

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1078439

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 # | | | API No. 15 | | |
|----------------------------------|--------------------|--------------------|----------------------------------|---------------------------|-----------------------|
| Name: | | | Spot Description: | | |
| Address 1: | | | Sec | TwpS. R | East West |
| Address 2: | | | F6 | eet from North / | South Line of Section |
| City: | State: Z | ip:+ | Fe | eet from East / | West Line of Section |
| Contact Person: | | | Footages Calculated from I | Nearest Outside Section C | Corner: |
| Phone: () | | | □ NE □ NW | V □SE □SW | |
| CONTRACTOR: License # | | | GPS Location: Lat: | , Long: _ | |
| Name: | | | | (e.g. xx.xxxxx) | (e.gxxx.xxxxx) |
| Wellsite Geologist: | | | Datum: NAD27 | NAD83 WGS84 | |
| Purchaser: | | | County: | | |
| Designate Type of Completion: | | | Lease Name: | W | /ell #: |
| | e-Entry | Workover | Field Name: | | |
| | _ | | Producing Formation: | | |
| ☐ Oil ☐ WSW ☐ D&A | ☐ SWD | ∐ SIOW □ SIGW | Elevation: Ground: | Kelly Bushing: | : |
| | GSW | Temp. Abd. | Total Vertical Depth: | Plug Back Total C | Depth: |
| CM (Coal Bed Methane) | dow | Temp. Abd. | Amount of Surface Pipe Se | et and Cemented at: | Feet |
| ☐ Cathodic ☐ Other (Co | ore, Expl., etc.): | | Multiple Stage Cementing | Collar Used? Yes | No |
| If Workover/Re-entry: Old Well I | | | If yes, show depth set: | | Feet |
| Operator: | | | If Alternate II completion, c | cement circulated from: | |
| Well Name: | | | feet depth to: | w/ | sx cmt. |
| Original Comp. Date: | | | | | |
| Deepening Re-perf | • | NHR Conv. to SWD | Drilling Fluid Managemer | nt Plan | |
| ☐ Plug Back | Conv. to G | | (Data must be collected from the | | |
| Commingled | Pormit #: | | Chloride content: | ppm Fluid volume | e: bbls |
| Dual Completion | | | Dewatering method used: _ | | |
| SWD | | | Location of fluid disposal if | hauled offsite | |
| ☐ ENHR | | | 1 | | |
| GSW | Permit #: | | Operator Name: | | |
| _ _ | | | Lease Name: | License #:_ | |
| Spud Date or Date R | eached TD | Completion Date or | Quarter Sec | TwpS. R | East _ West |
| Recompletion Date | | Recompletion Date | 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 III Approved by: Date: | | | | |

Page Two



| Operator Name: | | | | _ Lease N | lame: _ | | | Well #: | | |
|--|---|---|---|--|-------------------------------------|----------------------------------|--------------------------|---|-------------|-------------------------|
| Sec Twp | S. R | East | West | County: | | | | | | |
| open and closed, flow and flow rates if gas t Final Radioactivity Lo | now important tops of for ving and shut-in pressu to surface test, along w ng, Final Logs run to ob ed in LAS version 2.0 o | ires, whet ith final ch tain Geop | her shut-in pre nart(s). Attach physical Data a | ssure reach extra sheet nd Final Ele | ned stati t if more ectric Lo | c level, hydros space is need | static pressures ded. | s, bottom hole tempe | erature, fl | luid recovery, |
| Drill Stem Tests Taken Yes No (Attach Additional Sheets) | | | | L | og Forma | ation (Top), Dep | oth and Datum | | Sample | |
| Samples Sent to Geo | ological Survey | Ye | s No | | Nam | е | | Тор | [| Datum |
| Cores Taken Electric Log Run | | ☐ Ye | | | | | | | | |
| List All E. Logs Run: | | | | | | | | | | |
| | | | CASING | RECORD | ☐ Ne | w Used | | | | |
| | | Repor | t all strings set-c | onductor, sur | rface, inte | ermediate, produ | uction, etc. | | | |
| Purpose of String | Size Hole Drilled | | Casing (In O.D.) | Weig Lbs./ | | Setting Depth | Type of Cement | | | and Percent dditives |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | ADDITIONAL | CEMENTIN | IG / SQL | JEEZE RECOF | RD | | | |
| Donth | | of Cement | # Sacks Used Type and Percent Additives | | | | | | | |
| Plug Off Zone | | | | | | | | | | |
| Does the volume of the t | ulic fracturing treatment or total base fluid of the hydra ring treatment information | aulic fractur | - | | - | Yes Yes Yes | No (If N | lo, skip questions 2 and lo, skip question 3) lo, fill out Page Three c | | D-1) |
| Shots Per Foot | | | D - Bridge Plugs ach Interval Perf | | | | racture, Shot, Ce | ement Squeeze Record | | Depth |
| | 2000 | | | | | | | , | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | | Packer At | : | Liner Run: | Yes | No | | |
| Date of First, Resumed | Production, SWD or ENH | IR. | Producing Meth | od: | , | Gas Lift | Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil B | bls. | | Mcf | Wate | | Bbls. | Gas-Oil Ratio | | Gravity |
| | | | | Dually | Comp. | Commingled | PRODUCTIO | N INTER | VAL: | |
| (Submit ACO-5) (If vented, Submit ACO-18.) Other (Specify) | | | | (S | Submit ACO-4) | | | | | |

| Form | ACO1 - Well Completion | | | |
|-----------|---------------------------|--|--|--|
| Operator | F. G. Holl Company L.L.C. | | | |
| Well Name | BAUER UNIT 'A' 1-5 | | | |
| Doc ID | 1078439 | | | |

All Electric Logs Run

| CNL/CDL | |
|------------------|--|
| Microresistivity | |
| BHCS | |
| DIL | |
| CPI | |

| Form | ACO1 - Well Completion | | |
|-----------|---------------------------|--|--|
| Operator | F. G. Holl Company L.L.C. | | |
| Well Name | BAUER UNIT 'A' 1-5 | | |
| Doc ID | 1078439 | | |

Tops

| Name | Тор | Datum |
|----------------|------|-------|
| Herrington | 2264 | -135 |
| Winfield | 2452 | -188 |
| Towanda | 2523 | -259 |
| Fort Riley | 2578 | -314 |
| B/Florence | 2658 | -394 |
| Kinney Ls | 2670 | -406 |
| Wrefold | 2710 | -446 |
| Council Grove | 2749 | -485 |
| Neva | 2925 | -661 |
| Red Eagle | 2992 | -728 |
| Wabaunsee | 3153 | -889 |
| Stotler | 3282 | -1018 |
| Tarkio | 3330 | -1066 |
| Topeka | 3479 | -1215 |
| Heebner | 3857 | -1593 |
| Toronto | 3874 | -1610 |
| Brown Lime | 3927 | -1663 |
| Lansing | 3943 | -1679 |
| ВКС | 4293 | -2029 |
| Marmaton | 4296 | -2032 |
| Pawnee | 4370 | -2106 |
| Ft Scott | 4416 | -2152 |
| Cherokee Shale | 4439 | -2175 |
| Mississippi | 4534 | -2270 |
| | | |

| Form | ACO1 - Well Completion | | | |
|-----------|---------------------------|--|--|--|
| Operator | F. G. Holl Company L.L.C. | | | |
| Well Name | BAUER UNIT 'A' 1-5 | | | |
| Doc ID | 1078439 | | | |

Tops

| Name | Тор | Datum |
|------|------|-------|
| RTD | 4700 | -2436 |

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/

Sam Brownback, Governor

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

April 11, 2012

Franklin R. Greenbaum F. G. Holl Company L.L.C. 9431 E CENTRAL STE 100 WICHITA, KS 67206-2563

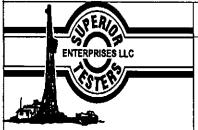
Re: ACO1 API 15-083-21748-00-00 BAUER UNIT 'A' 1-5 NW/4 Sec.05-23S-21W Hodgeman County, Kansas

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, Franklin R. Greenbaum



FG Holl Company LLC

5/23S/21W/Hodgeman

9431 East Central

Bauer Unit A #1-5

Suite 100

Job Ticket: 17159

Wichita, Kansas 67206+2563 ATTN: Frank Greenbaum

ft (KB)

Test Start: 2012.02.14 @ 04:46:00

GENERAL INFORMATION:

Formation:

Cottonwood

Deviated:

No Whipstock:

Test Type: Conventional Bottom Hole (Initial)

DST#:1

Time Tool Opened: 06:48:30

Tester:

Time Test Ended: 09:26:00

Ken Swinney

interval:

Unit No:

3325 Great Bend/120

2865.00 ft (KB) To 2905.00 ft (KB) (TVD)

Total Depth:

2905.00 ft (KB) (TVD)

Reference Elevations:

2264.00 ft (KB) 2256.00 ft (CF)

Hole Diameter:

8.00 ft

Serial #: 6651

Press@RunDepth:

inside.

7.88 inchesHole Condition: Fair

2901.00 ft (KB)

Capacity:

Start Date:

53.26 psia @

End Date:

2012.02.14

Last Calib.:

5000.00 psia

Start Time:

2012.02.14 04:47:00

End Time:

09:26:00 Time On Btm:

2012.02.14 2012.02.14 @ 06:48:00

15 Minutes/Weak blow /Blow built to 2 inches

1ST Shut in

30 Minutes/No blow back

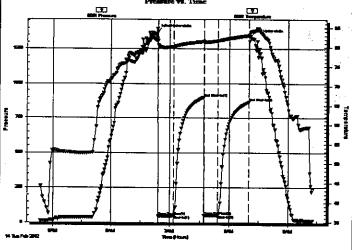
15 Minutes/Weak blow/Blow built to 1 inch

Time Off Btm: 2012.02.14 @ 08:21:30

KB to GR/CF:

TEST COMMENT: 1ST Open

2ND Open 2ND Shut In 30 Minutes/No blow back



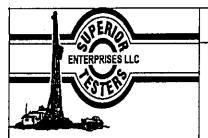
| | | PRESSURE SUMMARY | | | | |
|----------------|--------|------------------|---------|----------------------|--|--|
| | Time | Pressure | Temp | Annotation | | |
| -, , | (Min.) | (psia) | (deg F) | | | |
| • | . 0 | 1372.97 | 81.65 | Initial Hydro-static | | |
| * | 1 | 48.41 | 80.62 | Open To Flow (1) | | |
| | 16 | 49.22 | 80.11 | Shut-In(1) | | |
| | 46 | 899.64 | 81.52 | End Shut-In(1) | | |
| • ₁ | 47 | 50.66 | 81.24 | Open To Flow (2) | | |
| Tampenahn | 61 | 53.26 | 81.64 | Shut-In(2) | | |
| 2 | 92 | 866.29 | 83.01 | End Shut-In(2) | | |
| _ | 94 | 1338.37 | 83.76 | Final Hydro-static | | |
| • | | | | | | |
| • | | | | | | |
| . | | | | | | |
| _ | | | | | | |
| • | | | | | | |
| | | | | | | |

Recovery

| Length (ft) | Description | Volume (bbl) 0.15 | | |
|-------------|-------------|-------------------|-------|--|
| 10.00 | Mud 100% | | | |
| | | | | |
| | | | | |
| | | | • • • | |
| | | | | |
| | | | | |

| Gas R | ates |
|-------|------|
|-------|------|

| Choke (inches) | Pressure (psia) | Gas Rate (Mct/d) |
|----------------|-----------------|------------------|
| | | |



FLUID SUMMARY

FG Holl Company LLC

5/23\$/21W/Hodgeman

9431 East Central

Bauer Unit A #1-5

Suite 100

Job Ticket: 17159

Wichita, Kansas 67206+2563

DST#:1

ATTN: Frank Greenbaum

Test Start: 2012.02.14 @ 04:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: Viscosity:

9.00 lb/gal

Cushion Length:

Water Salinity:

ppm

Water Loss:

74.00 sec/qt 7.18 in³

Cushion Volume:

ft ppl

Resistivity:

ohmm

Gas Cushion Type: Gas Cushion Pressure:

psia

Salinity: Filter Cake:

3800.00 ppm

1.00 inches

Recovery Information

Recovery Table

Length Description Volume ft bbl 10.00 Mud 100% 0.146

Total Length:

10.00 ft

Total Volume:

0.146 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Superior Testers Enterprises LLC

Ref. No: 17159

Printed: 2012.02.20 @ 15:50:49

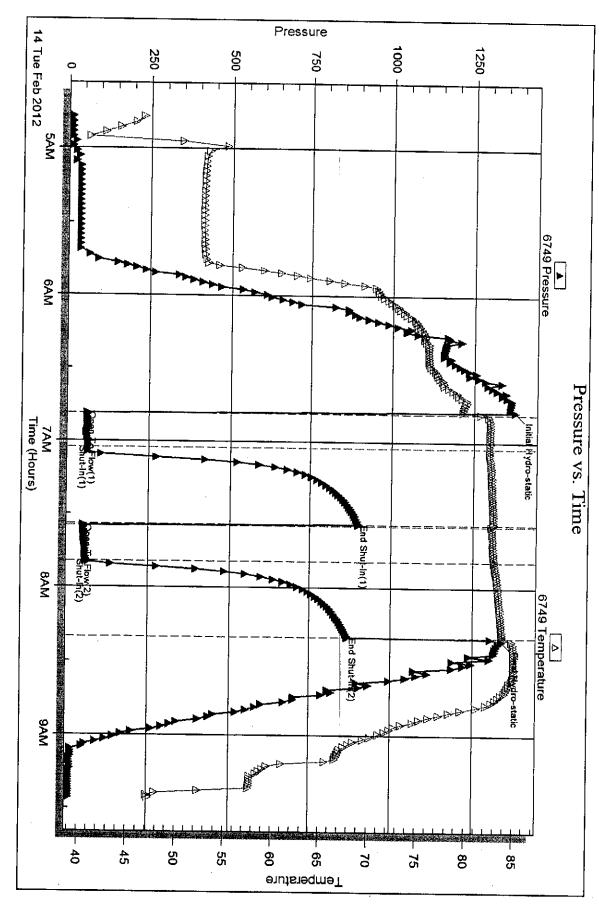


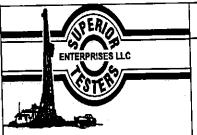
Printed: 2012.02.20 @ 15:50:50

Serial #: 6749

Outside

FG Holl Company LLC





FG Holl Company LLC

9431 East Central Suite 100

5/23S/21W/Hodgeman

Bauer Unit A #1-5

Job Ticket: 17160

DST#: 2

Test Start: 2012.02.17 @ 12:57:00

GENERAL INFORMATION:

Deviated:

No: Whipstock: ft (KB)

Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Time Tool Opened: 14:42:00 Time Test Ended: 17:48:00

interval:

Start Date:

Start Time:

4325.00 ft (KB) To 4355.00 ft (KB) (TVD)

Total Depth:

4355.00 ft (KB) (TVD)

Hole Diameter:

7.88 inchesHole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

3325 Great Bend/120

Reference Elevations:

2264.00 ft (KB)

2256.00 ft (CF)

KB to GR/CF:

8.00 ft

Serial #: 6651

Press@RunDepth:

Inside

67.74 psia @ 2012.02.17

12:58:00

4351.00 ft (KB) End Date:

2012.02.17 17:48:00 Capacity:

5000.00 psia

Last Calib :

2012.02.17

Time On Btm: Time Off Btm: 2012.02.17 @ 14:40:00 2012.02.17 @ 16:13:30

TEST COMMENT: 1ST Open

15 Minutes/Weak blow/Blow built to 1 inch

1ST Shut in 30 Minutes/No blow back 2ND Open . 15 Mintues/Weak blow/Blow built to 1/2 inch then died to 1/4 inch

End Time:

2ND Shut in 30 Mintues/No blow back

| -1 | | PI | RESSUR | E SUMMARY | |
|-------------|--------|----------|---------|----------------------|----|
| t | Time | Pressure | Temp | Annotation | |
| Ì | (Min.) | (psia) | (deg F) | | 1 |
| - | 0 | 2175.97 | 102.11 | Initial Hydro-static | |
| - | 2 | 48.52 | 102.60 | Open To Flow (1) | |
| - | 17 | 52.56 | 101.57 | Shut-In(1) | |
| İ | 47 | 133.93 | 103.43 | End Shut-In(1) | |
| 3 | 48 | 54.30 | 103.44 | Open To Flow (2) | |
| Temporature | 62 | 67.74 | 104.44 | Shut-in(2) | |
| 5 | 92 | 143.04 | 106.32 | End Shut-in(2) | |
| | 94 | 2113.99 | 107.83 | Final Hydro-static | |
| | | | | | |
| | | 1 | | | |
| | | |] | | |
| | | | | | |
| | | | | ł. | |
| | | ļ | | | ٠. |
| | ı | | | | |

Recovery

| Length (fil) | Description | Volume (bbl) |
|--------------|-----------------------------------|--------------|
| 15.00 | Mud 100% with show of oil in tool | 0.22 |
| | | |
| | | |
| <u></u> | | |
| | | <u> </u> |
| | | |

Gas Rates

| Choke (inches) | Pressure (psia) | Gas Rate (Mct/d) |
|----------------|-----------------|------------------|
| <u></u> | | |

Superior Testers Enterprises LLC

Ref. No: 17160

Printed: 2012.02.20 @ 15:51:02



FLUID SUMMARY

deg API

ppm

FG Holl Company LLC

5/23S/21W/Hodgeman

9431 East Central

Suite 100

Wichita, Kansas 67206+2563 ATTN: Frank Greenbaum

Job Ticket: 17160

Bauer Unit A #1-5

DST#: 2

Test Start: 2012.02.17 @ 12:57:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

51.00 sec/qt 8.38 in³

Water Loss: Resistivity:

ohm.m 5100.00 ppm

Salinity: Filter Cake:

1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

ft

ppl

psia

Recovery Information

Recovery Table

Length ft Description Volume bbl 15.00 Mud 100% with show of oil in tool 0.219

Total Length:

15.00 ft

Total Volume:

0.219 bbl

Num Fluid Samples: 0

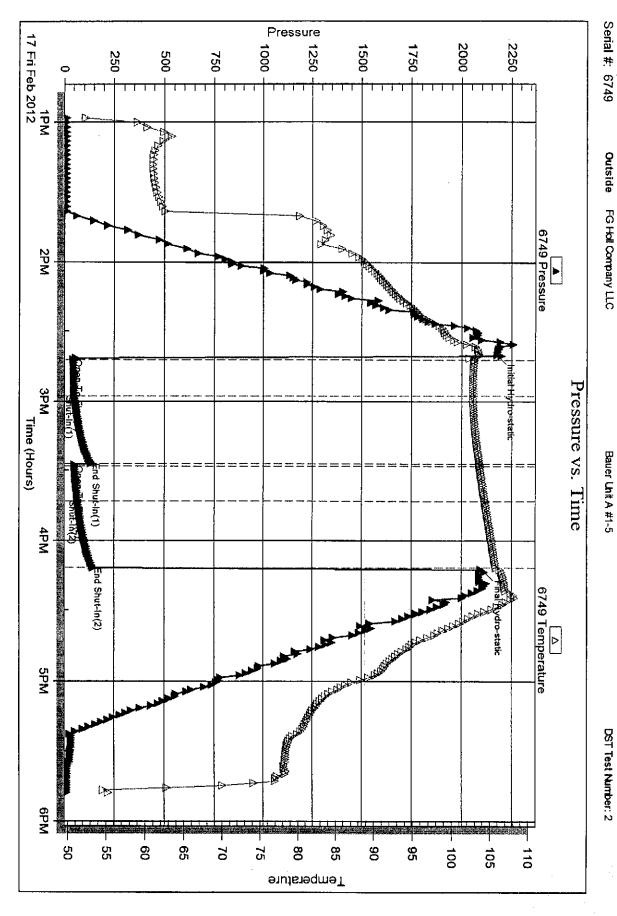
Num Gas Bombs:

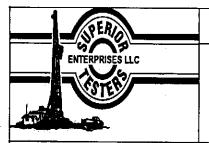
Laboratory Name:

Recovery Comments:

Laboratory Location:

Serial #:





FG Holl Company LLC

5/23S/21W/Hodgeman

9431 East Central Suite 100

Bauer Unit A #1-5 Job Ticket: 17161

Wichita, Kansas 67206+2563 ATTN: Frank Greenbaum

Test Start: 2012.02.19 @ 06:09:00

GENERAL INFORMATION:

Formation:

Mississippi Chert

Deviated:

Interval:

Total Depth:

No Whipstock: ft (KB)

Time Tool Opened: 08:18:00

Time Test Ended: 13:39:30

Unit No:

Conventional Bottom Hole (Initial)

Tester:

Test Type:

Ken Swinney

3325 Great Bend/120

Reference Elevations:

2264.00 ft (KB) 2256.00 ft (CF)

KB to GR/CF:

8.00 ft

Hole Diameter:

7.88 inches Hole Condition: Fair

4470.00 ft (KB) To 4542.00 ft (KB) (TVD)

Serial #: 6749 Press@RunDepth:

Inside

319.45 psia @

4542.00 ft (KB) (TVD)

4538.01 ft (KB)

2012.02.19

Capacity:

5000.00 psia

Start Date:

2012.02.19

End Date:

Last Calib.:

2012.02.19

Start Time:

06:10:00

End Time

13:39:30

Time On Btm:

2012.02.19 @ 08:15:30

Time Off Btm:

2012.02.19 @ 11:50:30

TEST COMMENT: 1ST Open

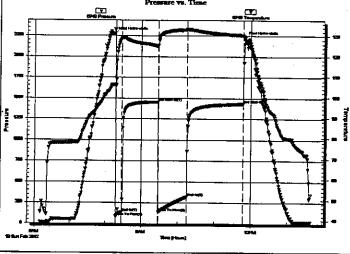
10 Mintues/Fair blow/Blow built to 12 inches

1ST Shut In 2ND Open

60 Minutes/Built to just below surface

45 Minutes/Good blow/Blow built to bottom of bucket in 14 minutes 90 Minutes/No blow back

2ND Shut In



| | | P | RESSUF | RE SUMMARY | |
|---------------|--------|----------|---------|----------------------|--|
| | Time | Pressure | Temp | Annotation | |
| | (Min.) | (psia) | (deg F) | | |
| | 0 | 2265.92 | 106.23 | Initial Hydro-static | |
| | 3 | 83.73 | 105.93 | Open To Flow (1) | |
| - | 12 | 138.78 | 128.68 | Shut-In(1) | |
| | . 72 | 1453.40 | 124.90 | End Shut-In(1) | |
| . 🖠 | 73 | 138.62 | 125.44 | Open To Flow (2) | |
| ure kreikler. | 120 | 319.45 | 132.84 | Shut-In(2) | |
| ž | 212 | 1432.04 | 130.29 | End Shut-In(2) | |
| | 215 | 2222.09 | 127.55 | Final Hydro-static | |
| | | | | • | |
| • | | | | | |
| , | | , | | | |
| . 1 | | | | | |
| | | | | | |
| | | | | | |

Recovery

| 465.00 Muddy Water with oil spots 6.80 0.00 Mud 45% Water 55% 0.00 0.00 Recovery Chlorides 26000 ppm 0.00 0.00 Rec. Resistivity 28 phms at 58% 0.00 | Description | Volume (bbl) |
|---|----------------------------------|---|
| 0.00 Recovery Chlorides 26000 ppm 0.00 | Muddy Water with oil spots | 6.80 |
| о.оо | Mud 45% Water 55% | 0.00 |
| 0.00 Rec. Resistivity 28 ohms at 58% 0.00 | Recovery Chlorides 26000 ppm | 0.00 |
| 0.00 | Rec. Resistivity .28 ohms at 58% | 0.00 |
| | | |
| | | Mud 45% Water 55% Recovery Chlorides 26000 ppm |

| Gas Rai | .es | |
|----------------|-----------------|------------------|
| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
| | | |



FLUID SUMMARY

FG Holl Company LLC

5/23S/21W/Hodgeman

9431 East Central

Bauer Unit A #1-5

Suite 100

Job Ticket: 17161

DST#: 3

Wichita, Kansas 67206+2563 ATTN: Frank Greenbaum

Test Start: 2012.02.19 @ 06:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: Viscosity:

9.00 lb/gal 48.00 sec/qt Cushion Length: Cushion Volume: Water Salinity:

ppm

Water Loss:

10.38 in³

Gas Cushion Type:

ppl

ft

Resistivity:

ohm.m

Gas Cushion Pressure:

psia

Salinity: Filter Cake: 5900.00 ppm 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------------|---------------|
| 465.00 | Muddy Water with oil spots | 6.800 |
| 0.00 | Mud 45% Water 55% | 0.000 |
| 0.00 | Recovery Chlorides 26000 ppm | 0.000 |
| 0.00 | Rec. Resistivity .28 ohms at 58% | 0.000 |

Total Length:

465.00 ft

Ref. No: 17161

Total Volume:

6.800 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Printed: 2012.02.20 @ 15:51:17

Laboratory Name:

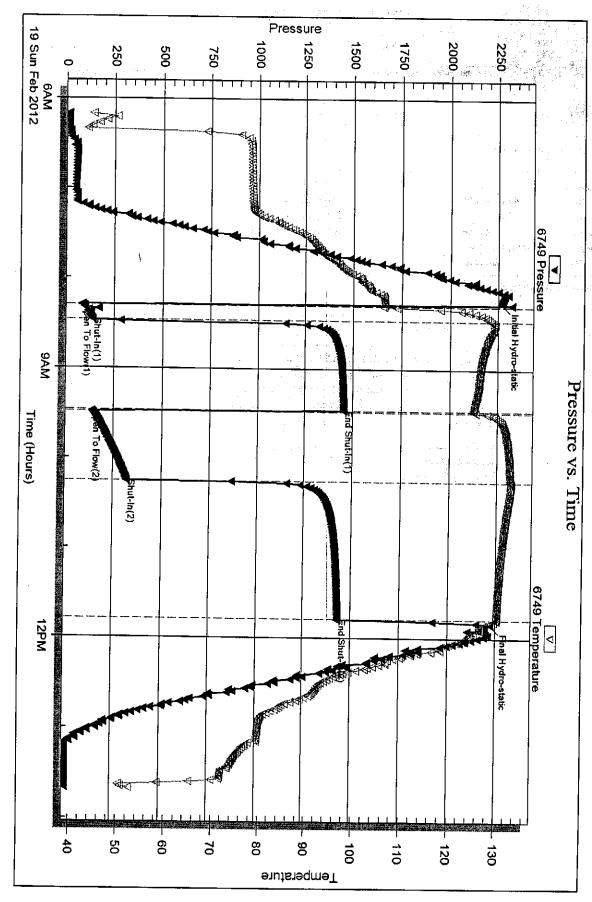
Laboratory Location:

Recovery Comments:

Serial #: 6749

Inside

FG Holl Company LLC



Mud-Co / Service Mud Inc.

| Operato | r | F.G. 1 | foll Co | - | | | County | Hodgen | nan | State | Kansas | | Pump | 6 | х | 14 | X. | 60 | SPM | Casing Pro | ogram | 8 5/8 | *@ | 573 | ft. |
|---------|---------|---------|----------|------------------|--------------|---|-----------------|-----------|---------------|-----------|-----------|-----------|----------------|-------------|-------|------------|-----------|---------------|-------------|------------|--------------------------------|------------|---------------|--|-----------------------|
| Velt | | Bauer | Unit 'A | #1-5 | | | Location | | | | | | | | GPM | | | 8.22 | ВРМ | | | | . @ | | ft. |
| ontrac | ог | Duke | Drilling | Co. | #8 | | Sec | 5 | TWP | 23S | RNG | 21W | D.P. | 4.5 | in. | | | 65.2 | FT/MIN R.A. | | · · · · · | | '@ | | ─ · ft. |
| itoakpo | int | Pratt, | Ks. | Date | 2/3 | /2012 | Engineer | | Jason | Whiting | J | | Collar | 6.25 | in. | 495 | _ft. | 76.3 | FT/MIN R.A. | | · T | otal Depth | | 4700 | m, |
| DATE | DEPTH | WEIGHT | | Visc | OSITY | GELS | pH | FILTE | ATIONFILT | RATION AN | (ALYSIS | | SAND | | RET | ORT | L.C.M. | Pump | CUMULATIVE | | | | | | |
| | feet | lb/gal | Sec API | <i>P</i> ∨ @F | Yp | 10 sec / 10 min. | Strip_ Meter | mi API | Cake 32nds | Pres. | CI ppm | Ca ppm | % | Solids % | Oil % | Water % | | Press. PSI | cost | | REMAR | KS AND TRE | ATMENT | | |
| 2/3 | . 0 | | | | | | | | | · | | | Н | | | ., | \vdash | - '- | • | RURT | | | | | |
| 2/10 | 573 | | | | | | | | | | | | | | | | | _ | | woc | | | | 1 | - |
| 2/11 | 1641 | 8.8 | 29 | | | | 7.0 | N/C | | | 21.5M | Hvy | | 2.3 | | 97.7 | | | | Drlg. | | •• | | j | |
| 2/12 | 2485 | 9.9 | 47 | 9 | 12 | 9/31 | 7.0 | 18.4 | 2 | | 88M | 2,120 | | 6.2 | | 93.8 | | _ | | Drlg. | |)isplace | d w/ c | hemical r | nud |
| 2/13 | 2905 | 8.6 | 74 | 13 | 18 | 12/44 | 10.5 | 7.2 | 1 | | 3,800 | 20 | | 2.0 | | 98.0 | 1 | | | СТСН | а | t 2905' I | ost ci | rculation | while |
| 2/14 | 2932 | 8.6 | 88 | 17 | 19 | 15/48 | 10.5 | 8.0 | 1 | | 8,200 | 20 | | 1.7 | | 98.3 | 1 | | | Orlg. | d | isplacin | g, lost | approx 1 | 160 L |
| 2/15 | 3537 | 9.1 | 42 | 10 | 12 | 8/31 | 8.0 | 14.4 | 1 | | 8,200 | 120 | | 4.5 | | 95.5 | Tr | | | Drlg. | | ST #1 (| | | |
| 2/16 | 4062 | 9.5 | 47 | 12 | 13 | 10/43 | 9.5 | 11.2 | 1 | | 7,300 | 40 | | 8.1 | | 91.9 | 1 | | | Drlg. | | ST #2 (| <u> 2</u> 435 | 5' | |
| 2/17 | 4375 | 9.4 | 51 | 15 | 16 | 17/47 | 10.5 | 8.4 | . 1 | | 5,100 | 20 | | 7.5 | | 92.5 | 1/2# | | | CFS | | ST#3 (| <u>a)</u> 454 | 2' | |
| 2/18 | 4394 | 9.1 | 48 | 15 | 16 | 15/49 | 9.5 | 10.4 | 1 | | 5,900 | 20 | | 5.4 | | 94.6 | 1/2# | | | Drig. | | | | | |
| 2/19 | 4542 | 9.5 | 48 | 13 | 15 | 13/37 | 10.0 | 9.2 | 1 | | 4,400 | 20 | | 8.2 | | 91.8 | TR | | | DST #3 | | | | | |
| 2/20 | 4700 | 9.4 | 49 | 15 | 16 | 14/45 | 9.0 | 9.6 | 1 | | 5,100 | 20 | | 7.5 | | 92.5 | -2# | | | CFS | | | | | |
| 2/21 | 4700 | | | | | ļ | | | | | | | | | | | | L | | RDRT | | | | | |
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| \Box | | | | | | | | | | | _ : | | | | | | | | | | | | | | |
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| - | | | - | | | | | | | | | | | | | | \vdash | | | | Pit, Chl cont ed Volume: 82 | | : 2000 | <u>,,, </u> | |
| _ | | | | | | <u> </u> | | | | | | | | | | | ┝─┤ | | | Esumate | eu volume. o. | 23 DUIS | | | |
| | | | | | | | Materials | | Şa | cks | Amo | unt | | Mate | rials | | Sa | cks | Amou | nt | | | | Amour | t |
| | MUD-C | O / SEF | RVICE N | IUD IN | C. | C/S HU | | | | 150 | | | - | | | | | | | | | | | _ | |
| | | | | | | CAUST | | \ | | 25 | | | | | | | <u> </u> | | | | | | | _ | |
| | | | n Suite | | | DESCO | | | | 2 | | | | | _ | | <u> </u> | | | | | | | _ | |
| | | | Ks. 672 | | | DRILL P | AK | | | 6 | <u> </u> | | | | | | | | | | | | <u></u> | _ | |
| 3 | 16/264- | 2814 F | ax: 316 | /264-5 | 024 | LIME | | | | 2 | | | | | - | | <u> </u> | | | | otal Mud Cos | | L | _ | |
| | | | | | | PREMIL | | | | 462 | <u></u> | | | | _ | | | | | | Trucking Cos | | <u></u> | _ | |
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| | DRII | LLING | MUD RE | CAP | | SODA A | | | | 41 | | | | | _ | | <u></u> _ | | | | Taxes | | | _ | |
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| | | | | | | SUPER | LIG | | | 18 | | | | | | | l | | 1 | 1 | TOTAL COS | T | l | | |

BASIC 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124

FIELD SERVICE TICKET

1718 04636 A

| F | | | SERVICES P | hone 620-0 | 672-1201 | | | DATE | TICKET NO |) | |
|---|--|----------------|--|---------------|-----------------------|---|--------------|------------------|--------------|-----------------------|----------------------|
| DATE OF) - /(| 17-2 | /)/ <i>D</i> c | DISTRICT PRAT | T, Ks. | | NEW X | OLD P | ROD INJ | ☐ WDW | | JSTOMER RDER NO.: |
| CUSTOMER / | | 40 | 11 CO. 40 | | | LEASE /3 | AUEI | Z UN11 | - A' | | WELL NO. (-5 |
| ADDRESS | | 7 () | <u>cc</u> | | | COUNTY / | 10DG | FMAN | / STAT | E KS | |
| CITY | | | STATE | | | SERVICE CF | REW / F | SLEY MI | ARQUEZ | PIE | K50N |
| AUTHORIZED BY | Υ | | | | | JOB TYPE: (| ML |) - 0,5 | 18"5. | 7. P. | |
| EQUIPMENT | | HRS | EQUIPMENT# | HRS | EQ | UIPMENT# | HRS | TRUCK CAL | LED 2-4 | 7 - / DATE | PM /O.CO |
| 37586 | 2/7 | 1 | | | 1 | | + | ARRIVED A | | 0-12 | AM /2:00 |
| <u> 1987-198</u> 1907 I - 1991 | 02 | - | | | | . * | \vdash | START OPE | | 2 | ₩ 3-30 |
| 11051-1128 | 00 | | | | - | | †] | FINISH OPE | RATION | 2 | ₩ 4:15 |
| | | | | | | | | RELEASED | | <u>\</u> | <u>#4.45</u> |
| | | | | | | | | MILES FROI | M STATION | ro Well | · <u>40</u> |
| products, and/or sup become a part of th | nolies incl | udes all | of and only those terms a t the written consent of ar | nd conditions | appearing o | n the front and bac | K of this do | IGNED: (WELL OWN | IER, OPERATO | OR, CONTI | RACTOR OR AGENT) |
| ITEM/PRICE REF. NO. | | N | MATERIAL, EQUIPMEN | NT AND SE | RVICES U | SED | UNIT | QUANTITY | UNIT P | RICE | \$ AMOUNT |
| CP 101 | 1-1- | C01 | NBLEND | | | | <u> SK</u> | 125 | | | • |
| PILLOC | SU | VIAI | ON (MIT. | | | | SK | 150 | | | |
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| CE 240 | 12/2 | $\frac{1}{N}$ | ING SERV | 10= 0 | HANG | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 15K | 275 | <u> </u> | | |
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| СН | EMICAL/ | ACID D | ATA: | | | | | | Dr SUE | 3 Τ Θ ΤΑΥ 5 | |
| | | | <u> </u> | _ | l | ERVICE & EQUI | PMENT | | X ON \$ | | <u> </u> |
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| | / | | (1) | | OUT MAT | EDIAL AND SE | | VA | 1/1 | 11 | |



TREATMENT REPORT

| Customer | G 1101 | // | | | L | ease No. | | | | | T | Date | <u> </u> | | | | <u>-</u> . | |
|---|------------------|------|-----------------------|-------------|---------------|----------|------|-----------|-----------|------------|--------------------|------------|------------|---------------|----------|--------------|------------|-------------|
| Lease 3 | ALLER | UN | 1/1 | 4' | V | /ell # | /- | -5 | | | | C | Z - | 10 |) - | DC | 12 | |
| Field Order # | Station | F | 7A71 | - Ks | | | | Casing | | | (| County | | GEN | 1011 | | | 5. |
| Type Job | NW- | - 0 | 5/8" | 'Sī | <u>)</u> | | | | Formation | | 5 73 | 1 | | Legal | Descript | tion - 21 | | |
| PIP | E DATA | | PERF | ORAT | ING | DATA | | FLUID (| | | | | REA | TMEN | | | | |
| Casing Size | / #Tubing Si | ze | Shots/F | t [| Cn | リ | Ag | T-CON | = 1255K | 2 | R | ATE | PRE | ss | ISII | P | - | |
| Depth / / / / / / / / / / / / / / / / / / / | Donth | Ì | From | | То | | Pre | Pad S | 2.12 CUFT | M | ax . | | | | 5 M | lin. | | |
| Volume 4/4/ | Volume BBC | | From | | GЛ | T- | Pa | mmon = | 15051 | M | in S | | | | 101 | Min. | | |
| Max Press | Max Pres | s | From | | То | | | | OLUFT | A۱ | | | | | 15 [| Min. | | |
| Well-Connecti | on Annulus \ | /ol. | From | | То | | (| | | Н | HP Used | | | · | Ann | ulus Pre | essure | |
| Plug Depth / | | | From | | То | • | | ish 35 B | BC | G | as Volume | | | , | | al Load | | |
| Customer Rep | presentative | STE | ve-1 | DUKE. | 8 | Station | Mar | lager D. | Scon | | | Treat | er 人 | !LE | 546 | <u> </u> | | · |
| Service Units | | | 289 | 1984 | <u>/3</u> | 1983 | _ | 19862 | | | | | | | | | | |
| Driver Names | ESLE 4 Casing | MA | <i>RQUEZ</i> ibing | | | PIERS | onl | | | | | | | | | | | |
| Time | Pressure | | ssure | Bbls. | Pum | ped | | Rate | | | | | | ce Log | | | | |
| 2:COAM | | | | | | • | | | ONILL | | | | SF | FET | y M | EET | IN(7 | |
| 2:20Am | | | | | | | | | SIOT | | TRUC | _ | 111 | 7 CF | 77 | · · | - | · . |
| 2:30 Am | | | | | | | | | RUN I | <u>4.</u> | JTS. | <u>87</u> | <u>ප x</u> | 124 | | S. | | |
| 2.12.0 | | | | | | - | | • • | CENI | / . | - / , | <u> 1,</u> | ك/ | Alan " | | | | |
| 3.15 Am | | | | | | | | | 1/00/ |) |)D 1 | <u>00</u> | 11C | 5 M | 2.75.0 | 1101 | RC u | 100 |
| 130Am |) F > | | | | ر | | | , | 1100K | <u></u> | 7 / / 1 / / = 1 | <u>0 (</u> | X | 1. [[| VCCIHI | K CII | RC U | 7/2/0 |
| 4:45AM 4:46Am | 250 250 | | | | 77 | , | | <u>(e</u> | MIVI | 2 | SK | 1 [] [] | Con | 16 | 12 | 100 | DG | |
| 4.55Am | 150 | | | (7 | 2 | | | <u>le</u> | MIXI | | · · · · · · · | Co | | 7 | a | _ | PP | <u></u> |
| 4:coam | 150 | | | | , <u></u> | | (| 0 | SHUT | _ ~ | | 1 | | , | 45F | | / | |
| 4:05Am | 0 | | | | $\overline{}$ | \neg | | 4 | STA | 12 | TD | 157 | 7/6 | PFU | MEA | 17 | • | |
| 4:13Am | | | | | 30 | | | 3 | , p., | |) R | _ | | ,, | | , | | |
| 4:15Am | | | | | 35 | <u> </u> | | 3 | PLUC | 9 | Da | لمن | | | | | | |
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| | : | | | <u>-</u> | | | | | | | | 11 | 1AL | IK5 | <u> </u> | | SLEY | |
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| 4004 | | | | O - P- | | 2010- | D., | -W KO-6 | 7104-00- | 10- | /coo | 676 | 106 | ? . | w /C |)()\-C= | 20 500 | |
| 10244 | INE HIW | ay (| 9 I • P | .U. B | OX (| 50 T 3 • | 12/7 | au, KS 6 | 7124-861 | 13 S | (b2U) | 6/2 | -120 | T F | IX (bz | 2U) 67 | Z-538 | 3 |



FIELD SERVICE TICKET 1718 **05796** A

| | | SERVICES Pho | ne 620-672-1 - フラぐ | | 21 W | | DATE | TICKET NO | |
|---|---------------------|---|-----------------------|------------|------------------------------|--------------|------------------|-------------------------|---|
| DATE OF JOB 2 - 2 | 1-12 | DISTRICT Pratt, T | ansas | | | VELL | ROD [] INJ | □ WDW □ | CUSTOMER ORDER NO.: |
| CUSTOMER - | G Hall | Company, L | L.C | | LEASE Ba | verl | Init 'A | 11 | WELL NO. - 5 |
| ADDRESS | <u> </u> | | | | соинту Н | odae | e man | 1 | ansas |
| CITY | | STATE | | | | | | | M.McGraw |
| AUTHORIZED B | Y | | | | | | | ToAbana | |
| EQUIPMENT | - | EQUIPMENT# | HRS | EQL | IIPMENT# | HRS | TRUCK CÁL | | ATE AND SIME |
| 37,216 | 2.5 | | | | | | ARRIVED AT | JOB 2.20-1 | 2 20:15 |
| 10007.100 | 05 2.5 | | | | | | START OPE | RATION 2.21- | 12 12:00 |
| 19,903-19,9 | <u>05 2:5</u> | | | | | | FINISH OPE | RATION 2.21 | 12 9 230 |
| 19,826-19,8 | 60 25 | | | | | | RELEASED | 2-21- | 2 48 2:45 |
| 1,000 1,0 | <u> </u> | | | | | | MILES FROM | M STATION TO W | |
| products, and/or sup become a part of th | oplies includes all | execute this contract as an ag of and only those terms and out the written consent of an off | conditions appear | ring on | the front and back | of this do | cument, No addit | tional or substitute te | act for services, materials, ms and/or conditions shall INTRACTOR OR AGENT) |
| ITEM/PRICE REF. NO. | | MATERIAL, EQUIPMENT | AND SERVICE | s us | ED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
| < P 103 | 60/40 f | Poz Cement | | | | 15h | 1801 | | |
| | | | | | | | | | |
| | - | | | | , | <u></u> | | | |
| cc 200 | Cement | Gel | | | | Lb | 3101 | | |
| CC 103 | Cellfla | tre | | | | 16 | 45 | | |
| | 2 . S G L | | | | | | | | |
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| E 100 | Pickup | Mileage Eavinment M | `` | | | M | 90 | | |
| E (0) | | elivery | Heage | | | m i tm | 180 698 | | · · · · · · · · · · · · · · · · · · · |
| | DUIN D | 'elivery | | | | 1771 | 010 | | |
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| CE 202 | Cement | Pump:1,001Fe | et To 2 | 00 | OFeet | hr5: | 4 | | |
| CE240 | Blendi | ngandmixin | gservi | <u>c e</u> | | 5h | 180 | | |
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| 5003 | Service | Supervisor | • | | | hrs. | 8 | | |
| <u> </u> | | | | | | .1 | <u> </u> | SUB(TO | |
| CHE | MICAL / ACID D | ATA: | | | | | | 76.5 | |
| | | | | SEF | RVICE & EQUIP | MENT | %TA | X ON \$ | |
| | | | | MA | TERIALS | | %TA | X ON \$ | |
| <u> </u> | | | | | | | | ТОТ | ^{VL} |
| | | | | | | | | | 1 |
| 0551435 | - | | THE ABOVE : | 447- | NAL AND OFF | #OF | 1111 | 7 1 1 | <u> </u> |
| SERVICE REPRESENTATION | mence P. | MI essid | | | RIAL AND SERV TOMER AND R | | BY: | n4/1 | () - 17 - 17 - 17 - 17 - 17 - 17 - 17 - |



TREATMENT REPORT

| energy services, L.P. | | | | | | | | | | | | | | |
|--|--|--------------------|------------------|--|-------------------|----------------------|------------------------------------|--------------------------------|-----|--|----------------|------------------|----------------------|--|
| Customer Lol Company LL Lease No. Date | | | | | | | | | | | | | | |
| Lease Baver Unit "A" Well # 1-5 | | | | | | | | | | | | | | |
| Field Order # Station Pratt, Tansas Charlings State County County | | | | | | | | | | | | | ate 1 9/15/95 | |
| Type Job | Legal Description 21 W | | | | | | | | | | | | | |
| PIPE | DATA | PERF | PERFORATING DATA | | | | | TREATMENT RESUME | | | | | | |
| Casing Size | % Shopo/F | \$hope/Fi | | | 180 sactis 6 | | | 0/40 POTE RPEAN ISIP | | | | | | |
| Depth | · | | То | | 480 | | jel. 25 | Max. 1 st. cellfla | | lalte | | | | |
| Volume | | | То | | 13.781 | | .b./Gal. | , MB, 92 Gal. 15/T., 1 | | T., 1.4 | 43°CO.FT./Str. | | | |
| Max Press Max Press 5 | | | Figm To | | 1530 | | | Avg | | | | 15 Min. | | |
| | ion Annulus Vol. Fr | | То | | Floring Francisco | | | HHP Used | | | | Annulus Pressure | | |
| Plug Depth Packer Depth Customer Representative | | ' I From | | | | | h wate | Gas Volume | | | Total Load | | | |
| Customer Repre | esentative | | ISDN6N2 | | 1 | | idscot | # CTT | | tarence R. | | . Messich | | |
| Service Units 3 | 7,216 | 19,903 | 19,905 | 19,8 | | 860 | | | | | | | 4.4% | |
| Driver Names Me S | A | | <u> </u> | <u>c Gra</u> | W | | | | · | | | ψ. · | | |
| Time P. M. | Casing Pressure | Tubing Pressure | | | Rate | | | Service Log | | | | | | |
| 10:15 | | | | | Trucks on locat | | | tion and holdsafety meeting. | | | | | | |
| | | | | | | | 13/P/W | g 1470 Feet = 50 sacts cement | | | | | | |
| 12:01 | 350 | | | | 5 Stant | | | Fresh water Pre-Flush. | | | | | | |
| | | | 1 20 | | - | <u>5</u> | Start | t mixing 50 sactscement. | | | | | | |
| | | | 32.5 | | 5 | <u> </u> | Start Freshwater Displacement. | | | | | | | |
| 12:11 | | -0- | <u>- 42.5</u> | | | | Stop pumping. | | | | | | | |
| ••• | | | | | | | | ug 600 Feet - 60 sachs cement. | | | | | | |
| 12:50 2 | | 275 | [| _ | 5 Start | | | Fresh water pre-Flush. | | | | | | |
| | | | 5 | | <u></u> | | Start Mixing 60 sactrs ce Ment | | | | | | | |
| | | | 20.3 | | | | Start Freshwater Displacement | | | | | | | |
| 12:55 | Ø | <u>-0-</u> | 22.3 | | | | Stop pumping. | | | | | | | |
| 1:00 | | | - | | 7 | | 3rd Plug, 60Feet-20 Sachts cement. | | | | | | | |
| 1:58 | | 100 | | | | Start mixing cement. | | | | | | | | |
| 2:00 -0- | | -0- | 10 | | _ | | _ | ent circulated to surface. | | | | | | |
| | -0- 7-5 3 | | | Stoppumping. Plug Rat Holeand Mouse hole | | | | | | | | | | |
| 2:15 | | -0- | | <u>'</u> | 1 | | | | | | | | | |
| | | | | | Washup pumptruck. | | | | | | | | | |
| 2:45 | | | | Tob Complete. Thank You. | | | | | | | | | | |
| | - - - - - - - - - - | | | | • | | | | | | | | | |
| | | | | Clarence, Mitte, Mitte | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 10244 | NE Hiw | av 61.∙-P | O Box | 1 3613 | • Pratt | KS 6 | 7124-861 | 3 • (620) | 672 | -120 | 1 • Eau | k (620) 672 | 2-5383 | |
| V/4-1-1 | | ., | | | - ratt | | | (UEU) | | | | | g. Inc. 620-672-3656 | |