KOLAR Document ID: 1367232

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
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.: |
|--|--|
| Name: | Spot Description: |
| Address 1: | |
| Address 2: | Feet from North / South Line of Section |
| City: State: Zip: + | Feet from _ East / _ West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | □NE □NW □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: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| ☐ Oil ☐ WSW ☐ SWD | Elevation: Ground: Kelly Bushing: |
| ☐ Gas ☐ DH ☐ EOR | Total Vertical Depth: Plug Back Total Depth: |
| ☐ OG ☐ GSW | Amount of Surface Pipe Set and Cemented at: Feet |
| CM (Coal Bed Methane) | |
| Cathodic Other (Core, Expl., etc.): | Multiple Stage Cementing Collar Used? |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| ☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD | Drilling Fluid Management Plan |
| ☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer | (Data must be collected from the Reserve Pit) |
| Described | Chloride content: ppm Fluid volume: bbls |
| ☐ Commingled Permit #: | Dewatering method used: |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| EOR Permit #: | Location of fluid disposal if flauled offsite. |
| GSW Permit #: | Operator Name: |
| | Lease Name: License #: |
| Spud Date or Date Reached TD Completion Date or | Quarter Sec TwpS. R |
| 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 ☐ Drill Stem Tests Received |
| Geologist Report / Mud Logs Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |

KOLAR Document ID: 1367232

Page Two

| Operator Name: _ | | | | Lease Name: | | | Well #: | |
|--|---------------------|-----------------------|--------------------------------|-----------------------|---|---|---|--|
| Sec Twp. | S. R. | E | ast West | County: | | | | |
| | flowing and shu | ut-in pressures, v | vhether shut-in pre | ssure reached st | atic level, hydrosta | tic pressures, bot | | val tested, time tool erature, fluid recovery, |
| Final Radioactivity files must be subm | | | | | | iled to kcc-well-lo | gs@kcc.ks.gov | v. Digital electronic log |
| Drill Stem Tests Ta | | | Yes No | | | on (Top), Depth ar | | Sample |
| Samples Sent to 0 | Geological Surv | /ey | Yes No | Na | me | | Тор | Datum |
| Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru | _ | | Yes No Yes No Yes No | | | | | |
| | | B | CASING eport all strings set-c | | New Used | ion, etc. | | |
| Purpose of Strir | | Hole illed | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | |
| | | | | | | | | |
| | | | ADDITIONAL | CEMENTING / SO | UEEZE RECORD | | | |
| Purpose: | | epth T Bottom | ype of Cement | # Sacks Used | # Sacks Used Type and Percent Additives | | | |
| Perforate Protect Casi Plug Back T | | | | | | | | |
| Plug Off Zor | | | | | | | | |
| Did you perform a Does the volume Was the hydraulic | of the total base f | fluid of the hydrauli | | _ | = | No (If No, sk | ip questions 2 an ip question 3) out Page Three | , |
| Date of first Product Injection: | tion/Injection or R | esumed Production | Producing Meth | nod: | Gas Lift 0 | Other (Explain) | | |
| Estimated Production Per 24 Hours | on | Oil Bbls. | | | | | Gas-Oil Ratio | Gravity |
| DISPOS | SITION OF GAS: | | N | METHOD OF COMP | LETION: | | | DN INTERVAL: Bottom |
| | Sold Used | I on Lease | Open Hole | | | mmingled mit ACO-4) | Тор | BOROTT |
| , | , | | | B.11 B1 | | | | |
| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, | Fracture, Shot, Cer (Amount and Kind | menting Squeeze I of Material Used) | Record |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TUBING RECORD: | : Size: | Set | Δ+- | Packer At: | | | | |
| TODING RECORD: | . 3126. | Set | n. | i donei Al. | | | | |

| Form | ACO1 - Well Completion | | |
|-----------|--------------------------|--|--|
| Operator | Mai Oil Operations, Inc. | | |
| Well Name | L & N MILLER 1 | | |
| Doc ID | 1367232 | | |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|-----|----------------------------------|
| Surface | 12.25 | 8.625 | 20 | 251 | 60-40 POZ | | 2%gel,4% CC |
| Production | 7.875 | 5.5 | 14 | 4446 | 60-40 POZ | 160 | 2%gel |
| | | | | | | | |
| | | | | | | | |

JAMES C. MUSGROVE

Petroleum Geologist, LLC 212 Main Street P.O. Box 215 Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations L&N Miller #1 SW-NE-SW-NW Section 16-20s-22w Ness County, Kansas

Page 1

5 1/2" Production Casing Set

.Contractor:

Southwind Drilling Co. (rig #3)

Commenced:

June 19, 2017

Completed:

June 26, 2017

Elevation:

2209' K.B., 2207' D.F., 2201' G.L.

Casing program: Surface; 8 5/8" @ 251'

Production, 5 1/2" @ 4446'

Sample:

Samples saved and examined 3600' to the Rotary Total Depth.

Drilling time:

One (1) foot drilling time recorded and kept 3600' to the Rotary Total Depth.

Measurements:

All depths measured from the Kelly Bushing.

Drill Stem Tests:

There were three (3) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log:

By Eli Wireline Services, Dual Induction, Compensated Density/Neutron

and Micro Log.

| Sub-Sea Datum |
|---------------|
| |
| |
| +773 |
| +732 |
| -1493 |
| -1507 |
| -1540 |
| -1797 |
| -1867 |
| -1907 |
| -1987 |
| -2059 |
| -2085 |
| -2143 |
| -2155 |
| -2241 |
| -2244 |
| |

(All tops and zones corrected to Electric Log Measurement)

Mai Oil Operations L&N Miller #1 SW-NE-SW-NW Section 16-20s-22w Ness County, Kansas

Page 2

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA through LANSING/KANSAS CITY SECTIONS

3600-4076'

There were several zones of well-developed porosity encountered in the drilling of the Topeka, Toronto, , Lansing, and Kansas City Sections, but no shows of oil and/or gas was noted. (See attached geologist sample log)

MARMATON SECTION

4116-4126' Limestone, tan, brown, finely crystalline, poor scattered pinpoint porosity,

no shows.

4148-4170' Limestone, white, cream, finely crystalline, chalky, scattered inter-

crystalline porosity, no shows.

4174-4193' Limestone, cream, white, finely crystalline, poor visible porosity, (dense),

no shows.

PAWNEE SECTION

4206-4230' Limestone, cream, white, finely crystalline; chalky in part, poor visible

porosity, no shows.

4230-4264' Limestone, cream, white, gray, chalky, shaley with depth, no shows.

FT SCOTT SECTION

4268-4280' Limestone, cream white, finely crystalline, chalky in part, poor scattered

pinpoint type porosity, trace spotty black stain, no free oil and no odor in

fresh samples.

CHEROKEE SECTION

4298-4314' Limestone, cream, white, finely crystalline, few fossiliferous, dense, trace

chert; white, oolitic, boney, no shows.

4323-4330' Limestone, white, cream, finely crystalline, poor visible porosity, chalky,

no shows.

4330-4353' Limestone, white, cream, few fossiliferous, poor to fair vuggy to pinpoint

type porosity, chalky, no shows plus gray and green shale.

MISSISSIPIAN SECTON

4353-4364' Dolomite, white, finely crystalline, poorly developed pinpoint type

porosity, trace brown stain, no free oil and faint odor in fresh sample,

trace chert white, few orange, opaque, no shows

Mai Oil Operations L&N Miller #1 SW-NE-SW-NW Section 16-20s-22w Ness County, Kansas

Page 3

OSAGE SECTION

4363-4370'

Chert; white, opaque, fair, finely vuggy type porosity, black stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #1

4335-4370

Times:

30-30-30-30

Blow:

Weak

Recovery:

5' oil cut mud

Pressures: ISIP 969

psi

FSIP 909

psi

IFP 17-18 psi

FFP 20-23

psi

HSH 2185-2153

psi

4370-4381;

Chert, white; scattered vuggy porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #2

4334-4389

Times:

30-30-45-60

Blow:

Strong

Recovery:

30' clean oil

496' slightly oil cut muddy water

(57% oil; 85% water; 10% mud)

265' oil cut muddy water

(10% oil; 40% water; 50% mud)

Pressures:

ISIP 1381

psi

FSIP 1382

psi

IFP 28-205 psi

FFP 209-373 HSH 2173-2095

psi psi

4389-4400'

Chert; as above

4400-4420'

Dolomite, white, finely crystalline, poor inter-crystalline porosity, trace

light brown stain, weak show of free oil and faint to fair odor in fresh samples; plus trace sand; white, fine to medium grained; sub-rounded,

friable, no shows.

4420-4450'

Chert and dolomite, as above, no shows.

Mai Oil Operations L&N Miller #1 SW-NE-SW-NW Section 16-20s-22w Ness County, Kansas

Page 4

Rotary Total Depth

4450 -2241

Log Total Depth

4453 -2243

Recommendations:

5 ½' production casing was set and cemented on the Mai Oil Operations, L&N Miller #1.

Respectfully yours,

Wyatt Urban

Petroleum Geologist



Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

Job Ticket: 64792

L & N Miller #1

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.25 @ 06:46:00

GENERAL INFORMATION:

Formation:

Mississippi

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney

Unit No:

2209.00 ft (KB)

2201.00 ft (CF)

Time Test Ended: 12:08:00

Time Tool Opened: 08:26:30

4335.00 ft (KB) To 4370.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 4370.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

KB to GR/CF:

Reference Elevations:

8.00 ft

Serial #: 8960

Press@RunDepth:

909.20 psig @

4367.00 ft (KB) End Date:

2017.06.25

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

2017.06.25 06:46:05

Outside

End Time:

12:07:59

Time On Btm:

2017.06.25 2017.06.25 @ 08:24:30

Time Off Btm:

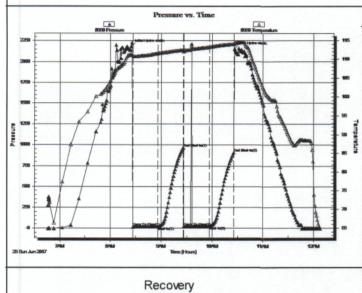
2017.06.25 @ 10:26:30

TEST COMMENT: IFP 30 minutes Blow built to 1/4" in 10 minutes then died after 20 minutes

ISI 30 minutes No blow back

FFP 30 minutes Dead no blow / Flush tool no help

FSI 30 minutes No blow back



| | | Pressure | Temp | Annotation |
|--------|----|----------|---------|----------------------|
| (Min.) | | (psig) | (deg F) | |
| | 0 | 2183.34 | 111.27 | Initial Hydro-static |
| | 2 | 15.59 | 110.92 | Open To Flow (1) |
| 3 | 32 | 17.91 | 111.57 | Shut-In(1) |
| 6 | 62 | 969.48 | 112.49 | End Shut-In(1) |
| 6 | 62 | 19.46 | 112.10 | Open To Flow (2) |
| 9 | 92 | 23.36 | 113.26 | Shut-In(2) |
| 12 | 21 | 909.20 | 114.07 | End Shut-In(2) |
| 12 | 22 | 2152.23 | 114.30 | Final Hydro-static |

| Length (ft) | Description | Volume (bbl) |
|-------------|---|--------------|
| 5.00 | Oil cut Mud w/thin layer of oil in pipe | 0.02 |
| 0.00 | Oil 10% Mud 90% | 0.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 64792

Printed: 2017.06.27 @ 16:25:59



TOOL DIAGRAM

Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1

Job Ticket: 64792

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.25 @ 06:46:00

Tool Information

Drill Pipe:

Length: 4275.00 ft Diameter: 3.80 inches Volume: 59.97 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 60.00 ft Diameter: 2.25 inches Volume: 0.30 bbl Total Volume: 60.27 bbl

Tool Weight:

2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 48000.00 lb

Tool Chased

0.00 ft

String Weight: Initial 43000.00 lb

Final 43000.00 lb

Drill Pipe Above KB: 20.00 ft
Depth to Top Packer: 4335.00 ft
Depth to Bottom Packer: ft

Number of Packers:

20.00 ft

Interval between Packers: 35.00 ft

55.00 ft 2 Diameter:

6.75 inches

Tool Comments:

Tool Length:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|-------------------------|-------------|------------|----------|------------|----------------|----------------------|
| Shut-In Tool | 5.00 | | | 4320.00 | | |
| Hydraulic tool | 5.00 | | | 4325.00 | | |
| Top Packer | 5.00 | | | 4330.00 | | |
| Packer | 5.00 | | | 4335.00 | 20.00 | Bottom Of Top Packer |
| Anchor | 30.00 | | | 4365.00 | | |
| Recorder | 1.00 | 8354 | Inside | 4366.00 | | |
| Recorder | 1.00 | 8960 | Outside | 4367.00 | | |
| Bullnose | 3.00 | | | 4370.00 | 35.00 | Anchor Tool |

Total Tool Length: 55.00



FLUID SUMMARY

Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1 Job Ticket: 64792

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.25 @ 06:46:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity:

58.00 sec/qt

Water Loss: Resistivity:

71.78 in³ ohm.m

Salinity: Filter Cake: 7600.00 ppm 1.00 inches Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---|---------------|
| 5.00 | Oil cut Mud w/thin layer of oil in pipe | 0.025 |
| 0.00 | Oil 10% Mud 90% | 0.000 |

Total Length:

5.00 ft

0.025 bbl Total Volume:

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

ft

bbl

psig

Laboratory Location:

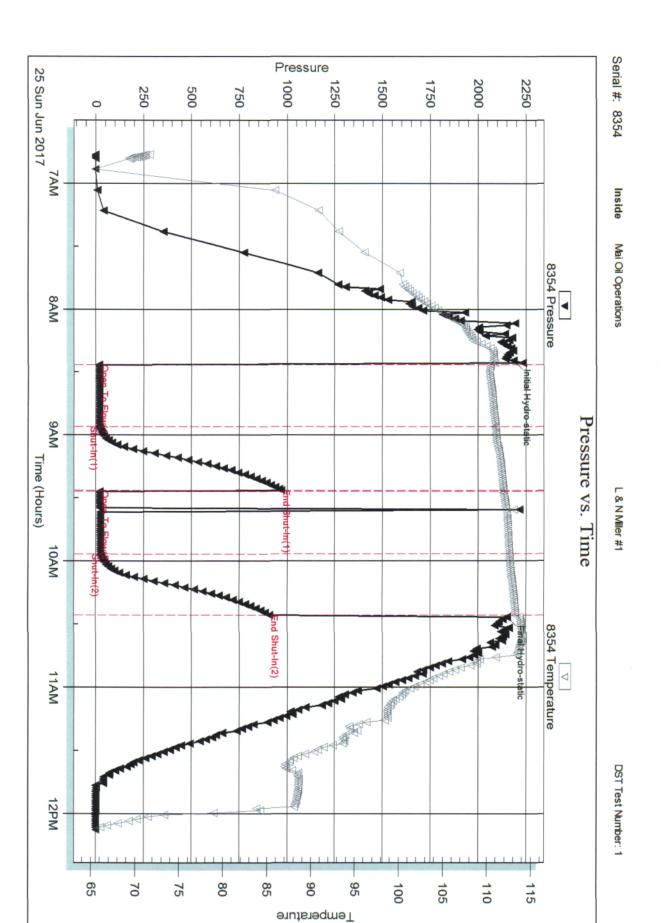
Laboratory Name:

Recovery Comments:

Trilobite Testing, Inc

Ref. No: 64792

Printed: 2017.06.27 @ 16:26:00



Trilobite Testing, Inc

Ref. No: 64792

Printed: 2017.06.27 @ 16:26:00



Mai Oil Operations

16-20S-22W Ness,KS

L & N Miller #1

8411 Preston Road Suite 800 Dallas, TX 75225+5520

ft (KB)

Job Ticket: 64793 DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.25 @ 19:33:00

GENERAL INFORMATION:

Formation:

Mississippi

Deviated:

No Whipstock:

Test Type: Conventional Bottom Hole (Initial) Tester: Ken Sw inney

Time Tool Opened: 21:11:30 Time Test Ended: 02:01:30

72

Unit No:

Total Depth:

4334.00 ft (KB) To 4381.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

2209.00 ft (KB)

Reference Elevations:

2201.00 ft (CF)

Hole Diameter:

4381.00 ft (KB) (TVD)

KB to GR/CF:

8.00 ft

Serial #: 8960

Outside

Press@RunDepth:

1347.51 psig @ 4336.00 ft (KB)

End Date:

2017.06.26

Capacity: Last Calib .:

8000.00 psig 2017.06.26

Start Date:

2017.06.25

End Time:

Time On Btm:

2017.06.25 @ 21:09:30

Start Time:

19:33:05

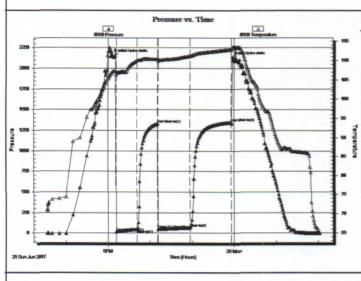
02:01:29

Time Off Btm: 2017.06.25 @ 23:58:00

TEST COMMENT: IFP 30 minutes Blow built to 3 1/2"

ISI 30 minutes No blow back FFP 45 minutes Blow built to 4 inches

FSI 60 minutes No blow back



| PI | RESSUR | E SUMMARY |
|----------|---------|------------|
| Pressure | | Annotation |
| (neig) | (dea F) | |

| | | (2000) | L COMMON ATT | |
|--------|----------|---------|--|--|
| Time | Pressure | Temp | Annotation | |
| (Min.) | (psig) | (deg F) | | |
| 0 | 2146.57 | 107.23 | Initial Hydro-static | |
| 2 | 14.67 | 106.35 | Open To Flow (1) | |
| 32 | 44.14 | 110.10 | Shut-In(1) | |
| 62 | 1331.21 | 110.41 | End Shut-In(1) | |
| 62 | 47.74 | 109.94 | Open To Flow (2) | |
| 107 | 63.97 | 111.16 | Shut-In(2) | |
| 167 | 1347.51 | 112.89 | End Shut-In(2) | |
| 169 | 2118.10 | 113.49 | Final Hydro-static | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | the state of the s | |

Recovery

| Description | Volume (bbl) |
|---------------------------------------|---------------------|
| OCM Oil 15% Mud 85% | 0.72 |
| Clean Oil 100% | 0.42 |
| | |
| | |
| | |
| | |
| ֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜ | OCM Oil 15% Mud 85% |

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64793

Printed: 2017.06.27 @ 16:00:03



TOOL DIAGRAM

Mai Oil Operations

16-20S-22W Ness,KS

Test Start: 2017.06.25 @ 19:33:00

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1

DST#: 2

Job Ticket: 64793

ATTN: Wyatt Urban

Tool Information

Drill Pipe:

Length: 4275.00 ft Diameter: 3.80 inches Volume: 59.97 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 60.00 ft Diameter: 2.25 inches Volume: 0.30 bbl

Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

Total Volume: 60.27 bbl

Weight to Pull Loose: 52000.00 lb

Tool Chased

String Weight: Initial 46000.00 lb

Final 46000.00 lb

Depth to Bottom Packer: 4334.00 ft

Depth to Bottom Packer: ft

Number of Packers: 2

2 Diameter: 6.75 inches

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|------------------|-------------|------------|----------|------------|----------------|----------------------|
| Shut-In Tool | 5.00 | | | 4319.00 | | |
| Hydraulic tool | 5.00 | | | 4324.00 | | |
| Top Packer | 5.00 | | | 4329.00 | | |
| Packer | 5.00 | | | 4334.00 | 20.00 | Bottom Of Top Packer |
| Recorder | 1.00 | 8354 | Inside | 4335.00 | | |
| Recorder | 1.00 | 8960 | Outside | 4336.00 | | |
| Anchor | 9.00 | | | 4345.00 | | |
| Change Over Sub | 1.00 | | | 4346.00 | | |
| Drill Pipe | 31.23 | | | 4377.23 | | |
| Change Over Sub | 1.00 | | | 4378.23 | | |
| Bullnose | 3.00 | | | 4381.23 | 47.23 | Anchor Tool |

Total Tool Length:

67.23

Trilobite Testing, Inc

Ref. No: 64793

Printed: 2017.06.27 @ 16:00:04



FLUID SUMMARY

Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1

Job Ticket: 64793

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.25 @ 19:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

Viscosity:

10.00 lb/gal

Water Loss:

Resistivity: Salinity:

Filter Cake:

48.00 sec/qt 10.38 in³

ohm.m 7000.00 ppm 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API: Water Salinity: 37 deg API

ppm

bbl

ft

psig

Recovery Information

Recovery Table

| | Length ft | Description | Volume bbl |
|---|--------------|---------------------|---------------|
| | 90.00 | OCM Oil 15% Mud 85% | 0.716 |
| Г | 30.00 | Clean Oil 100% | 0.421 |

Total Length:

120.00 ft

Total Volume:

1.137 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0 Laboratory Location:

Serial #:

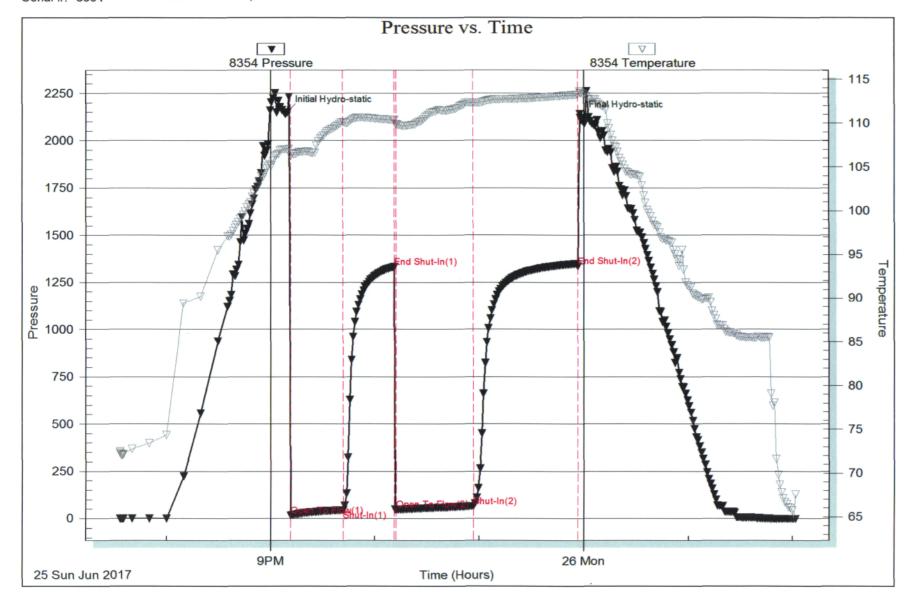
Laboratory Name:

Recovery Comments:

Trilobite Testing, Inc

Ref. No: 64793

Printed: 2017.06.27 @ 16:00:04



DST Test Number: 2



Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1 Job Ticket: 64794

ATTN: Wyatt Urban

D\$T#: 3

Test Start: 2017.06.26 @ 08:21:00

GENERAL INFORMATION:

Time Tool Opened: 10:11:30

Time Test Ended: 15:24:00

Formation:

Mississippi

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

2209.00 ft (KB)

Reference Elevations:

2201.00 ft (CF)

KB to GR/CF:

8.00 ft

Interval:

4334.00 ft (KB) To 4389.00 ft (KB) (TVD)

Total Depth:

4389.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8960

Outside

Press@RunDepth:

1381.35 psig @ 4336.00 ft (KB) 2017.06.26

End Date:

2017.06.26

Capacity: Last Calib .:

8000.00 psig 2017.06.26

Start Date: Start Time:

08:21:05

End Time:

15:23:59

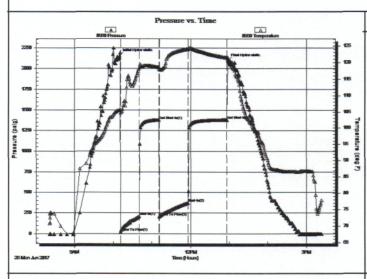
Time On Btm: 2017.06.26 @ 12:58:00

TEST COMMENT: IFP 30 minutes Blow built to BOB in 9 minutes

ISI 30 minutes No blow back

FFP 45 minutes Blow built to BOB in 12 minutes

FSI 60 minutes No blow back



| PRESSURE SUMMARY | | | | | | | | | |
|------------------|------|------------|--|--|--|--|--|--|--|
| ure | Temp | Annotation | | | | | | | |

| Pressure | Temp | Annotation | |
|----------|--|---|--|
| (psig) | (deg F) | | |
| 2155.48 | 105.44 | Initial Hydro-static | |
| 26.95 | 104.65 | Open To Flow (1) | |
| 211.81 | 118.52 | Shut-In(1) | |
| 1380.08 | 118.53 | End Shut-In(1) | |
| 207.69 | 117.98 | Open To Flow (2) | |
| 372.88 | 124.01 | Shut-In(2) | |
| 1381.35 | 121.45 | End Shut-In(2) | |
| 2093.89 | 121.14 | Final Hydro-static | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | (psig) 2155.48 26.95 211.81 1380.08 207.69 372.88 1381.35 | (psig) (deg F) 2155.48 105.44 26.95 104.65 211.81 118.52 1380.08 118.53 207.69 117.98 372.88 124.01 1381.35 121.45 | (psig) (deg F) 2155.48 105.44 26.95 104.65 211.81 118.52 1380.08 118.53 207.69 117.98 372.88 124.01 1381.35 121.45 End Shut-In(2) End Shut-In(2) |

Recovery

| CMW Oil 5% Mud 10% Water 85% | 6.41 |
|-------------------------------|-------------------------------|
| CWM Oil 10% Water 40% Mud 50% | 3.72 |
| lean Oil 100% | 0.42 |
| | |
| | |
| | |
| | CWM Oil 10% Water 40% Mud 50% |

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 64794

Printed: 2017.06.27 @ 15:55:45



TOOL DIAGRAM

Mai Oil Operations

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1

16-20S-22W Ness,KS

Job Ticket: 64794

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.26 @ 08:21:00

Tool Information

Drill Pipe:

21.00 ft

Length: 4275.00 ft Diameter: 3.80 inches Volume: 59.97 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 60.00 ft Diameter: 2.25 inches Volume: 0.30 bbl
Total Volume: 60.27 bbl

Tool Weight:

2000.00 lb Weight set on Packer: 20000.00 lb

Weight to Pull Loose: 62000.00 lb Tool Chased 0.00 ft

String Weight: Initial 46000.00 lb Final 52000.00 lb

Drill Pipe Above KB:

Depth to Top Packer: 4334.00 ft
Depth to Bottom Packer: ft Interval between Packers: 55.23 ft

Tool Length: Number of Packers:

75.23 ft

2 Diameter: 6.75 inches

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|------------------|-------------|------------|----------|------------|----------------|----------------------|
| Shut-In Tool | 5.00 | | | 4319.00 | | |
| Hydraulic tool | 5.00 | | | 4324.00 | | |
| Top Packer | 5.00 | | | 4329.00 | | |
| Packer | 5.00 | | | 4334.00 | 20.00 | Bottom Of Top Packer |
| Recorder | 1.00 | 8354 | Inside | 4335.00 | | |
| Recorder | 1.00 | 8960 | Outside | 4336.00 | | |
| Anchor | 17.00 | | | 4353.00 | | |
| Change Over Sub | 1.00 | | | 4354.00 | | |
| Drill Pipe | 31.23 | | | 4385.23 | | |
| Change Over Sub | 1.00 | | | 4386.23 | | |
| Bullnose | 3.00 | | | 4389.23 | 55.23 | Anchor Tool |

Total Tool Length:

75.23

Trilobite Testing, Inc

Ref. No: 64794

Printed: 2017.06.27 @ 15:55:46



FLUID SUMMARY

Mai Oil Operations

16-20S-22W Ness,KS

8411 Preston Road Suite 800 Dallas, TX 75225+5520

L & N Miller #1 Job Ticket: 64794

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.26 @ 08:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

10.00 lb/gal

48.00 sec/qt 10.38 in³

Water Loss: Resistivity: Salinity:

Viscosity:

ohm.m 7000.00 ppm

Cushion Type:

Cushion Length:

Oil API: Water Salinity: deg API

Cushion Volume:

ft bbl 14000 ppm

Gas Cushion Type:

Gas Cushion Pressure:

psig

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length Description Volume bbl 496.00 OCMW Oil 5% Mud 10% Water 85% 6.411 265.00 OCWM Oil 10% Water 40% Mud 50% 3.717 30.00 Clean Oil 100% 0.421

Total Length:

791.00 ft

Total Volume:

10.549 bbl

Num Fluid Samples: 0

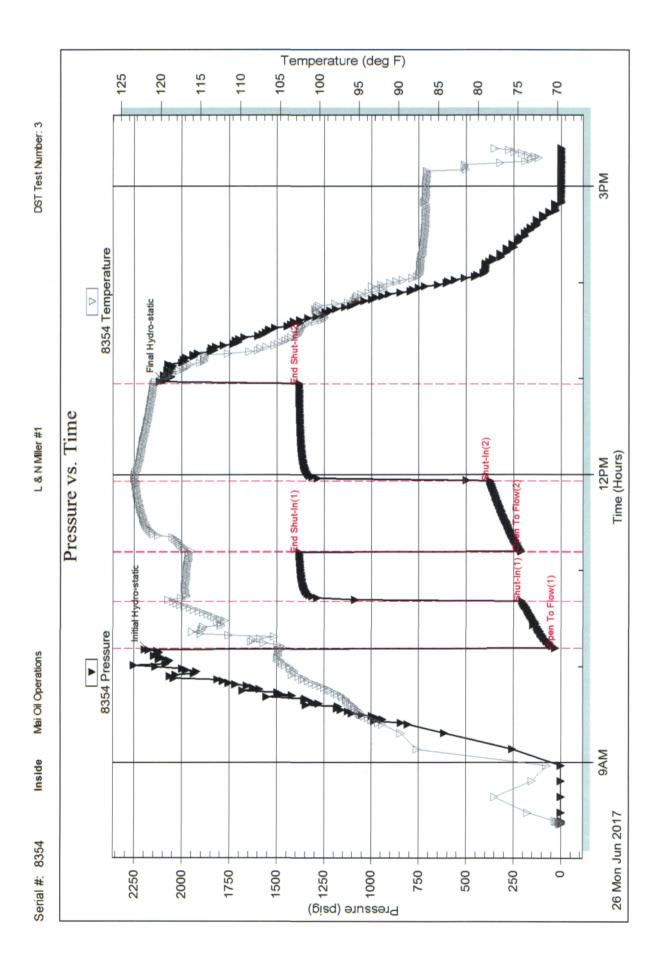
Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .35 ohms @ 88 deg.



Printed: 2017.06.27 @ 15:55:46

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 192

| Cell 785-324-1041 | | | | | , | | | | |
|--|--|--|---------------|-------------------------------|------------|--|------------------|---------|-------------|
| Sec. | Twp. Range | h . | County | State | | On Loca | tion | | inish |
| Date 6-20-17 16 | 20 92 | Nes | 55 | <u>5</u> | | | | | on Am |
| | | Location | n Bazio | e 95. | 4 W | to 21 | 2d, | 145 | Els |
| Lease L+N miller | Well No. | : | Owner | | | | | | |
| Contractor Southwind: | # 3 | | To Quality Oi | lwell Cementi by requested | ng, inc. | monting ag | inment (| and fur | nich |
| Type Job Tustare | | | cementer and | d helper to as | sist owne | r or contract | or to do | work a | s listed. |
| 1011 11 | T.D. 251' | | Charge To | Mai c | 00 | Deroti | 500 | | |
| 5/ 5/ N | Depth 25)1 | | Street | | | 7 | | | |
| Tbg. Size | Depth | | Clty | | | State | | | s : % |
| Tool | Depth | | The above was | s done to satisf | action and | | | | contractor. |
| Cement Left in Csg. 5 | Shoe Joint 5 | | Cement Amo | ount Ordered | 160 | 60/40 | 4% | CL | 27.60 |
| Meas Line | Displace 15 B | 5 | | | | | | | : . |
| FOLIPME | | | Common C | 16 | | | , | ٠ | |
| Pumptrk No. Cementer Helper | the Travis | | Poz. Mix | 34 | | | | | |
| Bulktrk 9 No. Driver Jor | dan | | Gel. 3 | | | | | | |
| Bulktrk | | | Calcium | 7 | | | | | |
| JOB SERVICES & | REMARKS | | Hulls | | | | | | |
| Remarks: Comonh did | Carcalote. | | Salt | | | : | | | |
| Rat Hole | | | Flowseal | | - | | | | |
| Mouse Hole | | · | Kol-Seal | | | | | | |
| Centralizers | | | Mud CLR 48 | | | | | | |
| Baskets * * * * * * * * * * * * * * * * * * * | | | CFL-117 or C | CD110 CAF 3 | 3 | | | | |
| D/V or Port Collar | ×10kg | | Sand | ati) | \$3*× | | | | '1 |
| A STATE OF THE CASE OF THE CAS | | å | Handling | 70 | Same of F | Security States | | | All |
| | | the Alt | Mlléage | 465 | 2160 | Samuel Control of the | Name (Name) | | |
| | | | | E LOST E | OUTSWIE | NT | Shinese Military | | , |
| | THINGS OF THE STATE OF THE STAT | | Guide Shoe | | S MARY TON | Self In | | , | |
| | | The state of the s | Centralizer | | - 196 | | | | |
| | | ** | Baskets | | | | | | |
| | Range of the Second | 2987 | AFWInserts | 4 | L aar | ar anima | | • | |
| 2018 (20) | marki i V | | FloatShoe | | | San sum | 0 10 | | |
| VOV. 2004 318 488 488 | MIN W. C. | | Latch Down | Lin | TRU W | anie milia. | ans no | | |
| .cvichilida. | 188 | 100 | Later DOWN | | - | | | | |
| 4,16,74 | A MANAGEMENT | 48,000 | T. Carleson | | | Wasia . | | | |
| · · · · · · · · · · · · · · · · · · · | | ille and | Pumptrk @ha | | ice. | a di | | | |
| | | | Mileage 73 | , , | * | MININE. | | | |
| the state of the | | | | | | | Tax | | |
| 1 | | | | | | Di | scount | | |
| Signature Say Mice | | | | | | Total C | Charge | | |
| Xo y | | | | | | | | | |

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

| Phone 785-483-2025 Cell 785-324-1041 | Home Office | P.O. B | ox 32 Rus | sell, KS 676 | 65 | No. | 197 | |
|--|---|---|---|-----------------------------------|---|--|-------------|---------------|
| Sec. | Twp. Range | (| County | V State | On | Location | Finis | h Om A |
| Date 6 07 -111 16 | 20 22 | Ne | SS | ' KS | | | 1,42 | Als |
| | | Location | on Bazin | 2 Ks ~ 9 | 75 to | 40 Rd | 4 W | toZR |
| Lease L+N Miles | Well No. | | Owner Vn | - : (5.1.) | | | | |
| Contractor Southwind | #3 | | To Quality Oi | well Camenting by requested to | rent cementin | ng equipment | and furnis | h |
| Type Job Langstring | | | Chara | d helper to assis | | | work as ii | sted. |
| Hole Size | T.D. 4450! | , | To M | १०% है। | operati | W7_ | | |
| Csg. 52" New 14# | Depth 44461 | | Street | | | | | - |
| Tbg. Size | Depth | | City | | State | | | |
| Tool Port Collar | Depth 1377' | | The above wa | s done to satisfac | tion and superv | islon of owner | agent or co | ntractor. |
| Cement Left in Csg. 20,93 | Shoe Joint 20.9 | 3" | Cement Amo | ount Ordered \ | 20 60/4F | 109,50 | 17 2% | Cel |
| Meas Line | Displace 108 | RLS | Mut Tho. | seal 1 | 500 ad | mud a | leac 4 | 8 |
| EQUIPA | | . ''.' | Common | 100 96 | , | | | . :. |
| Pumptrk No. Cementer Helper | 2013 | - | Poz. Mix | 64 | | | | |
| No. Driver | LQ. | | Gel. 3 | | | | | |
| Bulktrk D. U. No. Driver Driver | 1 | | Calcium | | | | | 7 |
| JOB SERVICES | & REMARKS | • | Hulls | | | | | |
| Remarks: | | | Salt 18 | | | | | |
| Rat Hole | | | Flowseal | 40# | | | | |
| Mouse Hole | er. | | Kol-Seal | 701 | | | | |
| Centralizers 1-5 \$74 | · · · · · · · · · · · · · · · · · · · | | Mud CLR 48 | 1000 | 0.0 | | 100 | |
| Baskets Half un | on \$74 | | | D110 CAF 38 | gar | 1 24 | | |
| | | H#75 | | D) 10 CAF 30 | | | | |
| DN or Port Collar DG (+ Ch) | | <u> </u> | 1 1 | 2012 | (ISSEL) | | | |
| Sibe or potter ou | $\frac{\omega_0}{\omega_0} = \frac{\omega_0}{\omega_0} = \frac{\omega_0}{\omega_0}$ | on s | Handling | 10 Marie | | WAY . | | |
| Dumo | DAD Train Training | 1 24 (5) (4) | Mileage | The section of the section of | 200 100 100 100 100 100 100 100 100 100 | | | |
| Dug Kathor while | SX THUS A THE | 194 | SACON | FLOAT EQ | MEDIE VI | 46 B | - | |
| asing + mix 1300 | & Cemante Shin | - | Chido-Chico | Port | Soller | | | |
| wash pump + lines | Displaced pl | vicy | Centralizer | 1 Kea | 5 tub | ــــــــــــــــــــــــــــــــــــــ | | |
| w 'Bis' of work | 4, Kelegsed > | held | Baskets | است الم | Clamp | 18 84 | - | · · |
| Lift Dressure | Sgo H | 16F | AFU Inserts | | A 47 46 | | | |
| Land Dia to | 1800 4 | | Float Shoe | N 1 1 1 | | ennius in the | | |
| . satisfied and Commenced | M. 10 10 10 10 10 10 10 10 10 10 10 10 10 | | Latch Down | 1 36 183 | \$F 4820 _ 742 | ONING IN DE | ٠. | : . |
| A 4156293 | | | | #1 TH | | | | |
| | 17.00 | a gracemont | | | | | | |
| - William in the second | | · Ceans | Puriptrk Cha | - | Change ! | | | |
| | | | Mileage 2.3 | | , , , | Tax | | ٠. |
| | | 14 4 | | | | Discount | | |
| x X | | 5 18 M | | | | otal Charge | | · · · · |
| Signature Tany | <u> </u> | | | | ' | cai Chaige | | |



David Kuchn

| SERVICE LOCATIONS WELL/PROJECT NO. LEA | | | | | RESS C. STATE, ZIP CODE LEASE COUNTY/PARISH STATE RIG NAME/NO. SHIPPED DIVIA | | | | | Cly | | | TICKET 30701 PAGE OF 1 OWNER 7-12-17 Same | | | |
|--|----------------|---------------------------|-----------|-------------|--|---------------|----------------|--|-------------|------------|---------|---------------|--|---------------|----------|--|
| 4. | | WELL TYPE | 1 | gen. | _ | EGORY JOB PU | and 5%" Port (| Collect | WELL PERMIT | NO. | | | LL LOCATION | 78 % F | inka | |
| REFERRAL LOCATION | | INVOICE INSTRU | CTIONS | | | Test s | 072 3061 | C 160 | | | | | 500 5017 150 | , 1 2, 122, 2 | | |
| PRICE REFERENCE | | RY REFERENCE/ T NUMBER | LOC | ACCOUNTING | DF | | DESCRIPTION | | QTY. | U/M | QTY. | U/M | UNIT | AMOUNT | | |
| 575 | | | 2000 | | | MILEAGE | Tob # 112 | | | | 20 | M. | 500 | 100 | 00 | |
| 576 D | | | - | | | Pump Charge | - Port Colla | UT. | 51/2 | in | | sob | 1250 00 | 1250 | 00 | |
| 330 | | | 1 | | | SMD Come | nt | | | | 175 | 945 | 15 175 | 2756 | 125 | |
| 276 | | | - | | | Florele | | - | 1/4 | 16 | 50 | lbs | 2 25 | 112 | 50 | |
| 290 | | | 1 | | | D-Air | | | | | 2 | oal | 4200 | 84 | 00 | |
| 105 | | | - | 1 | | Port Collar T | Tool Rental | | 5/2 | in | | job | 275 100 | 275 | 00 | |
| | | | - | | | | | | | | | | | | _ | |
| | | | + | | | | | | | | | | <u> </u> | | | |
| | | | | | | | | | | | | | | | - | |
| 581 | | | 1 | | | 6 . 1 | () | | | | 175 | c.l. | 1 50 | 2/2 | 50 | |
| 582 | | | 1 | | | Minim De | ye Cement | | | | 11 | 565 | 25/2/00 | 250 | ∞ | |
| LEGAL TERMS: | Customer her | reby acknowled | ges and | d agrees to | T | 1 1/11 mum L | MENT TO | SUR | | AGR | REE UN- | DIS- AGREE | DACE TOTAL | 200 | | |
| the terms and conditions on the reverse side hereof which include, | | | REMIT PAY | MENT TO: | OUR EQUIPMENT WITHOUT BREAK | DOWN? | | | - 1 | PAGE TOTAL | 5090 | 25 | | | | |
| but are not limited | | | INDEM | NITY, and | | | | MET YOUR NEEDS | S? | | | | | | | |
| MUST BE SIGNED BY CU | ISTOMER OR CUS | STOMER'S AGENT PI | RIOR TO | | + | SWIFT SERV | | OUR SERVICE WA | HOUT DELAY? | 1 | | | | | - | |
| START OF WORK OR DE | LIVERY OF GOOD | os) | | | 1 | P.O. BC | | WE OPERATED THE AND PERFORMED CALCULATIONS |) JOB | | | | TAX | | | |
| X DATE SIGNED | 1 | TIME SIGNED | | D AM: | - | NESS CITY, | | ARE YOU SATISFI | ED WITH OUR | SERVICE | | | | | | |
| 7-12- | 17 | 120 | D | P.M. | | 785-798 | 3-2300 | | YES | | □ NO | | TOTAL | | | |

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR

APPROVAL

Thank You!

SWIFT Services. Inc. JOB LOG CUSTOMER WELL NO. LEASE JOB TYPE TICKET NO. PRESSURE (PSI)
TUBING CASING CHART NO. RATE (BPM) VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS 1100 27/8×51 RBP- 2000" 1205 1000 * Hold* 1300 1305 1310 95 300 400 1340 1000 35 1400 31/2 V 300 * 15 pit * 1445

DATE

PAGE NO.