lt. gray; tanish IP's to testan; crypto
to trs. v. fn. xlu.; sub-chlk; trs sub-sucro + pachstn.
dul. yel. fluor.; No cut; No Vis POR
Lms. hvy trs. w/ to crm. - chlk + tan; crypto
to v. v. fn. xlu.; oolitic or calc IP's + trs to shly
shly; sub-chlk; sub-sucro + trs sucro; dul.
qld. yel. fluor. No cut; zbn
por to calc IP's + trs + zbn. por to
+ trs qd. p. micro por + poss sl. trs
interxlu por

4632-50 Lms. trs. w/ to crm. chlk + tan w/ hvy trs
gray to lt. gray sl. to shly; crypto to v. v. fn. xlu.;
sub-chlk; sub-sucro + pachstn.; dul. yel. fluor. No cut; No Vis POR

Sh. v. drk gray to black-carb

Lms. trs. w/ to crm. chlk + tan; grayish. IP's
crypto to v. v. fn. xlu.; sub-chlk; sub-sucro +
pachstn.; zbn. sl. to shly oolitic; tan; hvy trs
gray; dul. yel. fluor.; No cut; No Vis POR

Sh. black-carb

4674-4781 Interbedded Limestones + Shales

1) Lms. grayish. tan to tan; crypto. to v. v. fn. xlu.
sub-chlk; sub-sucro, pachstn. + sub-lithograpic.
dul. yel. fluor. No cut No Vis POR.

2) Lms. lt. to med. gray - sl. to extaly. shly;
crypto xlu.; sub-chlk; for shly + pachstn.;

No fluor.; No cut; No Vis POR

3) Sh. med. to v. drk. gray - calc IP's to blk carb.

A. 4781-4880 Interbedded Lms + Shales
scattered thin shales

1) Lms. grayish. tan to tan; crypto. to
v. v. fn. xlu.; sl. trs. sub-chlk; trs.
sub-sucro pachstn. + sub-lithograpic;
v. scattered trs. tan to brown. oil stain
w/ greenish yel. fluor. w/ good staining
cuts, v. v. sl. trs poor micro por
por. IP's; + Prob fracturing

2) Lms. lt. to med. gray - sl. to extaly shly.
crypto xlu.; trs sub-chlk; for shly;
pachstn. + sub-lithograpic; No fluor.;
No cut; No Vis POR; Poss fracturing

3) Sh. med. to v. drk. gray - sl. to v. drk
calc. IP's; to black-carb. looking

B. 4880-4919 Lms. w/ scattered thin shales

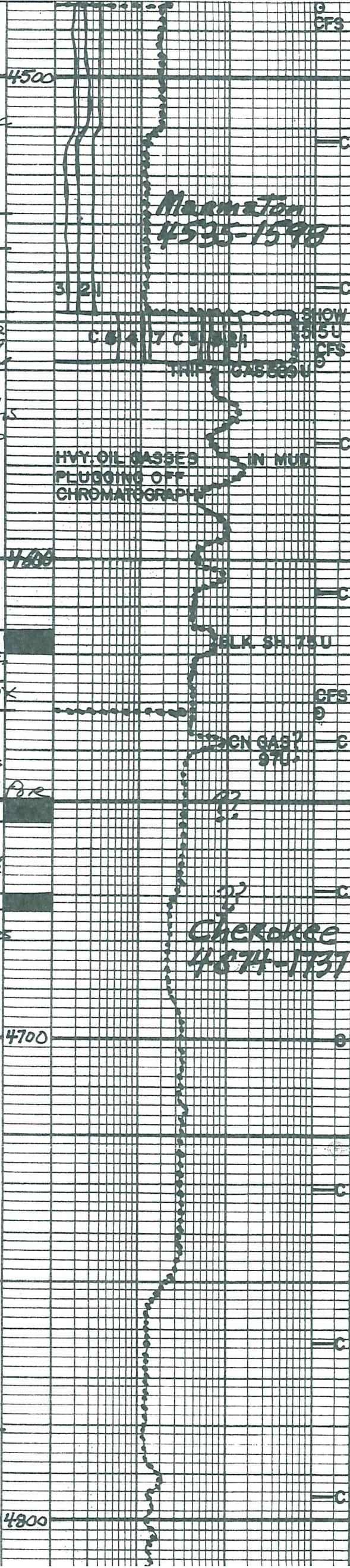
1) Lms. lt. to drk gray; tanish. IP's.
crypto. to v. v. fn. xlu.; trs. sub-chlk;
trs. sub-sucro pachstn. + sub-lithograpic.
trs. v. dul. yel. fluor.; No cut; No Vis POR.

2) Sh. v. drk gray - calc IP's to blk carb looking

C. 4919-4941 Lms. + Sh very
similar 4880-4919 w/ Shs increasing

D. 4941-4955 Lm. sh. gray to tan w/
spid. to even drk. tan to brown oil stain.
v. to calc IP's + trs composed

Lm. grs. + foss. frags; matrix crypto
to v. v. fn. xlu.; sub-sucro + trs
+ pachstn.; tan oil odor; dul. yel. fluor. to



micro-pp. por; poss. intergr. por
u. prob fracturing

A E. Sh. med. to drk gray, splintery lps
and huylas H. green to olive green

F 4964-4973 Qtz sdst gray to abn tan
from oil stn.; v.v. fn. gr. - ang.
abn. sh. silt filled; sl. trs. to abn
glauc. / or chlorite; trs w/ finely
disseminated pyrite; dul. yel. fluor.
w/ flush to gd. staining cuts; abn. pr. to
total. micro-pp. por & prob.

intergr. por; Quest overall Perm

G 4973-78 Qtz sdst drk tan to drk
brn. from oil stn.; v.v. fn. gr. - ang.
almost all clean w/ fine to gd sort.
scattered trs glauc. / or chlorite,
scattered trs finely disseminated
pyrite; gd. oil bdr; gd. yel. fluor.
w/ abn. pr. to total & trs gd
micro-pp. + v. prob intergr. por

H 4778-88 Sh. med. to drk gray
splintery lps w/ huylas H. green
to olive green

I 4988-96 Lms. H. gray to tan; crypto
to v.v. fn. xln; trs. sub-chlk, sub-succ,
pach. to trs. sub-lithogr. dul. H. yel.
fluor.; No cut; No vis por

J 4996-5011 Sh. med. to drk gray, splintery
lps & huylas H. grn to olive grn; w/ huyl
trs. Lms. similar 4988-4996 prob.
staining from above & silt trs
silt tan, H. gray, sh. filled lps
No fluor.; No cut; No vis por

K 5011-5031 Qtz sdst H. tan to tan from
even oil stn; flushed looking
v.v. fn. gr. - ang. pr. to gd. sort
clay filled lps, widely scattered
trs. glauc. / or chlorite; scattered
trs. finely disseminated pyrite;
faint oil bdr; greenish yel. fluor.;
w/ flush to gd. staining cuts; abn. pr. to
fr & sl. trs. gd. micro-pp. por & poss.
intergr. por lps in bottom of
zn sli looser and better sorted
less clay filling sli better por, more
small clusters + loose gks + more
friable

L 5031-5047 Lms. H. gray to tan;
crypto to v.v. fn. xln; trs. sub-chlk,
sub-succ + pach. to trs. dul. H. yel.
fluor. lps; No cut; No vis por w/
interbeds sh. med. to drk. gray,
splintery lps

M 5047-5053 Qtz sdst tan to
brn. from oil stn; v.v. fn. gr. - ang
silt filled lps; pr. to gd. sort.
trs. finely disseminated pyrite
grn. yel. fluor. w/ flush to gd
staining cuts; huylas pr. to total. trs.
micro-pp. por & poss. intergr. por

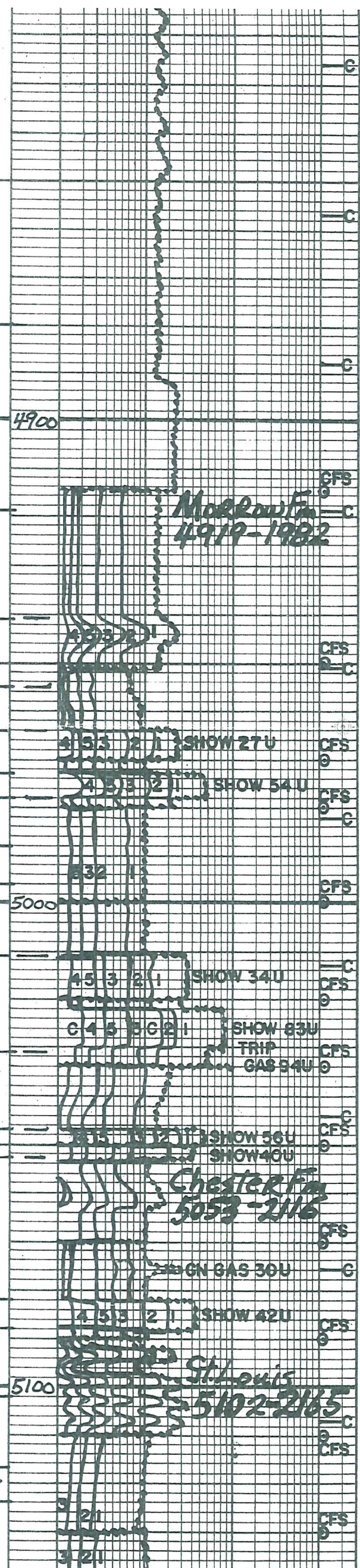
N 4063-4082 Lms. H. to med. gray,
crypto to sli. trs. v.v. fn. xln;
trs. sub-chlk, trs. sub-succ + pach. to
+ sub-lithogr. ph. trs. ph. to
oil stn; dul. H. yel. fluor. lps; No cut
No vis por

O 4082-4088 Conglomerate
① Siltst pale green, dense, tight & hard
② Shs. gray + greens w/ trs. reds + maroons
③ Lms. tan to huylas. gray; crypto to
v.v. fn. xln; trs. sub-chlk, sub-succ
pach. to trs. sub-lithogr.
huylas. sp. brn to trs. black oil stn.
w/ dul. yel. to yel. fluor. w/ faint to
fr. staining to good ring cuts

P 4088-5102 Congl. similar
4042-4088 w/ only v. scattered trs.
show interbedded w/
① Lms. H. gray to greenish gray; crypto
to v.v. fn. xln; v. to extly. micro oolitic
/ or sli. to total. Qtz sdst - v. to gr. - ang.
matrix sli. trs. sub-chlk + sub-succ,
dul. H. yel. fluor.; No cut; No vis por
② Lms. huylas w/ to green chlk w/ chlk
oolites lps + tan; crypto to v. to xln;
v. to extly. oolitic (sm. med. + lg)
matrix chlk + sub-chlk + sub-succ
dul. H. yel. fluor.; No cut; No vis por

Q 5102-5117 Lms. trs. w/ to crm-
chlk w/ chlk oolites lps + tan; crypto
to v.v. fn. xln; v. to extly. oolitic
(sm. med. + lg); matrix chlk, sub-chlk,
sub-succ + pach. to trs. dul. H. yel. fluor.
No cut; No vis por w/ sli. to huylas (in ext
clear, yellow, orange to tan; trans. por.
trans. + opaque

R 5117-5124 Lms. Pale green; crypto
xln; sub-lithographic; dul. H. yel.
fluor.; No cut; No vis por w/ trs.
cheer orange, tan to gray; trans.
to opaque



D51745
 Speed Below
 L51745
 Speed Below

5124-5176 Lms grayish tan to tan; crypto.
 x.ln.; sub-lithographic; dul. fl. yel. fluor
 No cut; No Vis Por. w/ prob scatter
 thin interbeds Lms similar
 5102-5117 OR stringing in samples
 from above w/ trs to abn. Chert
 orange, tan to gray; opaque to transl.

Lms. hv. trs. wht. to crm. chlk + tan, grayish. IP'S
 crypto. to v. v. fn. x.ln.; extely. oolitic (sm w/ trs
 med + lg) matrix chlk, sub-chlk, sub-sucro
 + packstn.; dul. yel. fluor.; No cut; No Vis Por
 sl. trs. Chert orange to tan; transl to opaque
 Lms. similar 5176-5191 w/ abn oolites
 sm, med + lg ie mcr. in med lg. and matrix
 mostly packstn

Lms. hv. trs. wht. to crm. chlk + tan, grayish IP'S
 crypto. to v. v. fn. x.ln.; extely. oolitic
 med to lg w/ trs sm; matrix chlk, sub-chlk
 sub-sucro + packstn.; dul. yel. fluor.;
 No cut; No Vis Por; trs chert orange to
 tan; transl to opaque
 Dol. sli. calc IP's; gray to tan;
 v. v. fn. x.ln.; u. f. calc; dul. fl. yel. fluor.; No cut
 No Vis Por. w/ Lms similar 5102-5117

Interbedded Limestones
 1) Lms hv. trs. wht to crm. chlk w/ chlk oolites IP'S
 + tan, grayish. IP'S; crypto. to v. v. fn. x.ln.; very
 to extely. oolitic (sm, med + lg) to med to lg
 w/ trs sm; matrix chlk, sub-chlk, sub-sucro
 + trs packstn.; dul. yel. fluor.; No cut; No Vis Por
 2) Lms tan; crypto x.ln. packstn. to sub-lithog.
 dul. yel. fluor.; No cut; No Vis Por
 3) Trs chert wht opaque
 Dol. lt gray; v. v. fn. x.ln.; v. sucro; yel. fluor
 No cut; No Vis Por

Interbedded + or Gradational Limestones
 1) Lms sli. dololp's; trs. wht. to crm. chlk +
 grayish. tan to tan; crypto. to v. v. fn. x.ln.;
 v. to extely. oolitic (sm, med + trs lg.)
 matrix chlk, sub-chlk, sub-sucro and
 packstn.; dul. yel. fluor.; No cut; No Vis Por
 2) Lms. trs. sli. dololp's; grayish. tan to tan
 crypto. x.ln.; packstn. to sub-lithog.
 dul. fl. yel. fluor.; No cut; No Vis Por
 3) sl. trs. chert gray to tan; transl to opaque

TD 5310

Bit Info: 7 7/8 inch bits
 #1 New Smith FH 124 Y
 in 1792 out 5310 TD

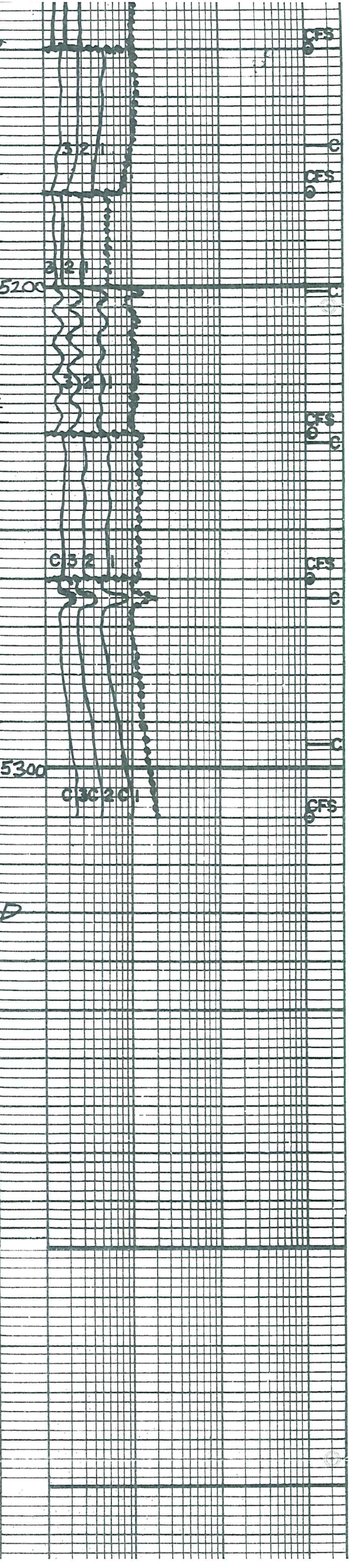
Dev. SURU:
 1. 997 3/4° 4. 4020 3/4° 7. 5310 1° TD
 2. 1792 3/4° 5. 4558 1/2°
 3. 2989 1/2° 6. 4980 3/4°

Cir Points:

| | | |
|----------|----------|-------------|
| 1. 4014 | 13. 4460 | 25. 5070 |
| 2. 4020 | 14. 4485 | 26. 5090 |
| 3. 4041 | 15. 4558 | 27. 5110 |
| 4. 4108 | 16. 4632 | 28. 5130 |
| 5. 4153 | 17. 4915 | 29. 5150 |
| 6. 4250 | 18. 4950 | 30. 5180 |
| 7. 4271 | 19. 4970 | 31. 5230 |
| 8. 4326 | 20. 4980 | 32. 5260 |
| 9. 4380 | 21. 5000 | 33. 5310 TD |
| 10. 4388 | 22. 5020 | |
| 11. 4425 | 23. 5034 | |
| 12. 4441 | 24. 5050 | |

Daily Dalg Progress:

| | | |
|----------|------------|-----------|
| 1. 3673 | At 7:00 AM | 6-27-2011 |
| 2. 3800 | At 5:47 AM | 6-27-2011 |
| 3. 4220 | At 7:00 AM | 6-28-2011 |
| 4. 4233 | At 7:00 AM | 6-29-2011 |
| 5. 4250 | At 7:00 AM | 6-30-2011 |
| 6. 4388 | At 7:00 AM | 7-1-2011 |
| 7. 4447 | At 7:00 AM | 7-2-2011 |
| 8. 4558 | At 7:00 AM | 7-3-2011 |
| 9. 4689 | At 7:00 AM | 7-4-2011 |
| 10. 4949 | At 7:00 AM | 7-5-2011 |
| 11. 4980 | At 7:00 AM | 7-6-2011 |
| 12. 5034 | At 7:00 AM | 7-7-2011 |
| 13. 5094 | At 7:00 AM | 7-8-2011 |
| 14. 5240 | At 7:00 AM | 7-9-2011 |
| 15. 5310 | At 7:00 AM | 7-10-2011 |



DST#1 Lansing "8" 3998-4008
 ID BOB 4 Min FO BOB 4 Min
 Rec 1622 ft fluid BHT 114°F
 884 GCO 40% Gas 60% Oil
 738 MGW 95% WTR 5% Mud
 oil Grav 38° API Rw. 17@75°
 chl 35000 ppm chl 1800 ppm

IHP 1925#
 JFP 57-366# in 30 min.
 JSIP 1096# in 60 min.
 FFP 385-602 in 60 min.
 FSIP 1095# in 120 min.
 FHP 1854#

DST#2 Lansing "G" 4234-4250
 IO weak surface blow inc to
 1/2" in 30 min FO No Blow
 Rec 30 ft 100% Mud BHT 115°F

IHP 2026#
 JFP 20-37# in 30 min.
 JSIP 1206# in 60 min.
 FFP 41-55# in 30 min.
 FSIP 1178# in 60 min.
 FHP 1972#

DST#3 Lower KC "A" 4000-4025
 IO Built to 2 inches in 30 min
 FO No Blow
 Rec 100 ft 100% Mud BHT 117°F

IHP 220#
 JFP 16-57# in 30 min.
 JSIP 1261# in 60 min.
 FFP 60-95# in 30 min.
 FSIP 1238# in 60 min.
 FHP 2032#

DST#4 Marmaton 4544-4558
 IF BOB 20 sec GTS during SI
 FF BOB 3 min Flowing Gas STM
 Rec 837 ft Total fluid + 3720 ft GIP
 651 ft gas oil and a little mud
 186 ft 75% G; 12% O; 3% W; 10% M
 BHT 122°F Grav. oil 34° API

IHP 2334#
 JFP 70-143# in 30 min.
 JSIP 892# in 60 min.
 FFP 195-258# in 60 min.
 FSIP 887# in 120 min.
 FHP 2180#

DST#5 Morrow 4953-4980
 IO weak surface blow FO V. weak
 surface blow Rec 15 ft 100% Mud
 BHT 125°F

IHP 2417#
 JFP 26-28# in 30 min
 JSIP 702# in 60 min
 FFP 30-33# in 30 min
 FSIP 842# in 120 min
 FHP 2302#

DST#6 Morrow 5014-5034
 IO Built to 2 inch in 30 min
 FO V. weak surface blow
 Rec 30 ft 100% Mud BHT 125°F

IHP 2435#
 JFP 28-61# in 30 min
 JSIP 768# in 60 min
 FFP 46-78# in 60 min
 FSIP 778# in 120 min
 FHP 2342#

Max. Inflow

| Date | 6-26 | 6-27 | 6-28 | 6-29 | 6-30 | 7-1 | 7-2 | 7-3 |
|-------|------|------|------|------|------|------|------|------|
| Depth | 376 | 377 | 4020 | 4108 | 4250 | 4388 | 4466 | 4550 |
| Wt. | 9.5 | 8.5 | 8.8 | 8.85 | 8.9 | 9.0 | 9.1 | 9.2 |
| Vis | 30 | 44 | 47 | 47 | 47 | 48 | 52 | 53 |
| PV | 2 | 12 | 14 | 14 | 14 | 15 | 16 | 16 |

| | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| PV | 2 | 12 | 14 | 14 | 14 | 15 | 16 | 16 |
| YP | 3 | 14 | 15 | 15 | 16 | 18 | 19 | 19 |
| GS | 2/4 | 12/34 | 14/37 | 14/40 | 14/38 | 14/35 | 14/37 | 15/38 |
| WL | N/C | 8.0 | 7.6 | 8.0 | 8.0 | 8.0 | 7.3 | 8.0 |
| cake | - | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 |
| pH | 7.0 | 10.5 | 9.5 | 8.5 | 9.0 | 9.5 | 10.0 | 10.0 |
| chl | 10000 | 1800 | 2800 | 2750 | 2750 | 3200 | 3800 | 4000 |
| Ca | HVY | 20 | 20 | 20 | 20 | 40 | 40 | 40 |
| LCM | 2 | 2 | 3 | 3 | 2 | 5 | 5 | 4 |

| | | | | | | |
|-------|---------------|---------------|---------------|--------------|--------------|-------------|
| Date | 7-4 10:00A | 7-5 12:00P | 7-6 11:00A | 7-7 1:15P | 7-8 6:30A | 7-9 12:P |
| Depth | 4714 | 4970 | 4980 | 5034 | 5110 | 5271 |
| WT | 9.1 | 9.3 | 9.3 | 9.3 | 9.0 | 9.1 |
| Vis | 50 | 50 | 51 | 56 | 53 | 58 |
| PV | 16 | 16 | 16 | 18 | 17 | 18 |
| YP | 18 | 19 | 19 | 20 | 20 | 22 |
| GS | 14/36 | 14/37 | 15/36 | 15/41 | 15/38 | 16/42 |
| WL | 8.0 | 7.6 | 8.0 | 8.0 | 8.0 | 8.0 |
| cake | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 |
| pH | 10.5 | 11.0 | 10.0 | 10.0 | 11.0 | 10.0 |
| chl | 3500 | 3200 | 3000 | 3200 | 3000 | 3000 |
| Ca | 40 | 40 | 40 | 40 | 40 | 40 |
| LCM | 3 | 4 | 4 | 4 | 3 | 3 |

OPERATOR BEREXCO LLC LOCATION 1320'FNL & 350'FEL
 LEASE STONE NO. 1-19 SEC. 19 TWP. 26S RANG. 33W
 ELEVATION 2937KB RTD 5310 COUNTY FINNEY STATE KANSAS



DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.06.28 @ 10:45:38

End Date: 2011.06.28 @ 23:41:53

Job Ticket #: 42218 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

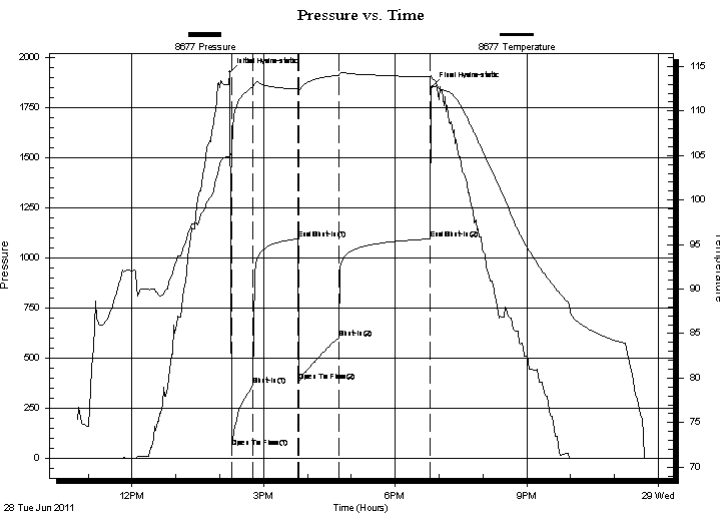
Stone #1-19
19-26s-33w Finney,KS
Job Ticket: 42218 **DST#: 1**
Test Start: 2011.06.28 @ 10:45:38

GENERAL INFORMATION:

Formation: **Lansing B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:15:53
Time Test Ended: 23:41:53
Interval: **3998.00 ft (KB) To 4008.00 ft (KB) (TVD)**
Total Depth: 4020.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle
Tester: Mike Slempp
Unit No: 53
Reference Elevations: 2937.00 ft (KB)
2925.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 Inside
Press @ Run Depth: 601.57 psig @ 4000.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.28 End Date: 2011.06.28 Last Calib.: 2011.06.28
Start Time: 10:45:39 End Time: 23:41:53 Time On Btm: 2011.06.28 @ 14:14:08
Time Off Btm: 2011.06.28 @ 18:50:38

TEST COMMENT: IF- BOB in 4 min
IS- 1 inch blow back
FF-BOB in 4 min
FS- No blow back



PRESSURE SUMMARY

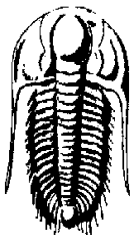
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1925.68 | 104.89 | Initial Hydro-static |
| 2 | 57.17 | 105.45 | Open To Flow (1) |
| 32 | 366.31 | 112.71 | Shut-In(1) |
| 93 | 1096.36 | 112.50 | End Shut-In(1) |
| 95 | 385.37 | 112.32 | Open To Flow (2) |
| 149 | 601.57 | 114.00 | Shut-In(2) |
| 273 | 1095.45 | 113.86 | End Shut-In(2) |
| 277 | 1854.41 | 113.67 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 738.00 | MCW 95%water5%mud | 4.49 |
| 884.00 | GCO 40%gas60%oil | 12.40 |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

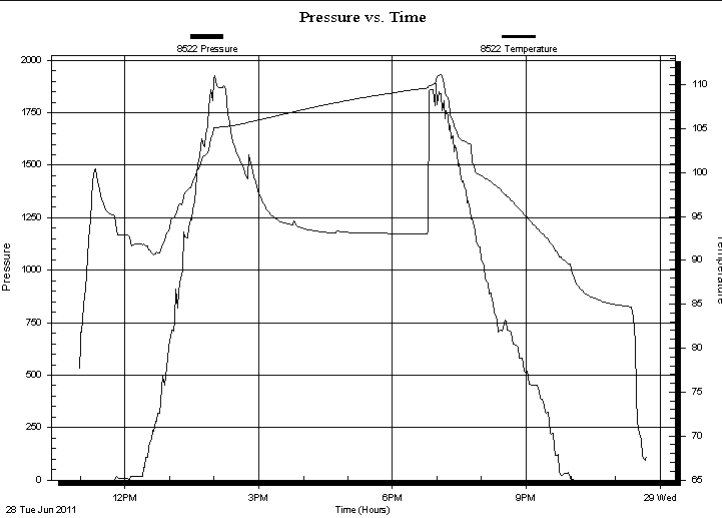
Stone #1-19
19-26s-33w Finney, KS
 Job Ticket: 42218 **DST#: 1**
 Test Start: 2011.06.28 @ 10:45:38

GENERAL INFORMATION:

| | |
|--|--|
| Formation: Lansing B | Test Type: Conventional Straddle |
| Deviated: No Whipstock: ft (KB) | Tester: Mike Slemp |
| Time Tool Opened: 14:15:53 | Unit No: 53 |
| Time Test Ended: 23:41:53 | |
| Interval: 3998.00 ft (KB) To 4008.00 ft (KB) (TVD) | Reference Elevations: 2937.00 ft (KB) |
| Total Depth: 4020.00 ft (KB) (TVD) | 2925.00 ft (CF) |
| Hole Diameter: 7.88 inches Hole Condition: Good | KB to GR/CF: 12.00 ft |

| | | | | | |
|--|-------------------------------|--------------------------------|--|--|--|
| Serial #: 8522 | Below (Straddle) | | | | |
| Press @ Run Depth: psig @ 4013.00 ft (KB) | Capacity: 8000.00 psig | | | | |
| Start Date: 2011.06.28 | End Date: 2011.06.28 | Last Calib.: 2011.06.28 | | | |
| Start Time: 10:58:54 | End Time: 23:42:23 | Time On Btm: | | | |
| | | Time Off Btm: | | | |

TEST COMMENT: IF- BOB in 4 min
 IS- 1 inch blow back
 FF-BOB in 4 min
 FS- No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 738.00 | MCW 95%w ater5%mud | 4.49 |
| 884.00 | GCO 40%gas60%oil | 12.40 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

Job Ticket: 42218

DST#: 1

ATTN: Ed Grieves

Test Start: 2011.06.28 @ 10:45:38

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3360.00 ft | Diameter: 3.80 inches | Volume: 47.13 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: 90000.00 lb |
| | | | <u>Total Volume: 50.29 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 31.00 ft | | | String Weight: Initial 88000.00 lb |
| Depth to Top Packer: | 3998.00 ft | | | Final 90000.00 lb |
| Depth to Bottom Packer: | 4008.00 ft | | | |
| Interval between Packers: | 10.00 ft | | | |
| Tool Length: | 49.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3977.00 | |
| Hydraulic tool | 5.00 | | | 3982.00 | |
| Jars | 5.00 | | | 3987.00 | |
| Safety Joint | 2.00 | | | 3989.00 | |
| Packer | 5.00 | | | 3994.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3998.00 | |
| Stubb | 1.00 | | | 3999.00 | |
| Perforations | 1.00 | | | 4000.00 | |
| Recorder | 0.00 | 8677 | Inside | 4000.00 | |
| Recorder | 0.00 | 8678 | Inside | 4000.00 | |
| Perforations | 7.00 | | | 4007.00 | |
| Blank Off Sub | 1.00 | | | 4008.00 | 10.00 Tool Interval |
| Packer | 5.00 | | | 4013.00 | |
| Recorder | 0.00 | 8522 | Below | 4013.00 | |
| Perforations | 5.00 | | | 4018.00 | |
| Bullnose | 3.00 | | | 4021.00 | 13.00 Bottom Packers & Anchor |
| Total Tool Length: | 49.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 42218

DST#: 1

ATTN: Ed Grieves

Test Start: 2011.06.28 @ 10:45:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

35000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 738.00 | MCW 95%water5%mud | 4.495 |
| 884.00 | GCO 40%gas60%oil | 12.400 |

Total Length: 1622.00 ft

Total Volume: 16.895 bbl

Num Fluid Samples: 0

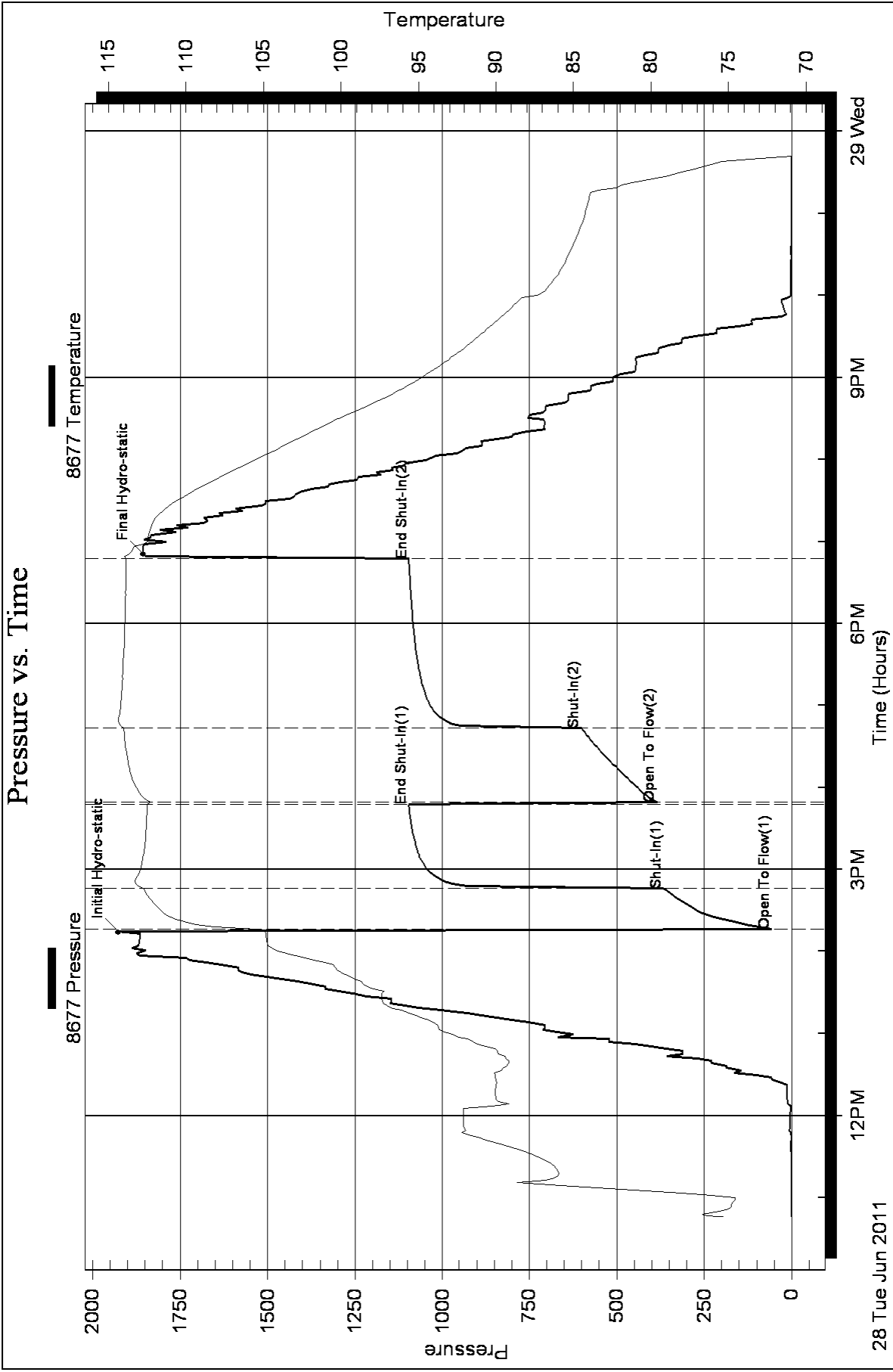
Num Gas Bombs: 0

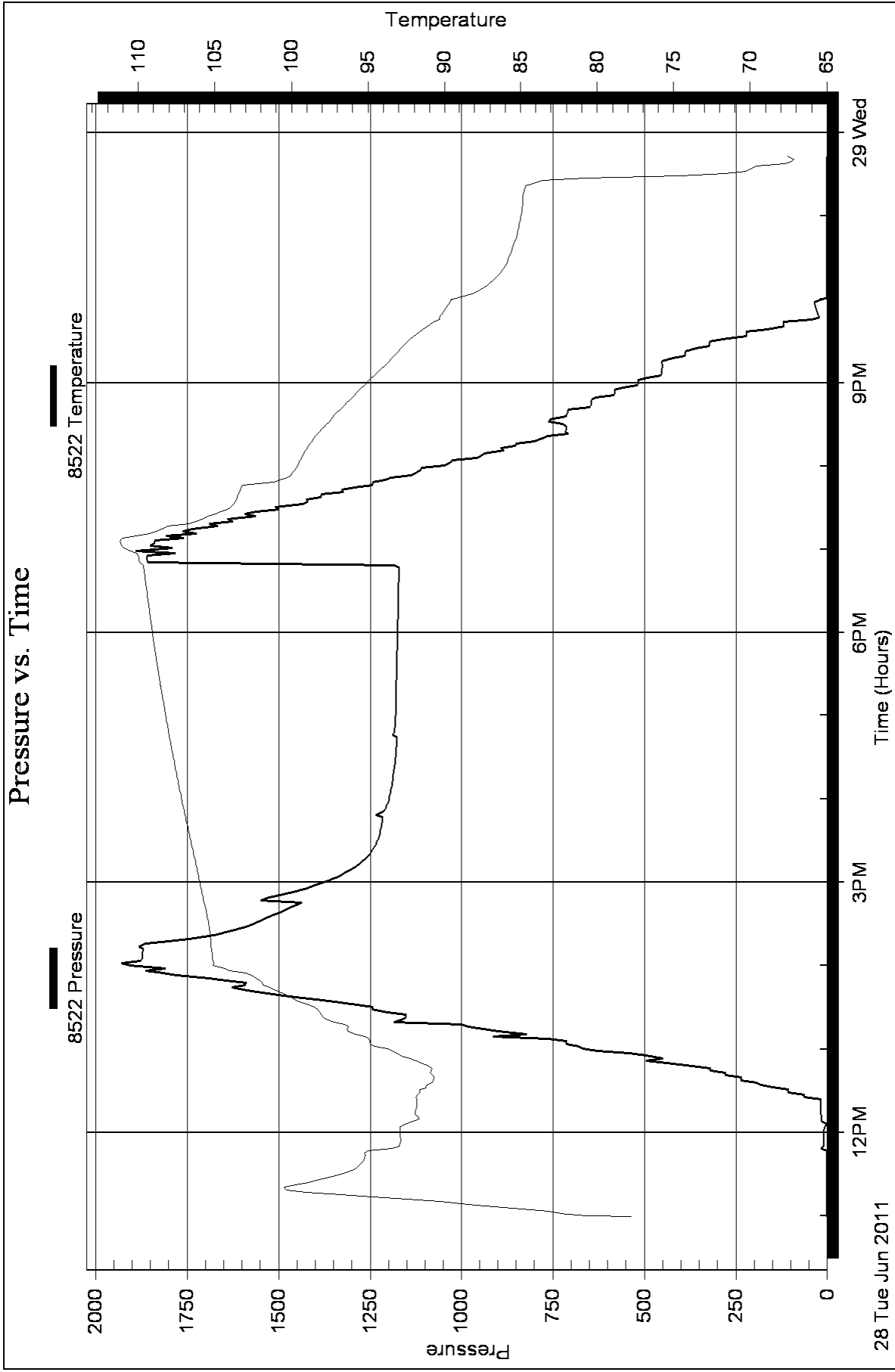
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.06.30 @ 04:50:39

End Date: 2011.06.30 @ 13:25:54

Job Ticket #: 42219 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

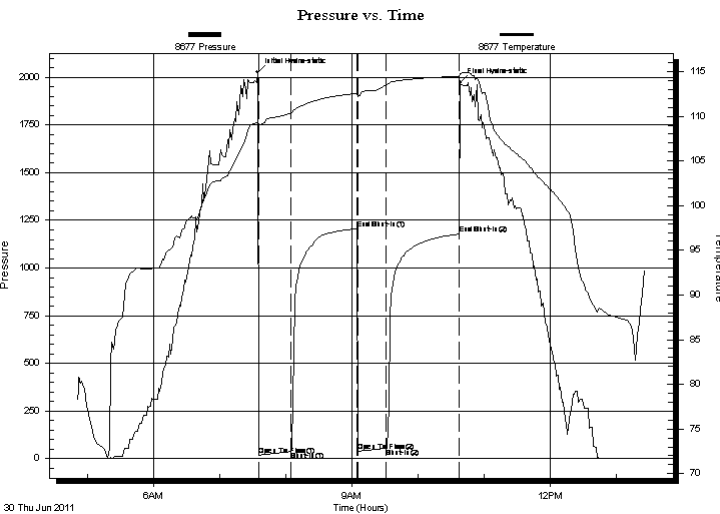
Stone #1-19
19-26s-33w Finney,KS
Job Ticket: 42219 **DST#: 2**
Test Start: 2011.06.30 @ 04:50:39

GENERAL INFORMATION:

Formation: **Lansing G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:35:24
Time Test Ended: 13:25:54
Interval: **4234.00 ft (KB) To 4250.00 ft (KB) (TVD)**
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Mike Slemp
Unit No: 53
Reference Elevations: 2937.00 ft (KB)
2925.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 Inside
Press @ Run Depth: 55.14 psig @ 4235.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.30 End Date: 2011.06.30 Last Calib.: 2011.06.30
Start Time: 04:50:40 End Time: 13:25:54 Time On Btm: 2011.06.30 @ 07:34:09
Time Off Btm: 2011.06.30 @ 10:37:54

TEST COMMENT: IF- Weak surface blow 1/2 inch in 30 min
IS- No blow back
FF- No blow
FS- No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2025.80 | 109.36 | Initial Hydro-static |
| 2 | 20.47 | 109.09 | Open To Flow (1) |
| 30 | 37.35 | 110.35 | Shut-In(1) |
| 90 | 1205.78 | 112.57 | End Shut-In(1) |
| 92 | 40.72 | 112.20 | Open To Flow (2) |
| 117 | 55.14 | 113.46 | Shut-In(2) |
| 183 | 1178.46 | 114.48 | End Shut-In(2) |
| 184 | 1972.44 | 114.80 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00 | mud | 0.15 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

Job Ticket: 42219

DST#: 2

ATTN: Ed Grieves

Test Start: 2011.06.30 @ 04:50:39

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3585.00 ft | Diameter: 3.80 inches | Volume: 50.29 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: 100000.0 lb |
| | | | <u>Total Volume: 53.45 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 15.00 ft | | | String Weight: Initial 88000.00 lb |
| Depth to Top Packer: | 4234.00 ft | | | Final 88000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 16.00 ft | | | |
| Tool Length: | 37.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 4218.00 | |
| Hydraulic tool | 5.00 | | | 4223.00 | |
| Safety Joint | 2.00 | | | 4225.00 | |
| Packer | 5.00 | | | 4230.00 | 21.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4234.00 | |
| Stubb | 1.00 | | | 4235.00 | |
| Recorder | 0.00 | 8678 | Inside | 4235.00 | |
| Recorder | 0.00 | 8677 | Inside | 4235.00 | |
| Perforations | 12.00 | | | 4247.00 | |
| Bullnose | 3.00 | | | 4250.00 | 16.00 Bottom Packers & Anchor |
| Total Tool Length: | 37.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 42219

DST#: 2

ATTN: Ed Grieves

Test Start: 2011.06.30 @ 04:50:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2750.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| 30.00 | mud | 0.148 |

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

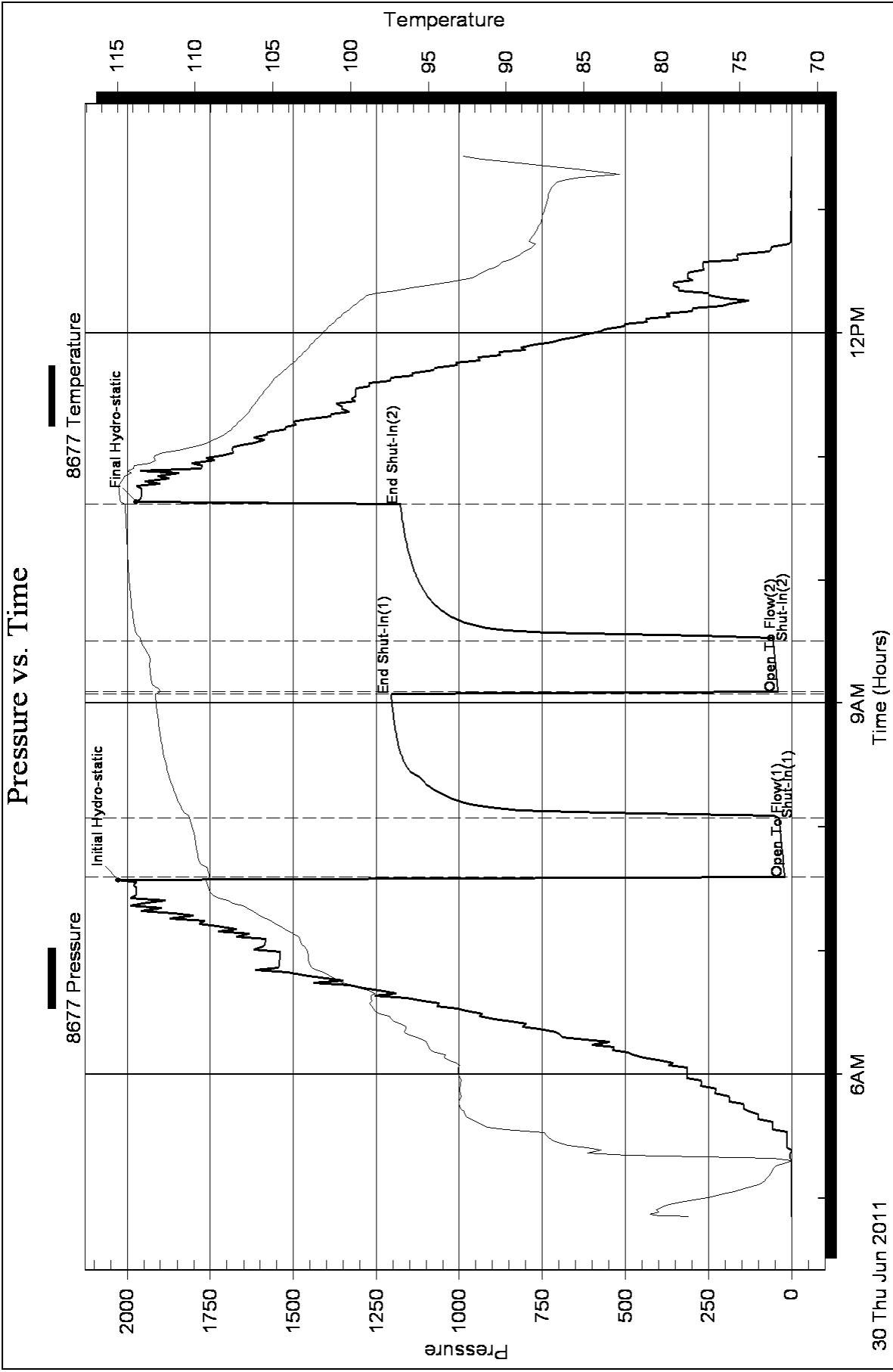
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.07.01 @ 15:22:15

End Date: 2011.07.02 @ 00:16:00

Job Ticket #: 43162 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

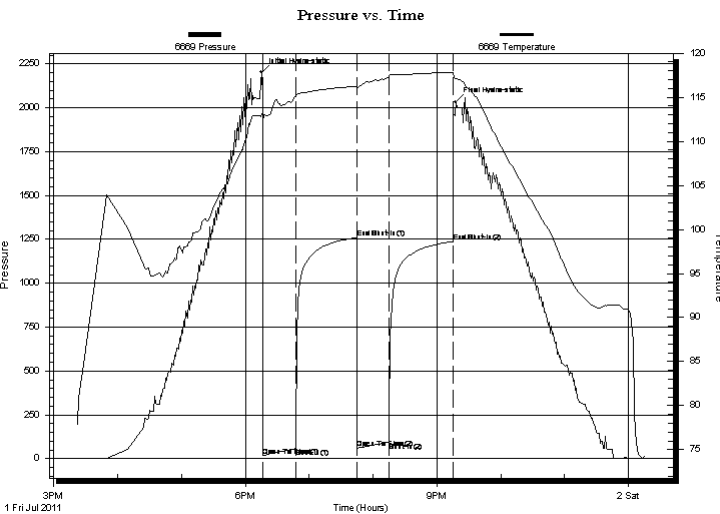
Stone #1-19
19-26s-33w Finney,KS
Job Ticket: 43162 **DST#: 3**
Test Start: 2011.07.01 @ 15:22:15

GENERAL INFORMATION:

Formation: **KC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:16:30
 Time Test Ended: 00:16:00
 Interval: **4400.00 ft (KB) To 4425.00 ft (KB) (TVD)**
 Total Depth: 4425.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2937.00 ft (KB)
 2925.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6669 Inside
 Press @ Run Depth: 95.93 psig @ 4401.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.01 End Date: 2011.07.02 Last Calib.: 2011.07.02
 Start Time: 15:22:15 End Time: 00:16:00 Time On Btm: 2011.07.01 @ 18:15:00
 Time Off Btm: 2011.07.01 @ 21:17:30

TEST COMMENT: IF: Built to 2" blow in 30 min
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2201.27 | 113.08 | Initial Hydro-static |
| 2 | 16.64 | 112.12 | Open To Flow (1) |
| 32 | 57.18 | 115.13 | Shut-In(1) |
| 90 | 1261.15 | 116.26 | End Shut-In(1) |
| 90 | 60.60 | 115.99 | Open To Flow (2) |
| 120 | 95.93 | 117.26 | Shut-In(2) |
| 180 | 1238.13 | 117.82 | End Shut-In(2) |
| 183 | 2032.29 | 117.14 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 100.00 | m 100% m | 0.49 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

Job Ticket: 43162

DST#: 3

ATTN: Ed Grieves

Test Start: 2011.07.01 @ 15:22:15

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3767.00 ft | Diameter: 3.80 inches | Volume: 52.84 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: 120000.0 lb |
| | | | <u>Total Volume: 56.00 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 31.00 ft | | | String Weight: Initial 95000.00 lb |
| Depth to Top Packer: | 4400.00 ft | | | Final 96000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 25.00 ft | | | |
| Tool Length: | 46.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|---------------------------|--------------|------|--------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4384.00 | |
| Hydraulic tool | 5.00 | | | 4389.00 | |
| Safety Joint | 2.00 | | | 4391.00 | |
| Packer | 5.00 | | | 4396.00 | 21.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4400.00 | |
| Stubb | 1.00 | | | 4401.00 | |
| Recorder | 0.00 | 6669 | Inside | 4401.00 | |
| Recorder | 0.00 | 8358 | Inside | 4401.00 | |
| Perforations | 19.00 | | | 4420.00 | |
| Bullnose | 5.00 | | | 4425.00 | 25.00 Bottom Packers & Anchor |
| Total Tool Length: | 46.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 43162

DST#: 3

ATTN: Ed Grieves

Test Start: 2011.07.01 @ 15:22:15

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 100.00 | m 100% m | 0.492 |

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

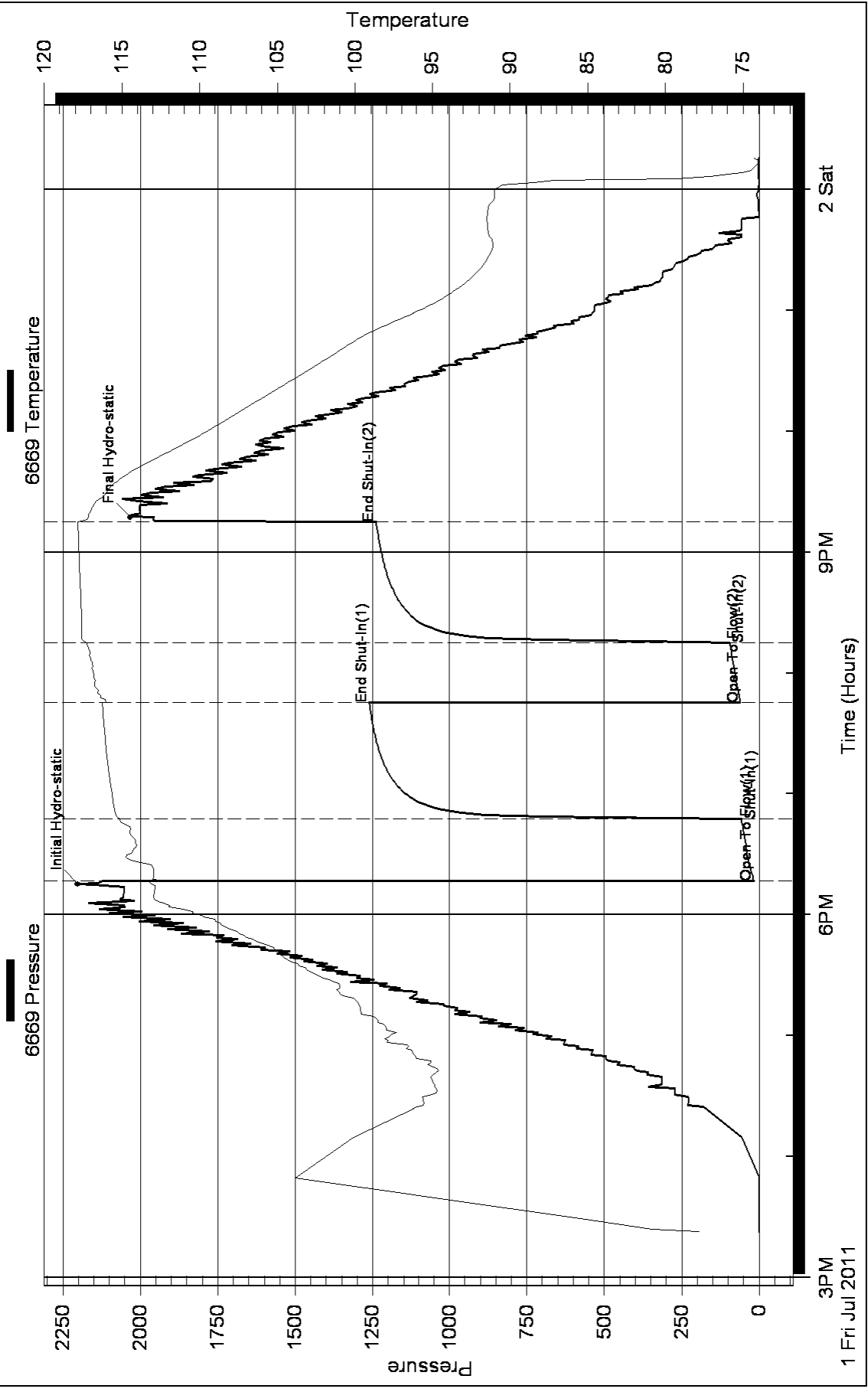
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.07.02 @ 02:00:15

End Date: 2011.07.02 @ 12:14:45

Job Ticket #: 43163 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

Stone #1-19
19-26s-33w Finney,KS
Job Ticket: 43163 **DST#: 4**
Test Start: 2011.07.02 @ 02:00:15

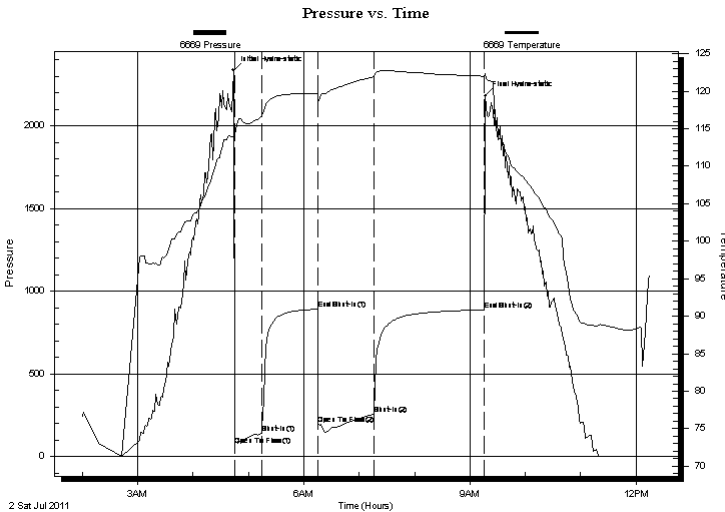
GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:45:00
Time Test Ended: 12:14:45
Interval: **4544.00 ft (KB) To 4558.00 ft (KB) (TVD)**
Total Depth: 4558.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 2937.00 ft (KB)
2925.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6669 Inside
Press @ Run Depth: 258.26 psig @ 4545.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.02 End Date: 2011.07.02 Last Calib.: 2011.07.03
Start Time: 02:00:15 End Time: 12:14:45 Time On Btm: 2011.07.02 @ 04:43:30
Time Off Btm: 2011.07.02 @ 09:16:30

TEST COMMENT: IF:BOB in 20 Sec.
IS:Bled off BOB in 3 min gas to surface...died to 6" blow
FF:BOB in 3 min. gas to surface
FS:Bled off for 10 min.. BOB in 3 min.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2334.58 | 113.91 | Initial Hydro-static |
| 2 | 70.63 | 114.11 | Open To Flow (1) |
| 31 | 143.16 | 116.65 | Shut-In(1) |
| 92 | 892.05 | 119.69 | End Shut-In(1) |
| 92 | 195.14 | 119.21 | Open To Flow (2) |
| 153 | 258.26 | 121.93 | Shut-In(2) |
| 272 | 887.56 | 122.00 | End Shut-In(2) |
| 273 | 2180.35 | 122.37 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 186.00 | w mwg 3%w 10%m 12%o 75%g | 0.91 |
| 186.00 | mcgo 20%m 40%g 40%o | 0.91 |
| 279.00 | gco 30%g 70%o | 1.44 |
| 93.00 | mcgo 5%m 45%g 50%o | 1.30 |
| 93.00 | free oil 100%o | 1.30 |
| 0.00 | GIP= 3720 feet | 0.00 |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 43163

DST#: 4

ATTN: Ed Grieves

Test Start: 2011.07.02 @ 02:00:15

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3889.00 ft | Diameter: 3.80 inches | Volume: 54.55 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: | 110000.0 lb |
| | | | <u>Total Volume: 57.71 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 9.00 ft | | | String Weight: Initial | 96000.00 lb |
| Depth to Top Packer: | 4544.00 ft | | | Final | 97000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 14.00 ft | | | | |
| Tool Length: | 35.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|---------------------------|--------------|------|--------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4528.00 | |
| Hydraulic tool | 5.00 | | | 4533.00 | |
| Safety Joint | 2.00 | | | 4535.00 | |
| Packer | 5.00 | | | 4540.00 | 21.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4544.00 | |
| Stubb | 1.00 | | | 4545.00 | |
| Recorder | 0.00 | 6669 | Inside | 4545.00 | |
| Recorder | 0.00 | 8358 | Inside | 4545.00 | |
| Perforations | 8.00 | | | 4553.00 | |
| Bullnose | 5.00 | | | 4558.00 | 14.00 Bottom Packers & Anchor |
| Total Tool Length: | 35.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

Job Ticket: 43163

DST#: 4

ATTN: Ed Grieves

Test Start: 2011.07.02 @ 02:00:15

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:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 186.00 | w mog 3%w 10%m 12%o 75%g | 0.915 |
| 186.00 | mcgo 20%m 40%g 40%o | 0.915 |
| 279.00 | gco 30%g 70%o | 1.445 |
| 93.00 | mcgo 5%m 45%g 50%o | 1.305 |
| 93.00 | free oil 100%o | 1.305 |
| 0.00 | GIP= 3720 feet | 0.000 |

Total Length: 837.00 ft

Total Volume: 5.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

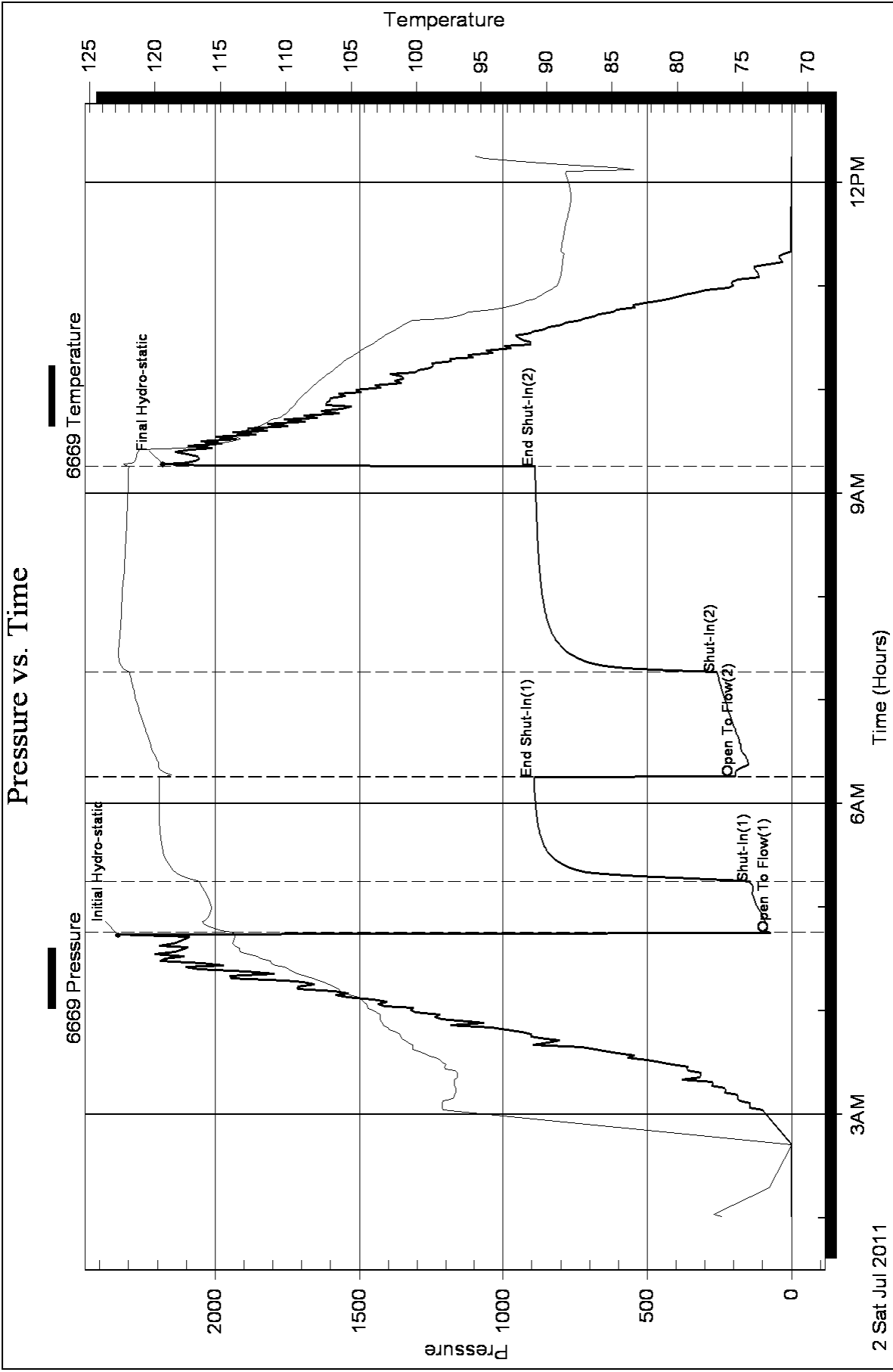
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: GIP= 3720 feet

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.07.05 @ 23:15:00

End Date: 2011.07.06 @ 09:28:30

Job Ticket #: 43164 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramble ood
Wichita, KS 67206
ATTN: Ed Grieves

Stone #1-19
19-26s-33w Finney,KS
Job Ticket: 43164 **DST#: 5**
Test Start: 2011.07.05 @ 23:15:00

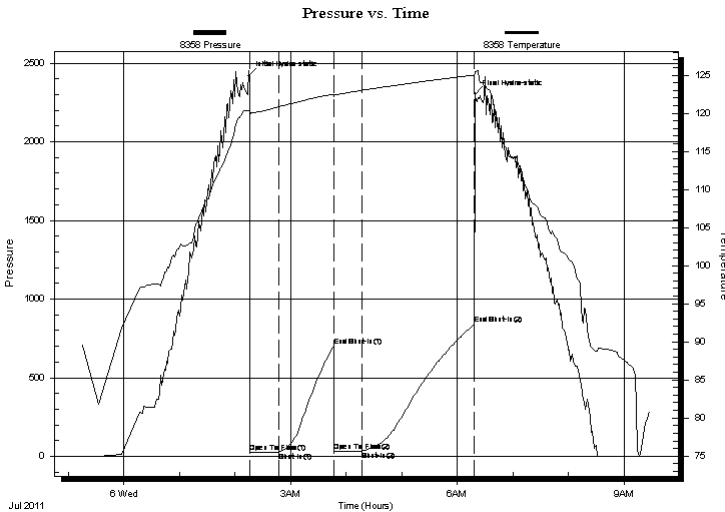
GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:16:15
Time Test Ended: 09:28:30
Interval: **4953.00 ft (KB) To 4980.00 ft (KB) (TVD)**
Total Depth: 4980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jace McKinney
Unit No: 48
Reference Elevations: 2937.00 ft (KB)
2925.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8358 **Inside**
Press @ Run Depth: 33.24 psig @ 4982.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.05 End Date: 2011.07.06 Last Calib.: 2011.07.06
Start Time: 23:15:15 End Time: 09:28:30 Time On Btm: 2011.07.06 @ 02:15:00
Time Off Btm: 2011.07.06 @ 06:19:15

TEST COMMENT: Weak Surface Blow
No Return Blow
Very Weak Surface Blow
No Return Blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2417.43 | 120.40 | Initial Hydro-static |
| 2 | 25.72 | 119.57 | Open To Flow (1) |
| 32 | 28.10 | 120.84 | Shut-In(1) |
| 92 | 701.92 | 122.52 | End Shut-In(1) |
| 92 | 30.23 | 122.18 | Open To Flow (2) |
| 122 | 33.24 | 123.02 | Shut-In(2) |
| 244 | 841.76 | 125.00 | End Shut-In(2) |
| 245 | 2302.47 | 125.42 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00 | M 100%M | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

ATTN: Ed Grieves

Job Ticket: 43164

DST#: 5

Test Start: 2011.07.05 @ 23:15:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4327.08 ft | Diameter: 3.80 inches | Volume: 60.70 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: 150000.0 lb |
| | | | <u>Total Volume: 63.86 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 16.08 ft | | | String Weight: Initial 100000.0 lb |
| Depth to Top Packer: | 4980.00 ft | | | Final 104000.0 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.00 ft | | | |
| Tool Length: | 53.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4959.00 | |
| Hydraulic tool | 5.00 | | | 4964.00 | |
| Jars | 5.00 | | | 4969.00 | |
| Safety Joint | 2.00 | | | 4971.00 | |
| Packer | 5.00 | | | 4976.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4980.00 | |
| Stubb | 2.00 | | | 4982.00 | |
| Recorder | 0.00 | 8358 | Inside | 4982.00 | |
| Recorder | 0.00 | 6669 | Outside | 4982.00 | |
| Perforations | 20.00 | | | 5002.00 | |
| Bullnose | 5.00 | | | 5007.00 | 27.00 Bottom Packers & Anchor |

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 43164

DST#: 5

ATTN: Ed Grieves

Test Start: 2011.07.05 @ 23:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 15.00 | M 100%M | 0.074 |

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

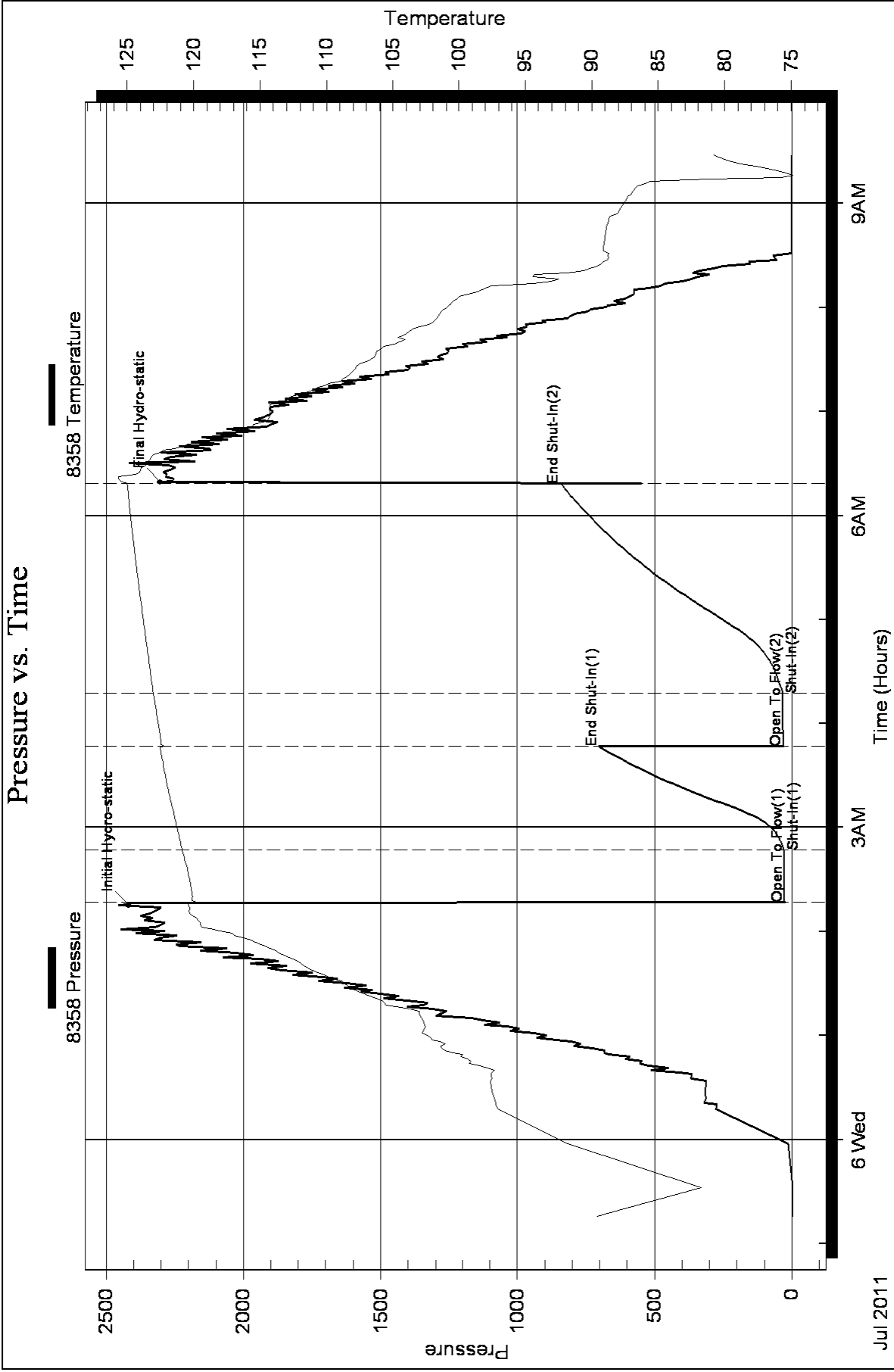
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N Bramblewood
Wichita, KS 67206

ATTN: Ed Grieves

19-26s-33w Finney,KS

Stone #1-19

Start Date: 2011.07.07 @ 04:35:00

End Date: 2011.07.07 @ 15:19:15

Job Ticket #: 43165 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC
 2020 N Bramblewood
 Wichita, KS 67206
 ATTN: Ed Grieves

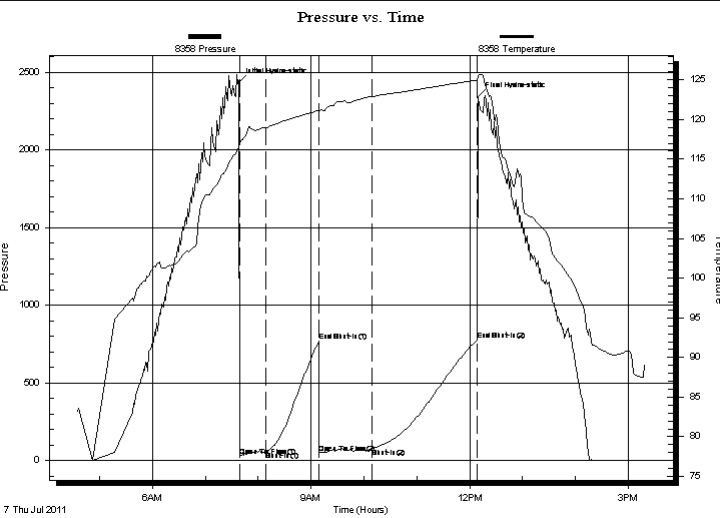
Stone #1-19
19-26s-33w Finney, KS
 Job Ticket: 43165 **DST#: 6**
 Test Start: 2011.07.07 @ 04:35:00

GENERAL INFORMATION:

Formation: **Morrow Fm.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:39:00
 Time Test Ended: 15:19:15
 Interval: **5014.00 ft (KB) To 5034.00 ft (KB) (TVD)**
 Total Depth: 5034.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jace McKinney
 Unit No: 48
 Reference Elevations: 2937.00 ft (KB)
 2925.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8358 Inside
 Press @ Run Depth: 77.61 psig @ 5035.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.07 End Date: 2011.07.07 Last Calib.: 2011.07.07
 Start Time: 04:35:15 End Time: 15:19:15 Time On Btm: 2011.07.07 @ 07:38:15
 Time Off Btm: 2011.07.07 @ 12:09:30

TEST COMMENT: Built to 1/2" Blow
 No Return Blow
 Very Weak Surface Blow
 No Return Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2435.17 | 116.42 | Initial Hydro-static |
| 1 | 28.42 | 116.48 | Open To Flow (1) |
| 31 | 61.07 | 118.93 | Shut-In(1) |
| 91 | 768.39 | 121.14 | End Shut-In(1) |
| 91 | 46.31 | 120.93 | Open To Flow (2) |
| 151 | 77.61 | 122.88 | Shut-In(2) |
| 271 | 778.45 | 124.96 | End Shut-In(2) |
| 272 | 2341.89 | 125.56 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00 | M 100% Mud | 0.15 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney, KS

ATTN: Ed Grieves

Job Ticket: 43165

DST#: 6

Test Start: 2011.07.07 @ 04:35:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4379.43 ft | Diameter: 3.80 inches | Volume: 61.43 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 20000.00 lb |
| Drill Collar: | Length: 643.00 ft | Diameter: 2.25 inches | Volume: 3.16 bbl | Weight to Pull Loose: | 150000.0 lb |
| | | | <u>Total Volume: 64.59 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 14.43 ft | | | String Weight: Initial | 100000.0 lb |
| Depth to Top Packer: | 5034.00 ft | | | Final | 102000.0 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 20.00 ft | | | | |
| Tool Length: | 46.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 5013.00 | |
| Hydraulic tool | 5.00 | | | 5018.00 | |
| Jars | 5.00 | | | 5023.00 | |
| Safety Joint | 2.00 | | | 5025.00 | |
| Packer | 5.00 | | | 5030.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 5034.00 | |
| Stubb | 1.00 | | | 5035.00 | |
| Recorder | 0.00 | 8358 | Inside | 5035.00 | |
| Recorder | 0.00 | 6669 | Outside | 5035.00 | |
| Perforations | 14.00 | | | 5049.00 | |
| Bullnose | 5.00 | | | 5054.00 | 20.00 Bottom Packers & Anchor |

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

Stone #1-19

2020 N Bramblewood
Wichita, KS 67206

19-26s-33w Finney,KS

Job Ticket: 43165

DST#: 6

ATTN: Ed Grieves

Test Start: 2011.07.07 @ 04:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 30.00 | M 100% Mud | 0.148 |

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

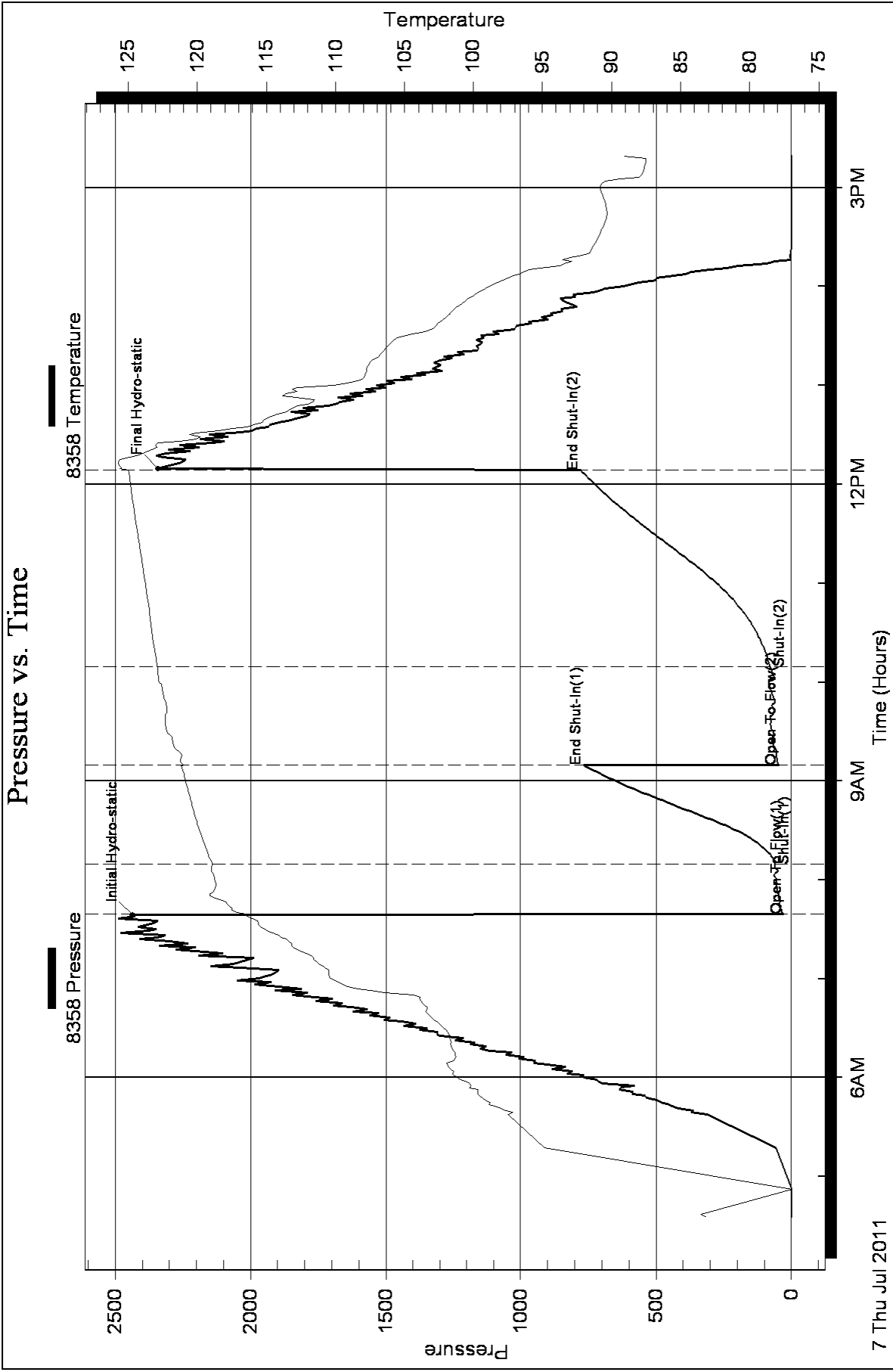
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 18, 2011

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-055-22103-00-00
Stone 1-19
NE/4 Sec.19-26S-33W
Finney County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Evan Mayhew