

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
--	---

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)</i> <i>(Submit ACO-4)</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:	
----------------	-------	---------	------------	--



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: Rebel Oil, LLC Lic# 35819 Contractor: Discovery Drilling Co., Inc. LIC#31548
305 West 40th Street PO Box 763
Hays, KS 67601 + 1519 Hays, KS 67601

Lease: Massier # 1 Location: 330 FSL - 2190 FWL
W/2/SE/SE/SW
Section 31/ 11S/ 19W
Ellis County, KS

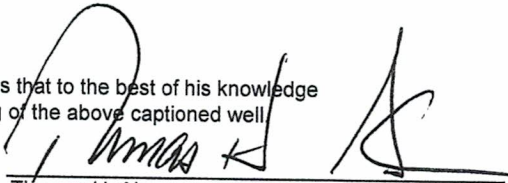
Loggers Total Depth: No Log API#15- 051-27,086-00-00
 Rotary Total Depth: 3732' Elevation: 2094 GL - 2102 KB
 Commenced: 6/1/2023 Completed: 6/6/2023
 Casing: 8 5/8" @ 221'W/150sks Status: D & A
 KCC Contact: Case Morris
 Plugging Info: (1st Plug @ 1500'W/50sks)(2nd Plug @ 775'W/100sks)
(3rd Plug @ 275'W/50sks)(4th Plug @ 40'W/10sks)
(30sks In Rat Hole)(15sks In Mouse Hole)(Total 255sks
60/40Poz 4%Gel-W/1/4# FS/sk-By Quality Oilwell)
(Completed @ 5:00PM 6/6/2023)

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shales	<u>0'</u>	Shale	<u>1506'</u>
Dakota Sand	<u>645'</u>	Shale & Lime	<u>2056'</u>
Shale	<u>767'</u>	Shale	<u>2384'</u>
Cedar Hill Sand	<u>935'</u>	Shale & Lime	<u>2740'</u>
Red Bed Shale	<u>1149'</u>	Lime & Shale	<u>3325'</u>
Anhydrite	<u>1459'</u>	RTD	<u>3732'</u>
Base Anhydrite	<u>1506'</u>		

STATE OF KANSAS)
) ss
 COUNTY OF ELLIS)

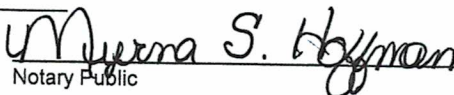
Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

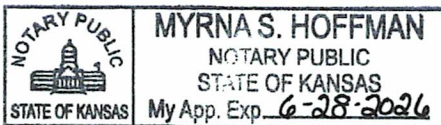

 Thomas H. Alm

Subscribed and sworn to before me on 6-22-2023

My Commission expires: 6-28-2026

(Place stamp or seal below)


 Notary Public



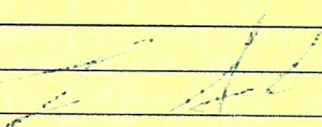
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 151261

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6/10/23	31	11	19	Ellis	Kansas		5:00pm
Lease				Location		Yoursdale #170 2 N 1/2 W N.W.	
Well No.				Owner			
Contractor				To Quality Oilwell Cementing, Inc.			
Type Job				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		T.D.		Charge To			
7 7/8				Rebel Oil			
Csg.		Depth		Street			
2 1/2" pipe		1500					
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered			
				255' 2" 4" 1/2" 1 1/4" 1/2" 1/2"			
Meas Line		Displace					
EQUIPMENT							
Pumptrk	No.	Cementer		Common			
		Helper					
Bulktrk	No.	Driver		Poz. Mix			
		Driver					
Bulktrk	No.	Driver		Gel.			
		Driver					
Bulktrk	No.	Driver		Calcium			
		Driver					
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			
1500 - 50 sks				Sand			
775 - 100 sks				Handling			
275 - 50 sks				Mileage			
Reel hole 30 sks				FLOAT EQUIPMENT			
Mud hole 15 sks				Guide Shoe			
				Centralizer			
				Baskets			
Cement did circulate				AFU Inserts			
				Float Shoe			
				Latch Down			
				1-Prp hole plug			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			

X
Signature

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. **3547**

Date 6-1-23	Sec. 31	Twp. 11	Range 19	County Ellis	State KS	On Location	Finish 7:45pm
--------------------	----------------	----------------	-----------------	---------------------	-----------------	-------------	----------------------

Location **Yocamentu To Homestead Rd 2 1/2 W**

Lease **MASTER** Well No. **1** Owner

Contractor **Discovery #2** 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.

Type Job **SURFACE** Charge To **Rebel Oil LLC**

Hole Size **12 1/4** T.D. **221** Street

Csg. **8 5/8** Depth

Tbg. Size Depth City State

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

Cement Left in Csg. Shoe Joint **15** Cement Amount Ordered **1504 89/20 3-2**

Meas Line Displace **13**

EQUIPMENT

Pumptrk **17** No. Cementer **Bill** Common **120**

Bulktrk No. Helper **Michelle** Poz. Mix **30**

Bulktrk No. Driver **Bryant** Gel. **3**

Bulktrk No. Driver **Bryant** Calcium **6**

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 **159**

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **Surface**

Mileage **44**

Signature **Thanks** Tax

Discount

Total Charge

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 constructed 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.

OPERATOR

Company: Rebel Oil LLC
 Address: 305 W 40th St
 Hays, KS 67601

Contact Geologist:
 Contact Phone Nbr:

Well Name: Massier #1
 Location: Sec. 31-11s-19w
 API: 15-051-27086-0000
 Pool:
 State: Kansas

Field:
 Country: USA

Scale 1:240 Imperial

Well Name: Massier #1
 Surface Location: Sec. 31-11s-19w
 Bottom Location:
 API: 15-051-27086-0000
 License Number:
 Spud Date: 6/1/2023 Time: 10:26 AM
 Region: Ellis Co.
 Drilling Completed: Time:
 Surface Coordinates: 330' FSL & 2190' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2094.00ft
 K.B. Elevation: 2102.00ft
 Logged Interval: 3000.00ft To: 0.00ft
 Total Depth: 0.00ft
 Formation: Arbuckle
 Drilling Fluid Type:

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 0
 Latitude: 0
 N/S Co-ord: 330' FSL
 E/W Co-ord: 2190' FWL

LOGGED BY

Company:
 Address: 38056 O Rd
 Ellis, KS 67637
 Phone Nbr: 620-428-1356
 Logged By: Geologist Name: Marc Downing

CONTRACTOR

Contractor: Discovery Drilling
 Rig #: 2
 Rig Type: Rotary
 Spud Date: 6/1/2023 Time: 10:26 AM
 TD Date: Time:
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2102.00ft Ground Elevation: 2094.00ft
 K.B. to Ground: 8.00ft

NOTES

Structural Comparison:

McCoy
 Massier "B" #1-31
 Sec. 31-11s-19w
 Top Anhydrite 1459 (+643) -9
 Base Anhydrite 1506 (+596) -9
 Topeka 3133 (-1031) -6
 Heebner 3358 (-1256) -7

Toronto	3375 (-1273)	-8
LKC	3398 (-1296)	-8
BKC	3614 (-1512)	-3
Marmaton	3660 (-1558)	-3

ROCK TYPES

	Cht vari		shale, gry		shale, red
	Lmst fw7>		Carbon Sh		

ACCESSORIES

MINERAL

Varicolored chert

STRINGER

red shale
 carb shale

OTHER SYMBOLS

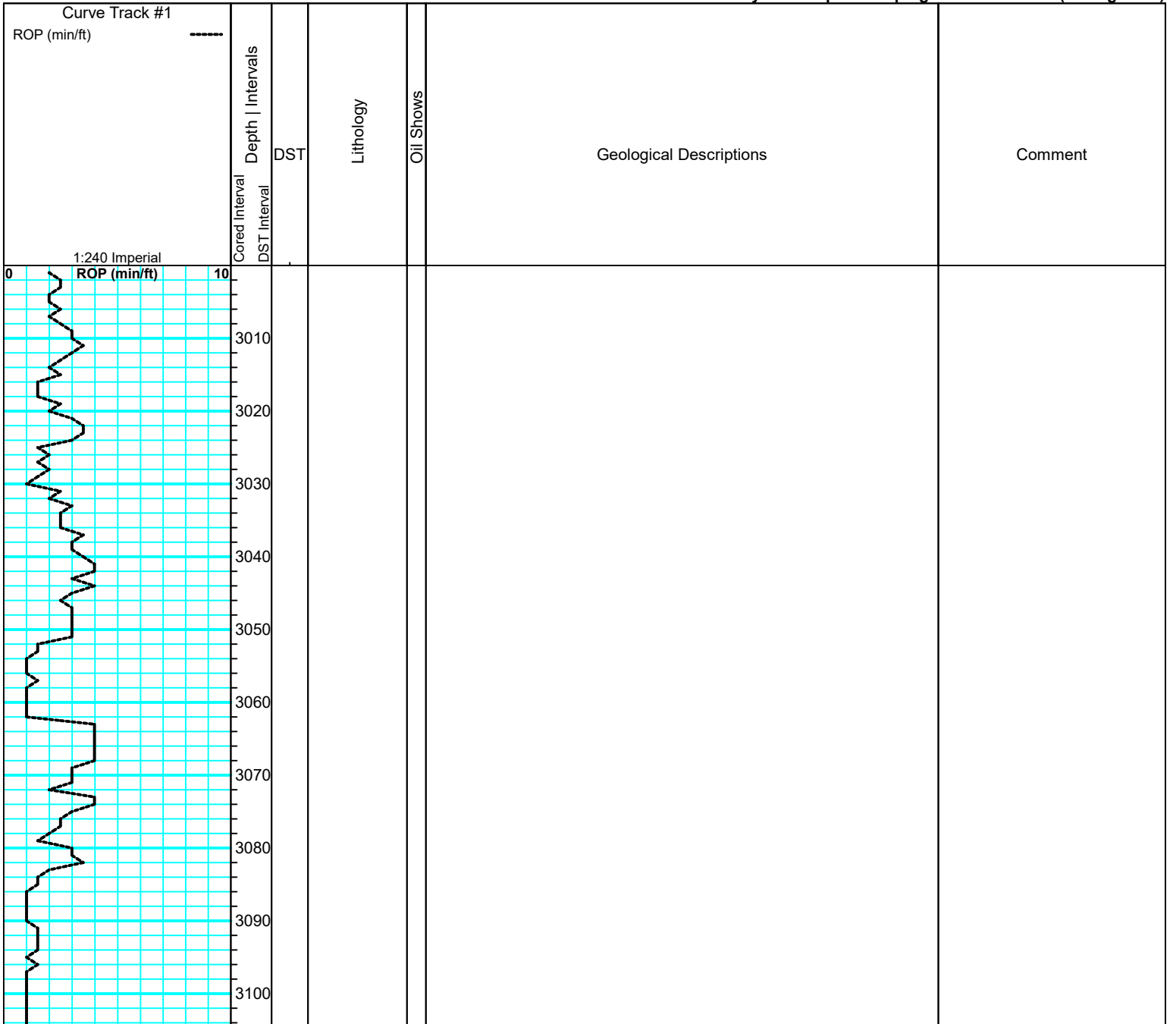
OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



Topeka 3133 (-1031)

LS: tan-brn, fn-md xln, foss in prt. Pr por and dns, totally barren, no od.

LS: mostly ala, few subxln rx.

Sh: gry

LS: wht, fn xln. Scat gd intxln and pp por, many chlky rx. All NS, no od.

Sh: drk gry

Sh: gry

LS: tan, vfn xln, dns w/ no vis por. Trng foss in prt and md xln. Totally barren, no od.

LS: tan, fn-md xln, foss in prt. Scat vug and intxln por, few subxln rx. Totally barren, no od.

LS: mostly ala, all NS.

Sh: Black Carb

Sh: gry, mtld in prt

LS: tan, md xln, frag foss, suc in prt. Pr por, dns, NS.

Sh: gry

LS: tan-wht, trng vfn xln, some mic. Mostly dns w/ pr por, scat subxln-chlky rx. Totally barren, no od.

LS: much ala, trng fn-md xln.

Sh: gry

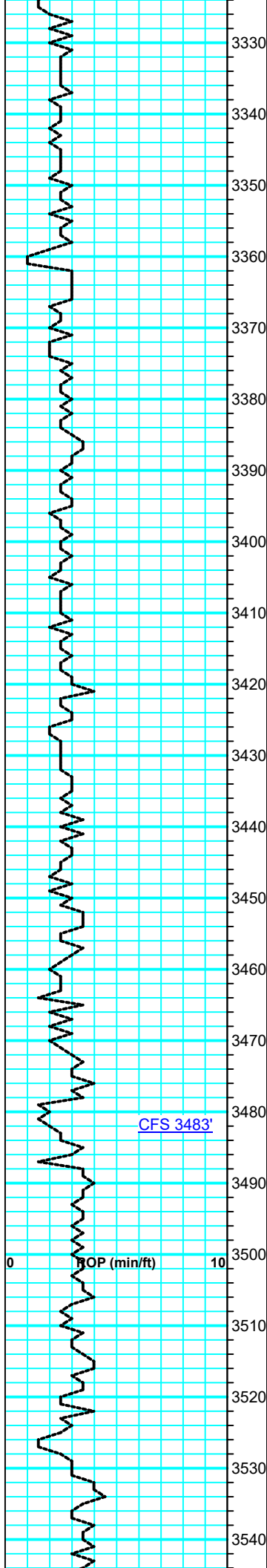
LS: tan, md xln, dns.

Sh: Black Carb

Sh: gry, mtld

LS: wht, fn-md xln, few foss. Scat sml vugs w/ some intxln por, fr amt chlky rx. Totally barren, no od. Trng pr por and dns, few pcs w/ pr pp por, NS.

Sh: gry



LS: wht-tan, fn-md xln, moslty chlky and NS. 2-3 rx w/ depth trng suc w/ v sml ool. Fr brn stn w/ fr SFO when broken, fnt od.

LS: trng tan, md xln, v foss, fr amt mtd. Scat show ala, poss carry, rest barren. Scat tan-gry foss cht, no od.

Heebner 3358 (-1256)

Sh: Black Carb

Sh: gry

Toronto 3375 (-1273)

LS: wht, md xln, foss w/ scat sml ool. Scat pr int xln por w/ few sml vugs, 2-3 rx w/ fr sat stn and pr-fr SFO when broken, rest barren. No od.

Sh: gry w/ some brn

LKC 3398 (-1296)

LS: wht, fn-md xln, foss in prt. Scat subxln-chlky rx, rest pr por and dns. All NS, no od.

LS: wht-lt tan, fn xln, suc in prt. Pr por and dns, fr amt shp tan-vht cht. All NS, no od.

Sh: drk gry

Sh: gry w/ brn

LS: wht-tan, md xln, foss in prt. Trng fn xln, few subxln rx. All Pr por, totally barren, no od.

Sh: gry w/ lt gry

LS: wht, fn xln, suc in prt. 1-2 rx w/ fr stn and spttd SFO in fr intxln por. Trng pr por and dns, barren. No od. Inc amt foss.

Sh: drk gry

LS: tan-brn, md xln, mostly pr por and dns w/ NS. Trng foss w/ 3-4 rx fr vug por, pr-fr uneven stn w/ spttd SFO, no od. Scat subxln-chlky rx.

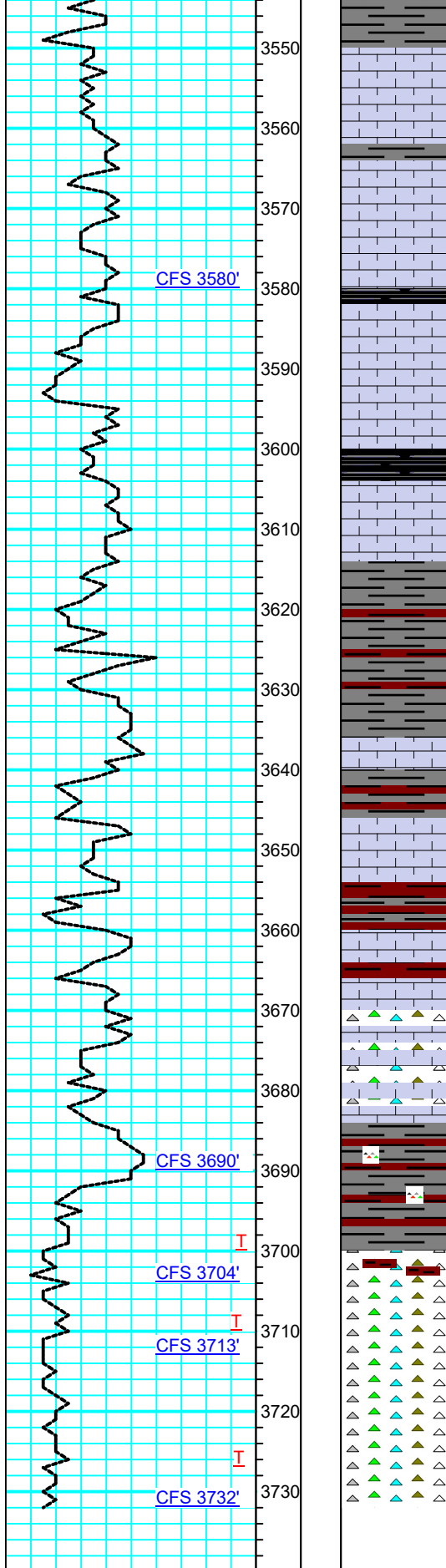
Sh: gry

LS: wht, md xln, scat ool. Pr por and dns, toally barren, no od. Trng foss in prt w/ few sml vugs. 3-4 rx w/ fr stn w/ fr SFO, lt od.

LS: trng tan, fn-md xln, scat foss. All pr por and dns, totally barren, no od.

Sh: Black Carb

LS: tan-wht, md xln, scat foss. Mostly tite w/ pr por, scat pr-fr intxln por w/ few sml vugs, uneven stn w/ spttd SFO in por. Fnt od.



Sh: drk gry

LS: wht-tan, fn-md xln, suc in prt w/ scat foss. Mostly pr por and dns, rare sml vugs w/ rare stn and SFO in por. No od.

Sh: gry

LS: tan, md xln, foss in prt. Mostly pr por w/ rare uneven stn. 1-2 ool rx w/ pr ooc por, gd sat w/ hvv SFO. No od.

Sh: Black Carb

LS: wht-tan, fn-md xln. Few foss rx w/ pr vug por, rare uneven stn, poss carry from J. Scat subxln-chlky rx w/ NS, all no od. Samples not representative of break?

Sh: Black Carb w/ red

LS: tan-brn, fn xln, suc in prt. Pr por and dns, all NS.

BKC 3614 (-1512)

Sh: gry w/ scat brn-red

LS: tan-brn, md xln, ool in prt. Dns, NS.

Sh: brn w/ gry

LS: tan-brn, ool ala. Pr por, dns, NS.

Marmaton 3660 (-1558)

LS: tan, fn xln, suc in prt. Pr por and dns, all NS.

LS: tan, fn xln, suc in prt. Mostly all dns w/ pr por, scat amt shp org-tan cht. Totally barren, no od.

LS: tan-wht, fn xln, few suc rx. Pr por w/ inc amt shp org cht. Few pcs w/ dead edge stn, NSFO, no od.

Sh: brn w/ gry, scat org cht

Cht: abnt org and red, shp, fr amt arg red sh.

Cht: abnt org and red, few pcs red sh. 1 pc ss, fn grain, w/ SFO.

Cht: some ala, trng fr amt wht. Totally barren, no od.