KOLAR Document ID: 1454025

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 Sectio | | | | | |
| City: | 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.xxxxxx) | | | | | |
| 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? Yes No | | | | | |
| | If yes, show depth set: Feet | | | | | |
| If Workover/Re-entry: Old Well Info as follows: | | | | | | |
| 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) | | | | | |
| Commingled Permit #: | Chloride content: ppm Fluid volume: bbls | | | | | |
| Dual Completion Permit #: | Dewatering method used: | | | | | |
| SWD Permit #: | Location of fluid disposal if hauled offsite: | | | | | |
| EOR Permit #: | · | | | | | |
| GSW | Operator Name: | | | | | |
| | Lease Name: License #: | | | | | |
| Spud Date or Date Reached TD Completion Date or | QuarterSecTwpS. 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 Drill Stem Tests Received |
| Geologist Report / Mud Logs Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |

KOLAR Document ID: 1454025

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 | 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 | CO1 - Well Completion | | | | |
|-----------|-------------------------|--|--|--|--|
| Operator | Darrah Oil Company, LLC | | | | |
| Well Name | GAUNT 1-22 | | | | |
| Doc ID | 1454025 | | | | |

All Electric Logs Run

| Dual Induction |
|--------------------|
| Micro resistivity |
| Dual Comp Porosity |
| Sonic |

| Form | CO1 - Well Completion | | | | |
|-----------|-------------------------|--|--|--|--|
| Operator | Darrah Oil Company, LLC | | | | |
| Well Name | GAUNT 1-22 | | | | |
| Doc ID | 1454025 | | | | |

Tops

| Name | Тор | Datum | |
|--------------|------|-------|--|
| Stone Corral | 735 | 1148 | |
| Topeka | 2786 | -903 | |
| Heebner | 3134 | -1251 | |
| Lansing | 3266 | -1383 | |
| G zone | 3346 | -1463 | |
| H zone | 3395 | -1512 | |
| J zone | 3428 | -1545 | |
| ВКС | 3500 | -1617 | |
| Arbuckle | 3550 | -1667 | |

| Form | CO1 - Well Completion | | | | |
|-----------|-------------------------|--|--|--|--|
| Operator | Darrah Oil Company, LLC | | | | |
| Well Name | GAUNT 1-22 | | | | |
| Doc ID | 1454025 | | | | |

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 | 24 | 305 | Class G | 4% CaCl, 2% gel |
| | | | | | | |
| | | | | | | |
| | | | | | | |

COPELAND

Acid & Cement

POST OFFICE BOX 438 HAYSVILLE, KS 67060 (316) 524-1225 (316) 524-1027 FAX

Invoice

LEASE: GAUNT 1-22

Page: 1

INVOICE NUMBER: C46219-IN

BURRTON, KS 💧 GREAT BEND, KS (620) 463-5161

(620) 793-3366 FAX (620) 463-2104 FAX (620) 793-3536

BILL TO:

JOHN JAY DARRAH, JR. PO BOX 2786 WICHITA, KS 67202-2786

| DATE | ORDER | SALESMAN | ORDER DATE | PURCHASE O | RDER | SPECIAL IN | STRUCTIONS |
|-------------------------------------|--------|-----------------|--|-----------------------|-------|-------------------------------------|------------|
| 11/20/2018 | C46219 | | 11/15/2018 | GAUNT 1-22 | | NE | ET 30 |
| QUANTITY | U/M | ITEM NO./DI | ITEM NO./DESCRIPTION | | | PRICE | EXTENSION |
| 6.00 | МІ | MILEAGE CEME | MILEAGE CEMENT PUMP TRUCK | | | 4.00 | 19.20 |
| 6.00 | МІ | MILEAGE PICKU | JP | | 20.00 | 2.00 | 9.6 |
| 1.00 | EA | PUMP CHARGE | -SURFACE | 1-9-19 | 20.00 | 1,100.00 | 880.0 |
| 350.00 | SK | 60/40 POZ MIX 2 | 2% GEL | 1-9-19 ek 46677 | 20.00 | 10.75 | 3,010.0 |
| 25.00 | sĸ | CALCIUM CHLC | RIDE | cK | 20.00 | 30.00 | 600.0 |
| 375.00 | EA | BULK CHARGE | | | 20.00 | 1.25 | 375.0 |
| 1.00 | MI | BULK TRUCK - | TON MILES-MIN-CH | IG | 20.00 | 150.00 | 120.0 |
| | | | 8230 | BC 00/800 EMENT | | | |
| REMIT TO: | | | СОР | | | Net Invoice: | 5,013.8 |
| P.O. BOX 438 HAYSVILLE, KS 67060 | | | E IS NOT TAXABLE AND AND OR DELIVERY CH | | BATCO | 5,013.8 376.0 5,389. 8 | |
| RECEIVED BY | | | NET 30 DAYS | | | Invoice Total: | |



FIELD ORDER Nº C 46219

BOX 438 • HAYSVILLE, KANSAS 67060 316-524-1225

| | | 310-32 | 4-1223 | DATE ULISTI | 8 | 20 |
|--|--|---|---|--|---------------------------------|--|
| IS AUTHORI | ZED BY: | erick Oil | | | | |
| | 33 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | (NAME C | F CUSTOMER) | | Stata | |
| | | City | | | | |
| To Treat Well As Follows: | Lease <u>Car</u> | Well N | 0. 1-22 | Customer | Order No | |
| Sec. Twp. Range | | County | Brida | | State _ | ks |
| not to be held I implied, and no treatment is pa our invoicing de | iable for any dan representations yable. There will epartment in acco | onsideration hereof it is agreed that Copeland Aci age that may accrue in connection with said serv have been relied on, as to what may be the result be no discount allowed subsequent to such date. Indicate with latest published price schedules. himself to be duly authorized to sign this order fo | rice or treatment. s or effect of the s 6% interest will be | Copeland Acid Service has ervicing or treating said we e charged after 60 days. To | s made no rep ell. The consi | resentation, expressed or deration of said service or |
| | UST BE SIGNED | | | Ву | Ager | |
| | T | Well Owner or Operator | | | UNIT | |
| CODE | QUANTITY | DESC | RIPTION | | COST | AMOUNT |
| 2 | 6 | mikese pump truck | | | 4.00/ | 24.00 |
| 2 | 6 | nilecce pictup | | | 7.001 | 12.00 |
| | | | | | | |
| 2 | (| Pump Chase-Surface | and the second second | | | 1,100.00 |
| 2 | 3 === | 60/ 70/ | | | 10.70/ | 3,762,50 |
| 2 | 350 | Coloin Chloride | | AND THE STATE OF T | 30.001 | 750,00 |
| 6 | CS | Coloina Calaride | | | | |
| | | | 8 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2 | 375 | Pulk Chargo | | | 251 | 462.75 |
| 2 | 7.0 | Bulk Charge Bulk Truck Miles 16 .03 T x 6 | =9618TM | × 1. 197 | min. | (50.00 |
| | | Process License Fee on | | Gallons | | 6,767.75 |
| | | Trocas Election Too Cit | | TOTAL BILLING | 20% | -1253.45 |
| manner | under the dire | e material has been accepted and used; ection, supervision and control of the ow | ner, operator o | e service was perform or his agent, whose si | ned in a goo gnature ap | od and workmanlike pears below. 5013,80 |
| | | ve Maka lu. | | 7 | | |
| Station_ | C.3 | | - | Well Owner, Opera | itor or Agent | |
| Remarks | 5 | NET | 30 DAYS | | | |



TREATMENT REPORT

Acid Stage No.

| | | | | | Type Treatment: | Amt. | Type Fluid | Sand Size | Pound | ls of Sand |
|---|--|-------------------------------------|---|-------------------|--|--|---|--|--|---|
| | | District GB | F.O. 1 | No. C46219 | Bkdown | | | | CONTRACTOR | |
| | Darrah Oil | | | | • | | | | | ventifektionerinareaktionani popupose |
| | e & No. Gaunt 1 | | | | | Bbl./Gal. | | | | |
| | Barton | | | | | Bbl./Gal. | | | | |
| County | Darton | | State KS | | Flush | | | | neperioritatemente at proper | |
| | . 0 5 /0 | | | | Treated from | A STATE OF THE PERSON NAMED OF THE PERSON NAME | ft. to | NAME OF TAXABLE PARTY O | No. ft | 0 |
| Casing: | | | | Set atft. | - Announcemental and a second a | | ft. to | | No. ft. | 0 |
| Formation | | | | to | from | | ft. to | ft. | No. ft. | 0 |
| Formation | *************************************** | | CONTRACTOR | to | Actual Volume of Oil / | Water to Load Ho | le: | | | Bbl./Gal. |
| Formation | Address of the Control of the Contro | | | to | | | | | | |
| Liner: Size Type & Wt. Top at ft. Bottom at Cemented: Yes Perforated from ft. to | | | Bottom atft. | | | | | Twin | | |
| | | | | | Auxiliary Equipment | ACAPACIA CANCERSON AND ACADAM PROPERTY CO. | 36 | 7/310 | *************************************** | Porton |
| Tubing: Size & Wt. Swung at | | | ft. | Personnel Nathan- | Tim-Duane | | | | _ | |
| Perforated from ft. to | | | | ft. | Auxiliary Tools | | | | | |
| | | | Plugging or Sealing Ma | aterials: Type | | MATERIA DE LA COMPANSION DEL COMPANSION DE LA COMPANSION | | | | |
| Open Hole | Size | T.D. | ft. P | .B. toft. | | | | Gals. | | lb. |
| Company | Representative | | Will | | Treater | | Nathan \ | <i>N</i> . | | |
| TIME | PRES | SURES | Total Fluid Pumped | | | REMARKS | | | | |
| a.m./p.m. | Tubing | Casing | Total Tallipad | | | REWARKS | | | | |
| 7:30 | | 8 5/8" | | On Location. | | | | | | |
| | | | | | | | | | | |
| | | | | Hole-305' | | | | | | |
| | | | | Pipe-305' | | | | | | |
| | | | | | | | | MORPHANIA MARTINES EN ESTADA DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE | | MED-14954-019-construend-record-process |
| | | | | Break circulation | with mud pu | mp. | | | | |
| | | | | | | | | | ACT OF THE PARTY O | |
| | | | | Mix 340sks 60/4 | Opoz 2%gel 49 | % Calcium | Chloride. | | | |
| | | | | | | | | | *************************************** | |
| 9:30 | | | | Displace with 18 | .5bbls at 4bpr | n-400# Cir | culated cen | nent to su | rface. | |
| | | | | | | | | | | |
| | | | | | | | | | terurianasurrainnylassynassyn | |
| | | | | Thank You! | | | | | | |
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| | | | | Nathan W. | | | | | NATIONAL PROPERTY AND ADDRESS OF THE PARTY AND | |
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| | | www.comentoreachatacturaseconocopy. | | | | | | | | |
| *************************************** | | | | | | | | | DENOVERSON CONTRACTOR OF THE PROPERTY OF THE P | |
| | | | | | | *************************************** | | | No. in contrast contr | |
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| | | | | | | | | | | |



Darrah Oil Company LLC Prepared For:

> 125 North Market Suite 1425 Wichita, Kansas 67202

ATTN: Seth Everson

Gaunt #1-20

22-20-13sw

Start Date: 2018.11.19 @ 11:34:00 End Date: 2018.11.19 @ 05:30:00 Job Ticket #: 01051 DST #: 1

Eagle Testers

1309 Patton Road Great Bend, Kansas 67530 620-791-7394

Printed: 2018.11.19 @ 05:56:10



Darrah Oil Company LLC

125 North Market Suite 1425 Wichita, Kansas 67202

ATTN: Seth Everson

22-20-13sw

Gaunt #1-20

Job Ticket: 01051 **DST#:1**

Test Start: 2018.11.19 @ 11:34:00

GENERAL INFORMATION:

Formation: Kansas City "A-F"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 01:38:00 Tester: Gene Budig

Time Test Ended: 05:30:00 Unit No:

 Interval:
 3258.00 ft (KB) To
 3338.00 ft (KB) (TVD)
 Reference ⊟evations:
 1886.00 ft (KB)

Total Depth: 3338.00 ft (KB) (TVD) 1881.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 9119 Inside

Press@RunDepth: 113.92 psig @ 3333.06 ft (KB) Capacity: 5000.00 psig

 Start Date:
 2018.11.18
 End Date:
 2018.11.18
 Last Calib.:
 2018.11.19

 Start Time:
 11:37:00
 End Time:
 17:25:30
 Time On Btm:
 2018.11.18 @ 13:34:00

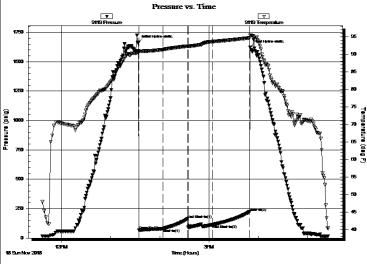
 Time Off Btm:
 2018.11.18 @ 15:50:00

TEST COMMENT: 1stOpening 30 Minutes weak building blow built to 2 inches into the water

1st Shut-In 30 Minutes No blow back

2nd Opening 30 Minutes weak building blow built to 3/4 inch decreased and died in 28 minutes

2nd Shut-In 45 Minutes no blow back



| | 1 1 2 2 3 3 1 2 3 3 1 1 1 1 1 1 1 1 1 1 | | | | | |
|---|---|----------|---------|----------------------|--|--|
| 1 | Time | Pressure | Temp | Annotation | | |
| | (Min.) | (psig) | (deg F) | | | |
| | 0 | 1666.71 | 91.04 | Initial Hydro-static | | |
| | 1 | 66.70 | 90.74 | Open To Flow (1) | | |
| | 30 | 80.42 | 91.31 | Shut-In(1) | | |
| | 60 | 162.81 | 92.31 | End Shut-In(1) | | |
| | 61 | 89.19 | 92.26 | Open To Flow (2) | | |
| | 90 | 113.92 | 93.59 | End Shut-In(2) | | |
| | 135 | 222.43 | 94.65 | Shut-In(2) | | |
| , | 136 | 1622.73 | 95.44 | Final Hydro-static | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

PRESSURE SUMMARY

Recovery

| Description | Volume (bbl) |
|--------------|--------------|
| drilling mud | 0.15 |
| | |
| | |
| | |
| | |
| | |
| | · |

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



Darrah Oil Company LLC

125 North Market Suite 1425 Wichita, Kansas 67202

ATTN: Seth Everson

22-20-13sw

Tester:

Gaunt #1-20

Job Ticket: 01051 **DST#:1**

Test Start: 2018.11.19 @ 11:34:00

GENERAL INFORMATION:

Formation: Kansas City "A-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:38:00 Time Test Ended: 05:30:00

Interval: 3258.00 ft (KB) To 3338.00 ft (KB) (TVD)

Total Depth: 3338.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Unit No: 1

Gene Budig

Reference Elevations: 1886.00 ft (KB)

1881.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 91716 Outside

Press@RunDepth: 216.31 psig @ 3333.06 ft (KB) Capacity: 5000.00 psig

 Start Date:
 2018.11.18
 End Date:
 2018.11.18
 Last Calib.:
 2018.11.19

 Start Time:
 11:45:30
 End Time:
 17:25:00
 Time On Btm:
 2018.11.18 @ 13:33:30

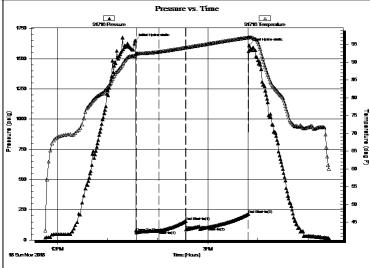
Time Off Btm: 2018.11.18 @ 15:49:30

TEST COMMENT: 1stOpening 30 Minutes weak building blow built to 2 inches into the water

1st Shut-In 30 Minutes No blow back

2nd Opening 30 Minutes weak building blow built to 3/4 inch decreased and died in 28 minutes

2nd Shut-In 45 Minutes no blow back



| Ī | Time | Pressure | Temp | Annotation |
|---|--------|----------|---------|----------------------|
| | (Min.) | (psig) | (deg F) | |
| | 0 | 1649.23 | 92.24 | Initial Hydro-static |
| | 1 | 64.04 | 92.42 | Open To Flow (1) |
| | 28 | 77.33 | 92.96 | Shut-In(1) |
| | 60 | 158.36 | 94.12 | End Shut-In(1) |
| | 61 | 87.11 | 94.16 | Open To Flow (2) |
| | 87 | 105.67 | 95.17 | Shut-In(2) |
| , | 135 | 216.31 | 96.98 | End Shut-In(2) |
| , | 136 | 1610.34 | 97.05 | Final Hydro-static |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Cac Datas

PRESSURE SUMMARY

Recovery

| Description | Volume (bbl) |
|--------------|--------------|
| drilling mud | 0.15 |
| | |
| | |
| | |
| | |
| | |
| | |

| Gas Hai | C3 | |
|----------------|-----------------|------------------|
| Choko (inchoc) | Proceuro (peig) | Gas Pato (Mof/d) |



TOOL DIAGRAM

Darrah Oil Company LLC

22-20-13sw

125 North Market Suite 1425 Wichita, Kansas 67202 Gaunt #1-20

Job Ticket: 01051

DST#:1

ATTN: Seth Everson

Test Start: 2018.11.19 @ 11:34:00

Tool Information

Drill Pipe: Length: 3130.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 120.00 ft Diameter:

3.80 inches Volume: 43.91 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.59 bbl

Total Volume:

6.75 inches

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 68000.00 lb

Drill Pipe Above KB: 12.00 ft
Depth to Top Packer: 3258.00 ft

44.50 bbl Tool Chased 0.00 ft String Weight: Initial 55000.00 lb

Depth to Bottom Packer: ft
Interval betw een Packers: 80.06 ft

Final 55000.00 lb

Tool Length: 80.06 ft 100.06 ft

Number of Packers: 2 Diameter:

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|------------------|-------------|------------|----------|------------|----------------|-------------------------|
| Shut In Tool | 5.00 | | | 3243.00 | | |
| Hydraulic tool | 5.00 | | | 3248.00 | | |
| Packer | 5.00 | | | 3253.00 | 20.00 | Bottom Of Top Packer |
| Packer | 5.00 | | Fluid | 3258.00 | | |
| Anchor | 5.00 | | | 3263.00 | | |
| Change Over Sub | 0.75 | | | 3263.75 | | |
| Drill Pipe | 63.56 | | | 3327.31 | | |
| Change Over Sub | 0.75 | | Inside | 3328.06 | | |
| Anchor | 5.00 | | | 3333.06 | | |
| Recorder | 0.00 | 9119 | Inside | 3333.06 | | |
| Recorder | 0.00 | 91716 | Outside | 3333.06 | | |
| Bullnose | 5.00 | | | 3338.06 | 80.06 | Bottom Packers & Anchor |

Total Tool Length: 100.06



FLUID SUMMARY

Darrah Oil Company LLC

22-20-13sw

125 North Market Suite 1425 Wichita, Kansas 67202 Gaunt #1-20

Job Ticket: 01051

Serial #:

DST#:1

ATTN: Seth Everson

Test Start: 2018.11.19 @ 11:34:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:57.00 sec/qtCushion Volume:bbl

Water Loss: in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

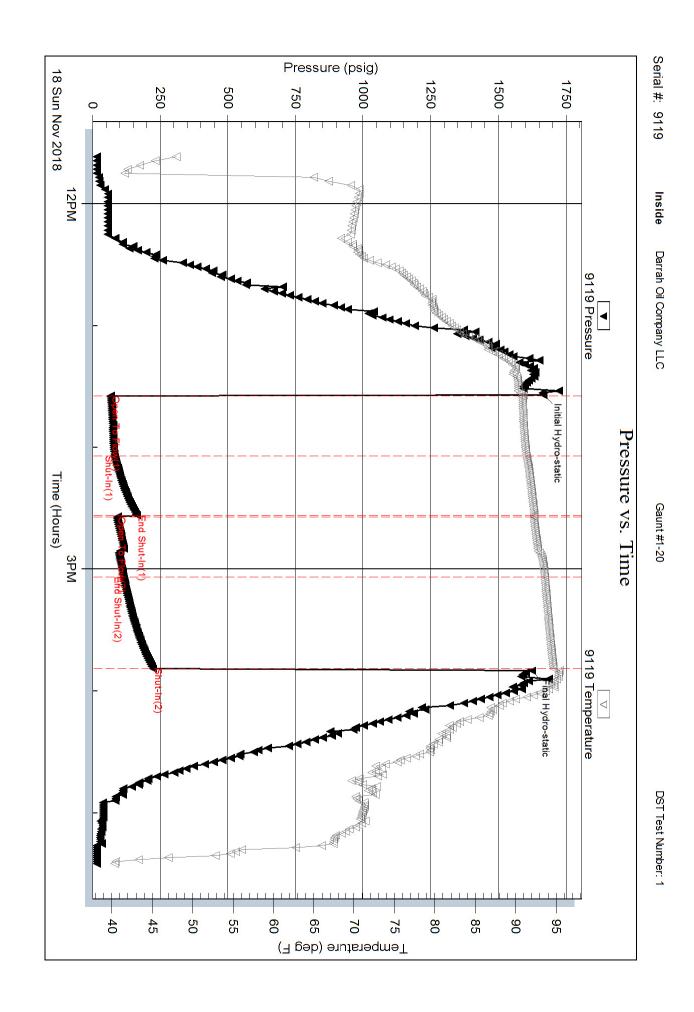
| Length ft | Description | Volume bbl | |
|--------------|--------------|---------------|--|
| 30.00 | drilling mud | 0.148 | |

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

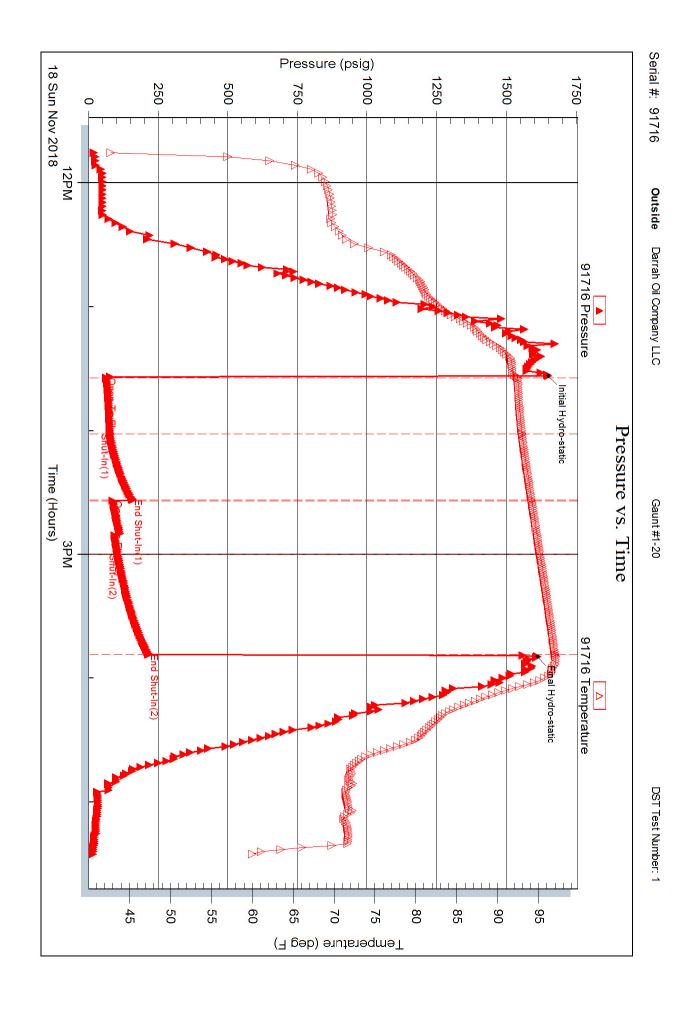
Recovery Comments:



Eagle Testers

Ref. No: 01051

Printed: 2018.11.19 @ 05:56:12



Eagle Testers

Ref. No: 01051

Printed: 2018.11.19 @ 05:56:12



LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November

20 2018 **DST #2** Formation: Lkc K-L Test Interval: 3437 -Total Depth: 3490'

3490'

Time On: 00:01 11/20 Time Off: 06:59 11/20

Time On Bottom: 01:58 11/20 Time Off Bottom: 04:43 11/20

Electronic Volume Estimate: 181'

1st Open Minutes: 30 **Current Reading:** 5.8" at 30 min Max Reading: 5.8"

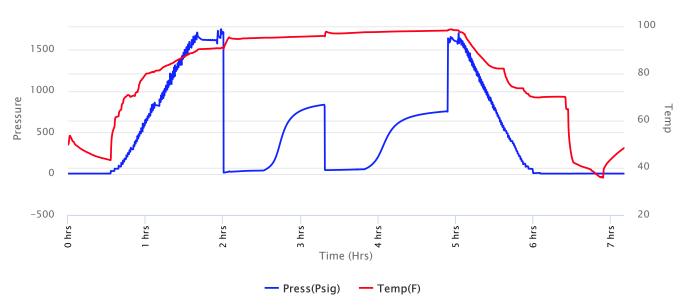
1st Close Minutes: 45 **Current Reading:** .1" at 45 min Max Reading: .1"

2nd Open Minutes: 30 **Current Reading:** 5.7" at 30 min

Max Reading: 5.7"

2nd Close Minutes: 60 **Current Reading:** .1" at 60 min Max Reading: .1"

Inside Recorder





State: Kansas

SEC: 22 TWN: 20S RNG: 13W

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1881 EGL Field Name: Hiss

Pool: Pool Ext

Job Number: 283

Operation: Uploading recovery & pressures

Lease: Gaunt #1-22

DATE November 20 2018

Total Depth: 3490' **DST #2** Formation: Lkc K-L Test Interval: 3437 -

3490'

Time On: 00:01 11/20 Time Off: 06:59 11/20

Time On Bottom: 01:58 11/20 Time Off Bottom: 04:43 11/20

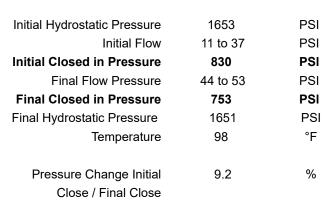
Recovered

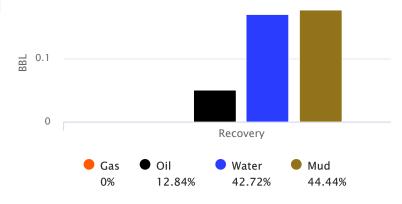
| <u>Foot</u> | <u>BBLS</u> | Description of Fluid | <u>Gas %</u> | <u>Oil %</u> | <u>Water %</u> | <u>Mud %</u> |
|-------------|-------------|----------------------|--------------|--------------|----------------|--------------|
| 1 | 0.00492 | 0 | 0 | 100 | 0 | 0 |
| 20 | 0.0984 | WCHOCM | 0 | 32 | 23 | 45 |
| 60 | 0.2952 | SLOCHMCW | 0 | 5 | 50 | 45 |

Total Recovered: 81 ft

Total Barrels Recovered: 0.39852

| Reversed Out |
|--------------|
| NO |







State: Kansas

Drilling Contractor: Southwind Drilling,

SEC: 22 TWN: 20S RNG: 13W

Inc - Rig 8

Pool: Pool Ext

Job Number: 283

Elevation: 1881 EGL Field Name: Hiss

Operation: Uploading recovery & pressures

Lease: Gaunt #1-22

DATE November

20 2018 DST #2 Formation: Lkc K-L Test Interval: 3437 -Total Depth: 3490' 3490'

Time On: 00:01 11/20 Time Off: 06:59 11/20

Time On Bottom: 01:58 11/20 Time Off Bottom: 04:43 11/20

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 3/4 inch blow - built to 6 inches in 30 mins

1st Close: Weak surface return started at 2 min. Built to 1/8" in 45 minutes.

2nd Open: 1/2" blow built to 5 3/4" in 30 min.

2nd Close: Weak surface return started at 5 min. Built to 1/8" over 60 min.

REMARKS:

Tool Sample: 0% Gas 1% Oil 89% Water 10% Mud

Measured RW: .2 @ 45 degrees °F

RW at Formation Temp: 0.099 @ 98 °F

Chlorides: 60,000 ppm



Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20 County: BARTON

State: Kansas

Drilling Contractor: Southwind Drilling,

SEC: 22 TWN: 20S RNG: 13W

Inc - Rig 8

Lease: Gaunt #1-22

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

3423.92 FT

DATE November 20

2018

DST #2 Formation: Lkc K-L Test Interval: 3437 -Total Depth: 3490'

3490'

Time On: 00:01 11/20 Time Off: 06:59 11/20

Time On Bottom: 01:58 11/20 Time Off Bottom: 04:43 11/20

Down Hole Makeup

Heads Up: 4.34 FT Packer 1: 3431.92 FT

Drill Pipe: 3295.93 FT Packer 2: 3436.92 FT

ID-3 1/2 Top Recorder:

Weight Pipe: 0 FT **Bottom Recorder:** 3439 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 120.17 FT

Surface Choke: 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 53.08

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 17 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 30.58 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 3 FT

4 1/2-FH



LLC Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 20 2018

DST #2 Formation: Lkc K-L Test Interval: 3437 -Total Depth: 3490'

3490'

Time On: 00:01 11/20 Time Off: 06:59 11/20

Time On Bottom: 01:58 11/20 Time Off Bottom: 04:43 11/20

Mud Properties

Mud Type: Weight: Viscosity: Filtrate: Chlorides: ppm



Company: Darrah Oil Company, SEC: 22 TWN: 20

LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

DATE

November

20 2018

DST #3 Formation: Arbuckle Test Interval: 3485 -Total Depth: 3552'

3552'

Time On: 17:10 11/20 Time Off: 23:29 11/20

Time On Bottom: 19:05 11/20 Time Off Bottom: 21:50 11/20

Electronic Volume Estimate:

54'

1st Open Minutes: 30 **Current Reading:** 1.9" at 30 min

Max Reading: 1.9"

1st Close Minutes: 45 **Current Reading:** 0" at 45 min

Max Reading: .1"

2nd Open Minutes: 30 **Current Reading:**

.1" at 30 min

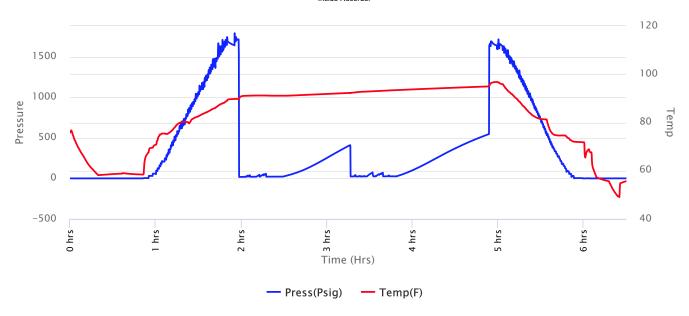
Max Reading: .1"

2nd Close Minutes: 60 **Current Reading:**

0" at 60 min

Max Reading: 0"

Inside Recorder





LLC

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283



DATE November 20

2018

Total Depth: 3552' DST #3 Formation: Arbuckle Test Interval: 3485 -

3552'

Time On: 17:10 11/20 Time Off: 23:29 11/20

Time On Bottom: 19:05 11/20 Time Off Bottom: 21:50 11/20

Recovered

BBLS Description of Fluid Gas % <u>Oil %</u> Water % Mud % **Foot** 30 0.1476 0 SLOCM 15 0 85

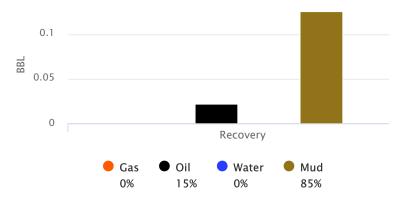
Total Recovered: 30 ft

Total Barrels Recovered: 0.1476

| Reversed Out |
|--------------|
| NO |

| Initial Hydrostatic Pressure | 1688 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 18 to 22 | PSI |
| Initial Closed in Pressure | 401 | PSI |
| Final Flow Pressure | 24 to 26 | PSI |
| Final Closed in Pressure | 545 | PSI |
| Final Hydrostatic Pressure | 1685 | PSI |
| Temperature | 95 | °F |
| | | |
| Pressure Change Initial | 0.0 | % |
| Close / Final Close | | |

Recovery at a glance





Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext

Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 20 2018

DST #3 Formation: Arbuckle Test Interval: 3485 -Total Depth: 3552'

3552'

Time On: 17:10 11/20 Time Off: 23:29 11/20

Time On Bottom: 19:05 11/20 Time Off Bottom: 21:50 11/20

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1" Blow built to 2" over 39 min.

1st Close: Weak surface return started at 15 min. Died at 30 min.

2nd Open: Weak surface blow built to 1/8" over 30 min.

2nd Close: No return

REMARKS:

Charts Show plugging, tool was not plugged off and washed through easily on floor after coming out of the hole at end of test.

Tool Sample: 0% Gas 10% Oil 0% Water 90% Mud



Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Uploading recovery & pressures

Operation:

DATE November

20

2018

DST #3 Formation: Arbuckle Test Interval: 3485 -Total Depth: 3552'

3552'

Time On: 17:10 11/20 Time Off: 23:29 11/20

Time On Bottom: 19:05 11/20 Time Off Bottom: 21:50 11/20

Down Hole Makeup

Heads Up: 19.31 FT Packer 1: 3479.62 FT

Drill Pipe: 3358.6 FT Packer 2: 3484.62 FT

ID-3 1/2 Top Recorder: 3471.62 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3487 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 120.17 FT

Surface Choke: ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 67.38

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 30 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.38 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 3 FT

4 1/2-FH



Operation: Uploading recovery & pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

LLC

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE

November

20 2018 **DST #3** Formation: Arbuckle Test Interval: 3485 -Total Depth: 3552'

3552'

Time On: 17:10 11/20 Time Off: 23:29 11/20

Time On Bottom: 19:05 11/20 Time Off Bottom: 21:50 11/20

Mud Properties

Mud Type: Weight: Viscosity: Filtrate: Chlorides: ppm



Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20

LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE November

21 2018 **DST #4** Formation: Arbuckle Test Interval: 3552 -Total Depth: 3565'

3565'

Time On: 06:32 11/21 Time Off: 12:40 11/21

Time On Bottom: 08:25 11/21 Time Off Bottom: 11:10 11/21

Electronic Volume Estimate:

71'

1st Open Minutes: 30 **Current Reading:** 1.6" at 30 min

1st Close Minutes: 45 **Current Reading:** .1" at 45 min Max Reading: .1"

2nd Open Minutes: 30 **Current Reading:** .9" at 30 min Max Reading: .9"

Current Reading: .1" at 60 min

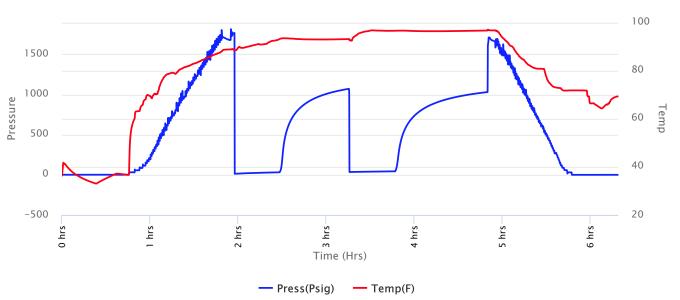
2nd Close

Minutes: 60

Max Reading: .1"

Max Reading: 1.6"

Inside Recorder





State: Kansas

Pool: Pool Ext

Job Number: 283

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss

Lease: Gaunt #1-22 Operation: Uploading recovery & pressures

LLC

DATE November 21

2018

Total Depth: 3565' DST #4 Formation: Arbuckle Test Interval: 3552 -

3565'

Time On: 06:32 11/21 Time Off: 12:40 11/21

Time On Bottom: 08:25 11/21 Time Off Bottom: 11:10 11/21

Recovered

| <u>Foot</u> | <u>BBLS</u> | Description of Fluid | <u>Gas %</u> | <u>Oil %</u> | Water % | <u>Mud %</u> |
|-------------|-------------|----------------------|--------------|--------------|---------|--------------|
| 20 | 0.0984 | SLWCHOCM | 0 | 48 | 2 | 50 |
| 60 | 0.2952 | SLOCSI WCM | 0 | 1 | 2 | 97 |

Total Recovered: 80 ft

Total Barrels Recovered: 0.3936

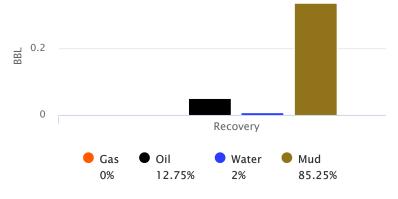
Close / Final Close

| Reversed Out |
|--------------|
| NO |

| Reversed Out |
|--------------|
| NO |

| Initial Hydrostatic Pressure | 1690 | PSI |
|-----------------------------------|----------|-----|
| Initial Flow | 12 to 32 | PSI |
| Initial Closed in Pressure | 1070 | PSI |
| Final Flow Pressure | 35 to 44 | PSI |
| Final Closed in Pressure | 1029 | PSI |
| Final Hydrostatic Pressure | 1689 | PSI |
| Temperature | 97 | °F |
| | | |
| Pressure Change Initial | 3.8 | % |
| | | |

Recovery at a glance





Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20 County: BARTON

LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE November

> 21 2018

DST #4 Formation: Arbuckle Test Interval: 3552 -Total Depth: 3565' 3565'

Time On: 06:32 11/21 Time Off: 12:40 11/21

Time On Bottom: 08:25 11/21 Time Off Bottom: 11:10 11/21

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/2" blow built to 1 1/2" over 30 min.

1st Close: Weak surface return started at 12 min. Did not build or die.

2nd Open: Surface blow built to 1" over 30 min.

2nd Close: Weak surface return started at 12 min. Did not build or die

REMARKS:

Tool Sample: 0% Gas 30% Oil 59% Water 11% Mud



State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext

Job Number: 283

Operation: Uploading recovery & pressures

Lease: Gaunt #1-22

DATE November 21

2018

DST #4 Formation: Arbuckle Test Interval: 3552 -Total Depth: 3565'

3565'

Time On: 06:32 11/21 Time Off: 12:40 11/21

Time On Bottom: 08:25 11/21 Time Off Bottom: 11:10 11/21

Down Hole Makeup

Heads Up: 14.07 FT Packer 1: 3547 FT

Drill Pipe: 3420.74 FT Packer 2: 3552 FT

ID-3 1/2 Top Recorder: 3539 FT

Weight Pipe: 0 FT

Bottom Recorder: 3554 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 120.17 FT

Surface Choke: 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 13

Anchor Makeup

1 FT

0 FT

Packer Sub:

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

Perforations: (top):

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 12 FT

4 1/2-FH



LLC

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 21

> > 2018

DST #4 Formation: Arbuckle Test Interval: 3552 -Total Depth: 3565'

3565'

Time On: 06:32 11/21 Time Off: 12:40 11/21

Time On Bottom: 08:25 11/21 Time Off Bottom: 11:10 11/21

Mud Properties

Mud Type: Weight: Viscosity: Filtrate: Chlorides: ppm



Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20

LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE November

> 21 2018

DST #5 Formation: Arbuckle Test Interval: 3565 -Total Depth: 3578'

3578'

Time On: 21:20 11/21 Time Off: 04:43 11/22

Time On Bottom: 23:33 11/22 Time Off Bottom: 02:48 11/23

Electronic Volume Estimate:

98'

1st Open Minutes: 45 **Current Reading:** 2.3" at 45 min

Max Reading: 2.3"

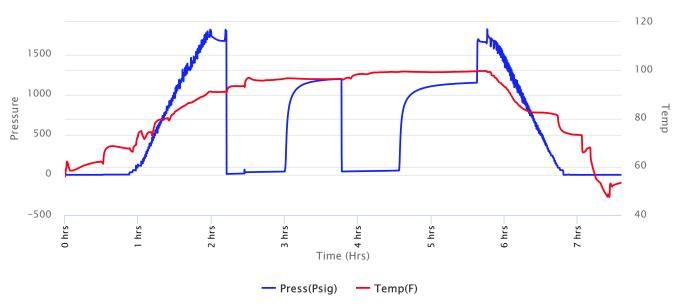
1st Close Minutes: 45 **Current Reading:** 0" at 45 min Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:** 1.4" at 45 min Max Reading: 1.4"

Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

2nd Close

Inside Recorder





Company: Darrah Oil Company, SEC: 22 TWN: 20

LLC Lease: Gaunt #1-22 SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 21

> > 2018

DST #5 Formation: Arbuckle Test Interval: 3565 -Total Depth: 3578'

3578'

Time On: 21:20 11/21 Time Off: 04:43 11/22

Time On Bottom: 23:33 11/22 Time Off Bottom: 02:48 11/23

Recovered

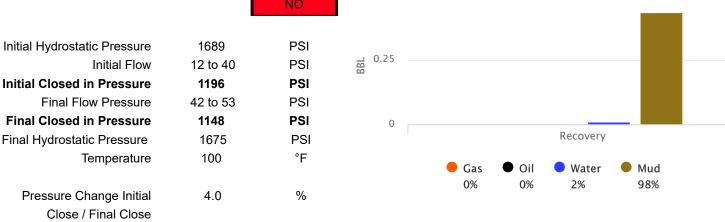
Mud % **BBLS Description of Fluid** Gas % Oil % Water % **Foot** 90 **SLWCHMCO** 0.4428 0 spots 2 98

Total Recovered: 90 ft

Total Barrels Recovered: 0.4428

Reversed Out NO

Recovery at a glance





Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

LLC Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE

2018

November 21

DST #5 Formation: Arbuckle Test Interval: 3565 -Total Depth: 3578' 3578'

Time On: 21:20 11/21 Time Off: 04:43 11/22

Time On Bottom: 23:33 11/22 Time Off Bottom: 02:48 11/23

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: Surface blow died in 3 min. Flushed tool at 15 minutes. 1 1/2" blow built to 2 1/4"

1st Close: No Return

2nd Open: Surface blow built to 1 1/2" over 45 min.

2nd Close: No Return

REMARKS:

Tool Sample: 0% Gas 1% Oil 2% Water 97% Mud



Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

LLC

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE November

21 2018 **DST #5** Formation: Arbuckle Test Interval: 3565 -Total Depth: 3578'

3578'

Time On: 21:20 11/21 Time Off: 04:43 11/22

Time On Bottom: 23:33 11/22 Time Off Bottom: 02:48 11/23

Down Hole Makeup

Heads Up: 33.45 FT Packer 1: 3560 FT

Drill Pipe: 3453.12 FT Packer 2: 3565 FT

ID-3 1/2 Top Recorder: 3552 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3567 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 120.17 FT

Surface Choke: 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 13

Anchor Makeup

1 FT

Packer Sub: Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 12 FT

4 1/2-FH



Operation: Uploading recovery & pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

LLC

DST #5

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE

November

21 2018

Total Depth: 3578' Formation: Arbuckle Test Interval: 3565 -

3578'

Time On: 21:20 11/21 Time Off: 04:43 11/22

Time On Bottom: 23:33 11/22 Time Off Bottom: 02:48 11/23

Mud Properties

Mud Type: Weight: Viscosity: Filtrate: Chlorides: ppm



Operation:

Uploading recovery &

pressures

Company: Darrah Oil Company, SEC: 22 TWN: 20

Formation: Arbuckle

LLC

Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DATE

November

22 2018

Test Interval: 3578 -

Total Depth: 3600'

3600'

Time On: 13:49 11/22 Time Off: 21:18 11/22

Time On Bottom: 16:12 11/22 Time Off Bottom: 18:57 11/22

Electronic Volume Estimate:

1st Open Minutes: 30 **Current Reading:**

DST #6

6" at 30 min Max Reading: 6"

1st Close Minutes: 45 **Current Reading:** 0" at 45 min

Max Reading: 0"

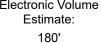
2nd Open Minutes: 30 **Current Reading:** 5" at 30 min

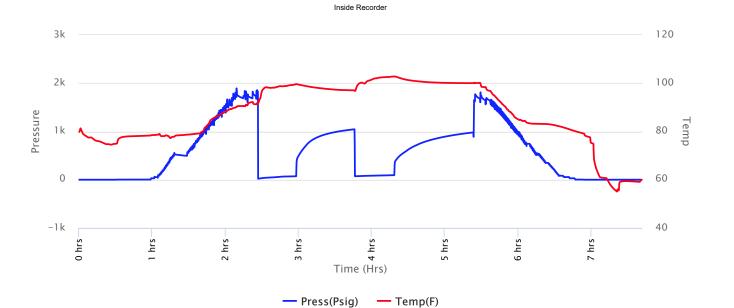
Max Reading: 5"

2nd Close Minutes: 60 **Current Reading:**

.1" at 60 min

Max Reading: .1"







State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL

Field Name: Hiss Pool: Pool Ext

Job Number: 283

Operation: Uploading recovery & pressures

Lease: Gaunt #1-22

DATE November 22 2018

Total Depth: 3600' DST #6 Formation: Arbuckle Test Interval: 3578 -

3600'

Time On: 13:49 11/22 Time Off: 21:18 11/22

Time On Bottom: 16:12 11/22 Time Off Bottom: 18:57 11/22

Recovered

| <u>Foot</u> | BBLS | Description of Fluid | <u>Gas %</u> | <u>Oil %</u> | Water % | <u>Mud %</u> |
|-------------|-----------|----------------------|--------------|--------------|---------|--------------|
| 5 | 0.07115 | WCM | 0 | 0 | 22 | 78 |
| 63 | 0.8949073 | HWCM | 0 | 0 | 33 | 67 |
| 60 | 0.2952 | HMCW | 0 | 0 | 55 | 45 |
| 60 | 0.2952 | SLMCW | 0 | 0 | 90 | 10 |

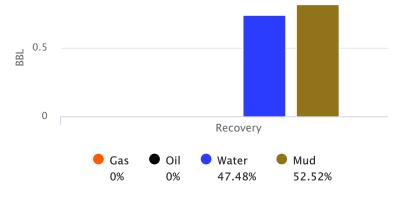
Total Recovered: 188 ft

Total Barrels Recovered: 1.5564573

| Reversed Out |
|--------------|
| NO |

| Initial Hydrostatic Pressure | 1754 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 20 to 71 | PSI |
| Initial Closed in Pressure | 1044 | PSI |
| Final Flow Pressure | 73 to 94 | PSI |
| Final Closed in Pressure | 980 | PSI |
| Final Hydrostatic Pressure | 1716 | PSI |
| Temperature | 103 | °F |
| | | |
| Pressure Change Initial | 6.2 | % |
| Close / Final Close | | |

Recovery at a glance





Lease: Gaunt #1-22

SEC: 22 TWN: 20S RNG: 13W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 22 2018

DST #6 Formation: Arbuckle Test Interval: 3578 -Total Depth: 3600' 3600'

> Time On: 13:49 11/22 Time Off: 21:18 11/22

Time On Bottom: 16:12 11/22 Time Off Bottom: 18:57 11/22

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/8" Blow built to 6" over 30 min.

1st Close: No Return

2nd Open: Surface blow built to 5" over 30 min.

2nd Close: Weak surface return started at 6 min. Did not build or die.

REMARKS:

Show of oil spots in tool

Tool Sample: 0% Gas spots% Oil 92% Water 8% Mud

Measured RW: .14 @ 52 degrees °F

RW at Formation Temp: 0.075 @ 103 °F

Chlorides: 70,000 ppm



LLC

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

Operation: Uploading recovery & pressures

> **DATE** November 22

> > 2018

Total Depth: 3600' **DST#6** Formation: Arbuckle Test Interval: 3578 -

3600'

Time On: 13:49 11/22 Time Off: 21:18 11/22

Time On Bottom: 16:12 11/22 Time Off Bottom: 18:57 11/22

Down Hole Makeup

Heads Up: 20.52 FT Packer 1: 3573 FT

Drill Pipe: 3453.19 FT Packer 2: 3578 FT

ID-3 1/2

Top Recorder: 3565 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3580 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 120.17 FT

Surface Choke: ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 22

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 21 FT

4 1/2-FH



pressures

DATE

November

22

2018

Operation: Uploading recovery &

Company: Darrah Oil Company, SEC: 22 TWN: 20S RNG: 13W County: BARTON

LLC

Lease: Gaunt #1-22

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 1881 EGL Field Name: Hiss Pool: Pool Ext Job Number: 283

DST #6 Total Depth: 3600' Formation: Arbuckle Test Interval: 3578 -

3600'

Time On: 13:49 11/22 Time Off: 21:18 11/22

Time On Bottom: 16:12 11/22 Time Off Bottom: 18:57 11/22

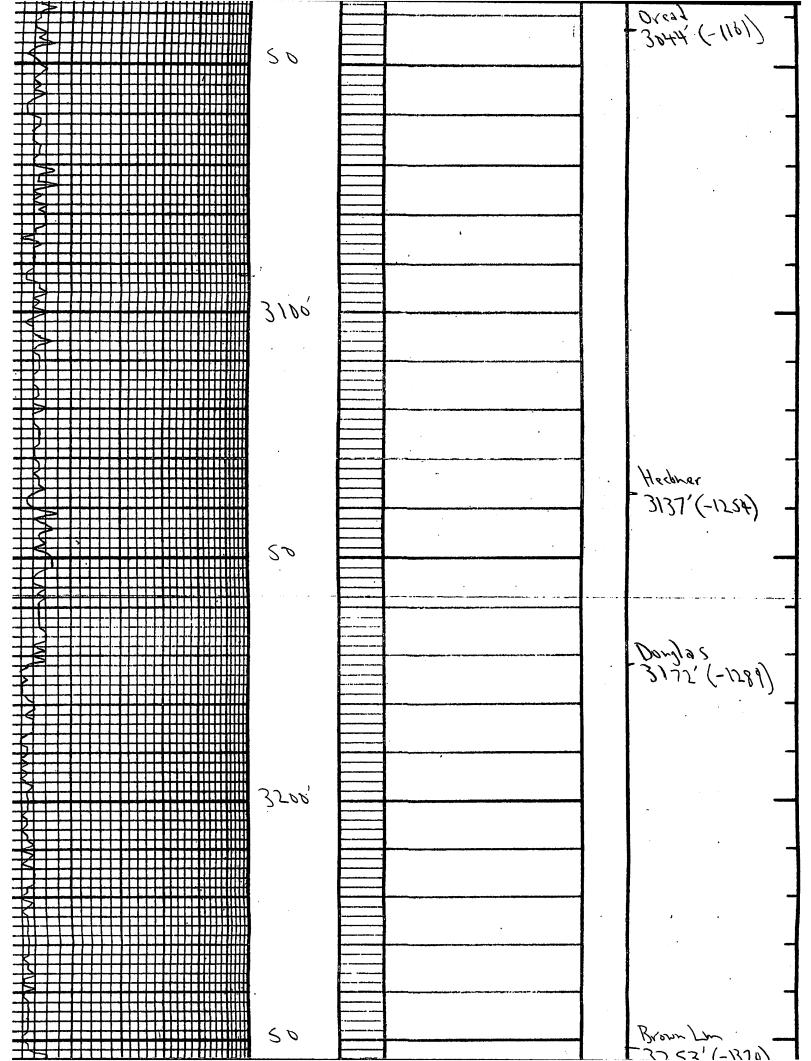
Mud Properties

Mud Type: Weight: Viscosity: Filtrate: Chlorides: ppm

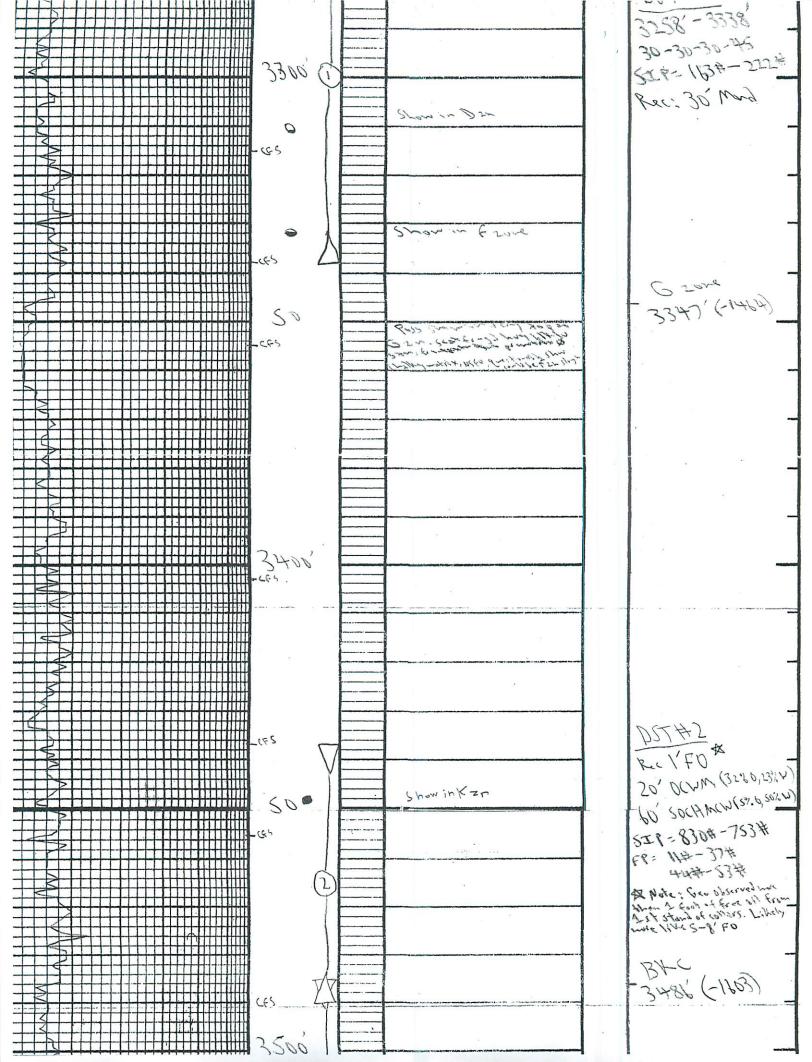
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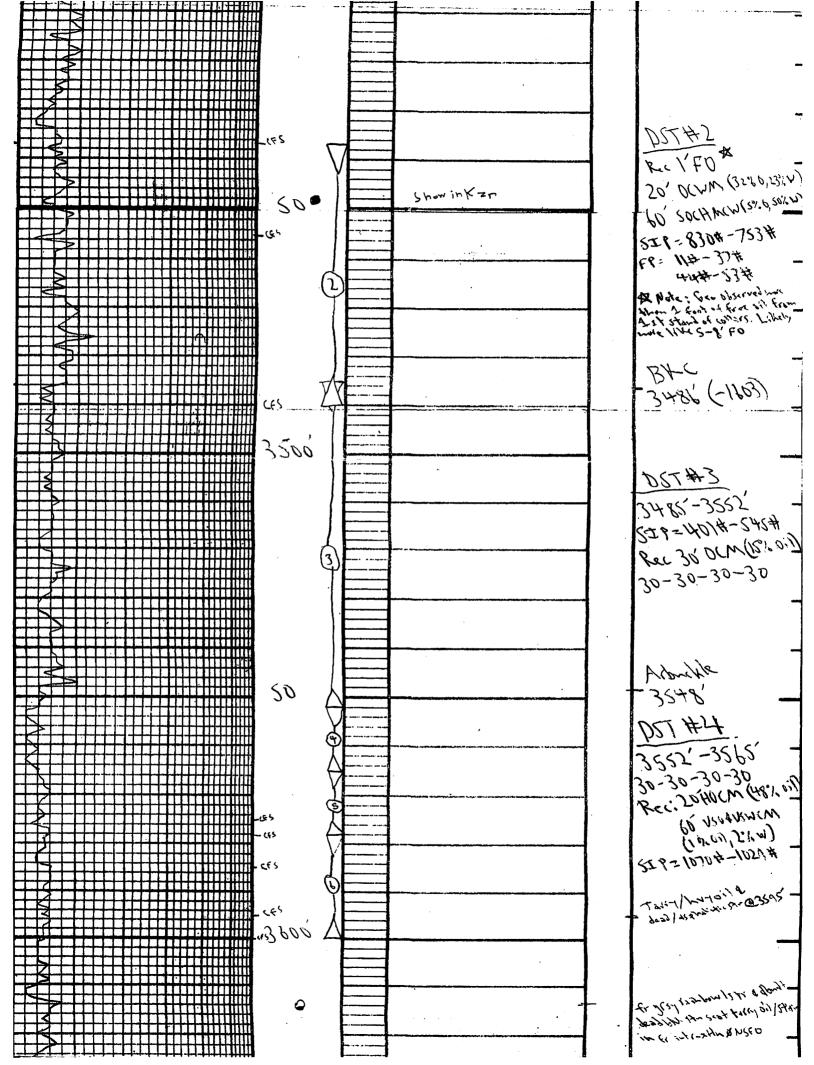
GEOLOGIST'S REPORT

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