



1151469

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: 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | Melia 1-27 |
| Doc ID | 1151469 |

All Electric Logs Run

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | BEREXCO LLC |
| Well Name | Melia 1-27 |
| Doc ID | 1151469 |

Tops

| Name | Top | Datum |
|----------------|------|-------|
| Krider | 2686 | -142 |
| Winfield | 2714 | -170 |
| Heebner (base) | 4256 | -1712 |
| Lansing | 4378 | -1834 |
| Hushpuckney | 4741 | -2197 |
| KS City (base) | 4812 | -2268 |
| Marmaton | 4832 | -2288 |
| Pawnee | 4910 | -2366 |
| Ft. Scott | 4941 | -2397 |
| Cherokee | 4964 | -2420 |
| Mississippi | 5091 | -2547 |
| RTD | 5200 | -2656 |
| LTD | 5206 | -2662 |

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 12, 2013

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

Re: ACO1
API 15-057-20892-00-00
Melia 1-27
SE/4 Sec.27-27S-24W
Ford 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

ALLIED OIL & GAS SERVICES, LLC

060427

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Great Bend, KS
5-15-13

| | | | | | | | |
|--------------------------------|------------|--------------------------------|---------------|------------|---------------------|-------------------|--------------------|
| DATE 5-14-13 | SEC. 27 | TWP. 27S | RANGE 29W | CALLED OUT | ON LOCATION 8:00 pm | JOB START 2:30 AM | JOB FINISH 3:30 AM |
| LEASE Melina | WELL# 1-27 | LOCATION Ft Dodge 400 x 117 45 | | | COUNTY Ford | STATE KS | |
| OLD OR <u>NEW</u> (Circle one) | | | 1 1/2 W NINTO | | | | |

| | |
|---|------------------|
| CONTRACTOR <u>Berardo Drilling #2</u> | OWNER |
| TYPE OF JOB <u>Surface</u> | |
| HOLE SIZE <u>12 1/4</u> | T.D. |
| CASING SIZE <u>4 5/8</u> | DEPTH <u>596</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE <u>1 1/2</u> | DEPTH |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT |
| CEMENT LEFT IN CSG. <u>22 ft</u> | |
| PERFS. | |
| DISPLACEMENT <u>36.56 bbls freshwater</u> | |
| EQUIPMENT | |

| | |
|-----------------------------|---------------------------------|
| PUMP TRUCK # <u>597</u> | CEMENTER <u>Dustin Chambers</u> |
| | HELPER <u>Charles Kinyon</u> |
| BULK TRUCK # <u>609-241</u> | DRIVER <u>Ben Newell</u> |
| BULK TRUCK # | DRIVER <u>Pon Cooper</u> |

REMARKS:

Break off chlorine with rig and mix 225 gals 65/35 64 gel 3 trcc 1/2 Plo mix 100 gals class A 3 trcc 24 gel shut down T release plug replace 36.56 bbls freshwater plug plug #7500 plug down 3:00 AM 5-15-13 Rig down

CHARGE TO: Berardo LLC
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME x Jorge Tisoso
SIGNATURE x [Signature]
Thank You!!

| | | | |
|----------------|---------------------------------------|----------------|-----------------------|
| CEMENT | | | |
| AMOUNT ORDERED | <u>225 gals 65/35 class A</u> | | |
| | <u>35 1/2" 64 gel 3 trcc 1/2 Plo</u> | | |
| | <u>100 gals class A 3 trcc 24 gel</u> | | |
| COMMON | <u>100</u> | @ <u>17.90</u> | <u>1790.00</u> |
| POZMIX | | @ | |
| GEL | <u>2</u> | @ <u>23.40</u> | <u>46.80</u> |
| CHLORIDE | <u>11</u> | @ <u>64.00</u> | <u>704.00</u> |
| ASC | | @ <u>15.95</u> | <u>3.588.75</u> |
| | <u>225.5% lite wt</u> | @ <u>16.50</u> | <u>3.712.50</u> |
| | <u>Flow seal 57</u> | @ <u>2.97</u> | <u>169.29</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>363.78</u> | @ <u>2.48</u> | <u>902.17</u> |
| MILEAGE | <u>15.87 x 35 x 2.60</u> | @ <u>2.60</u> | <u>1.444.17</u> |
| | | | TOTAL <u>8.646.18</u> |

SERVICE

| | | | |
|-------------------|---------------|------------------|-----------------------|
| DEPTH OF JOB | <u>596</u> | | |
| PUMP TRUCK CHARGE | | @ <u>1512.25</u> | |
| EXTRA FOOTAGE | | @ | |
| MILEAGE | <u>HUM 35</u> | @ <u>7.70</u> | <u>269.50</u> |
| MANIFOLD | | @ | |
| | <u>HUM 35</u> | @ <u>4.40</u> | <u>154.00</u> |
| | | @ | |
| | | | TOTAL <u>1.935.75</u> |

PLUG & FLOAT EQUIPMENT

| | | |
|-----------------------------|-----------------|---------------------|
| <u>1-45/16 insert</u> | @ <u>446.94</u> | <u>446.94</u> |
| <u>1-45/16 Rubber plug</u> | @ <u>131.04</u> | <u>131.04</u> |
| <u>2-45/16 centralizers</u> | @ <u>74.88</u> | <u>149.76</u> |
| | @ | |
| | @ | |
| | | TOTAL <u>727.74</u> |

SALES TAX (If Any) _____
TOTAL CHARGES 11.308.67
DISCOUNT 3.392.60 IF PAID IN 30 DAYS
7.916.06

COMPANY BEREXCO LLC
 LEASE MELIA NO. 1-27
 LOCATION 1043FSL & 1716FEL
 SEC. 27 TWP. 27S RNG. 24W
 COUNTY FORD STATE KANSAS
 FIELD WILROADS NORTH

ELEVATIONS

KB 2544
 DF 2542
 GL 2531

MEASUREMENTS ARE ALL FROM KB

CASING RECORD

8.625" 596 w/ SH.
 " of " w/ " SH.
 " of " w/ " SH.
 " of " w/ " SH.

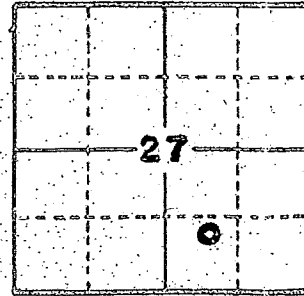
EL. LOG AR-IND-SP-GR
DEN-NEUT-GR-CAL-PR
ML-SONIC

CONTRACTOR BEREDCO DRLG. RIG NO. 2
 COMM. 5-13-2013 COMP. 5-26-2013
 RTD 5200 LTD 5106
 No. of DST'S 3 No. of CORES NONE

SAMPLES SAVED FROM 4500 TO TD
 DRILLING TIME KEPT FROM 4500 TO TD
 SAMPLES EXAMINED FROM 4500 TO TD
 GEOLOGICAL SUPERVISION FROM 4500 TO TD
 GEOLOGIST ON WELL EDWIN H. GRIEVES

FORMATION TOPS

| FORMATION | SAMPLE | LOG | SUBSEA |
|-------------|-------------|-------------|--------------|
| HUSHPUCKNEY | <u>4736</u> | <u>4741</u> | <u>-2197</u> |
| MARMATON | <u>4827</u> | <u>4832</u> | <u>-2288</u> |
| PAWNEE | <u>4906</u> | <u>4910</u> | <u>-2366</u> |
| FT. SCOTT | <u>4936</u> | <u>4941</u> | <u>-2397</u> |
| CHEROKEE | <u>4959</u> | <u>4964</u> | <u>-2420</u> |
| MISSISSIPPI | <u>5084</u> | <u>5091</u> | <u>-2547</u> |
| TD | <u>5200</u> | <u>5206</u> | |



API NO. 15-057-20892

REMARKS Fracture Tech (1-899-549-9379) had a run-in run-out 925 detection frailer on this well from 4500 feet to total depth

Note: E-Log Tops 5 feet lower than geological log.

32
K. Y. Dyer
Edwin H. Griev
Geo

LITHOLOGY

- SANDSTONE
- LIMESTONE
- SHALE
- GENT
- SILTSTONE
- DOLOMITE
- GRANITE WASH
- ANY & GYP

CHROMATOGRAPHY

- C1 = METHANE
- C2 = ETHANE
- C3 = PROPANE
- C4 = BUTANE
- C5 = PENTANE
- C6 = ISOPENTANE

HOT WIRE BY TOTAL GAS VOLUME

4500

Lms. sl.ites. wht to crm-chlk and grayish tan to tan; crypto to v. fine sub-chlk, sub-succo & packstn; dul. H. yel. to sl.ites. H. yel-fluor; No Cut; No Vis Por

Lms. abn. wht to crm-chlk & tan; crypto to v. fine sh.; sub-chlk, sub-succo to v. succo; dul. yel-fluor; No Cut; v. abn. pr. to fr. & tes. gd micro pp & prob. interxn por

Lms. w/ prob. Interbeds Shales
 ① Lms. tr. to hvy. tes. wht to crm-chlk & H. gray to tan; crypto to v. fine sh.; sub-chlk, sub-succo, packstn & tes sub-lithog R.; dul. yel-fluor No Cut; No Vis Por

② Faster Delq Lms - wht to crm-chlk or Sh. med to v. dk. gray - sl. to extly. calc. lps

Lms. tan; crypto to v. fine sh. tes sub-chlk, sub-succo to succo Phantom oolitic lps; dul. H. yel. to dul yel-fluor; No Cut; abn. pr. to fr. & tes. gd. micro pp & poss. interxn por

Lms. similar 4550-4612

Sh. med. to drk. gray; tes greenish

Lms. grayish tan to tan; crypto to v. fine sh.; sub-chlk, sub-succo & packstn; dul. H. yel-fluor; No Cut; No Vis Por

Lms. tes to hvy tes wht to crm-chlk & tan, grayish. lps; crypto to v. fine sh. v. to ex. ool. calcitic por. to extly. oolitic matrix sub-chlk, sub-succo & packstn dul. yel-fluor; No Cut; abn. pr. to fr. & tes. excel. oolitic por; v. best seen

Lms. tes. wht to crm-chlk & crm to tan grayish. lps; crypto to v. fine sh.; v. abn. sub-chlk, sub-succo, packstn & tes sub-lithog R.; dul. H. yel-fluor; No Cut; No Vis Por

Lms similar 4666-4685 w/

much less sub-chlk & much more packstn & sub-lithog R. Prob. Sh. v. dk. gray to black

Lms similar 4685-4695
 Lms. hvy. tes. wht to crm-chlk & tan; grayish. lps; crypto to v. fine sh. sub-chlk sub-succo & packstn; tes. sub-lithog R. Phantom oolitic lps; dul. H. yel-fluor No Cut; No Vis Por

Lms. lt. gray to tan; crypto to v. fine sh. tes. sub-chlk, tes sub-succo, packstn & sub-lithog R.; dul. H. yel. fluor No Cut; No Vis Por w/ hvy tes chert gray, opaque

Sh. v. dk. gray to blk. - carb

Lms. lt. to med. gray - sl. to extly. Shly. gray to calc. Shs. grayish tan to tan; crypto to v. fine sh.; sub-chlk from shly, sub-succo, packstn & tes. sub-lithog R. tes. yel. fluor; No Cut; No Vis Por

4500

BIT TRIP 4500

TRAP ONECH

40000

RPM 75-90

SPM 54

PP 10000

TRAP ONECH

4600

4700

Mushpuckney
 4736-2192

311

RECYCLE 600

Lms. fms. crm. chlk & tan crypto
to v. f. xln. w/ fms med. calc. base
w/ht to clear calc. xls. & fragm.
sub-chk. sub-succ. to succ. and
pachy. d. w. h. yellow. No cut
fms. p. r. micr. p. p. poss. interbed
por & prob. irregular por

4800

Lms. H., med. to tes. dek. gray - sl. to
extely. Shly gradng. to calc. Shs &
grayish tan to tan crypto to v. f. xln

sub-chk. to re. Shly sub-succ. &
fract. tan & sh. fms. sub-1/3 through
fms. d. w. h. yellow. No cut; No Vis Por

Sh med. to v. dek. gray - sl. to
extely calc. to black - carb

Interbedded Limestones and Shales
① Lms H. gray. to tan; crypto. to v. f. xln
fms. sub-chk; fms sub-succ. & gradng. to
d. w. h. yellow; No cut; No Vis Por.
② Sh. med. to v. dek. gray - calc. lps
greenish lps to tan green
w/ fms. v. dek. gray. to black

DST #1

Lms. grayish tan to tan; crypto to tan
xln; fms. sub-chk; sub-succ. & gradng. to
fms. sub-lith. gradng. to v. f. xln. w/
cl. w. h. yellow. No cut; No Vis Por.
③ Sh. med. to v. dek. gray - calc. lps
greenish lps to tan green
w/ fms. v. dek. gray. to black

4900

sh. v. dek. gray to black - carb
Lms. similar 4827-4904

Lms. tan to tan; crypto to tan
xln; fms. sub-chk; sub-succ. & gradng. to
fms. sub-lith. gradng. to v. f. xln. w/
cl. w. h. yellow. No cut; No Vis Por.
④ Sh. med. to v. dek. gray - calc. lps
greenish lps to tan green
w/ fms. v. dek. gray. to black

4922-4926

Lms. similar 4922-4926
Lms. similar 4922-4926
Sh. v. dek. gray to black - carb

Lms. tan; crm. chlk & tan; crypto to
tan; fms. sub-chk; sub-succ. & gradng. to
fms. sub-lith. gradng. to v. f. xln. w/
cl. w. h. yellow. No cut; No Vis Por.
⑤ Sh. med. to v. dek. gray - calc. lps
greenish lps to tan green
w/ fms. v. dek. gray. to black

Sh v. dek. gray to black - carb
Lms. lt. gray to tan; crypto. to tan; fms
tan. sub-chk; sub-succ. & gradng. to
fms. sub-lith. gradng. to v. f. xln. w/
cl. w. h. yellow. No cut; No Vis Por
w/ prob. interbeds Shs med to
dek. gray - calc lps

Sh v. dek. gray to black - carb
4986-5047 Interbedded Lmsts & Shs
① Lms. H. gray to tan; crypto to tan; fms
sub-chk; fms sub-succ. & gradng. to
sub-lith. gradng. to v. f. xln. w/ fms
med. calc. base

② Shs med to v. dek. gray to tes. blk.
5047-5069
Conglomerate of lms & Shs
③ Lms. similar 4986-5047
④ Verigated Shs med to v. dek. gray
greenish & reds
⑤ Lms. tan to tan; crypto to tan; fms
sub-chk; fms sub-succ. & gradng. to
sub-lith. gradng. to v. f. xln. w/ fms
med. calc. base

DST

Marmaton
4827-4926

WOB 49000
SPM 49190
PP 1050

POSS. SHOW 3 U

PROB. SHOW 3 U

WOB 49000
SPM 49190
PP 1050

PROB. SHOW 3 U

PROB. SHOW 3 U

WOB 49000
SPM 49190
PP 1050

PROB. SHOW 3 U

PROB. SHOW 3 U

WOB 49000
SPM 49190
PP 1050

PROB. SHOW 3 U

PROB. SHOW 3 U

PROB. SHOW 3 U

PROB. SHOW 3 U

WOB 49000
SPM 49190
PP 1050

gd to fr. stemming cuts pass.
interx in por in sandstone
pass & fracturing

5069-5084 Congl. Lms - Chert w/ Sh
① Lms similar # 5 description
5047-5069

② Chert yellowish, sl. to fely
weathered 1/2 fely to highly weathered
sp. to the surface. In calc. in
faint oil odor, yellowish yellow
flashed to fely. Shiny cuts huytes
p. fr. to gd & sl. to excel. micropor.
sl. to vug w/ are por. ③ Verigated
sl. to vug w/ are por. reds blue gray
85% Fresh chert offcut in the oppo
5 sl. to v. weathered w/ show & por
similar 5069-5084
5069-5084 5 Verigated sl. to fely
Dol. in bank in oil str. in v. to suc
fl. to suc. in oil str. in v. to suc
fl. to suc. in oil str. in v. to suc
w/ Prob g. to excel
interx in por

Interbedded Dolomites and
Limestones w/ Chert
① Slower Delg Lms tes w/ to
crunch and tan grayish. lps
crypto. to vug. in. this subchik
sub-sucro. patches and
sub-litho graphic sl. to fely.
dolomitic lps. w/ yellow
No cut. No vis. por

② Faster Delg. Polomite
Tan. crypto. to vug. in. xlmj
sub-chik sub-sucro to sucro.
sl. to fely. calc. lps
dul. H. yellow. No cut
tes. pr. to fr. micropor. pp. por.
lps and prob. good to excel.
interx in por.
③ tes to huy. tes Chert
gray. to tan & tes ORANGE
opaque to tes trans.

TD 5200

7 7/8 inch Bit Into:
#1 PDC in 596 out 4500
#2 New Smith F27 YVP in 4500 out 5200 TD

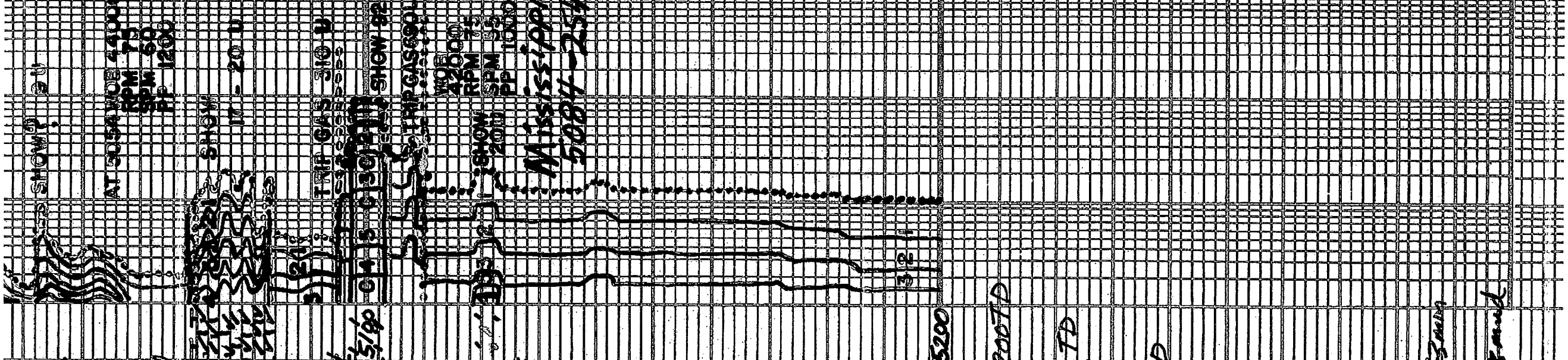
Dev. Surev
1. 1098 3/4 2374 1° 7.5095 1/2°
2. 1627 1/2 5 4500 ? 8.5200 1/4°
3. 1868 1° 6 4925 1/2° TD

Cir Points
1. 4925 3. 5083 5. 5110
2. 5070 4. 5095 6. 5200 TD
Daily Delg Progress

| | | |
|---------|------------|---------|
| 1. 3499 | AT 7:00 AM | 5-18-13 |
| 2. 4500 | AT 7:23 AM | 5-19-13 |
| 3. 4627 | AT 7:00 AM | 5-20-13 |
| 4. 4858 | AT 7:00 AM | 5-21-13 |
| 5. 4925 | AT 7:00 AM | 5-22-13 |
| 6. 5032 | AT 7:00 AM | 5-23-13 |
| 7. 5095 | AT 7:00 AM | 5-24-13 |
| 8. 5110 | AT 7:00 AM | 5-25-13 |
| 9. 5200 | AT 7:00 AM | 5-26-13 |

DST #1 Pawnee 4900-4925
10 surf to 12.30 min FOSurf to 8084 13 min
Rec 90 GIP + 455 fluid
10ft 1002 Clean Oil
445 Vsl. 0.1 cft MW Tr 0.1752 w 258 mud

BHT 122 OF GR2V 38 API
RW - 12 @ 65 F Vestor. CHI



DST 1227 GRV 58 AFI
RW - 1205 F Vestor Chl

Mud Engineered Treated 59000 ppm
Pit Chl 6500 ppm

IHP 2566
IFF 23-140 in 30 min
ISIP 1269 in 60 min
FFP 145-239 in 60 min
FSIP 1269 in 120 min
FHP 2466

DST #2 Cherokee Miss. 5045-5095

IF Strong Blow Bob 30 sec
FD Strong Blow Bob Inmed GTS 45 min
Rec 10 ft Mud 100% Mud

BHT 1170 F
IHP 2455 #
IFF 24-27 # in 30 min
ISIP 808 # in 60 min
FFP 24-29 # in 60 min
FSIP 729 # in 120 min
FHP 2405 #

Flow Infr 64 MCFPD
min 1/8 1.840
33 1.015

DST #3 Mississippi 5096-5110
10 Strong Blow Bob 30 sec
1st Bled off Strong Blow Back

Bob 20 sec
FF Strong Blow Bob Inmed.
FST Bled off Strong Blow Back

Bob GTS near end of final shot in
Rec 60ft Muddy wtk w/ few spots oil in tool
90% wtr 10% Mud

BHT 1120 F Rv. 37 @ 740 F
PIT Chl 6900 ppm

Test for calc. chl 20000 ppm
Mud Engineered Treated 11000 ppm

IHP 2420 #
IHP 12-32 # in 30 min
ISIP 1562 # in 60 min
FFP 33-155 # in 60 min
FSIP 1388 # in 120 min
FHP 2422 #

Mud Info:

| | | | | | | | | |
|-------|------------|-------------|------------|------------|------------|------------|-----------|------------|
| Date | 5-18 4:30P | 5-19 11:00A | 5-20 6:50A | 5-21 7:05A | 5-22 1:00P | 5-23 1:00P | 5-24 5:25 | 5-25 5:15A |
| Depth | 3718 | 3785 | 4497 | 4632 | 4856 | 4925 | 5076 | 5095 |
| Wt | 10.1 | 8.2 | 9.2 | 9.3 | 9.35 | 9.25 | 9.25 | 9.2 |
| Vis | 28 | 51 | 45 | 56 | 53 | 49 | 55 | 63 |
| PV | 1 | 16 | 13 | 15 | 16 | 13 | 17 | 19 |
| YP | 2 | 18 | 14 | 16 | 17 | 15 | 21 | 19 |
| GS | 1/2 | 16/49 | 17/37 | 17/50 | 16/49 | 14/49 | 18/53 | 16/51 |
| NL | N/C | 12.8 | ? | 11.6 | 12.0 | 16.0 | 10.8 | 10.4 |
| Case | - | 1/32 | 3/32 | 1/32 | 1/32 | 1/32 | 1/32 | 1/32 |
| pH | 7.0 | 11.0 | 9.0 | 10.0 | 10.0 | 9.0 | 10.5 | 10.0 |
| Chl | 39000 | 7800 | 5800 | 7600 | 6700 | 13600 | 6000 | 6700 |
| Ca | MVY | 20 | 20 | 40 | 20 | 280 | 20 | 20 |

INT LTLD
 IFP 12-32# in 30 min
 ISIP 1562# in 60 min
 FFP 33-155# in 60 min
 FSIP 1388# in 120 min
 FHP 2422#

Mud Info:

| | | | | | | | | |
|-------|---------------|----------------|---------------|---------------|---------------|---------------|--------------|---------------|
| Date | 5-18 4:30P | 5-19 11:00A | 5-20 5:30A | 5-21 7:05A | 5-22 12:5P | 5-23 1:00P | 5-24 5:25 | 5-25 5:57A |
| Depth | 3718 | 4497 | 4632 | 4858 | 4925 | 5076 | 5095 | 5110 |
| Wt. | 10.1 | 8.7 | 9.3 | 9.35 | 9.25 | 9.25 | 9.25 | 9.2 |
| Vis | 28 | 51 | 45 | 53 | 49 | 55 | 63 | 52 |
| PV | 1 | 16 | 13 | 16 | 13 | 17 | 19 | 15 |
| YP | 2 | 18 | 14 | 17 | 15 | 21 | 19 | 16 |
| GS | 1/2 | 16/49 | 17/50 | 16/49 | 14/49 | 18/53 | 18/51 | 16/51 |
| NL | N/C | 12.8 | ? | 11.6 | 12.0 | 10.8 | 10.4 | 12.4 |
| Case | - | 132 | 32 | 132 | 132 | 132 | 132 | 132 |
| pH | 7.0 | 11.0 | 9.0 | 10.0 | 9.0 | 10.5 | 10.0 | 10.0 |
| Chl | 39000 | 7800 | 5800 | 7600 | 6700 | 13600 | 6000 | 6900 |
| Ca | HVY | 20 | 20 | 40 | 20 | 280 | 20 | 20 |
| LCM | 1 | 4 | 2 | 2 | 1 | 2 | 2 | 2 |

OPERATOR BEREXCO, L.L.C. LOCATION 1043FSL & 176FEL
 LEASE MELIA NO. 1-27 SEC. 27 TWP. 27S RANG. 24W
 ELEVATION 2544KB RTD 5200 COUNTY FORD STATE KANSAS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 50493

DST#: 1

ATTN: Ed Grieves Evan May

Test Start: 2013.05.21 @ 22:49:29

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 01:27:44

Time Test Ended: 09:14:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 48

Interval: 4900.00 ft (KB) To 4925.00 ft (KB) (TVD)

Reference Elevations: 2544.00 ft (KB)

Total Depth: 4925.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8790

Inside

Press @ RunDepth: 238.76 psig @ 4901.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.21

End Date:

2013.05.22

Last Calib.:

2013.05.22

Start Time: 22:49:34

End Time:

09:14:29

Time On Btm:

2013.05.22 @ 01:22:14

Time Off Btm:

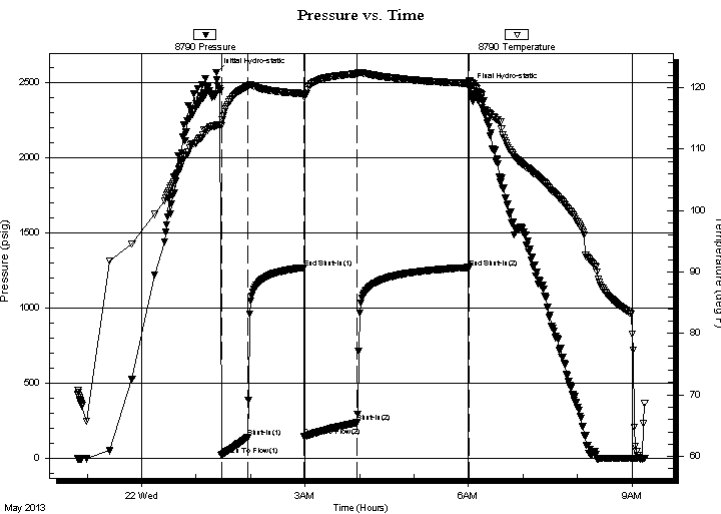
2013.05.22 @ 06:01:14

TEST COMMENT: IF: Strong blow . surf. - 12"

IS: No blow

FF: Strong blow . surf. - BOB @ 43min.

FS: No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2566.07 | 113.76 | Initial Hydro-static |
| 6 | 22.96 | 113.74 | Open To Flow (1) |
| 35 | 140.16 | 120.19 | Shut-In(1) |
| 97 | 1268.67 | 119.02 | End Shut-In(1) |
| 97 | 144.97 | 118.55 | Open To Flow (2) |
| 155 | 238.76 | 122.23 | Shut-In(2) |
| 279 | 1269.41 | 120.69 | End Shut-In(2) |
| 279 | 2466.03 | 121.10 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 445.00 | VSLI OCMW trc%oil, 25%mud, 75%wt | 3.82 |
| 10.00 | Clean oil 100%oil (38grav) | 0.14 |
| 0.00 | 90' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 50493

DST#: 1

ATTN: Ed Grieves Evan May

Test Start: 2013.05.21 @ 22:49:29

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:

69000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|------------------------------------|----------------|
| 445.00 | VSLI OCMW trc%oil, 25%mud, 75%w tr | 3.819 |
| 10.00 | Clean oil 100%oil (38grav) | 0.140 |
| 0.00 | 90' GIP | 0.000 |

Total Length: 455.00 ft

Total Volume: 3.959 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

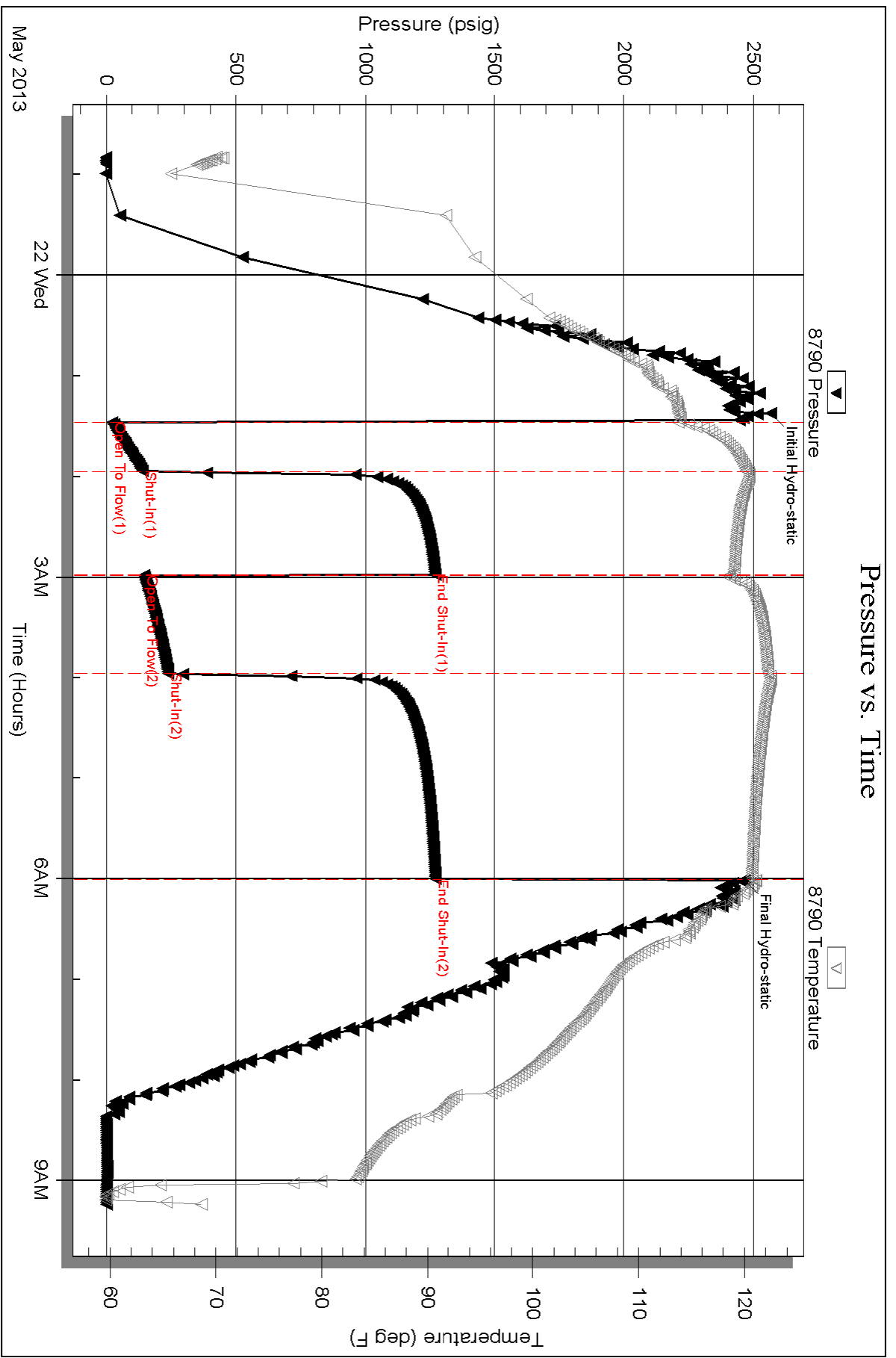
Serial #: 8790

Inside

Berexco, LLC.

Mella 1-27

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 50494

DST#: 2

ATTN: Ed Grieves Evan May

Test Start: 2013.05.24 @ 00:19:14

GENERAL INFORMATION:

Formation: **Cherokee / Miss.**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:47:44

Time Test Ended: 09:33:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 5045.00 ft (KB) To 5095.00 ft (KB) (TVD)

Reference Elevations: 2544.00 ft (KB)

Total Depth: 5095.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8790

Inside

Press @ RunDepth: 29.22 psig @ 5046.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.24

End Date:

2013.05.24

Last Calib.:

2013.05.24

Start Time: 00:19:19

End Time:

09:33:14

Time On Btm:

2013.05.24 @ 02:45:14

Time Off Btm:

2013.05.24 @ 06:57:14

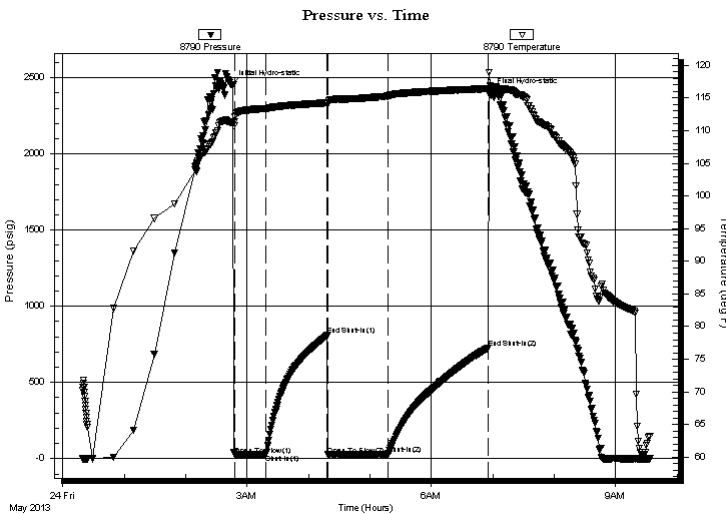
TEST COMMENT: IF: Strong blow . BOB @ 30sec.

IS: No blow

FF: Strong blow . BOB immed. GTS @ 45min.

FS: No blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2454.64 | 111.26 | Initial Hydro-static |
| 3 | 24.30 | 111.39 | Open To Flow (1) |
| 34 | 26.53 | 113.36 | Shut-In(1) |
| 93 | 807.80 | 114.26 | End Shut-In(1) |
| 94 | 24.38 | 114.18 | Open To Flow (2) |
| 153 | 29.22 | 115.28 | Shut-In(2) |
| 251 | 728.50 | 116.44 | End Shut-In(2) |
| 252 | 2405.32 | 116.83 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 10.00 | Drig mud 100%mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 50494

DST#: 2

ATTN: Ed Grieves Evan May

Test Start: 2013.05.24 @ 00:19:14

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:

6000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 10.00 | Drig mud 100%mud | 0.049 |

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

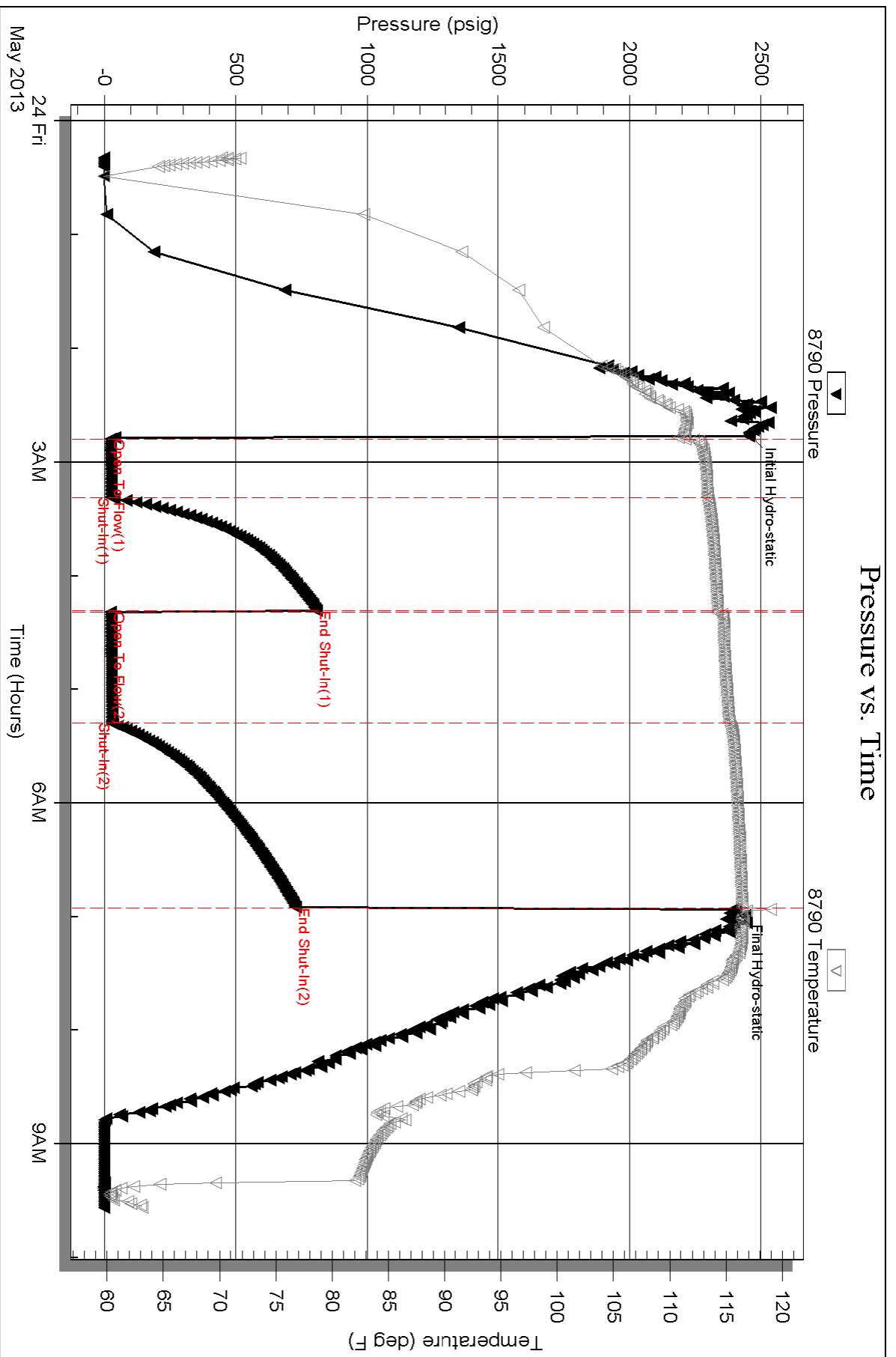
Serial #: 8790

Inside

Berexco, LLC.

Mella 1-27

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 52320

DST#: 3

ATTN: Ed Grieves Evan May

Test Start: 2013.05.24 @ 23:47:56

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:52:26

Time Test Ended: 10:32:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 5096.00 ft (KB) To 5110.00 ft (KB) (TVD)

Reference Elevations: 2544.00 ft (KB)

Total Depth: 5110.00 ft (KB) (TVD)

2531.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8676

Press @ RunDepth: 155.89 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.24

End Date:

2013.05.25

Last Calib.:

2013.05.25

Start Time: 23:48:01

End Time:

10:32:26

Time On Btm:

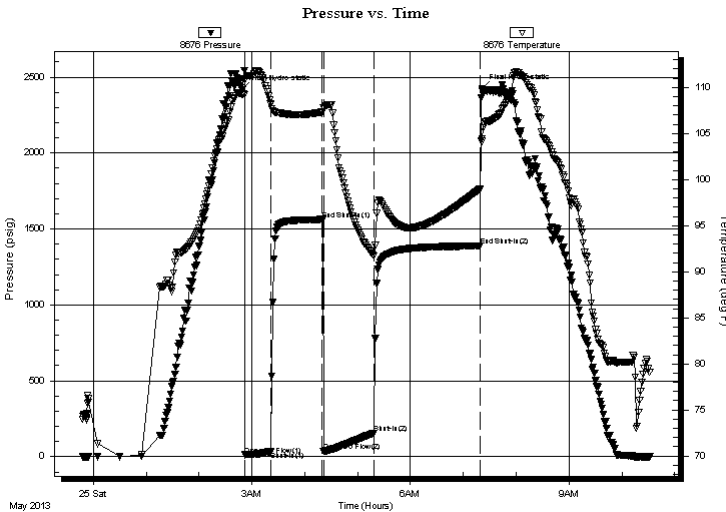
2013.05.25 @ 02:48:56

Time Off Btm:

2013.05.25 @ 07:21:11

TEST COMMENT: IF: Strong blow BOB 30 sec
IS: Strong blow back BOB 20 sec
FF: Strong blow BOB
FS: Strong blow back GTS

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2420.27 | 109.27 | Initial Hydro-static |
| 4 | 12.29 | 110.83 | Open To Flow (1) |
| 33 | 32.89 | 108.24 | Shut-In(1) |
| 90 | 1562.58 | 107.32 | End Shut-In(1) |
| 93 | 33.54 | 107.75 | Open To Flow (2) |
| 150 | 155.89 | 91.70 | Shut-In(2) |
| 270 | 1388.81 | 98.95 | End Shut-In(2) |
| 273 | 2422.67 | 104.17 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 60.00 | M,W 10% mud 90% water | 0.30 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco, LLC.

27-27s-24w Ford Co. KS

2020 N. Bramblewood
Wichita, KS 67206-1094

Melia 1-27

Job Ticket: 52320

DST#: 3

ATTN: Ed Grieves Evan May

Test Start: 2013.05.24 @ 23:47:56

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6900.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 60.00 | M,W 10%mud 90% water | 0.295 |

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

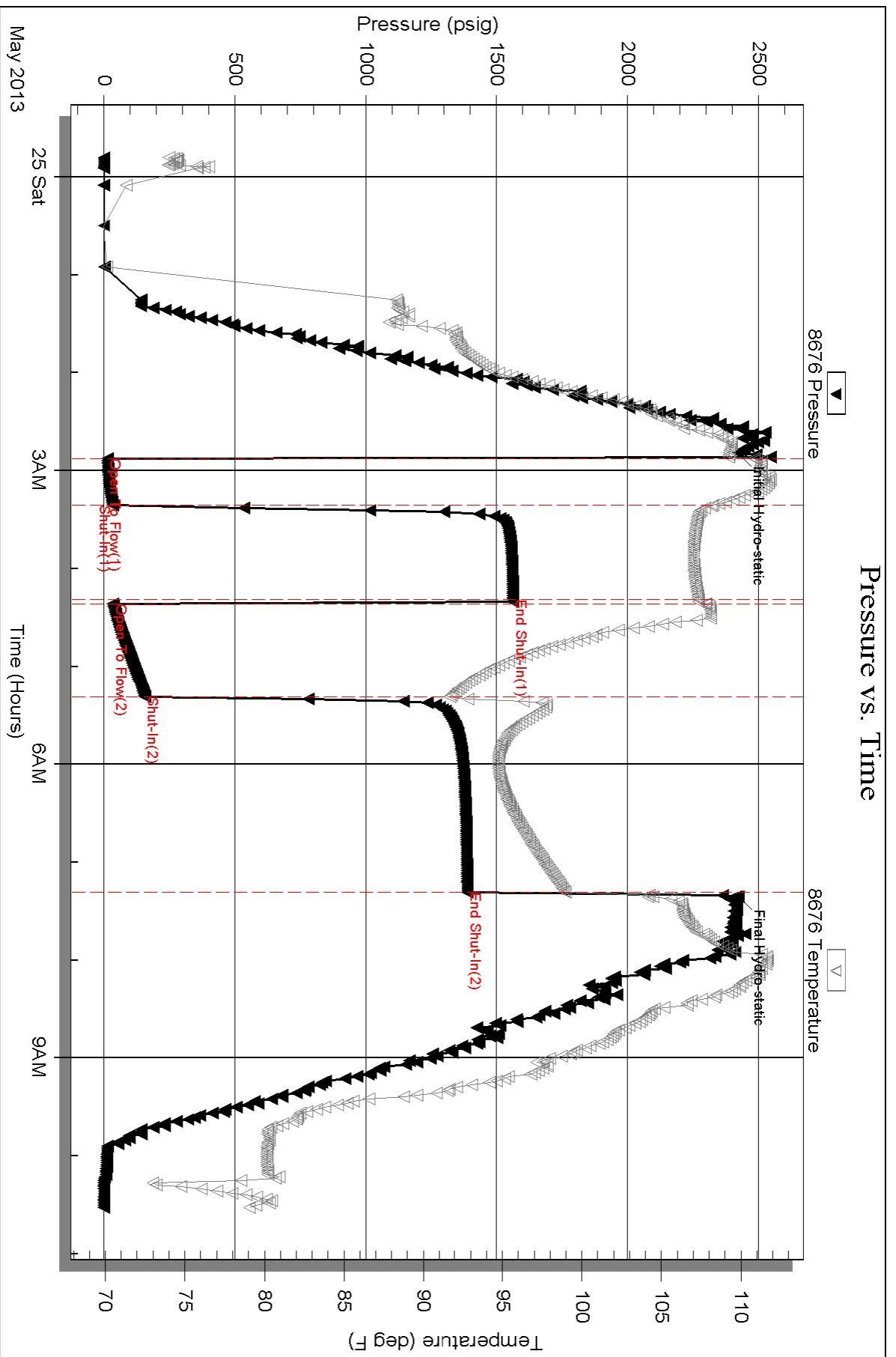
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6773

Outside Berexco, LLC.

Melia 1-27

DST Test Number: 3

