

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1369911
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1369911

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Geologist Report / Mud Logs | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| 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)*

| | | | | | |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | | |
| 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> | | | PRODUCTION INTERVAL: Top _____ Bottom _____ | |
| | | | | | |

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|----------------|-------|---------|------------|
| TUBING RECORD: | Size: | Set At: | Packer At: |
|----------------|-------|---------|------------|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | L. D. Drilling, Inc. |
| Well Name | DAWN NELL 1-18 |
| Doc ID | 1369911 |

Tops

| Name | Top | Datum |
|------------------|------|-------|
| ANHYDRITE | 694 | +1191 |
| TOPEKA | 2886 | -1001 |
| HEEBNER | 3178 | -1293 |
| BROWN LIME | 3113 | -1428 |
| LANSING | 3328 | -1443 |
| BASE KANSAS CITY | 3546 | -1661 |
| VIOLA | 3580 | -1695 |
| SIMPSON | 3621 | -1736 |
| ARBUCKLE | 3681 | -1796 |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | L. D. Drilling, Inc. |
| Well Name | DAWN NELL 1-18 |
| Doc ID | 1369911 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|----------------------------|
| Surface | 12.25 | 8.625 | 25 | 336 | A-CONN | 175 | 3%CC,.25 #FS |
| Surface | 12.25 | 8.625 | 25 | 336 | COMMON | 175 | 2%CC,.25 #FS |
| Production | 7.875 | 5.5 | 15.5 | 3757 | AA-2 | 150 | 10%Salt,.25 #CF |
| Production | 7.875 | 5.5 | 15.5 | 3757 | 60/40 POZMIX | 30 | @ RATHOLE |



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TMH 39

FIELD SERVICE TICKET
1718 15408 A

DATE _____ TICKET NO. _____

| DATE OF JOB: 8-25-17 | | DISTRICT: Pratt KS | | NEW WELL <input type="checkbox"/> OLD WELL <input checked="" type="checkbox"/> | | PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> | | CUSTOMER ORDER NO.: | | |
|-----------------------------|-----|--------------------|-----|--|-----|---|------|---------------------|----|------|
| CUSTOMER: L.D. Drilling Inc | | | | LEASE: Dawn Well 1-18 | | WELL NO.: | | | | |
| ADDRESS: | | | | COUNTY: Stafford | | STATE: KS | | | | |
| CITY: | | | | STATE: | | SERVICE CREW: 1718 | | | | |
| AUTHORIZED BY: | | | | JOB TYPE: 5 1/2 Longstring 242 | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| 84980-20920 | 2 | | | | | | 8-25 | | | 0700 |
| 19960-19862 | 2 | | | | | ARRIVED AT JOB | 8-25 | | | 1100 |
| | | | | | | START OPERATION | 8-25 | | | 0230 |
| | | | | | | FINISH OPERATION | 8-25 | | | 0330 |
| | | | | | | RELEASED | 8-25 | | | 0430 |
| | | | | | | MILES FROM STATION TO WELL | | | | 45 |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Mark Davis By D Scott

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|-------|-----------|------------|-----------|
| CP105 | AA-2 Cement | | 150 sk | | 2550 - |
| CP103 | 60/40 poz | | 30 sk | | 360 - |
| CC111 | Salt | | 816 lbs | | 408 - |
| CC102 | Cellflake | | 38 lbs | | 140 60 |
| CC103 | Gypsum | | 705 lbs | | 528 75 |
| CC129 | FLA-322 | | 113 lbs | | 847 50 |
| CC201 | Gilsonite | | 701 lbs | | 603 67 |
| CF1251 | Auto Fill Shop | 5 1/2 | 1 c9 | | 360 - |
| CF607 | LDP Plug + Baffle | 5 1/2 | 1 c9 | | 400 - |
| CF1651 | Turbolizer | 5 1/2 | 8 c9 | | 880 - |
| CC151 | Mud Flush | | 1000 gal | | 1500 - |
| F100 | Pickup mileage 1 way | 1 c9 | 45 mi | | 202 50 |
| F101 | Trk mileage 1 way | 2 c9 | 90 mi | | 675 - |
| F113 | Bulk Detv Charge | | 376 tn/mi | | 939 38 |
| CF204 | Pump Charge 3001-4000' | | 4 hr | | 2160 - |
| CF240 | Blending & Mixing Charge | | 180 sk | | 252 - |
| 5003 | Serv Supv Charge | 1 c9 | 8 hr | | 175 - |

SUB TOTAL 12,982 40

Book Total

| | | |
|---------------------|------------|--|
| SERVICE & EQUIPMENT | %TAX ON \$ | |
| MATERIALS | %TAX ON \$ | |

TOTAL 11,342 40

Discounted Price 7,139 64

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

| | |
|----------------------------------|---|
| SERVICE REPRESENTATIVE: DL Scott | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Mark Davis By Scott |
|----------------------------------|---|

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

| | | | |
|-------------------------------------|----------------------------|--|----------------------|
| Customer <i>L.D. Polg Inc</i> | Lease No. | Date <i>8-25-17</i> | |
| Lease <i>Dawn Well</i> | Well # <i>1-18</i> | | |
| Field Order # <i>15408</i> | Station <i>Pratt KS</i> | Casing <i>5 1/2</i> | Depth <i>3771</i> |
| Type Job <i>5 1/2 Longstring</i> | Formation | County <i>Stafford</i> | State <i>KS</i> |
| | | Legal Description <i>18-225-12w</i> | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|--------------------------|--------------|------------------|----|--------------------------------|------------|------------------|------------------|--|
| Casing Size | Tubing Size | Shots/Ft | | Acid- ^{cm+} | RATE | PRESS | ISIP | |
| <i>5 1/2</i> | | | | <i>150 sk. AA-2</i> | | | | |
| Depth <i>3771</i> | Depth | From | To | Pre Pad <i>41.1 Bbl's</i> | Max | <i>1500</i> | 5 Min. | |
| Volume <i>89.1</i> | Volume | From | To | Pad <i>14.8 ppj 15.4 ft</i> | Min | | 10 Min. | |
| Max Press <i>1500</i> | Max Press | From | To | Frac | Avg | | 15 Min. | |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure | |
| Plug Depth | Packer Depth | From | To | Flush <i>24 Bbl's</i> | Gas Volume | | Total Load | |

| | | |
|---|---------------------------------------|---------------------------|
| Customer Representative <i>Rick Wilson</i> | Station Manager <i>J Westerman</i> | Treater <i>D Scott</i> |
|---|---------------------------------------|---------------------------|

| | | | | | | | | | |
|------------------------------|------------------|---------------------|--------------|--------------|--|--|--|--|--|
| Service Units <i>Vap</i> | <i>84980</i> | <i>20420</i> | <i>19960</i> | <i>19862</i> | | | | | |
| Driver Names <i>Scott</i> | <i>E Marquez</i> | <i>Manuel Pando</i> | | | | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------------|-----------------|-----------------|--------------|----------|---|
| <i>0700</i> | | | | | <i>Called Out</i> |
| <i>0800</i> | | | | | <i>On Loc w/FE</i> |
| <i>1100</i> | | | | | <i>Trks on loc Safety mtg</i> |
| | | | | | <i>Float Show + L.D. Baffle on SJ</i> |
| | | | | | <i>Cent 1-3-5-7-9-11-13 Basket #5</i> |
| | | | | | <i>Csg on Bottom Drop Ball Circ thr</i> |
| <i>0230</i> | <i>400</i> | | <i>24</i> | <i>5</i> | <i>St mud flush</i> |
| <i>0235</i> | <i>400</i> | | <i>5</i> | <i>5</i> | <i>St H2O spacer</i> |
| <i>0245</i> | <i>400</i> | | <i>41.1</i> | <i>5</i> | <i>Mix 150 t/lr @ 14.8 ppj. Save 1/2 Tub cont</i> |
| <i>0255</i> | <i>0</i> | | <i>10</i> | <i>5</i> | <i>Close In + Wash Pump + line</i> |
| | | | | | <i>Release Plug</i> |
| <i>0300</i> | <i>100</i> | | | <i>5</i> | <i>St Disp w/H2O</i> |
| <i>0313</i> | <i>600</i> | | <i>62</i> | <i>4</i> | <i>62 Bbl's Disp out lift cmt</i> |
| <i>0316</i> | <i>800</i> | | | <i>3</i> | <i>75 Bbl's Out slow rate</i> |
| <i>0325</i> | <i>1500</i> | | <i>89.1</i> | <i>0</i> | <i>Plug down + psi. csg</i> |
| <i>0330</i> | <i>0</i> | | | | <i>Release psi. Float Hold</i> |
| | | | | | <i>Good Circ thru Job</i> |
| <i>0345</i> | | | <i>7</i> | <i>2</i> | <i>Plug RH w/30sk. por</i> |
| | | | | | <i>Job Complete</i> |
| | | | | | <i>Thank you</i> |
| | | | | | <i>Scott V</i> |



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FMH = 18

FIELD SERVICE TICKET
1718 15318 A

DATE _____ TICKET NO. _____

| | | | | | | | | |
|--|------------|--|-----|------------|-----|-------------------------------|----|--------------|
| DATE OF JOB 8-18-17 DISTRICT Pratt | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: | | | | | | |
| CUSTOMER LD Drilling Inc | | LEASE Dawn Well WELL NO. 1-13 | | | | | | |
| ADDRESS | | COUNTY Starr STATE Ks | | | | | | |
| CITY STATE | | SERVICE CREW MATTI GIVAS, MAURICE | | | | | | |
| AUTHORIZED BY | | JOB TYPE: 2-42 8 5/8 surface | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED 8-17 DATE | AM | TIME |
| 27463 | 0.5 | | | | | | PM | 8:00 |
| | | | | | | ARRIVED AT JOB | AM | 10:00 |
| 19862 | 0.5 | | | | | START OPERATION 8-18 | AM | 12:00 |
| | | | | | | FINISH OPERATION | AM | 12:25 |
| | | | | | | RELEASED | AM | 1:00 |
| | | | | | | MILES FROM STATION TO WELL | | 4.5 |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|------------------|
| CP101 | A-con | SK | 175 | | 3150.00 |
| CP100C | COMMON CRT | SK | 175 | | 2800.00 |
| CC109 | Calcium chloride | lb | 495 | | 519.75 |
| CC102 | cellulose | lb | 48 | | 177.60 |
| E100 | Ru. Mill | Mi | 45 | | 202.50 |
| E101 | Heavy eq. miles | Mi | 90 | | 675.00 |
| E113 | PIPE + bulk del | LM | 743 | | 1,856.75 |
| CC200 | DEPTH charge 0-500' | 4hr | 1 | | 1,000.00 |
| CC240 | Blend + mix | SK | 350 | | 490.00 |
| 5003 | Supervisor | ea | 1 | | 175.00 |
| SUB TOTAL | | | | | 11,046.10 |

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

| | |
|---------------------|------------|
| SERVICE & EQUIPMENT | %TAX ON \$ |
| MATERIALS | %TAX ON \$ |

TOTAL **6674.78**
JWW

| | |
|---|---|
| SERVICE REPRESENTATIVE Mike Murray | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT) |
|---|---|

FIELD SERVICE ORDER NO.

| | | |
|-----------------------------|---------------|------------------------------|
| Customer LP Drilling inc | Lease No. | Date 8-18-17 |
| Lease Dawn Well | Well # 1-18 | |
| Field Order # 15318 | Station Pratt | Casing 8 5/8 |
| | | Depth 39 |
| Type Job Z-42 8 5/8 SURFACE | Formation | County STAFFORD |
| | | State KS |
| | | Legal Description 18-225-12W |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-------------------|-------------------|------------------|----|----------------|------------|------------------|---------------|------------------|
| Casing Size 8 5/8 | Tubing Size 5 5/8 | Shots/Ft | | Acid 175 SK A | CON 3% | BATE | PRESS. 250 PP | ISIP 2011 FIN. |
| Depth 336 | Depth 336 | From | To | Pre Pad 175 SK | Max | Common | 2000 | 5 Min. 25 PP SK |
| Volume 1.4 | Volume | From | To | Pad | Min | | | 10 Min. |
| Max Press 300 | Max Press | From | To | Frac | Avg | | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | | Annulus Pressure |
| Plug Depth 316 | Packer Depth | From | To | Flush 20 | Gas Volume | | | Total Load |

| | | |
|------------------------------------|---------------------------|---------------|
| Customer Representative KIM WILSON | Station Manager WESTERMAN | Treater MATTI |
| Service Units 83353 | 2740 | 19960 19802 |
| Driver Names MATTI | SAVVS | MAIGHEZ |

| Time | Casing Pressure | Tubing Pressure | Bbbs. Pumped | Rate | Service Log |
|-------|-----------------|-----------------|--------------|------|-----------------------------------|
| 10:05 | | | | | ON LOCATION / SAKRY MARTIN |
| 10:55 | | | | | Run 8 5/8 casing |
| 11:40 | | | | | Casing on bottom |
| 11:49 | | | | | Hook to casing / break out w. rig |
| 12:00 | | | 3 | 5 | Pump 3 bbl water |
| 12:01 | 200 | | 77 | 6 | Mix 175 SK, A-con |
| 12:09 | 250 | | 39 | 6 | Mix 175 SK, common con |
| 12:16 | 250 | | | 5 | START DISPENSING |
| 12:20 | | | 20 | | Plug down |
| | | | | | CUT TO SURFACE |
| | | | | | JOB COMPLETE |
| | | | | | THANK YOU! |
| | | | | | Mike Matti |
| | | | | | Scott & Edna |



Company: L. D. Drilling, Inc
Lease: DAWN NELL #1-18

SEC: 18 TWN: 22S RNG: 17W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: DRACH
 Pool: Wildcat
 Job Number: 48

DATE
 August
21
 2017

DST #1 **Formation: LANS B-F** **Test Interval: 3343 - 3410'** **Total Depth: 3410'**
 Time On: 19:41 08/21 Time Off: 01:52 08/22
 Time On Bottom: 22:07 08/21 Time Off Bottom: 00:07 08/22

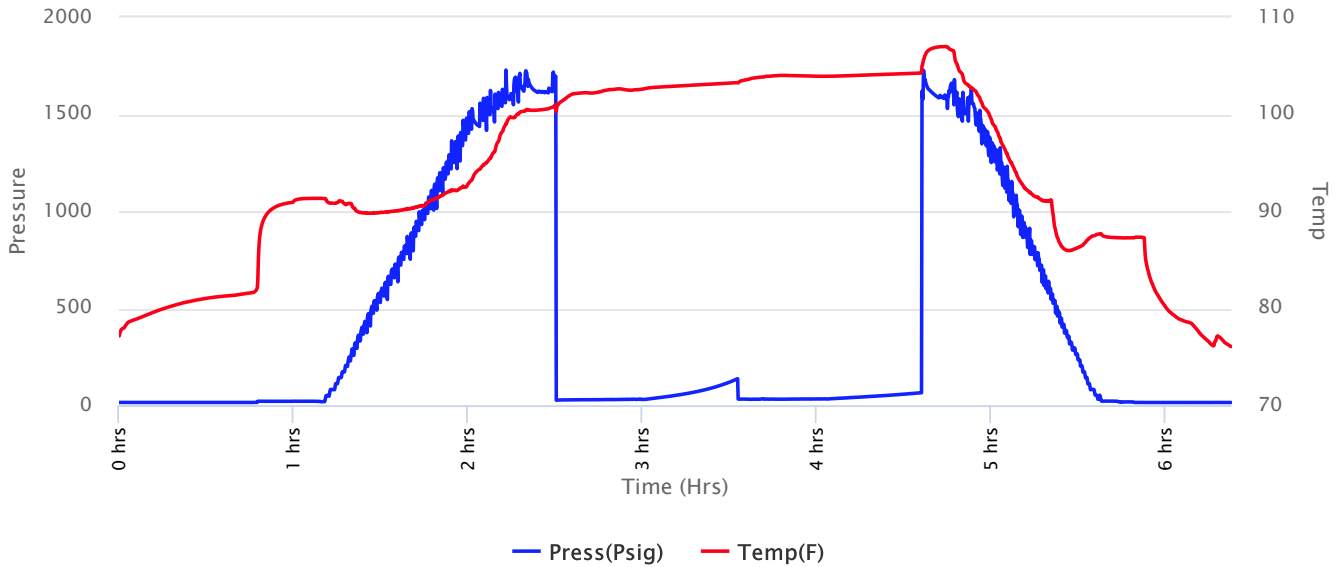
Electronic Volume
 Estimate:
 7'

1st Open
 Minutes: 30
 .8" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 0" at 30 min

2nd Close
 Minutes: 30
 0" at 30 min





Company: L. D. Drilling, Inc
Lease: DAWN NELL #1-18

SEC: 18 TWN: 22S RNG: 17W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: DRACH
 Pool: Wildcat
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DATE
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21
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DST #1 **Formation: LANS B-F** **Test Interval: 3343 - 3410'** **Total Depth: 3410'**
 Time On: 19:41 08/21 Time Off: 01:52 08/22
 Time On Bottom: 22:07 08/21 Time Off Bottom: 00:07 08/22

Recovered

| Foot | BBLs |
|------|--------|
| 20 | 0.2052 |

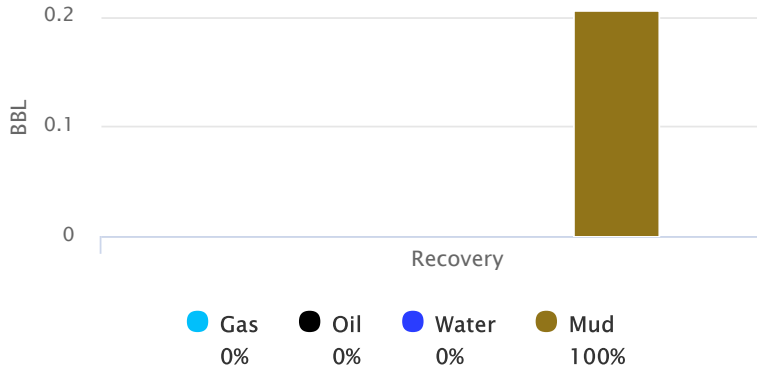
| Description of Fluid | Gas % | Oil % | Water % | Mud % |
|----------------------|-------|-------|---------|-------|
| M | 0 | 0 | 0 | 100% |

Total Recovered: 20 ft
 Total Barrels Recovered: 0.2052

Reversed Out
 NO

| | | |
|---|------------|------------|
| Initial Hydrostatic Pressure | 1614 | PSI |
| Initial Flow | 26 to 31 | PSI |
| Initial Closed in Pressure | 137 | PSI |
| Final Flow Pressure | 32 to 32 | PSI |
| Final Closed in Pressure | 65 | PSI |
| Final Hydrostatic Pressure | 1611 | PSI |
| Temperature | 105 | °F |
| Pressure Change Initial Close / Final Close | 53.2 | % |

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: DAWN NELL #1-18

SEC: 18 TWN: 22S RNG: 17W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: DRACH
 Pool: Wildcat
 Job Number: 48

| |
|---|
| <p>DATE August 21 2017</p> |
|---|

DST #1 **Formation: LANS B-F** **Test Interval: 3343 - 3410'** **Total Depth: 3410'**

Time On: 19:41 08/21 Time Off: 01:52 08/22
 Time On Bottom: 22:07 08/21 Time Off Bottom: 00:07 08/22

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 2.8 FT | Packer 1: 3337.5 FT |
| Drill Pipe: 3312.73 FT <i>ID-3 1/4</i> | Packer 2: 3343 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 3326.92 FT |
| Collars: 0 FT <i>ID-2 1/4</i> | Bottom Recorder: 1 FT |
| Test Tool: 34.07 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7.875 |
| Total Anchor: 67 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 3 FT <i>4 1/2-FH</i> | |
| Change Over: 1 FT | |
| Drill Pipe: (in anchor): 31 FT <i>ID-3 1/4</i> | |
| Change Over: 1 FT | |
| Perforations: (below): 30 FT <i>4 1/2-FH</i> | |



Company: L. D. Drilling, Inc

Lease: DAWN NELL #1-18

SEC: 18 TWN: 22S RNG: 17W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: DRACH
 Pool: Wildcat
 Job Number: 48

| |
|--|
| DATE August 21 2017 |
|--|

DST #1 Formation: LANS B-F Test Interval: 3343 - 3410' Total Depth: 3410'

Time On: 19:41 08/21

Time Off: 01:52 08/22

Time On Bottom: 22:07 08/21

Time Off Bottom: 00:07 08/22

Mud Properties

Mud Type: Chem

Weight: 9

Viscosity: 62

Filtrate: 8

Chlorides: 5000 ppm



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
22
 2017

DST #2 **Formation: L/KC H/K** **Test Interval: 3450 - 3530'** **Total Depth: 3530'**

Time On: 12:27 08/22 Time Off: 19:11 08/22
 Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

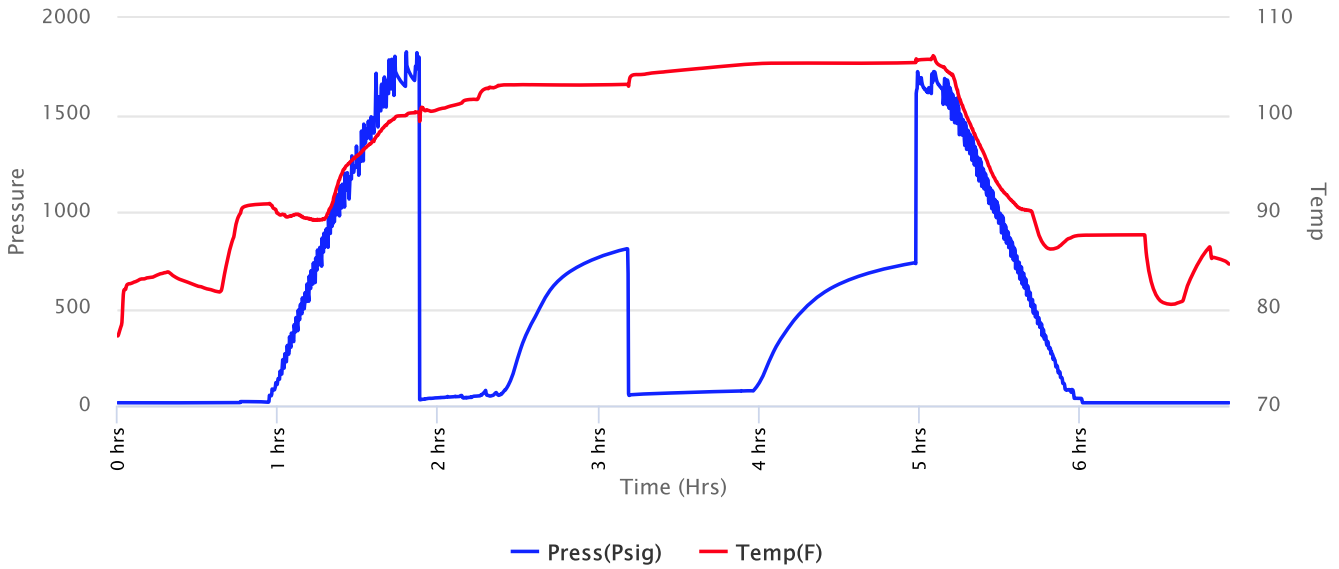
Electronic Volume Estimate:
 101'

1st Open
 Minutes: 30
 5.6" at 30 min

1st Close
 Minutes: 45
 0" at 45 min

2nd Open
 Minutes: 45
 5.6" at 45 min

2nd Close
 Minutes: 60
 0" at 60 min





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
22
 2017

DST #2 Formation: L/KC H/K Test Interval: 3450 - 3530' Total Depth: 3530'

Time On: 12:27 08/22 Time Off: 19:11 08/22
 Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

Recovered

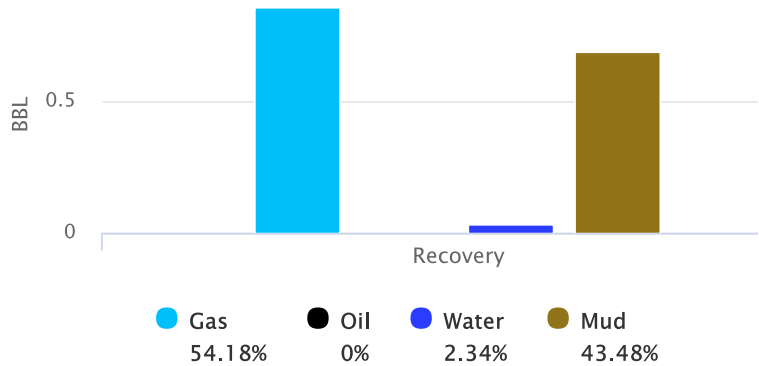
| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|---------|----------------------|-------|-------|---------|-------|
| 82 | 0.84132 | G | 100 | 0 | 0 | 0 |
| 72 | 0.73872 | SLGCSLWCM | 2 | 0 | 5 | 93 |

Total Recovered: 154 ft
 Total Barrels Recovered: 1.58004

Reversed Out
 NO

| | | |
|---|------------|------------|
| Initial Hydrostatic Pressure | 1649 | PSI |
| Initial Flow | 31 to 59 | PSI |
| Initial Closed in Pressure | 808 | PSI |
| Final Flow Pressure | 53 to 77 | PSI |
| Final Closed in Pressure | 733 | PSI |
| Final Hydrostatic Pressure | 1645 | PSI |
| Temperature | 106 | °F |
| Pressure Change Initial Close / Final Close | 9.3 | % |

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| <p>DATE August 22 2017</p> |
|--|

DST #2 **Formation: L/KC H/K** **Test Interval: 3450 -**
3530' **Total Depth: 3530'**

Time On: 12:27 08/22 Time Off: 19:11 08/22
Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

REMARKS:

Tool Sample: 1% O 5% W 94% M



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|--|
| DATE August 22 2017 |
|--|

DST #2 Formation: L/KC H/K Test Interval: 3450 - 3530' Total Depth: 3530'

Time On: 12:27 08/22 Time Off: 19:11 08/22
 Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 19.42 FT | Packer 1: 3444.62 FT |
| Drill Pipe: 3436.47 FT <i>ID-3 1/4</i> | Packer 2: 3449.62 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 3434.04 FT |
| Collars: 0 FT <i>ID-2 1/4</i> | Bottom Recorder: 3518 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 80.38 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 2 FT <i>4 1/2-FH</i> | |
| Change Over: 1 FT | |
| Drill Pipe: (in anchor): 62.88 FT <i>ID-3 1/4</i> | |
| Change Over: .5 FT | |
| Perforations: (below): 13 FT <i>4 1/2-FH</i> | |



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| DATE August 22 2017 |
|--|

DST #2 **Formation: L/KC H/K** **Test Interval: 3450 - 3530'** **Total Depth: 3530'**

Time On: 12:27 08/22 Time Off: 19:11 08/22
Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 52 **Filtrate:** 10.2 **Chlorides:** 7000 ppm



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|-------------|
| DATE |
| August |
| 22 |
| 2017 |

DST #2 **Formation: L/KC H/K** **Test Interval: 3450 - 3530'** **Total Depth: 3530'**

Time On: 12:27 08/22 Time Off: 19:11 08/22
 Time On Bottom: 14:17 08/22 Time Off Bottom: 17:17 08/22

Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|



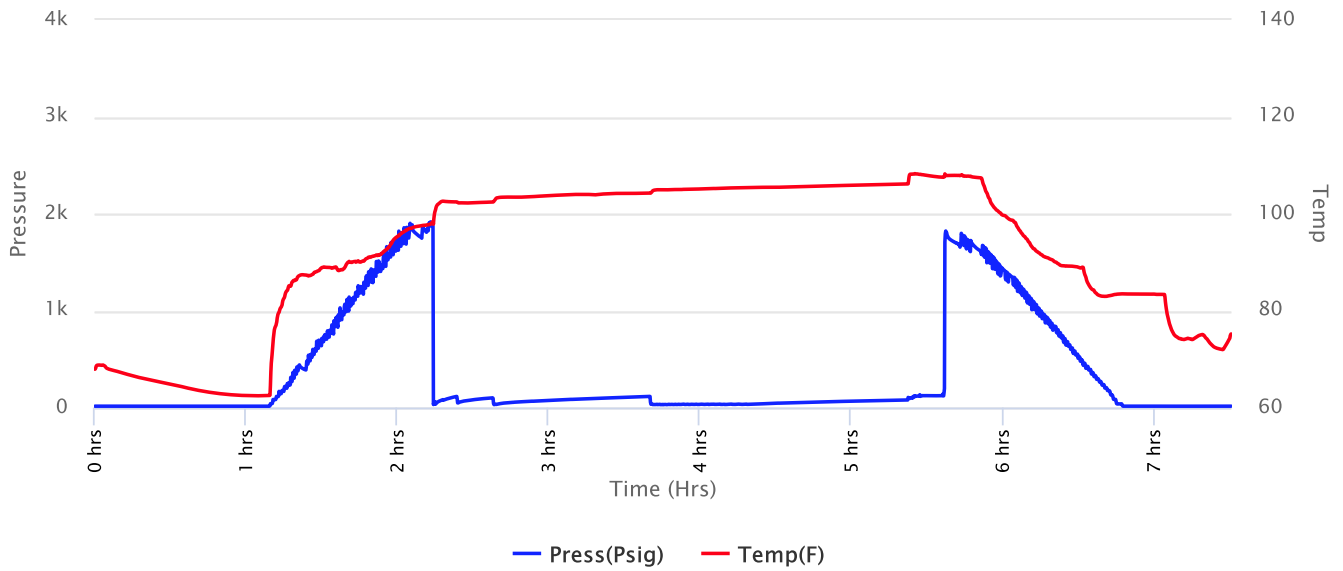
Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
23
 2017

DST #3 **Formation: VIOLA** **Test Interval: 3545 - 3620'** **Total Depth: 3620'**
 Time On: 03:21 08/23 Time Off: 10:39 08/23
 Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

| Electronic Volume Estimate: | <u>1st Open</u> Minutes: 30 | 1st Close Minutes: 45 | <u>2nd Open</u> Minutes: 45 | 2nd Close Minutes: 60 |
|-----------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|
| 44' | 1.5" at 30 min | 0" at 45 min | 3.2" at 45 min | 0" at 60 min |





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
23
 2017

DST #3 **Formation: VIOLA** **Test Interval: 3545 - 3620'** **Total Depth: 3620'**
 Time On: 03:21 08/23 Time Off: 10:39 08/23
 Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

Recovered

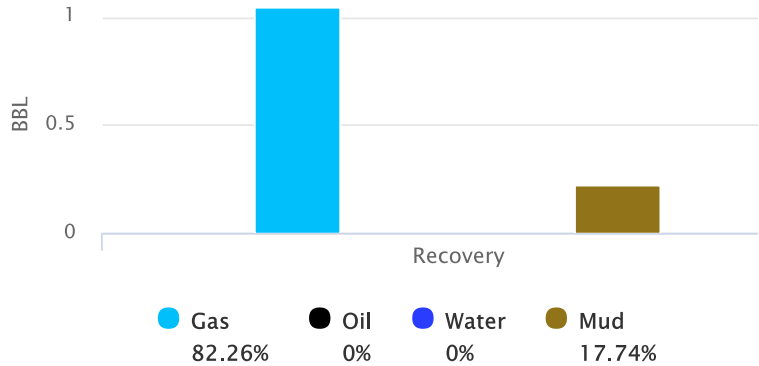
| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|---------|----------------------|-------|-------|---------|-------|
| 102 | 1.04652 | G | 100 | 0 | 0 | 0 |
| 22 | 0.22572 | M | 0 | 0 | | 100 |

Total Recovered: 124 ft
 Total Barrels Recovered: 1.27224

Reversed Out
 NO

| | | |
|---|------------|------------|
| Initial Hydrostatic Pressure | 1747 | PSI |
| Initial Flow | 32 to 31 | PSI |
| Initial Closed in Pressure | 116 | PSI |
| Final Flow Pressure | 35 to 33 | PSI |
| Final Closed in Pressure | 151 | PSI |
| Final Hydrostatic Pressure | 1747 | PSI |
| Temperature | 109 | °F |
| Pressure Change Initial Close / Final Close | 0.0 | % |

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| <p>DATE August 23 2017</p> |
|--|

DST #3 **Formation: VIOLA** **Test Interval: 3545 -** **Total Depth: 3620'**
3620'

Time On: 03:21 08/23

Time Off: 10:39 08/23

Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

REMARKS:

Tool Sample: 100% M

Start to lose fluid 25 mins into first opening. Add Weight to String and solved fluid lose. Took about 3-5 Foot of Fluid.



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|--|
| DATE August 23 2017 |
|--|

DST #3 **Formation: VIOLA** **Test Interval: 3545 - 3620'** **Total Depth: 3620'**

Time On: 03:21 08/23 Time Off: 10:39 08/23
 Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 18.16 FT | Packer 1: 3539.87 FT |
| Drill Pipe: 3530.46 FT <i>ID-3 1/4</i> | Packer 2: 3544.87 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 3529.29 FT |
| Collars: 0 FT <i>ID-2 1/4</i> | Bottom Recorder: 3582 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 75.13 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 2 FT <i>4 1/2-FH</i> | |
| Change Over: 1 FT | |
| Drill Pipe: (in anchor): 31.13 FT <i>ID-3 1/4</i> | |
| Change Over: 1 FT | |
| Perforations: (below): 39 FT <i>4 1/2-FH</i> | |



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| DATE August 23 2017 |
|--|

DST #3 **Formation: VIOLA** **Test Interval: 3545 - 3620'** **Total Depth: 3620'**
Time On: 03:21 08/23 Time Off: 10:39 08/23
Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 52 **Filtrate:** 10.2 **Chlorides:** 7000 ppm



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|--|
| DATE August 23 2017 |
|--|

DST #3 **Formation: VIOLA** **Test Interval: 3545 - 3620'** **Total Depth: 3620'**

Time On: 03:21 08/23 Time Off: 10:39 08/23
 Time On Bottom: 05:31 08/23 Time Off Bottom: 08:31 08/23

Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|



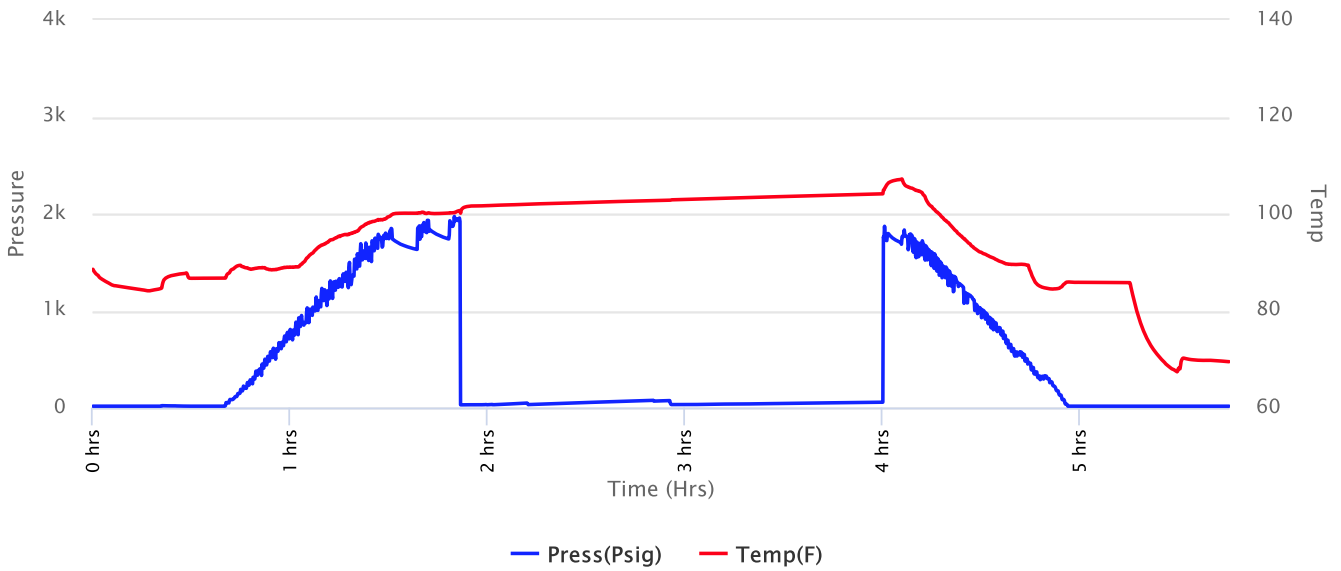
Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
24
 2017

DST #4 **Formation: Simpson Sand** **Test Interval: 3617 - 3660'** **Total Depth: 3660'**
 Time On: 19:11 08/23 Time Off: 00:46 08/24
 Time On Bottom: 20:59 08/23 Time Off Bottom: 20:59 08/24

| | | | | |
|-----------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------|
| Electronic Volume Estimate: | <u>1st Open</u> Minutes: 30 | 1st Close Minutes: 30 | <u>2nd Open</u> Minutes: 30 | 2nd Close Minutes: 30 |
| 5' | .5" at 30 min | 0" at 30 min | 0" at 30 min | 0" at 30 min |





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
24
 2017

DST #4 **Formation: Simpson Sand** **Test Interval: 3617 - 3660'** **Total Depth: 3660'**
 Time On: 19:11 08/23 Time Off: 00:46 08/24
 Time On Bottom: 20:59 08/23 Time Off Bottom: 20:59 08/24

Recovered

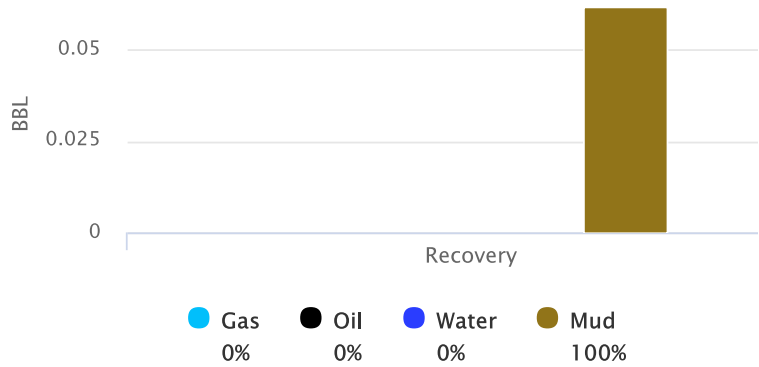
| <u>Foot</u> | <u>BBLs</u> | <u>Description of Fluid</u> | <u>Gas %</u> | <u>Oil %</u> | <u>Water %</u> | <u>Mud %</u> |
|-------------|-------------|-----------------------------|--------------|--------------|----------------|--------------|
| 6 | 0.06156 | M | 0 | 0 | 0 | 100 |

Total Recovered: 6 ft
 Total Barrels Recovered: 0.06156

Reversed Out
 NO

| | | |
|---|-----------|------------|
| Initial Hydrostatic Pressure | 1632 | PSI |
| Initial Flow | 28 to 52 | PSI |
| Initial Closed in Pressure | 72 | PSI |
| Final Flow Pressure | 31 to 42 | PSI |
| Final Closed in Pressure | 56 | PSI |
| Final Hydrostatic Pressure | 1726 | PSI |
| Temperature | 105 | °F |
| Pressure Change Initial Close / Final Close | 22.8 | % |

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|--|
| DATE August 24 2017 |
|--|

DST #4 **Formation: Simpson Sand** **Test Interval: 3617 - 3660'** **Total Depth: 3660'**

Time On: 19:11 08/23 Time Off: 00:46 08/24
 Time On Bottom: 20:59 08/23 Time Off Bottom: 20:59 08/24

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 8.44 FT | Packer 1: 3612 FT |
| Drill Pipe: 3592.87 FT <i>ID-3 1/4</i> | Packer 2: 3617 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 3601.42 FT |
| Collars: 0 FT <i>ID-2 1/4</i> | Bottom Recorder: 3621 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 43 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 2 FT <i>4 1/2-FH</i> | |
| Change Over: 0 FT | |
| Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i> | |
| Change Over: 0 FT | |
| Perforations: (below): 40 FT <i>4 1/2-FH</i> | |



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| DATE August 24 2017 |
|--|

DST #4 **Formation: Simpson Sand** **Test Interval: 3617 - 3660'** **Total Depth: 3660'**

Time On: 19:11 08/23 Time Off: 00:46 08/24
Time On Bottom: 20:59 08/23 Time Off Bottom: 20:59 08/24

Mud Properties

Mud Type: Chem **Weight:** 9.4 **Viscosity:** 55 **Filtrate:** 9.6 **Chlorides:** 8000 ppm



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|-------------|
| DATE |
| August |
| 24 |
| 2017 |

DST #4 **Formation: Simpson Sand** **Test Interval: 3617 - 3660'** **Total Depth: 3660'**

Time On: 19:11 08/23 Time Off: 00:46 08/24
 Time On Bottom: 20:59 08/23 Time Off Bottom: 20:59 08/24

Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|



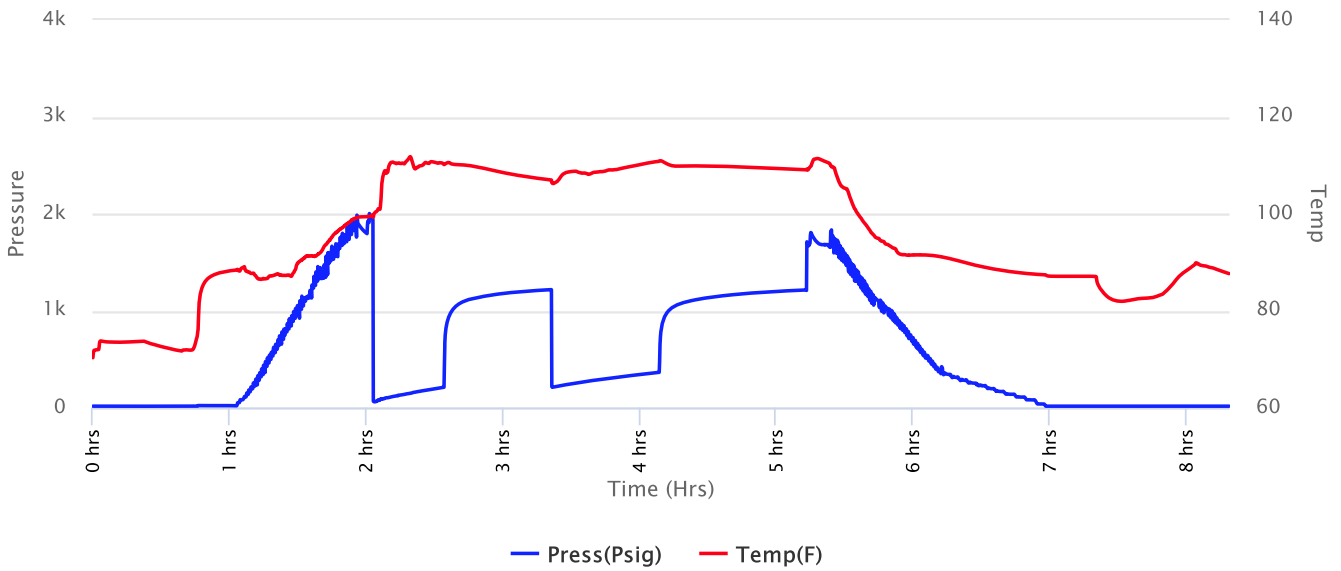
Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
24
 2017

DST #5 **Formation: ARBUCKLE** **Test Interval: 3614 - 3684'** **Total Depth: 3684'**
 Time On: 09:21 08/24 Time Off: 17:25 08/24
 Time On Bottom: 11:20 08/24 Time Off Bottom: 14:20 08/24

| | | | | |
|-------------------------------------|---|--|---|--|
| Electronic Volume Estimate: 770' | <u>1st Open</u> Minutes: 30 42.7" at 30 min | <u>1st Close</u> Minutes: 45 .5" at 45 min | <u>2nd Open</u> Minutes: 45 43.1" at 45 min | <u>2nd Close</u> Minutes: 60 .1" at 60 min |
|-------------------------------------|---|--|---|--|





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

DATE
 August
24
 2017

DST #5 **Formation: ARBUCKLE** **Test Interval: 3614 - 3684'** **Total Depth: 3684'**
 Time On: 09:21 08/24 Time Off: 17:25 08/24
 Time On Bottom: 11:20 08/24 Time Off Bottom: 14:20 08/24

Recovered

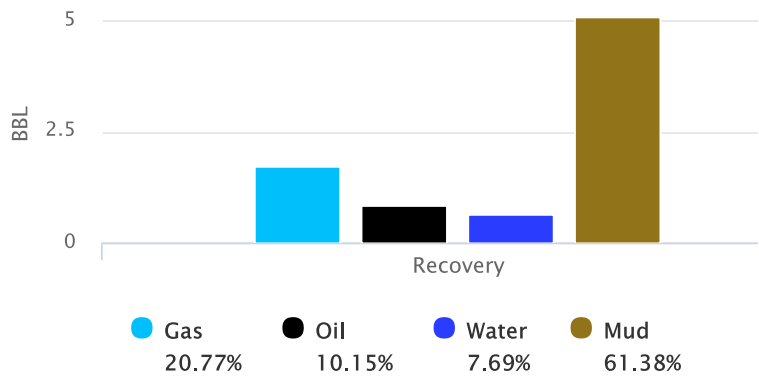
| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|---------|----------------------|-------|-------|---------|-------|
| 62 | 0.63612 | G | 100 | 0 | 0 | 0 |
| 124 | 1.27224 | SLWCSLOCHGCM | 40 | 5 | 5 | 50 |
| 558 | 5.72508 | SLWCSLGCSLOCM | 10 | 13 | 5 | 72 |
| 62 | 0.63612 | SLOCHWCM | 0 | 5 | 45 | 50 |

Total Recovered: 806 ft
 Total Barrels Recovered: 8.26956

Reversed Out
 NO

| | | |
|---|-------------|------------|
| Initial Hydrostatic Pressure | 1795 | PSI |
| Initial Flow | 60 to 210 | PSI |
| Initial Closed in Pressure | 1217 | PSI |
| Final Flow Pressure | 210 to 364 | PSI |
| Final Closed in Pressure | 1209 | PSI |
| Final Hydrostatic Pressure | 1793 | PSI |
| Temperature | 111 | °F |
| Pressure Change Initial Close / Final Close | 0.7 | % |

Recovery at a glance





Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| DATE August 24 2017 |
|--|

| | | | |
|---------------|--------------------------------------|--|---------------------------|
| DST #5 | Formation: ARBUCKLE | Test Interval: 3614 - 3684' | Total Depth: 3684' |
| | Time On: 09:21 08/24 | Time Off: 17:25 08/24 | |
| | Time On Bottom: 11:20 08/24 | Time Off Bottom: 14:20 08/24 | |

REMARKS:

Tool Sample: 3% O 51% W 46% M

Ph: 8

RW: .27 @ 83 degrees F

Chlorides: 10,000 ppm



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1879 EGL
 Field Name: Drach
 Pool: WILDCAT
 Job Number: 48

| |
|--|
| DATE August 24 2017 |
|--|

DST #5 **Formation:** **Test Interval: 3614 -** **Total Depth: 3684'**
ARBUCKLE **3684'**
 Time On: 09:21 08/24 Time Off: 17:25 08/24
 Time On Bottom: 11:20 08/24 Time Off Bottom: 14:20 08/24

Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 11.33 FT | Packer 1: 3608.96 FT |
| Drill Pipe: 3592.72 FT <i>ID-3 1/4</i> | Packer 2: 3613.96 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 3598.38 FT |
| Collars: 0 FT <i>ID-2 1/4</i> | Bottom Recorder: 3651 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i> | Well Bore Size: 7 7/8 |
| Total Anchor: 70.04 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 2 FT <i>4 1/2-FH</i> | |
| Change Over: .5 FT | |
| Drill Pipe: (in anchor): 31.54 FT <i>ID-3 1/4</i> | |
| Change Over: 1 FT | |
| Perforations: (below): 34 FT <i>4 1/2-FH</i> | |



Company: L. D. Drilling, Inc
Lease: Dawn Nell #1-18

SEC: 18 TWN: 22S RNG: 12W
County: STAFFORD
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1879 EGL
Field Name: Drach
Pool: WILDCAT
Job Number: 48

| |
|--|
| DATE August 24 2017 |
|--|

| | | | |
|---------------|--------------------------------------|--|---------------------------|
| DST #5 | Formation: ARBUCKLE | Test Interval: 3614 - 3684' | Total Depth: 3684' |
| | Time On: 09:21 08/24 | Time Off: 17:25 08/24 | |
| | Time On Bottom: 11:20 08/24 | Time Off Bottom: 14:20 08/24 | |

Mud Properties

| | | | | |
|-----------------------|--------------------|----------------------|---------------------|------------------------------|
| Mud Type: Chem | Weight: 9.4 | Viscosity: 49 | Filtrate: 15 | Chlorides: 10,000 ppm |
|-----------------------|--------------------|----------------------|---------------------|------------------------------|

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9705 • WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **L.D. DRILLING, INC.**
 LEASE **#1-18 DAWN NELL**
 FIELD **DRACH**
 LOCATION **330' ENL & 2970' FEL**
 SEC. **18** TWP. **22s** R. **12w**
 COUNTY **STAFFORD** STATE **KANSAS**
 OPERATOR **L.D. DRILLING, INC.**
 SPUD **8-17-17** COOP **8-25-17**
 RID. **3785** TO **3784**
 BRO. UP **2787** TYPE LOG **CHEMICAL**

ELEVATIONS
 TO **1885**
 OF
 TO **1880**
 Measurements Are All
 From **1885 KB**
 CASING
 8 5/8" @ 336'
 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM **3000 TO 3785**
 DRILLING TIME KEPT FROM **2800 TO 3785**
 SAMPLES EXAMINED FROM **3000 TO 3785**
 GEOLOGICAL SUPERVISION FROM **3200 TO 3785**

GEOLOGIST ON WELL **KIM B. SHOEMAKER**

| FORMATION TOPS | LOG | SAMPLES |
|----------------|-----------|-----------|
| ANHYDRITE | 694+1191 | 689+1196 |
| TOPEKA | 2886-1001 | 2887-1002 |
| HEEBNER | 3178-1293 | 3180-1295 |
| BROWN LIME | 3313-1428 | 3314-1429 |
| LANSING | 3328-1443 | 3330-1445 |
| B/KC | 3546-1661 | 3547-1662 |
| VIOLA | 3580-1695 | 3582-1697 |
| SIMPSON | 3621-1736 | 3621-1736 |
| ARBUCKLE | 3681-1796 | 3682-1797 |



API: 15-185-23992

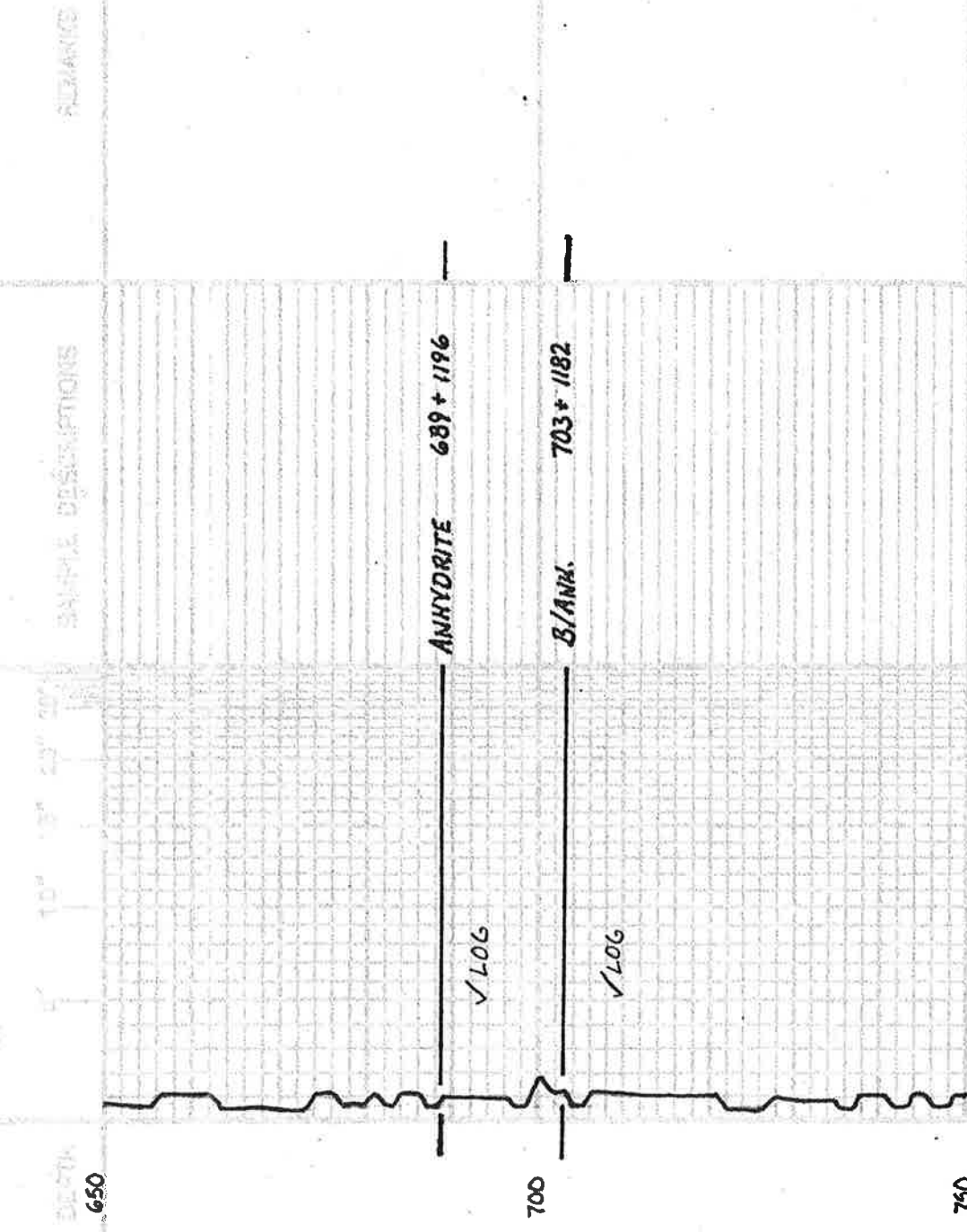
8-17-17 5900
 8-28-17 @ 379'
 8-19-17 @ 1670'
 8-20-17 @ 2670'
 8-21-17 @ 3319'
 8-22-17 @ 3470'
 8-23-17 @ 3620'
 8-24-17 @ 3684'
 8-25-17 @ 3785'

REMARKS

LEGEND

- Anhydrite
- Salt
- Sandstone
- Sand
- Limestone
- Oil
- Unconsolidated
- Cement
- Evaporite

DRILLING TIME IN MINUTES
 PER FOOT
 Scale of Penetration, Inverse



ENTHALPY

VIS: 66
WT: 8.7
WL: 7.2
CIL: 1000

2800

2900

3000

TOPEKA 2887 - 1002

Samples are lagged

A 119.

15. wt 119. VSI. Foss.

15. wt 119. Sl. Foss. w/ DEq. Foss.

15. wt. Foss. VSI. A

Sh. 119.

15. wt. Sl. Foss. A 119.

Sh. DEq. Blk

3100

LS. wt. Foss. vsi. chly.

LS. wt. Foss. chly.

LS. Lt. G. vsi. Foss. sil. d.

LS. Lt. Shool.ool. sil. Chly.

LS. wt. vsi. Foss. chly.

LS. wt. Lt. G. vsi. chly.

LS. wt. Lt. G. w/ no. Moll.

HEBNER 3180-1295

Sh. Blk Carb.

LS. Lt. G. sil. Foss.

Sh. Lt. Blue G.

LS. wt. sil. Foss. sil. d.

sh. Rd.

sh. Lt. G. silly. sdy.

sh. Lt. Blue G. Silly

sh. Lt. G. silly.

sh. Lt. G. silly

TORONTO

DOUGLAS

3200

3300

BROWN LIME 3314-1429

LS. Lt. Br. vsi. Foss.

VIS: 62 WT: 9.0

WIL: 8.0 CAL: 5000

sh. Lt. G. G. Silly

LANSING 3330-1445

LS. wt. Lt. vsi. Foss.

LS. wt. Lt. G. sil. Foss. sil. d. 1/4" of

Lt. Br. sil. sh. to 28. 70. 70. Dull Flour F. color.

sh. Lt. G.

DST (1) 3343-3410

1st OPEN: Blow built to 3/4"

2nd OPEN: No Blow

30 - 30 - 30 - 30

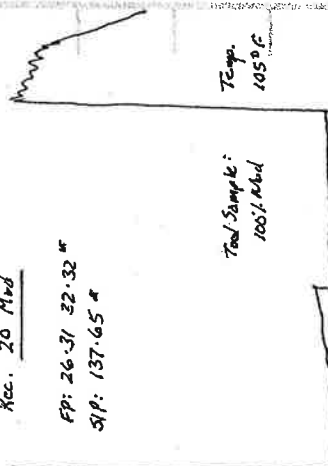
Rec. 20' Mud

FP: 26-31 22-32"

SP: 137-65"

Temp. 105°C

Total Sample: 100% Mud



sh. Lt. G. G.

LS. G. sil. Foss.

LS. Lt. Br. G. sil. Foss. sil. d. 1/4" of

Dull Flour F. color.

LS. Lt. Br. G. Foss.

sh. G.

LS. G. Br. sil. Foss.

sh. G.

LS. wt. sil. Foss. P. vsi. d.

Scal. Br. sil. d. sil. 55% No Flow M. color.

3400

LS. wt. Lt. G. Shool. sil. chly.

56. 4 Blue-17.

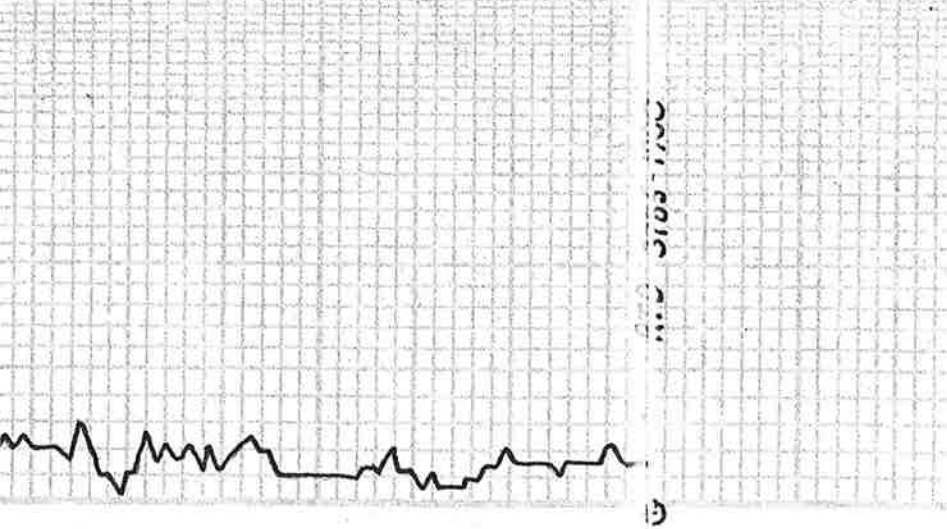
Dol. Bl. Mchx. Gd. xh. p.
Bl. DE Bl. Sal. SN. FSG FSED F. Flour Gd color

Dol. Bl. G. Fresh Dc. gd. xh. p.
Bl. DE Bl. Sal. SN. GUSTO. Breading. OI. SSG
F. Flour Gd color

Dol. Bl. G. Mchx. F. Gd. xh. p.
Bl. DE Bl. Sal. SN. Sph. SH. SSG SSGS Dull Flour
Gd color

Dol. wt. v. Fresh. SUG.

Dol. wt. 41g. Fresh w/ 40% DE Bl. SN.



3800

