

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 # _____

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 9890

Date	7-16-23	Sec.	5	Twp.	22	Range	14	County	Stafford	State	KS	On Location		Finish	8:45 AM
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Diamond Land Company
Lease Well No. 1
Location Radium Rd + K19, 1E, 1/2N

Owner W/Info
Contractor Southwind #1
To Quality Oilwell Cementing, Inc.

Type Job Long String
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 77/8" T.D. 3861'
Charge To RJM Company

Csg. 5 1/2" New Depth 3854'
Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 14' Shoe Joint 14' Cement Amount Ordered 180 Com 10% Salt 5%

Meas Line Displace 9 1/2 BBS Gilsonite - 500 gal mud Clear 48

EQUIPMENT

Pumptrk	No.	Cementor		Common
		Helper	Nick	Poz. Mix
Bulktrk	No.	Driver	Boys	Gel.
Bulktrk	No.	Driver	Rick	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 SX	Salt
Mouse Hole 20 SX	Flowseal
Centralizers 1-9	Kol-Seal
Baskets 2+6	Mud CLR 48
D/V or Port Collar pipe on bottom break	Sand
Circulation pump 500 gal mud clear plug rat + mouse	Handling
holes. Hook to 5 1/2" and Cement	Mileage

FLOAT EQUIPMENT

w/130 SX. Shut down wash	Guide Shoe
pump + lines Displaced plug	Centralizer 9
w/ BBS - Released + held	Baskets 2
Lift pressure 800 #	AFU Inserts
Land plug 1500 #	Float Shoe 1
	Latch Down 1

	Pumptrk Charge
	Mileage

	Tax
	Discount
	Total Charge

X Signature *Frank J. Rouse*

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 3408

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7/10/73	5	263	14W	Stafford	KS		11:15pm

Location *road on 19 1/2 South*

Lease	<i>Darnold land company</i>	Well No.	<i>1</i>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>Southwind</i>				
Type Job	<i>Surface</i>				
Hole Size		T.D.	<i>524</i>	Charge To	<i>KJM</i>
Csg.	<i>8 7/8</i>	Depth	<i>523.68</i>	Street	<i>PO Box 256</i>
Tbg. Size		Depth		City	<i>Clifton</i> State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<i>20</i>	Shoe Joint	<i>20</i>	Cement Amount Ordered	<i>450 60% 49 1/2% 1/2%</i>
Meas Line		Displace	<i>31.27</i>		

EQUIPMENT

Pumptrk	<i>16</i>	No.	Cementer	<i>T.M.</i>	Helper		Common
Bulktrk	<i>19</i>	No.	Driver	<i>Ross</i>	Driver		Poz. Mix
Bulktrk	<i>20</i>	No.	Driver	<i>Nick</i>	Driver		Gel.
							Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling
<i>Ran pipe, got circulation</i>		Mileage

FLOAT EQUIPMENT

		Guide Shoe
		Centralizer
		Baskets
<i>Cement Did Circulate!</i>		AFU Inserts
		Float Shoe
		Latch Down
<i>7 tanks</i>		<i>rubber plug</i>
		Pumptrk Charge
		Mileage

Signature <i>James J. [unclear]</i>	Tax
	Discount
	Total Charge

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

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WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

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Company: RJM Oil Company, Inc

Lease: Diamond Land Company #1

SEC: 5 TWN: 22S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1943 GL
Field Name: Radium Townsite
Pool: Infield
Job Number: 672
API #: 15-185-24142

Operation:

Uploading recovery & pressures

DATE

July
15
2023

DST #1 Formation: Arbuckle Test Interval: 3790 - 3861' Total Depth: 3861'

Time On: 13:47 07/15 Time Off: 20:49 07/15
Time On Bottom: 15:36 07/15 Time Off Bottom: 18:51 07/15

Electronic Volume Estimate:

313'

1st Open
Minutes: 45

Current Reading:

17.5" at 45 min

Max Reading: 17.5"

1st Close
Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open
Minutes: 45

Current Reading:

14.5" at 45 min

Max Reading: 14.5"

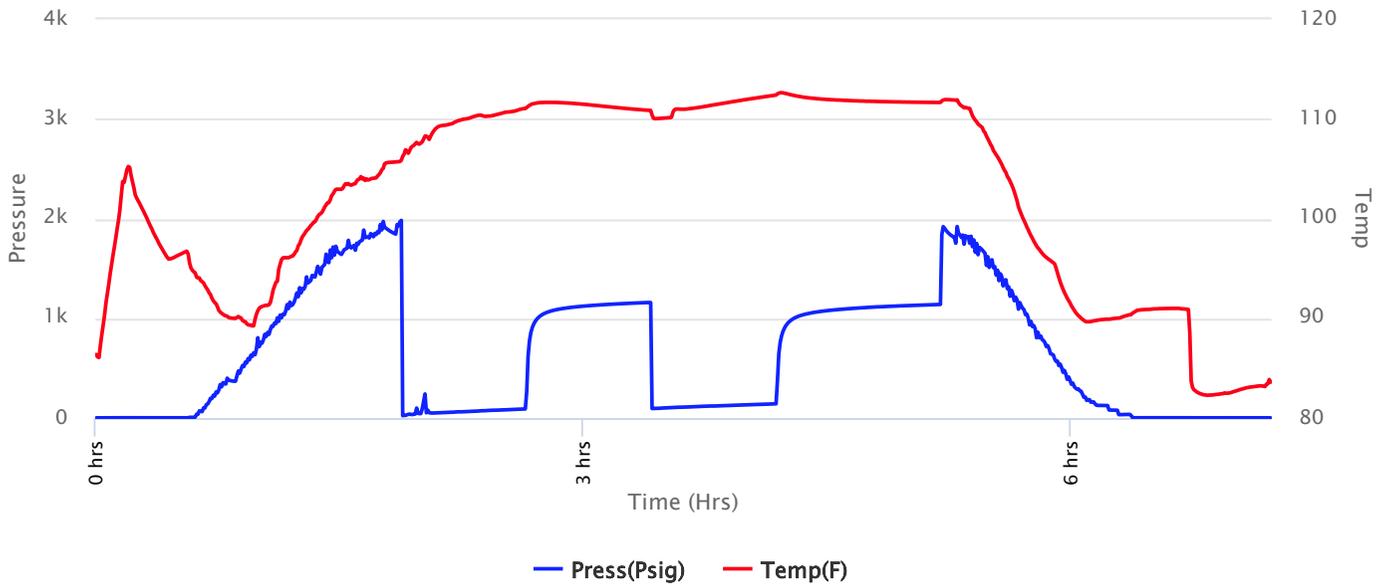
2nd Close
Minutes: 60

Current Reading:

0" at 60 min

Max Reading: 0"

Inside Recorder





Company: RJM Oil Company, Inc

Lease: Diamond Land Company #1

SEC: 5 TWN: 22S RNG: 14W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1943 GL
 Field Name: Radium Townsite
 Pool: Infield
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 API #: 15-185-24142

Operation:
 Uploading recovery & pressures

DATE
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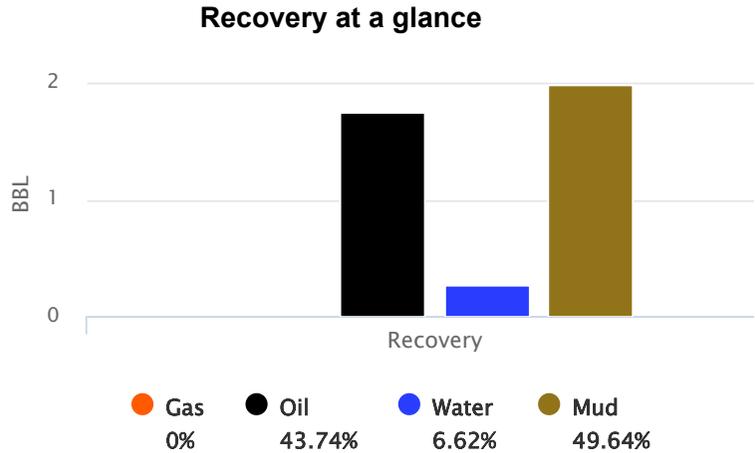
DST #1 Formation: Arbuckle Test Interval: 3790 - 3861' Total Depth: 3861'
 Time On: 13:47 07/15 Time Off: 20:49 07/15
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Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
95	1.35185	O	0	100	0	0
186	2.64678	SLWCSLOCM	0	15	10	75

Total Recovered: 281 ft
 Total Barrels Recovered: 3.99863

Reversed Out
 NO

Initial Hydrostatic Pressure	1983	PSI
Initial Flow	24 to 92	PSI
Initial Closed in Pressure	1159	PSI
Final Flow Pressure	95 to 143	PSI
Final Closed in Pressure	1140	PSI
Final Hydrostatic Pressure	1921	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	1.6	%



GIP cubic foot volume: 0



**Company: RJM Oil Company,
Inc**

**Lease: Diamond Land Company
#1**

SEC: 5 TWN: 22S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1943 GL
Field Name: Radium Townsite
Pool: Infield
Job Number: 672
API #: 15-185-24142

Operation:

Uploading recovery &
pressures

DATE

July
15
2023

DST #1 Formation: Arbuckle Test Interval: 3790 - Total Depth: 3861'
3861'

Time On: 13:47 07/15

Time Off: 20:49 07/15

Time On Bottom: 15:36 07/15

Time Off Bottom: 18:51 07/15

BUCKET MEASUREMENT:

1st Open: BoB 21 min 30 sec

1st Close: No blowback

2nd Open: BoB 33 min exact

2nd Close: No blowback

REMARKS:

Tool Sample: 0% Gas 10% Oil 5% Water 85% Mud

Gravity: 25.2 @ 60 °F



Company: RJM Oil Company, Inc

Lease: Diamond Land Company

#1

SEC: 5 TWN: 22S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1943 GL
Field Name: Radium Townsite
Pool: Infield
Job Number: 672
API #: 15-185-24142

Operation:

Uploading recovery & pressures

DATE

July
15
2023

DST #1 Formation: Arbuckle Test Interval: 3790 - 3861' Total Depth: 3861'
Time On: 13:47 07/15 Time Off: 20:49 07/15
Time On Bottom: 15:36 07/15 Time Off Bottom: 18:51 07/15

Down Hole Makeup

Heads Up: 22.73 FT

Packer 1: 3785 FT

Drill Pipe: 3780.16 FT
ID-3 1/2

Packer 2: 3790 FT

Weight Pipe: FT
ID-2 7/8

Top Recorder: 3774.42 FT

Collars: FT
ID-2 1/4

Bottom Recorder: 3859 FT

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Total Anchor: 71

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 34 FT
4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31 FT
ID-3 1/2

Change Over: 1 FT

Perforations: (below): 3 FT
4 1/2-FH



**Company: RJM Oil Company,
Inc**

**Lease: Diamond Land Company
#1**

SEC: 5 TWN: 22S RNG: 14W
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15

2023

DST #1 Formation: Arbuckle Test Interval: 3790 - Total Depth: 3861'
3861'

Time On: 13:47 07/15

Time Off: 20:49 07/15

Time On Bottom: 15:36 07/15

Time Off Bottom: 18:51 07/15

Mud Properties

Mud Type: Chem

Weight: 9

Viscosity: 58

Filtrate: 8.2

Chlorides: 5000 ppm



Company: RJM Oil Company, Inc

Lease: Diamond Land Company #1

SEC: 5 TWN: 22S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1943 GL
Field Name: Radium Townsite
Pool: Infield
Job Number: 672
API #: 15-185-24142

Operation:
Uploading recovery & pressures

DATE
July
15
2023

DST #1 Formation: Arbuckle Test Interval: 3790 - 3861' Total Depth: 3861'
Time On: 13:47 07/15 Time Off: 20:49 07/15
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Gas Volume Report

1st Open

2nd Open

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

OPERATOR

Company: RJM Company
 Address: PO Box 256
 Claflin, KS 67525

Contact Geologist: Jim Musgrove
 Contact Phone Nbr: 620-786-0839
 Well Name: Diamond Land Co. #1
 Location: 5-22s-14w SW-SE-NE-SE
 API: 15-185-24142-00-00
 Pool:
 State: Kansas

Field: Radium Townsite
 Country: USA



Scale 1:240 Imperial

Well Name: Diamond Land Co. #1
 Surface Location: 5-22s-14w SW-SE-NE-SE
 Bottom Location:
 API: 15-185-24142-00-00
 License Number: 30458
 Spud Date: 7/10/2023 Time: 12:00 AM
 Region: Stafford
 Drilling Completed: 7/16/2023 Time: 12:00 AM
 Surface Coordinates: 1400' FSL & 650' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1943.00ft
 K.B. Elevation: 1953.00ft
 Logged Interval: 0.00ft To: 3861.00ft
 Total Depth: 3200.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	511' ft			
Int Casing					
Prod Casing	5 1/2" in	3753' ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

OPEN HOLE LOGS

Logging Company:
 Logging Engineer:
 Truck #:
 Logging Date:
 # Logs Run: 0

Time Spent:
 # Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
	0.00ft	0.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
12/5/2007	0.00ft	0.00ft	

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1400' FSL
 E/W Co-ord: 650' FEL

LOGGED BY



Company: James C Musgrove Petroleum LLC
 Address: 212 Main Street/PO Box 215
 Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-0839
 Logged By: KLG #307 Name: James C Musgrove

CONTRACTOR

Contractor: Southwind Drilling Inc.
 Rig #: 1
 Rig Type: mud rotary
 Spud Date: 7/10/2023 Time: 12:00 AM
 TD Date: 7/16/2023 Time: 12:00 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1953.00ft Ground Elevation: 1943.00ft
 K.B. to Ground: 10.00ft

NOTES

NOTES;

5 1/2" production casing was set and cemented on the RJM Company, Diamond Land Company #1.

Respectfully yours,

James C Musgrove
 Petroleum Geologist

well comparison sheet

	DIAMOND LAND CO #1 RJM COMPANY SW-SE-NE-SE 5-22s-14w				MORRISON-LONG "A" EDMISTON OIL COMPANY NE-SE-SE 5-22s-14w				MORRISON-LONG "A" #2 EDMISTON OIL COMPANY NE-NE-SE 5-22S-14W			
	1953 KB				1950 KB		Relationship		1950 KB		Structural Relationship	
Formation	Log	Sub-Sea	Sample	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3332	-1379			3328	-1378		-1	3323	-1373		-6
Toronto	3355	-1402										
Douglas	3365	-1412										
Brown Lime	3451	-1498			3450	-1500		2	3442	-1492		-6
Lansing	3460	-1507			3457	-1507		0	3450	-1500		-7
Base Kansas City	3697	-1744			3704	-1754		10	3696	-1746		2
Viola	3759	-1806			3755	-1805		-1	3750	-1800		-6

Viola	3793	-1841		3793	-1841	3	3793	-1841		-6
Simpson Shale	3794	-1841		3794	-1844		3785	-1835		-6
Arbuckle	3851	-1898		3847	-1897	-1	3837	-1887		-11
Rotary Total Depth	3861	-1908		3865	-1915	7	3850	-1900		-8



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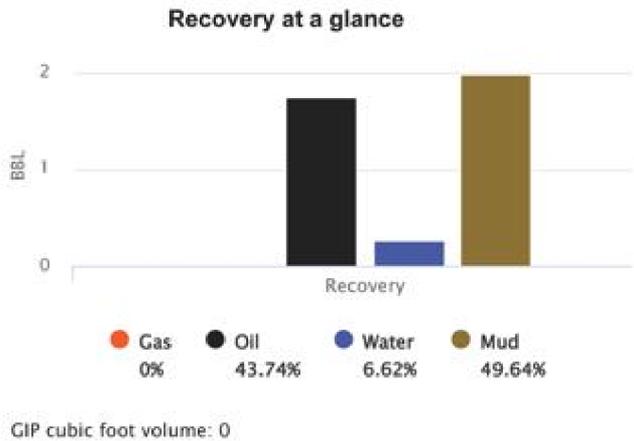
DST #1 **Formation: Arbuckle** **Test Interval: 3790 - 3861'** **Total Depth: 3861'**
 Time On: 13:47 07/15 Time Off: 20:49 07/15
 Time On Bottom: 15:36 07/15 Time Off Bottom: 18:51 07/15

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
95	1.35185	O	0	100	0	0
186	2.64678	SLWCSLOCM	0	15	10	75

Total Recovered: 281 ft
 Total Barrels Recovered: 3.99863

Reversed Out
 NO

Initial Hydrostatic Pressure	1983	PSI
Initial Flow	24 to 92	PSI
Initial Closed in Pressure	1159	PSI
Final Flow Pressure	95 to 143	PSI
Final Closed in Pressure	1140	PSI
Final Hydrostatic Pressure	1921	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	1.6	%



ROCK TYPES

Cht	sdylmst	shale, grn	shale, red	Slstst
Cht vari	Lmst fw<7	shale, gry	Shcol	
Dolprim	Lmst fw>7	Carbon Sh	Ss	

OTHER SYMBOLS

INTERVALS

- Core
- DST

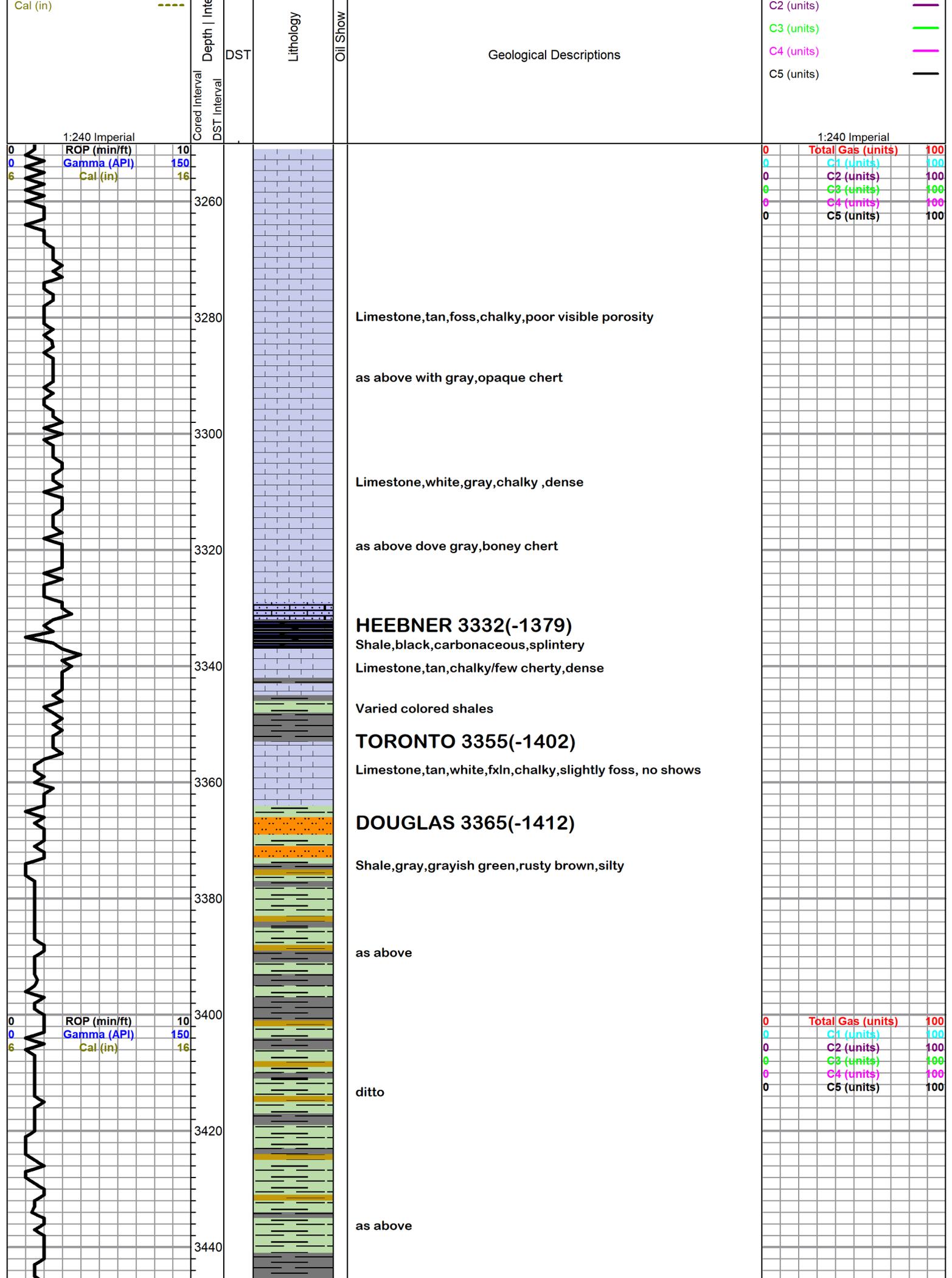
Oil Show

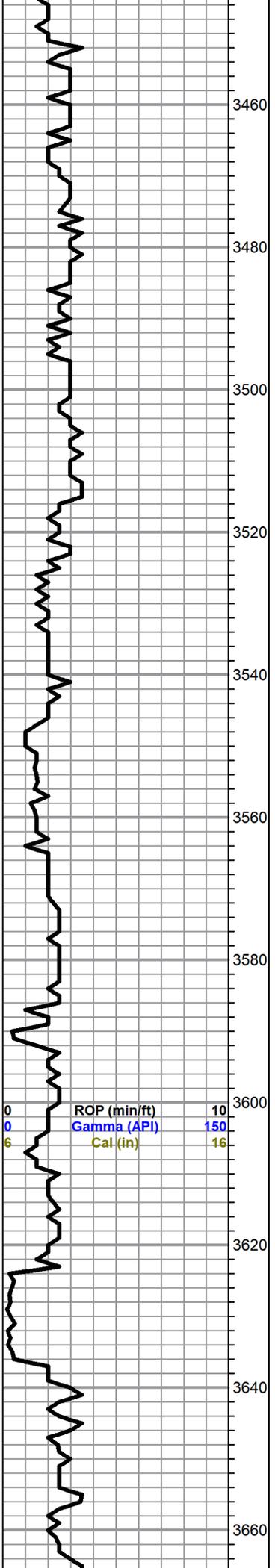
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- || tail pipe

Curve Track #1					TG, C1 - C5
ROP (min/ft)					Total Gas (units)
Gamma (API)					C1 (units)





BROWN LIME 3451(-1498)

Limestone,brown,dark gray,dense

LANSING 3460(-1507)

Limestone,white,gray,fxln,foss,chalky,poor visible porosity, no shows

Limestone,gray,white,chalky,foss in part, no shows

Limestone,as above,poor visible porosity,with gray,yellow,dense Limestone

Shale,gray,black,green

Limestone,gray,foss,slightly cherty,dense

Limestone,white,gray,oolitic,dense, trace gray,oolitic,chert

Limestone,gray,white,fossiliferous,oolitic,slightly cherty,dense,poor porosity

Limestone,white,gray,fxln,sub oomoldic,chalky,poorly developed porosity

Limestone,gray,tan,dense

Limestone,tan,gray,fxln,finely oolitic, oomoldic, scattered oomoldic type porosity, (barren)

Limestone,white,gray, oomodic, fair porosity, no shows

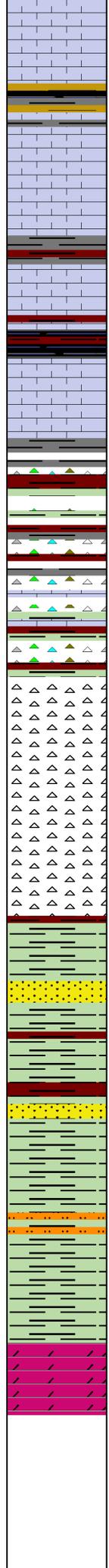
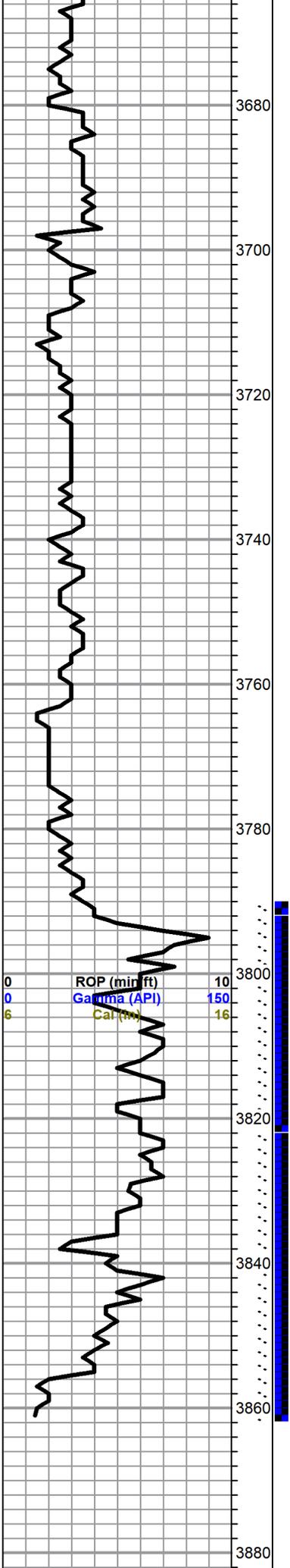
Limestone,tan,gray,white,oomoldic,good oomodic porosity, (barren)

Shale,gray,black,green

Limestone,gray,white,fxln,foss,chalky, trace black ,gray stain, no free oil and no odor

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

0	ROP (min/ft)	10
0	Gamma (API)	150
6	Cal (in)	16



Varied colored shales

Limestone, white, gray, chalky, dense

BASE KANSAS CITY 3697(-1744)

Shale, gray, rusty brown, soft

Limestone, white, gray, chalky

Shale, as above

Limestone, white, oolitic, chalky, poor porosity, trace black stain, no show of free oil and no odor

Chert, gray, white, boney with varied colore shales

VIOLA 3759(-1806)

Chert, white, gray, cream, boney, fresh, trace brown to black stain, no free oil and no odor

as above

SIMPSON 3794(-1841)

Shale, gray, grayish green, army green, maroon

Sand, vfg, dolomitic in part, poorly developed, no shows

Shale, as above

Shale, maroon, green, blue-green, sub waxey

as above

ARBUCKLE 3851(-1898)

Dolomite, white, cream, gray, fxln, dense, trace brown, black, stain, no free oil and faint odor

Dolomite, gray, tan, fxln, sucrosic in part, with gray, oomoldic, dolomite, fair brown stain and saturation, fair show of free oil and good odor

ROTARY TOTAL DEPTH 3861(-1908)

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

DST#1 3790-3861
45-45-45-60

Blow, Strong (bob 21 mins)
 Recovery, 95% clean oil, 186' oil cut watery mud (15% oil, 10% water, 75% mud)
 BHP 1159-1140 psi
 FP 24-92, 95-143 psi
 HSH 1983-1921 psi

