



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1192518
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1192518

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Tengasco, Inc. |
| Well Name | Albers C 1 |
| Doc ID | 1192518 |

Tops

| Name | Top | Datum |
|--------------|------|-------|
| Anhydrite | 1974 | +548 |
| Heebner | 3841 | -1319 |
| Lansing | 3881 | -1359 |
| BKC | 4184 | -1662 |
| Pawnee | 4296 | -1774 |
| Ft. Scott | 4373 | -1851 |
| Chero Shale | 4400 | -1878 |
| Miss Dolo | 4469 | -1947 |
| Gilmore City | 4576 | -1954 |
| TD | 4626 | -2104 |



DRILL STEM TEST REPORT

Prepared For: **Tengasco inc.**

PO Box 458
Hays, KS 67601+9744

ATTN: Mike Bair

Albers C #1

24-15s-25w Trego,KS

Start Date: 2013.11.27 @ 14:33:01

End Date: 2013.11.27 @ 21:59:00

Job Ticket #: 54345 DST #: 1

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

Printed: 2013.11.29 @ 11:43:12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco inc.
 PO Box 458
 Hays, KS 67601+9744
 ATTN: Mike Bair

24-15s-25w Trego, KS
Albers C #1
 Job Ticket: 54345 **DST#: 1**
 Test Start: 2013.11.27 @ 14:33:01

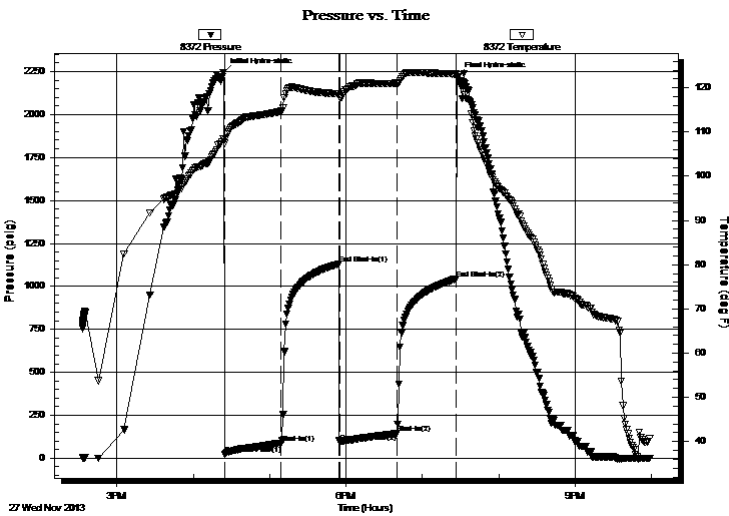
GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:24:30
 Time Test Ended: 21:59:00
 Interval: **4469.00 ft (KB) To 4495.00 ft (KB) (TVD)**
 Total Depth: 4495.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 2522.00 ft (KB)
 2515.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 144.85 psig @ 4470.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.27 End Date: 2013.11.27 Last Calib.: 2013.11.27
 Start Time: 14:33:01 End Time: 21:59:00 Time On Btm: 2013.11.27 @ 16:24:00
 Time Off Btm: 2013.11.27 @ 19:27:30

TEST COMMENT: IF:(45min) 2" blow in 3 min. 6" in 9 min. 10" in 15 min. BOB in 16 min.
 IS:(45min) Return surface blow, died in 25 min.
 FF:(45min) 2" blow in 3 min. 6" in 8 min. 10" in 13 min. BOB in 14 min.
 FS:(45min) Return surface blow, died in 25 min.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2244.65 | 108.51 | Initial Hydro-static |
| 1 | 25.10 | 107.49 | Open To Flow (1) |
| 45 | 88.63 | 114.68 | Shut-In(1) |
| 90 | 1129.99 | 118.68 | End Shut-In(1) |
| 91 | 95.55 | 117.90 | Open To Flow (2) |
| 136 | 144.85 | 121.04 | Shut-In(2) |
| 183 | 1043.92 | 123.09 | End Shut-In(2) |
| 184 | 2217.72 | 122.35 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 110.00 | HOCGM g=5% o=20% m=75% | 1.26 |
| 245.00 | CGO g=5% o=95% | 3.44 |
| 0.00 | GIP=455 ft | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco inc.
PO Box 458
Hays, KS 67601+9744
ATTN: Mike Bair

24-15s-25w Trego,KS
Albers C #1
Job Ticket: 54345 **DST#: 1**
Test Start: 2013.11.27 @ 14:33:01

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4432.00 ft | Diameter: 3.80 inches | Volume: 62.17 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: | 22000.00 lb |
| Drill Collar: | Length: 30.60 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: | 68000.00 lb |
| | | | <u>Total Volume: 62.32 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 21.60 ft | | | String Weight: Initial | 61000.00 lb |
| Depth to Top Packer: | 4469.00 ft | | | Final | 63000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 26.00 ft | | | | |
| Tool Length: | 54.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

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

| | | | | | |
|-----------------|-------|------|---------|---------|------------------------------------|
| Change Over Sub | 1.00 | | | 4442.00 | |
| Shut In Tool | 5.00 | | | 4447.00 | |
| Hydraulic tool | 5.00 | | | 4452.00 | |
| Jars | 5.00 | | | 4457.00 | |
| Safety Joint | 3.00 | | | 4460.00 | |
| Packer | 5.00 | | | 4465.00 | 28.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4469.00 | |
| Stubb | 1.00 | | | 4470.00 | |
| Recorder | 0.00 | 8372 | Inside | 4470.00 | |
| Recorder | 0.00 | 8321 | Outside | 4470.00 | |
| Perforations | 22.00 | | | 4492.00 | |
| Bullnose | 3.00 | | | 4495.00 | 26.00 Bottom Packers & Anchor |

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco inc.
PO Box 458
Hays, KS 67601+9744
ATTN: Mike Bair

24-15s-25w Trego,KS
Albers C #1
Job Ticket: 54345 **DST#: 1**
Test Start: 2013.11.27 @ 14:33:01

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: 57.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.98 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 110.00 | HOCGM g=5% o=20% m=75% | 1.264 |
| 245.00 | CGO g=5% o=95% | 3.437 |
| 0.00 | GIP=455 ft | 0.000 |

Total Length: 355.00 ft Total Volume: 4.701 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8372

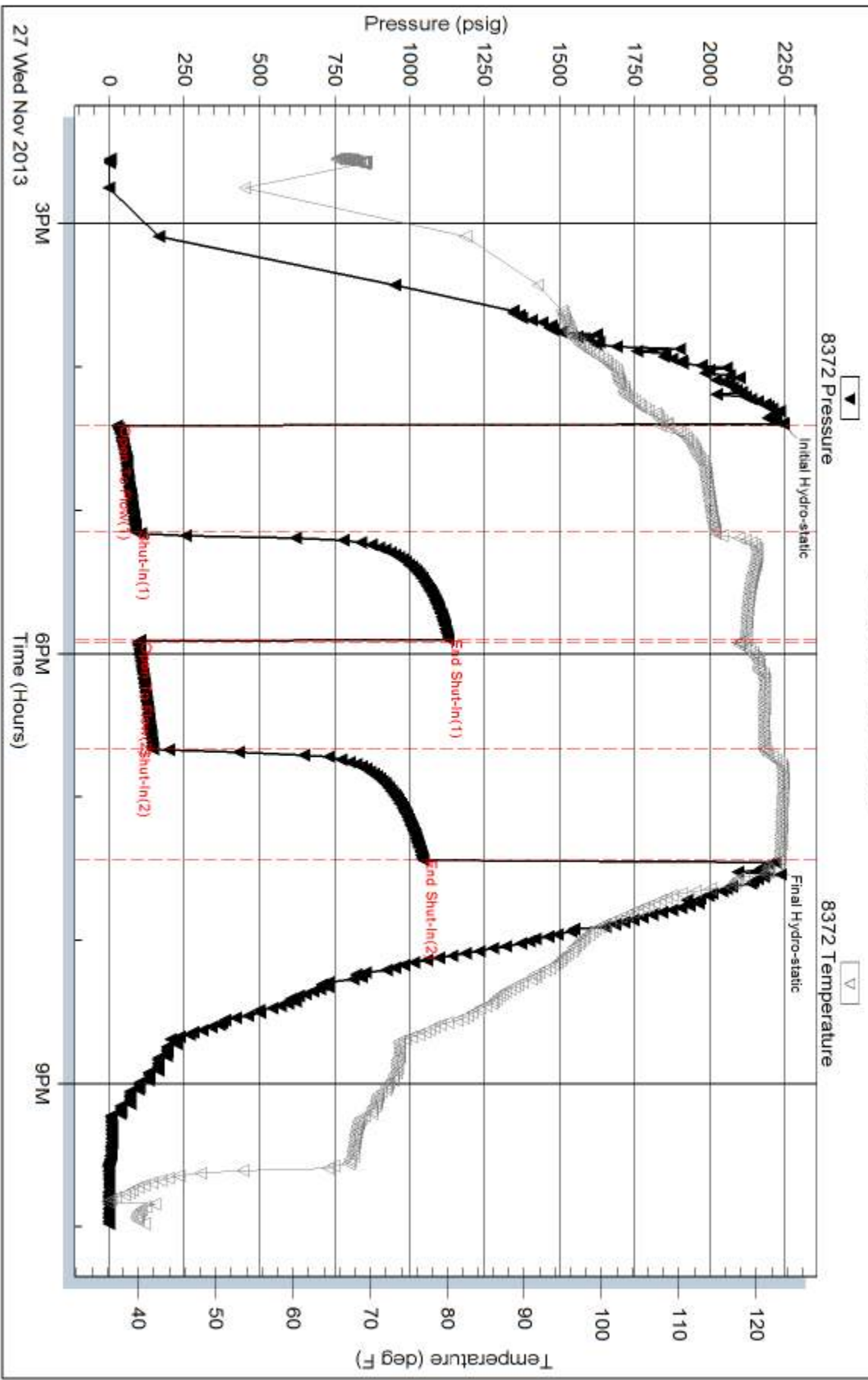
Inside

Tengasco inc.

Abers C#1

DST Test Number: 1

Pressure vs. Time



27 Wed Nov 2013

Trilobite Testing, Inc

Ref. No: 54345

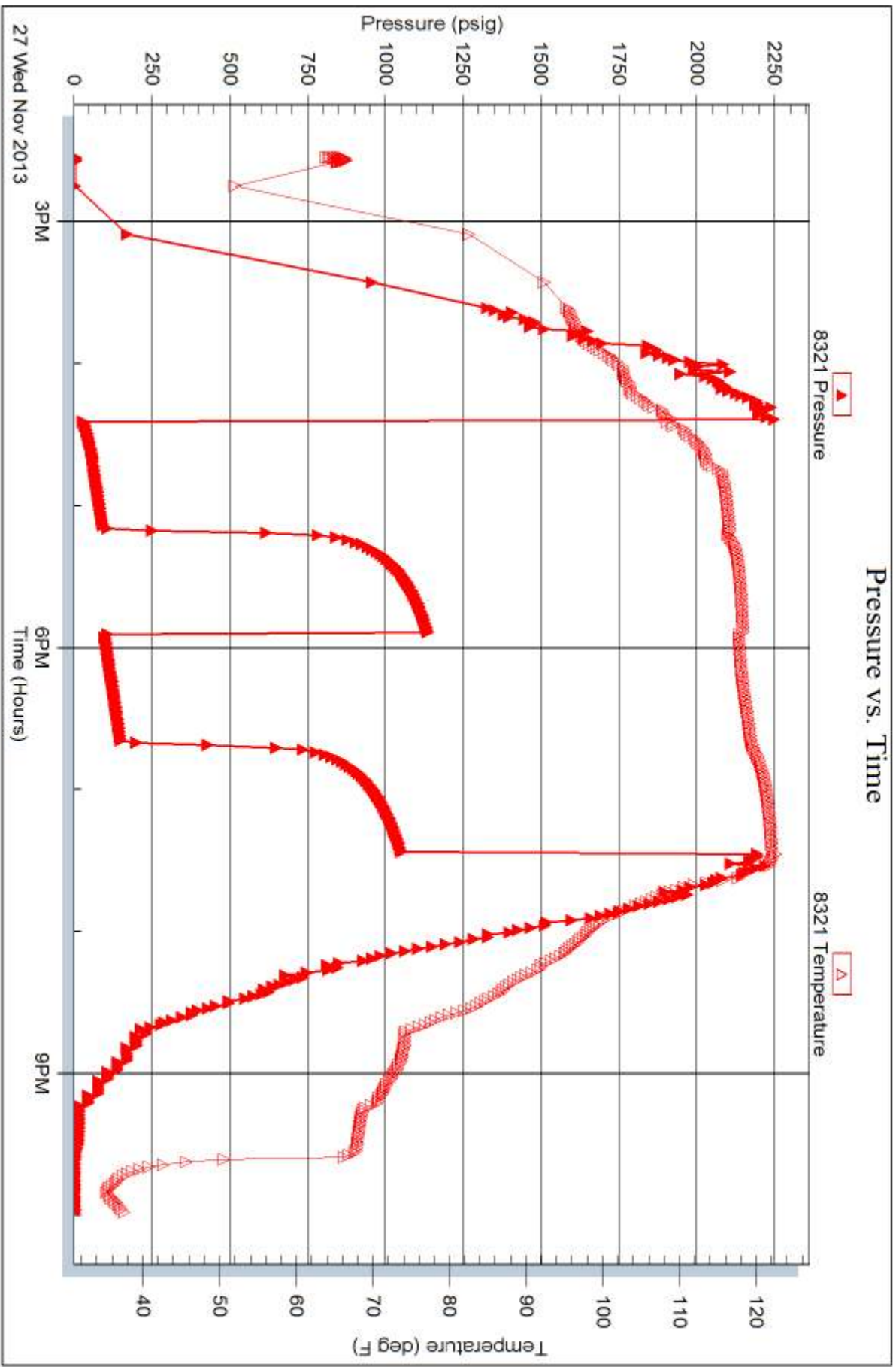
Printed: 2013.11.29 @ 11:43:15

Serial #: 8321

Outside Tengasco Inc.

Albers C#1

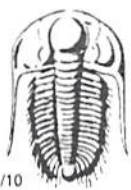
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54345

Printed: 2013.11.29 @ 11:43:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54345

Well Name & No. Albers C #1 Test No. _____ Date 11-27-13
 Company TENGASCO INC. Elevation 2522 KB 2515 GL _____
 Address PO Box 458 Hays, Ks. 67601 + 9744
 Co. Rep / Geo. MIKE BAIR Rig AMER EAGLE #2
 Location: Sec. 24 Twp. 15 S Rge. 25 W Co. TREGO State Ks

Interval Tested 4469-4495 Zone Tested Miss.
 Anchor Length 26' Drill Pipe Run 4432 Mud Wt. 9.3
 Top Packer Depth 4464 Drill Collars Run 30.60 Vis 57
 Bottom Packer Depth 4469 Wt. Pipe Run 0 WL 610
 Total Depth 4495 Chlorides 1500 ppm System LCM 2#s

Blow Description 1" 2" blow in 3min. 6" in 9min, 10" in 15min, BOB in 16min
ISI: Return surface blow dies in 25min
2" 2" blow in 3min. 6" in 8min, 10" in 13min, BOB in 14min
ISI: Return surface blow dies in 25min

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-------------------------|----------|-----------|--------|-----------|
| <u>245</u> | <u>CGD</u> | <u>5</u> | <u>95</u> | | |
| <u>110</u> | <u>HOCBM</u> | <u>5</u> | <u>20</u> | | <u>75</u> |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of <u>455'-GIP</u> | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 355' BHT _____ Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2244</u> | <input checked="" type="checkbox"/> Test @ <u>1250</u> | T-On Location <u>13:50</u> |
| (B) First Initial Flow <u>25</u> | <input checked="" type="checkbox"/> Jarse @ <u>250</u> | T-Started <u>15:33 14:33</u> |
| (C) First Final Flow <u>88</u> | <input checked="" type="checkbox"/> Safety Joint @ <u>75</u> | T-Open <u>16:25</u> |
| (D) Initial Shut-In <u>1129</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>19:25</u> |
| (E) Second Initial Flow <u>95</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>22:00</u> |
| (F) Second Final Flow <u>144</u> | <input checked="" type="checkbox"/> Mileage <u>130 RT</u> <u>201.50</u> | Comments _____ |
| (G) Final Shut-In <u>1043</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>2217</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1776.50

MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: ALBERS C #1 API# 15-195-22892-00-0
Location: SW SE NW NW Sec. 24 ;Twnsp. 15s.; Rge. 25 w.
License Number: 34110 Region: Trego County, KS
Spud Date: 11/20/2013 Drilling Completed: 11-28-2013
Surface Coordinates: 1065' FNL 865' FWL
Bottom Hole Coordinates:
Ground Elevation (ft): 2515 K.B. Elevation (ft): 2522
Logged Interval (ft): 3600 To: 4626 Total Depth (ft): 4630
Formation: Mississippian
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: TENGASCO, INC.
Address: 1327 Noose Rd.
Hays, KS. 67601

GEOLOGIST

Name: Mike Bair
Company: Basin Resources L.L.C.
Address: Longmont, CO.

FORMATION TOPS

| FORMATION | SAMPLE | LOG |
|--------------|--------------|--------------|
| Anhydrite | 1976 (+546) | 1974 (+548) |
| Heebner | 3845 (-1323) | 3841 (-1319) |
| Lansing | 3884 (-1362) | 3881 (-1359) |
| BKC | 4186 (-1664) | 4184 (-1662) |
| Pawnee | 4302 (-1780) | 4296 (-1774) |
| Ft. Scott | 4373 (-1851) | 4373 (-1851) |
| Chero Shale | 4397 (-1875) | 4400 (-1878) |
| Miss Dolo | 4471 (-1949) | 4469 (-1947) |
| Gilmore City | 4575 (-1953) | 4576 (-1954) |
| TD | 4630 (-2108) | 4626 (-2104) |

DSTs

DST #1 4469 - 4495 45-45-45-45
IFP: 2" blow in 3 min: BOB in 16 min: ISIP: surface blow died in 25 min. FFP: 2" blow in 3 min: BOB in 14 min: FSIP: surface blow died in 25 min.
FP: (25-89)(96-145) SIP: 1130 - 1044
REC: 455' GIP; 110' HOCGM (g=5%, o=20%, m=75%); 110' CGO (g=5%, o=95%)

Comments

Production casing was ran to further test the economic potential of the Mississippian formation.

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht

- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta

- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

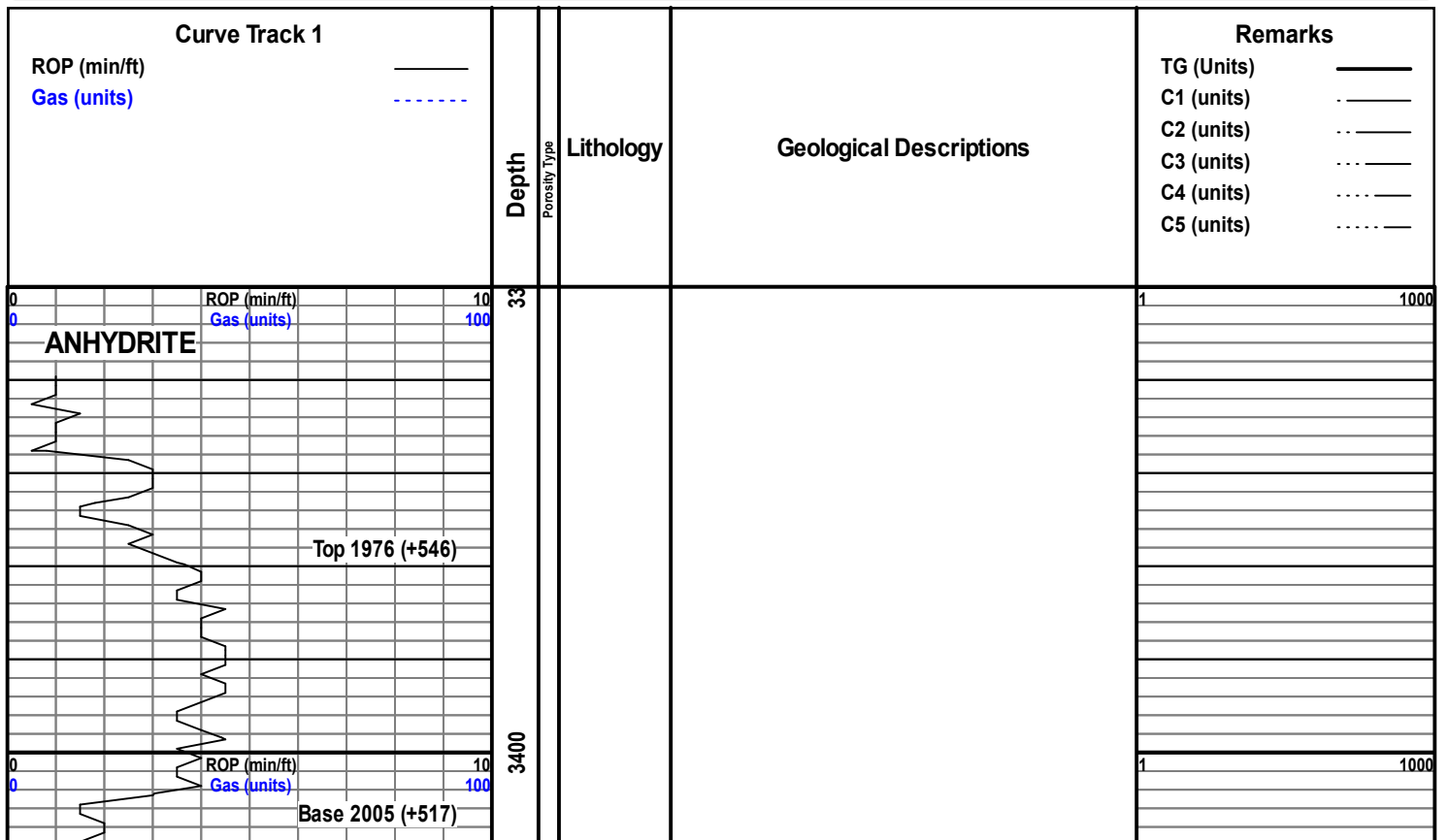
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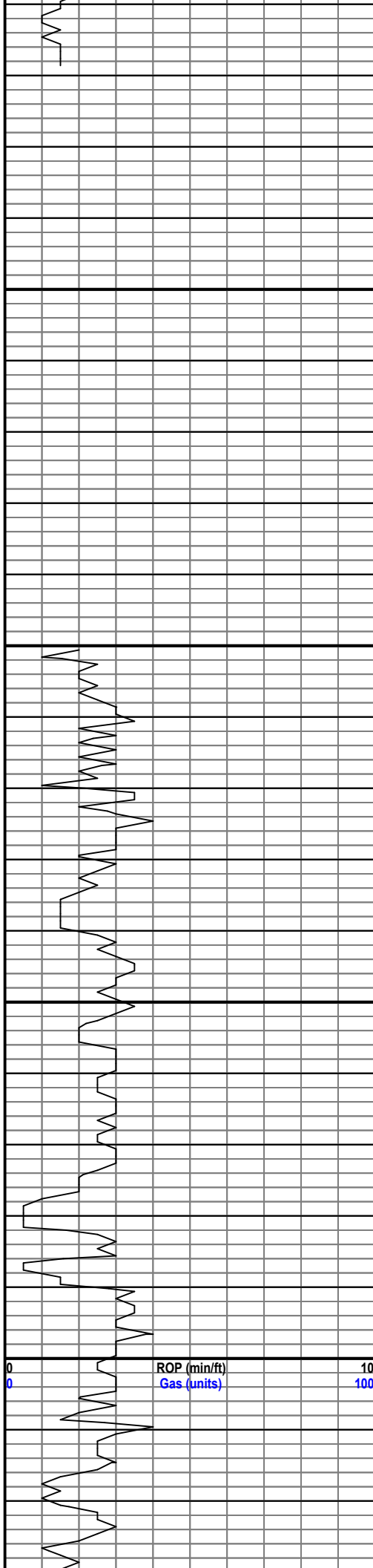
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- Dst

EVENT

- Rft
- Sidewall

- OIL SHOW Even





3450

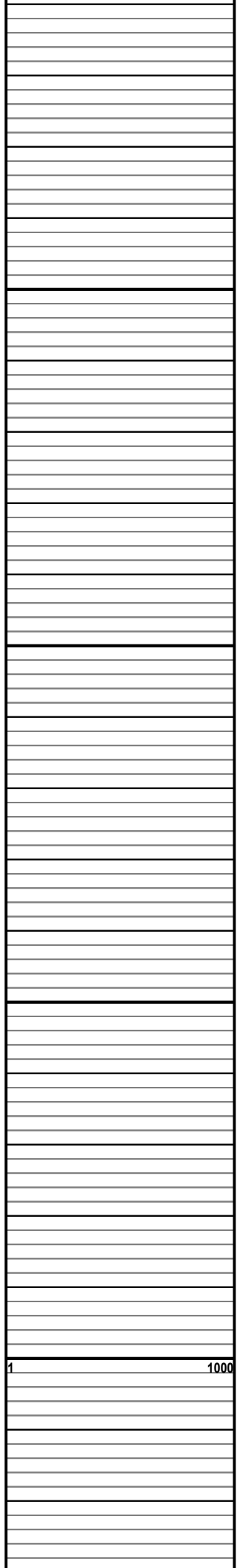
3500

3550

3600

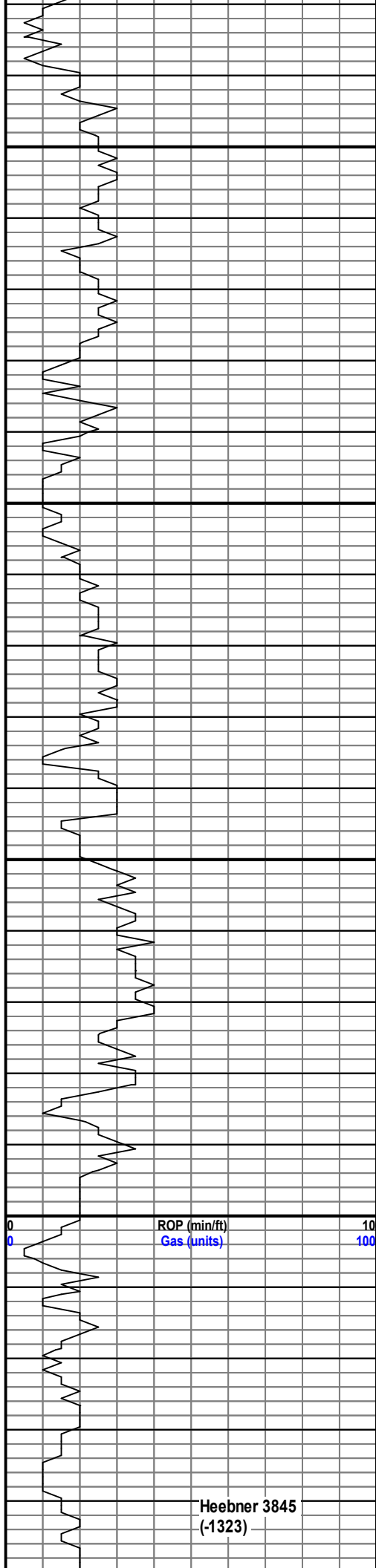
ROP (min/ft)
Gas (units)

10
100



1

1000



3650

3700

3750

3800

3900

ROP (min/ft)

Gas (units)

Heebner 3845
(-1323)



Ls, crm-brn, fxl to gran; Sh, v.c., Chert, tan w foss frags, n/o 3800

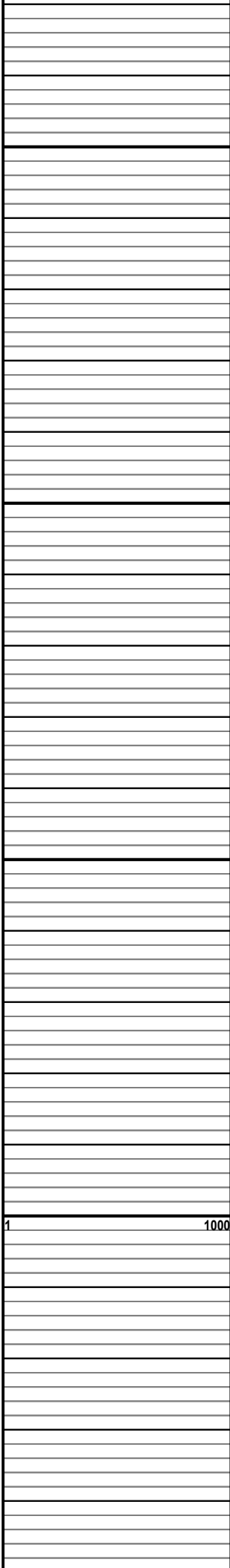
Ls, crm-tan, wkestrn-pkstrn, ns, n/o

Ls, wh-crm, wke-plstrn, cky; Sh, gry-mrn, ns, n/o

Ls, crm, gran w some cal rexln, some ixl por; Sh, blk, cky in pt, ns, n/o

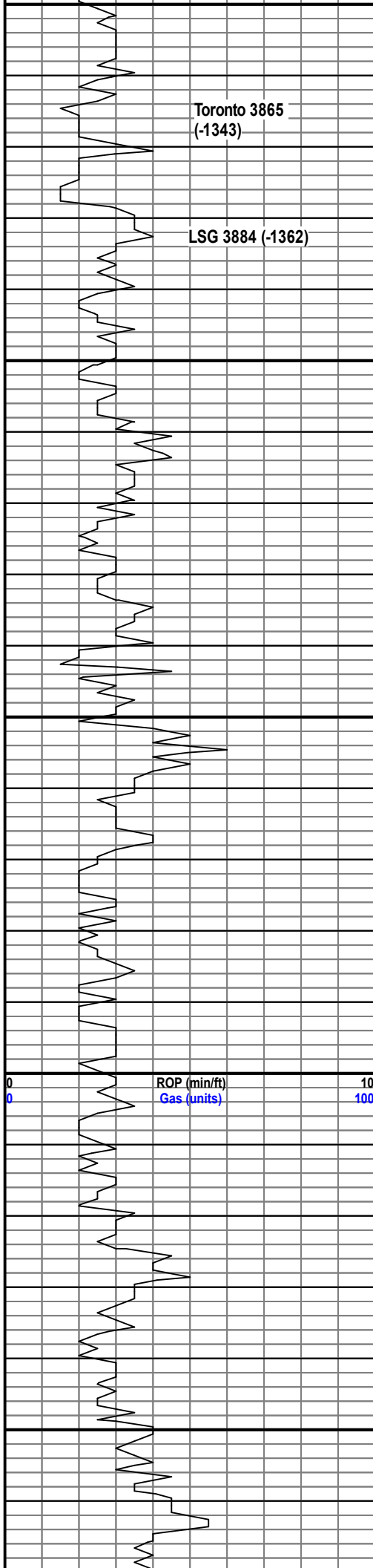
Ls, crm=gry, argil, foss frags, cky, ns, n/o 3850

Sh, blk, platy, carb 3860



1

1000



3880
3900
3950
4000
4050



Ls, wh-crm, wke-pkstn, some w cal rexln, cky;
Chert, wh-op, fresh, dse, ns, n/o

Ls, crm-brn, fxl to sl gran, few foss frags, ns, n/o;
Sist-sh, grn

Ls, wh-crm, cky, wke-pkstn,; Chert, wh; Sh,
gry-grn-blk, ns, n/o

pr sample: Soft red sh; Ls, wh, ool, pr vis por, ns,
n/o 3900

Ls, wh-tan, ool, pr vis por, cky; Chert, wh

Ls, crm-tan, wkestn-pkstn, micro ool, ns, n/o

Ls, gry, fxl, foss frags, ns; few pc Sh, blk, n/o

Ls, crm-tan, ool, sl ixool por, ns; Chert, wh, fresh,
dse, ns, n/o

Ls, tan, mdstn to sl gran; Ls, wh, ool, mst pr vis
por, sct'd sl ixool por, ns, n/o cky in pt 3950

Chert, op; Ls, crm, fxl-gran, ns, n/o; some cky

Chert, salmon; Ls, crm-fxl to wkestn, few foss
frags, ns, sl cky, n/o

Ls, a/a; Sh, gry, ns, n/o

Ls, crm, fxl to wkestn, few foss frags, sl cky; Sh,
gry-blk, ns, n/o 4000

Ls, crm-tan, fxl to sl gran, some ool, mst pr vis
por, cky, ns, n/o

Ls, wh-crm, gran to ool, few sl oom por, ns;
Chert, tan, foss frags, ns, n/o

Ls, wh-crm, pkstn, poss sl ixl por; Chert, wh-crm,
some Sh, blk

Ls, wh-crm, ool, pr ixool por, r pc sl-fr oom por,
ns, n/o

Ls, crm-brn, fxl to sl gran, foss, pr por; sct'd
Chert, brn, ns, n/o 4050

Ls, wh, fxl-gran, r pc oom, sl oom por, ns, to Ls,
brn, fxl, foss, ns, n/o

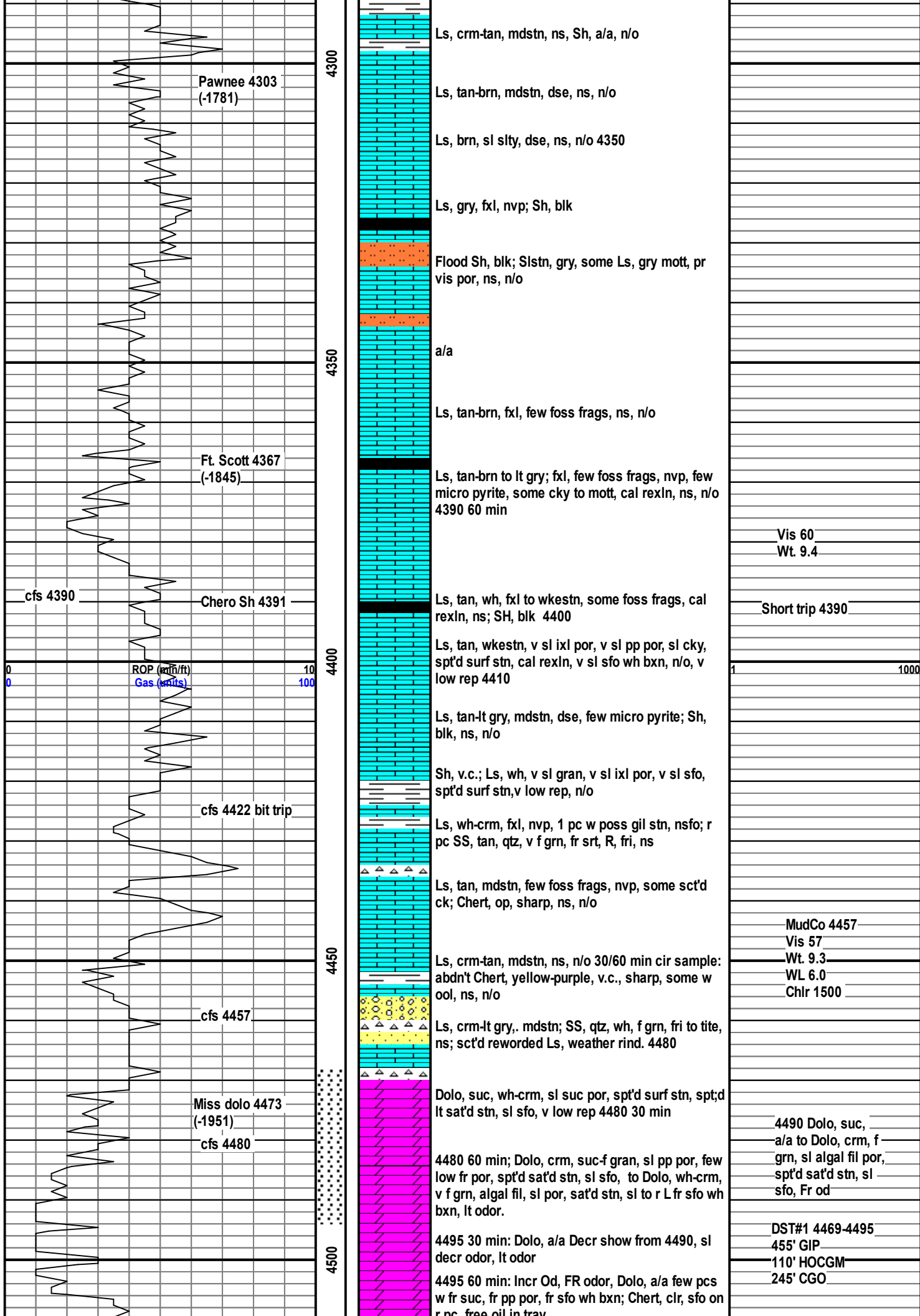
a/a, some mott; Chert, wh-gry, sharp, ns, n/o

Ls, mst crm, fxl, pr vis por; Chert, brn-tan, sharp,
ns, n/o

Ls, crm-tan, ool, r pc oom, pr-v sl por, sl cky, r pc
w cal xl on edge, ns, n/o

MudCo 3916
Vis 57
Wt. 9.1
WL 6.0
Chlr 1500

1 1000



Pawnee 4303
(-1781)

Ls, crm-tan, mdstn, ns, Sh, a/a, n/o

Ls, tan-brn, mdstn, dse, ns, n/o

Ls, brn, sl slty, dse, ns, n/o 4350

Ls, gry, fxl, nvp; Sh, blk

Flood Sh, blk; Slstn, gry, some Ls, gry mott, pr vis por, ns, n/o

a/a

Ls, tan-brn, fxl, few foss frags, ns, n/o

Ft. Scott 4367
(-1845)

Ls, tan-brn to lt gry; fxl, few foss frags, nvp, few micro pyrite, some cky to mott, cal rexln, ns, n/o 4390 60 min

Vis 60
Wt. 9.4

cfs 4390

Chero Sh 4391

Ls, tan, wh, fxl to wkestn, some foss frags, cal rexln, ns; SH, blk 4400

Short trip 4390

Ls, tan, wkestn, v sl ixl por, v sl pp por, sl cky, spt'd surf stn, cal rexln, v sl sfo wh bxn, n/o, v low rep 4410

ROP (min/ft)
Gas (scf/ft)

Ls, tan-lt gry, mdstn, dse, few micro pyrite; Sh, blk, ns, n/o

Sh, v.c.; Ls, wh, v sl gran, v sl ixl por, v sl sfo, spt'd surf stn, v low rep, n/o

cfs 4422 bit trip

Ls, wh-crm, fxl, nvp, 1 pc w poss gil stn, nsfo; r pc SS, tan, qtz, v f grn, fr srt, R, fri, ns

Ls, tan, mdstn, few foss frags, nvp, some sct'd ck; Chert, op, sharp, ns, n/o

MudCo 4457
Vis 57
Wt. 9.3
WL 6.0
Chlr 1500

4450

Ls, crm-tan, mdstn, ns, n/o 30/60 min cir sample: abdn't Chert, yellow-purple, v.c., sharp, some w ool, ns, n/o

cfs 4457

Ls, crm-lt gry, mdstn; SS, qtz, wh, f grn, fri to tite, ns; sct'd reworded Ls, weather rind. 4480

Miss dolo 4473
(-1951)

Dolo, suc, wh-crm, sl suc por, spt'd surf stn, spt'd lt sat'd stn, sl sfo, v low rep 4480 30 min

cfs 4480

4480 60 min; Dolo, crm, suc-f gran, sl pp por, few low fr por, spt'd sat'd stn, sl sfo, to Dolo, wh-crm, v f grn, algal fil, sl por, sat'd stn, sl to r L fr sfo wh bxn, lt odor.

4490 Dolo, suc, a/a to Dolo, crm, f grn, sl algal fil por, spt'd sat'd stn, sl sfo, Fr od

4500

4495 30 min: Dolo, a/a Decr show from 4490, sl decr odor, lt odor

DST#1 4469-4495
455' GIP
110' HOCGM
245' CGO

4495 60 min: Incr Od, FR odor, Dolo, a/a few pcs w fr suc, fr pp por, fr sfo wh bxn; Chert, clr, sfo on r pc, free oil in tray

r pc, free on in tray.

Dolo, crm, fr-gd odor, sl suc por, sl algal fil por, r pc w cal rexln; r pc chert, yell; sct'd clr qtz some w oil show, 4520

Dolo, a/a, r pc hvy sat'd stn, few w fr pp to vg por, sl sfo, r pc Chert, wh, fr odor 4530

Dolo, a/a incr barren; qtz, clr w brn stn, few pc Chert wh, Sh, gry, wk odor 4540

Strap 1.55' short
DEV 1 deg

Gilmore City 4575
(-1953)

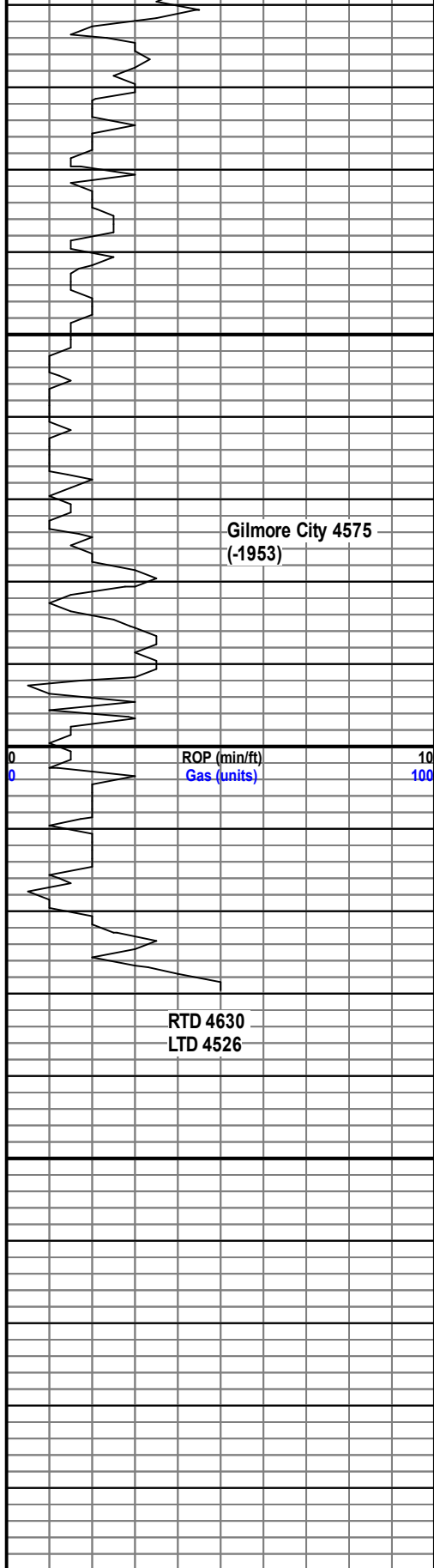
ROP (min/ft)
Gas (units)

10
100

RTD 4630
LTD 4526

MudCo 4614
Vis 57
Wt. 9.1
WL 6.0
Chlr 1600

Strap 1.05' short
DEV 1 deg



4550

4600

4650

700

1000

ALLIED OIL & GAS SERVICES, LLC 054840

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

| | | | | | | | |
|--------------------------------|----------------|---|-----------------|--------------|---------------------|--------------------------|---------------------------|
| DATE <u>11-29-13</u> | SEC. <u>24</u> | TWP. <u>15</u> | RANGE <u>25</u> | CALLED OUT | ON LOCATION | JOB START <u>6:00 AM</u> | JOB FINISH <u>6:30 AM</u> |
| LEASE <u>Albers C</u> | WELL# <u>1</u> | LOCATION <u>Wabecney KS 20S 10W 1/2 N</u> | | | COUNTY <u>Trego</u> | STATE <u>KS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | | <u>Einto</u> | | | |

CONTRACTOR American Eagle #2
 TYPE OF JOB Long string
 HOLE SIZE 7 1/2 T.D. 4630
 CASING SIZE 5 1/2 14" DEPTH 4632.92
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL PC DEPTH 1982
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 18.98
 CEMENT LEFT IN CSG. 18.98
 PERFS.
 DISPLACEMENT 112 1/2 bbl

OWNER
 CEMENT AMOUNT ORDERED 180 ASC
 COMMON @
 POZMIX @
 GBL @
 CHLORIDE @
 ASC @ 20.90 3762.00
Mad. Glush 12-bbl @ 58.70 704.40
 HANDLING 214.58 fm @ 2.48 532.17
 MILEAGE 984.25 4/m @ 2.60 1259.05
 TOTAL 6257.62

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y.
 # 409 HELPER Nathan D
 BULK TRUCK
 # 378 DRIVER Joe G
 BULK TRUCK
 # DRIVER

REMARKS:

run 110 jts of 5 1/2 14" csg receive circulation
 mix 12 bbl mad. Glush 30 sks in Rot hole
 mix 150 sks ASC down hole displace
 112 1/2 bbl of water land plug at
 1500 # release plug held land plug
 at 5:35 AM

Thank you !!!

SERVICE

DEPTH OF JOB 4630
 PUMP TRUCK CHARGE 2810.84
 EXTRA FOOTAGE @
 MILEAGE 50 HVMI @ 7.70 385.00
 MANIFOLD @
50 LVMI @ 4.40 220.00

TOTAL 3415.84

CHARGE TO: Tengasco
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5 1/2 WF float shoe @ 339.30 339.30
latch down @ 398.75 398.75
Port collar @ 1831.25 1831.25
6 centralizers @ 28.40 170.40
3 baskets @ 159.40 478.20

TOTAL 3217.90

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.

SALES TAX (If Any)
 TOTAL CHARGES 12891.36
 DISCOUNT 2418.37 IF PAID IN 30 DAYS

PRINTED NAME
 SIGNATURE Keith Karkis

net \$ 10472.99



CEMENTING LOG

STAGE NO.

Date 120.14 District Russell Ticket No. 55016
 Company Teagasco Rig Fischer
 Lease Albuis Well No. C-#1
 Country Togo State KS
 Location Walter neg, K's Field _____
20 south 10 west Van east into
 CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type CSG Weight #15.5 Collar _____

2 1/8 TBC in @ 1989 - in 5 1/2 CSG
#15.5.
 Casing Depths: Top 0' Bottom 1989'
Port Collar set @ 1981'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ TD _____ ft. PB. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
TBC Bbls/Lin. ft. _____ Lin. ft./Bbl. 1.0058
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type _____
 Amt. 400 Skis Yield _____ ft³/sk Density _____ PPG
60% + 4% gel + 4% Flt - seal
15% gel on the side.
 LEAD Pump Time 2 min hrs. Type LD/MS
 Excess _____
 Amt. 210 Skis Yield 1.42 ft³/sk Density _____ PPG
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Skis Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.
 Pump Trucks Used #417 - Danny S.
 Bulk Equip. #493 - Jesse C.

Floater Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Diap. Fluid Type _____ Amt. _____ Bbls Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER Danny Plannental

| TIME | PRESSURES PSI | | FLUID PUMPED DATA | | | REMARKS |
|---------|-------------------|---------|-------------------------------------|------------------------|----------------|--|
| | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | |
| 9:30am | | | | | | On location - Safety Meeting set up truck. |
| 9:45am | | | | | | Run 66 Jts 2 1/8 TBC @ 1989. |
| 10:00am | | | | | | Port Collar set @ 1981' |
| 10:15am | | | 1.48 ^{1/2} _{1/2} | | 1 1/2 min | Pressure to #800 PSI - tested (Good) |
| 10:25am | | | 4.48 ^{1/2} _{1/2} | | 3 1/2 min | Circulated Hole @ 4 1/2 min |
| 11:05am | | | 2 1/2 ^{1/2} _{1/2} | | 3 1/2 min | Mixed 3sk gel circulated Hole to Surface. |
| 11:30am | | | 34.5 ^{1/2} _{1/2} | | 3 1/2 min | Mixed 210 sk 60% + 4% gel + 4% Flt - seal. @ 34.5 ^{1/2} _{1/2} mix. Displaced 11.48 ^{1/2} _{1/2} - cement circulated to Surface. |
| 12:00am | | | 22 ^{1/2} _{1/2} | | 3 1/2 min | Washed around short way @ 22 ^{1/2} _{1/2} Job complete. |
| 12:30am | | | 6 ^{1/2} _{1/2} | | 3 1/2 min | Washed truck. |

ALLIED OIL & GAS SERVICES, LLC 054835

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

| | | | | | | | |
|--------------------------------|-----------------|--|-----------------|------------|---------------------|--------------------------|---------------------------|
| DATE <i>11-20-13</i> | SEC. <i>24</i> | TWP. <i>15</i> | RANGE <i>25</i> | CALLED OUT | ON LOCATION | JOB START <i>3:30 pm</i> | JOB FINISH <i>4:00 pm</i> |
| LEASE <i>Albers C</i> | WELL # <i>1</i> | LOCATION <i>Wabancy KS 20S 10W 12N</i> | | | COUNTY <i>Trego</i> | STATE <i>KS</i> | |
| OLD OR <u>NEW</u> (Circle one) | | <i>Ento</i> | | | | | |

| | |
|-------------------------------------|----------------------|
| CONTRACTOR <i>American Eagle #2</i> | OWNER |
| TYPE OF JOB <i>surface</i> | |
| HOLE SIZE <i>12 1/4</i> | T.D. <i>264</i> |
| CASING SIZE <i>8 3/8 23'</i> | DEPTH <i>264</i> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT <i>15</i> |
| CEMENT LEFT IN CSG. <i>15</i> | |
| PERFS. | |
| DISPLACEMENT <i>15 3/4</i> | |

| | |
|-------------------|--|
| CEMENT | AMOUNT ORDERED <i>170 com 32acc 27agel</i> |
| COMMON <i>170</i> | @ <i>17.90 3043.00</i> |
| POZMIX | @ |
| GEL <i>3</i> | @ <i>23.40 70.20</i> |
| CHLORIDE <i>6</i> | @ <i>64.00 384.00</i> |
| ASC | @ |

EQUIPMENT

| | |
|-------------------------------------|--------|
| PUMP TRUCK CEMENTER <i>Robert Y</i> | |
| # <i>417</i> HELPER <i>Woody O</i> | |
| BULK TRUCK | |
| # <i>378</i> DRIVER <i>Jesse C</i> | |
| BULK TRUCK | |
| # | DRIVER |

| | |
|------------------------|-----------------------|
| HANDLING <i>183.51</i> | @ <i>2.48 455.11</i> |
| MILEAGE <i>419.00</i> | @ <i>2.60 1089.40</i> |
| TOTAL <i>5041.71</i> | |

REMARKS:

*run bit of 8 3/8 23' csg receive circulation
mix 170 com 32acc 27agel displace 15 3/4
but water shut in*

SERVICE

| | |
|-------------------------|----------------------|
| DEPTH OF JOB | <i>264</i> |
| PUMP TRUCK CHARGE | <i>1512.25</i> |
| EXTRA FOOTAGE | @ |
| MILEAGE <i>50 HVMI</i> | @ <i>7.70 385.00</i> |
| MANIFOLD <i>50 LVMI</i> | @ <i>4.40 220.00</i> |
| TOTAL <i>2117.25</i> | |

cement did circulate to surface

Thank you!

CHARGE TO: *Tengasco*
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

| | |
|-------------|---|
| | @ |
| | @ |
| | @ |
| | @ |
| | @ |
| TOTAL _____ | |

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.

SALES TAX (if Any) _____
TOTAL CHARGES *7158.96*
DISCOUNT *1789.74* IF PAID IN 30 DAYS

PRINTED NAME _____
SIGNATURE *Keith Karlus*

net \$ 5369.22