

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)</i> <i>(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 785-483-2025
Cell 785-324-1041

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

No. 1005

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9.2.08	30	7	19	Rooks	KS		7.15 PM

Location Stockton 11w Vinto

Lease <u>Conchal Trust</u>	Well No. <u>1</u>	Owner
Contractor <u>D. Severn #2</u>		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 <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>263</u>	Charge To <u>Tengasco</u>
Csg. <u>8 5/8</u>	Depth <u>263</u>	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. <u>10</u>	Shoe Joint	Cement Amount Ordered <u>170 @ 20 3/4 3/02</u>
Meas Line	Displace <u>110 BL</u>	

EQUIPMENT

Pumptrk <u>18</u> No.	Cementer <u>5</u>	Common
	Helper <u>5</u>	Poz. Mix
Bulktrk <u>15</u> No.	Driver <u>D. Pitt</u>	Gel.
	Driver <u>2</u>	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
<u>8 5/8 on bottom. For circulation.</u>	Sand
<u>Mix 170 @ 20 3/4 3/02</u>	Handling
<u>Cement - 100 @ 20 3/4 3/02</u>	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
Pumptrk Charge
Mileage

Quality Oilwell
Cementing

X Signature Karl Karlin

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1011

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-19-18	50	1	19	Rank 5	KS		3:50

Location Slickhorn 6-320 New Mine

Lease <u>Central Trust</u>	Well No. <u>1</u>	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 <u>D. ...</u>		Charge To <u>Tangaw</u>
Type Job <u>Ramp Plug</u>		
Hole Size <u>7/8</u>	T.D. <u>3585</u>	Street
Csg.	Depth	City
Tbg. Size	Depth	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 <u>305</u> <u>4/10/18</u>
Meas Line	Displace	

EQUIPMENT

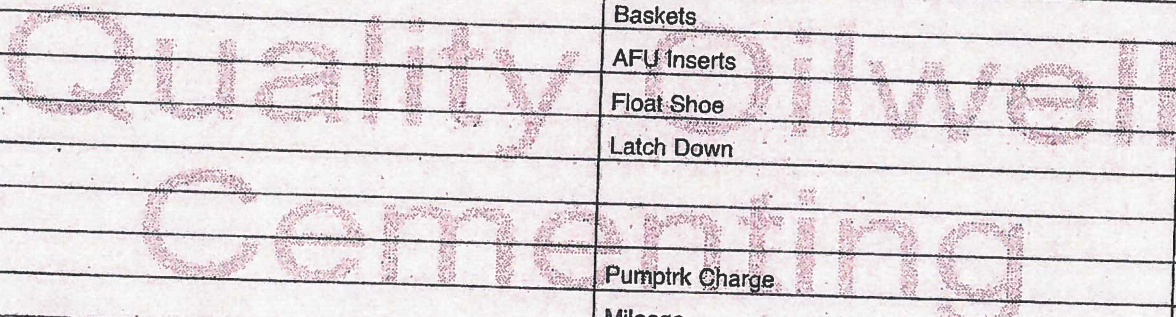
Pumptrk	5	No.	Cementer/Helper	Common
Bulktrk		No.	Driver	Poz. Mix
Bulktrk	19	No.	Driver	Gel.
		No.	Driver	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>305K</u>	Salt
Mouse Hole <u>155K</u>	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>15</u> <u>3420</u> <u>505K</u>	Sand
<u>20</u> <u>1000</u> <u>105K</u>	Handling
<u>30</u> <u>500</u> <u>105K</u>	Mileage

FLOAT EQUIPMENT

<u>40</u> <u>315</u> <u>505K</u>	Guide Shoe <u>8 5/8</u> <u>Dr Hole Plug</u>
<u>50</u> <u>40</u> <u>105K</u>	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



Pumptrk Charge	
Mileage	
	Tax
	Discount
	Total Charge

X Signature [Signature]



DRILL STEM TEST REPORT

Prepared For: **Tengasco**

PO Box 458
Hays KS 67601+9744

ATTN: Neil Sharp

Griebel #1

30-7s-19w Rooks,KS

Start Date: 2018.09.17 @ 22:20:00

End Date: 2018.09.18 @ 06:15:00

Job Ticket #: 64751 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.18 @ 15:03:09

Tengasco
30-7s-19w Rooks,KS
Griebel #1
DST # 1
Arbuckle
2018.09.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco
PO Box 458
Hays KS 67601+9744
ATTN: Neil Sharp

30-7s-19w Rooks,KS
Griebel #1
Job Ticket: 64751 **DST#: 1**
Test Start: 2018.09.17 @ 22:20:00

Tool Information

Drill Pipe:	Length: 3071.00 ft	Diameter: 3.82 inches	Volume: 43.53 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 45.81 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3414.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3378.00	
Shut In Tool	5.00			3383.00	
Sampler	3.00			3386.00	
Hydraulic tool	5.00			3391.00	
EM Sub	5.00			3396.00	
Jars	5.00			3401.00	
Safety Joint	3.00			3404.00	
Packer	5.00			3409.00	37.00 Bottom Of Top Packer
Packer	5.00			3414.00	
Stubb	1.00			3415.00	
Recorder	0.00	8368	Inside	3415.00	
Recorder	0.00	8934	Outside	3415.00	
Perforations	25.00			3440.00	
Bullnose	3.00			3443.00	29.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco
PO Box 458
Hays KS 67601+9744
ATTN: Neil Sharp

30-7s-19w Rooks,KS
Griebel #1
Job Ticket: 64751 **DST#: 1**
Test Start: 2018.09.17 @ 22:20:00

Mud and Cushion Information

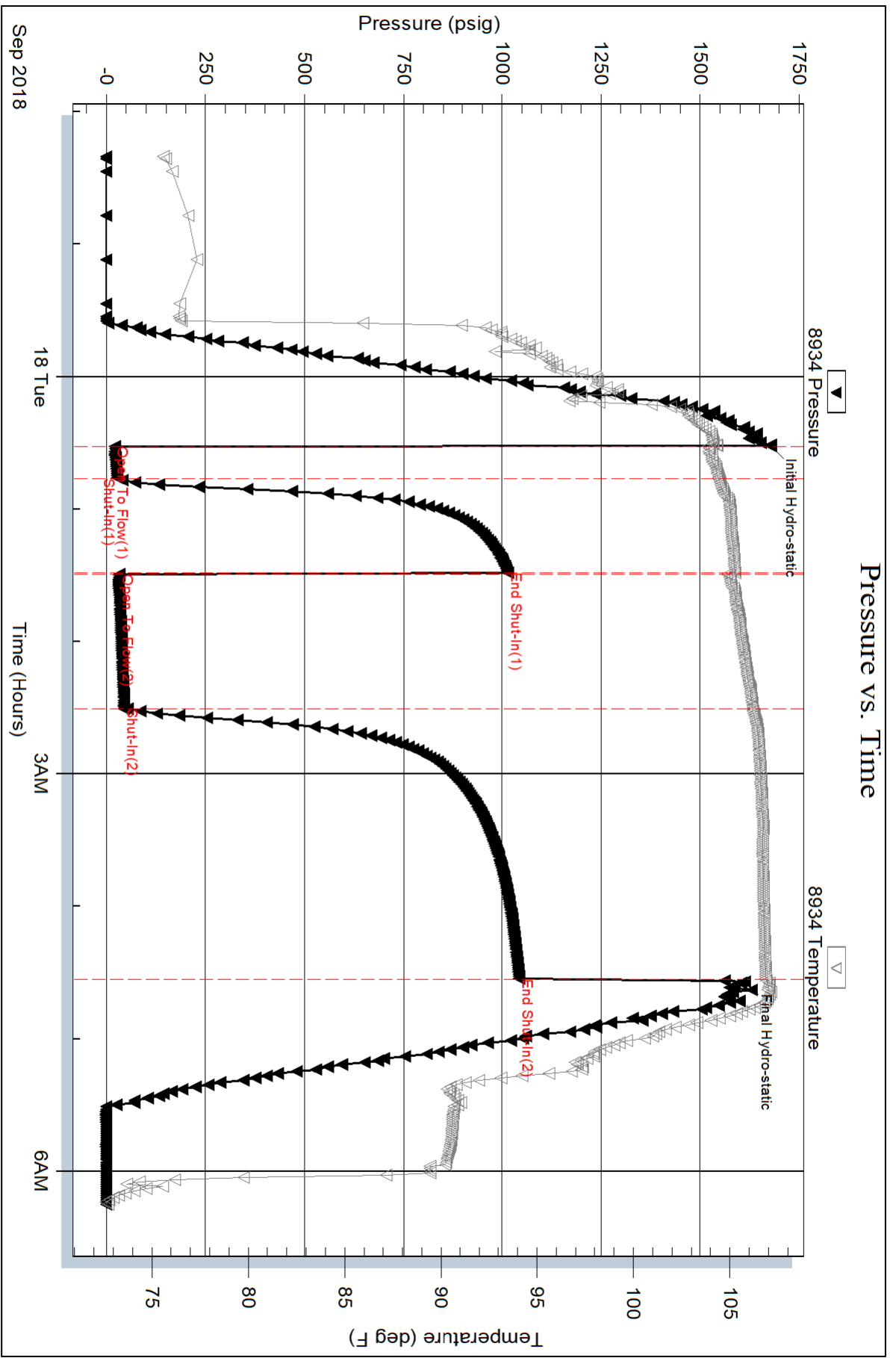
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OSM 100%M	0.455

Total Length: 62.00 ft Total Volume: 0.455 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM
 Sampler=100ML Total--100ML Mud @80PSI

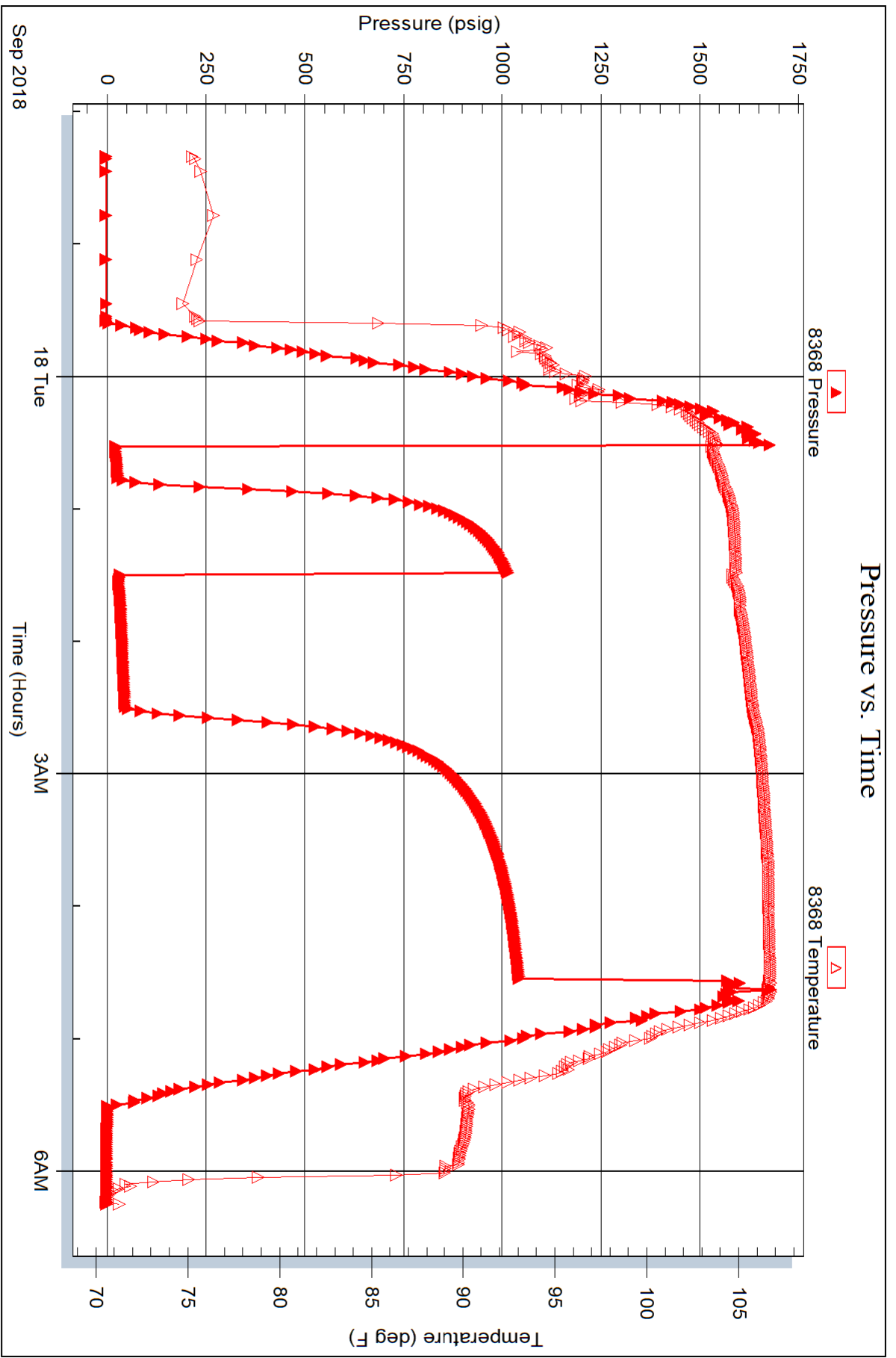


Serial #: 8368

Inside Tengasco

Griebel #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64751

Well Name & No. Driebel #1 Test No. 1 Date 09/17/2018
 Company Tengasco Elevation 1971 KB 1963 GL
 Address 1327 Moose Rd PO Box 458 Hays KS 67601-9744
 Co. Rep / Geo. Neil Sharp Rig Discovery #2
 Location: Sec. 30 Twp 7s Rge. 19w Co. Rooks State Ks

Interval Tested 3414'-3443' Zone Tested Arbuckle
 Anchor Length 29' Drill Pipe Run 3071' Mud Wt. 8.9
 Top Packer Depth 3409' Drill Collars Run - Vis 49
 Bottom Packer Depth 3414' Wt. Pipe Run 310' WL 6.8
 Total Depth 3443 Chlorides 5500 ppm System LCM 2H

Blow Description 17-Weak; Built to 1"
150 - No Return
17-Weak; Built to 2 1/4"
150 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62'</u>	<u>Mud w/oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 62' BHT 106° Gravity - API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 1677
- (B) First Initial Flow 20
- (C) First Final Flow 26
- (D) Initial Shut-In 1014
- (E) Second Initial Flow 32
- (F) Second Final Flow 44
- (G) Final Shut-In 1043
- (H) Final Hydrostatic 1613

- Test 1050
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 104.27 104
- Sampler 250
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1729

- T-On Location 21:50
- T-Started 22:20
- T-Open 00:30 09/18/2017
- T-Pulled 04:25
- T-Out 06:12
- Comments loaded after test
- EM Tool 350
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 350
- Total 2079
- MP/DST Disc't

Initial Open 10
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 120

Approved By _____

Our Representative Spencer J. Staub Thanks!

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0556



FLUID SAMPLER DATA

Ticket No. 64751
 Company Name Mengacco
 Lease Shirley #1
 County Rock
 Date 09/18/2018
 Test No. 1
 Sec. 3D Twp. 7A Rng. 19W5

PIT MUD ANALYSIS

Chlorides ML 5500
 Resistivity ohms @ F
 Viscosity 49
 Mud Weight ML 8.9
 Water ML 6.8
 Other ML 6.8
 Pressure ML 80
 Total ML 100

SAMPLER RECOVERY

PIPE RECOVERY

Resistivity ohms @ F
 Chlorides ppm
 Gravity corrected @ 60F
 Resistivity ohms @ F
 Chlorides ppm
 Resistivity ohms @ F
 Chlorides ppm
 Resistivity ohms @ F
 Chlorides ppm
 Resistivity ohms @ F
 Chlorides ppm

SAMPLER ANALYSIS

Resistivity ohms @ F
 Chlorides ppm
 Gravity corrected @ 60F
 Resistivity ohms @ F
 Chlorides ppm
 Resistivity ohms @ F
 Chlorides ppm
 Resistivity ohms @ F
 Chlorides ppm

JUSTIN D. CARTER

CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: GRIEBEL TRUST #1
Well Id:
Location: SE, SW, NE Sec. 30 - 7S - 19W Rooks Co., KS
License Number: 15-163-24369-0000
Spud Date: 09/12/18
Surface Coordinates: 2310' FNL & 1650' FEL
Region: Reservoir Northwest
Drilling Completed: 09/18/18

Bottom Hole Coordinates: 263': 1 DEG, 3443': 1 1/4 DEG, 3585': 2 DEG
Ground Elevation (ft): 1963' K.B. Elevation (ft): 1971'
Logged Interval (ft): 2850' To: 3585' Total Depth (ft): 3585'
Formation: OREAD, L/KC, ARBUCKLE
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: TENGASCO, INC.
Address: P.O. Box 458
Hays, KS 67601-9744
Co. Geo.: Mr. Neil Sharp

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187

Comments

Drilling Contractor: Discovery Drilling Rig #2
Tool Pusher: Terry Wickham

8 5/8" surface casing set at 262'

Mud: MudCo
Engineer: Gary Schmidtberger

DSTs: Trilobite Testing
Tester: Spencer Staab

Open-Hole Loggers: Halliburton



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco
 1327 Noose Rd
 PO BOX 458
 Hays KS 67601+9744
 ATTN: Neil Sharp

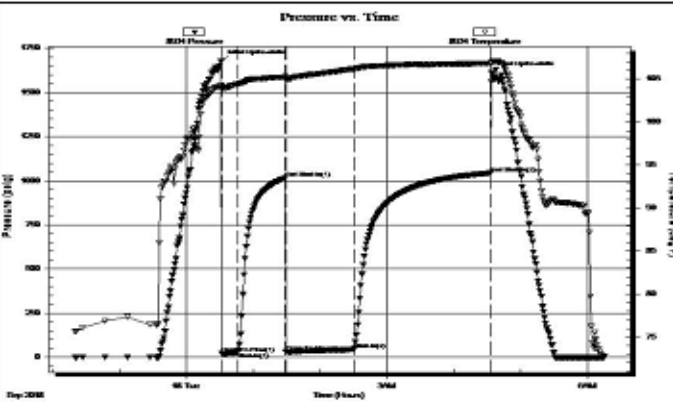
30-7s-19w Rooks KS
Griebel #1
 Job Ticket: 64751 **DST#: 1**
 Test Start: 2018.09.17 @ 22:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:31:45
 Tester: Spencer J. Staab
 Time Test Ended: 06:15:00
 Unit No: 84
 Interval: **3414.00 ft (KB) To 3443.00 ft (KB) (TVD)**
 Reference Elevations: 1971.00 ft (KB)
 Total Depth: 3443.00 ft (KB) (TVD)
 1963.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8934 **Outside**
 Press@RunDepth: 44.38 psig @ 3415.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.17 End Date: 2018.09.18 Last Calib.: 2018.09.18
 Start Time: 22:20:15 End Time: 06:15:00 Time On Btm: 2018.09.18 @ 00:31:15
 Time Off Btm: 2018.09.18 @ 04:34:00

TEST COMMENT: 10-IF-Weak; Built to 1"
 45-ISI-No Return
 60-FF-Weak; Built to 2&1/4"
 120-FSI-No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.10	104.32	Initial Hydro-static
1	20.47	103.86	Open To Flow (1)
15	26.38	104.43	Shut-In(1)
58	1014.52	105.26	End Shut-In(1)
58	32.59	104.86	Open To Flow (2)
120	44.38	106.18	Shut-In(2)
242	1043.16	106.85	End Shut-In(2)
243	1613.39	106.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	OSM 100%M	0.46

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

Trilobite Testing, Inc

Ref. No: 64751

Printed: 2018.09.18 @ 07:25:54

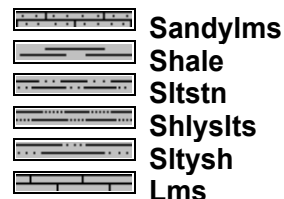
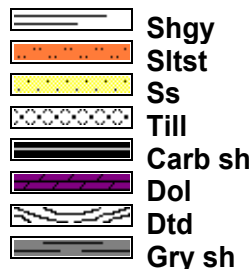
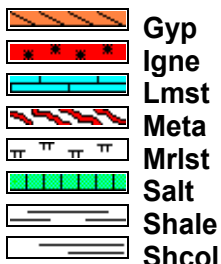
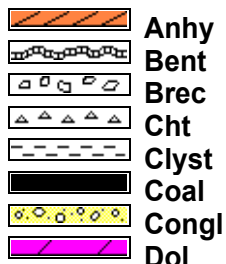
Remarks

After careful review of the sample log, electric logs, and DST reports, the decision was made to P&A the Griebel Trust #1.

Respectfully submitted,

Justin D. Carter
 Consulting Geologist

ROCK TYPES



ACCESSORIES

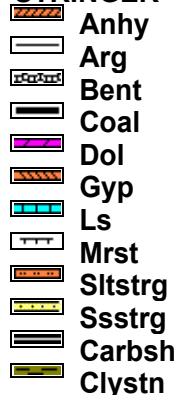
FOSSIL



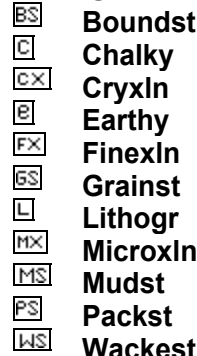
MINERAL



STRINGER

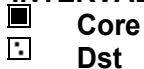


TEXTURE

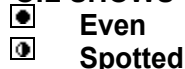


OTHER SYMBOLS

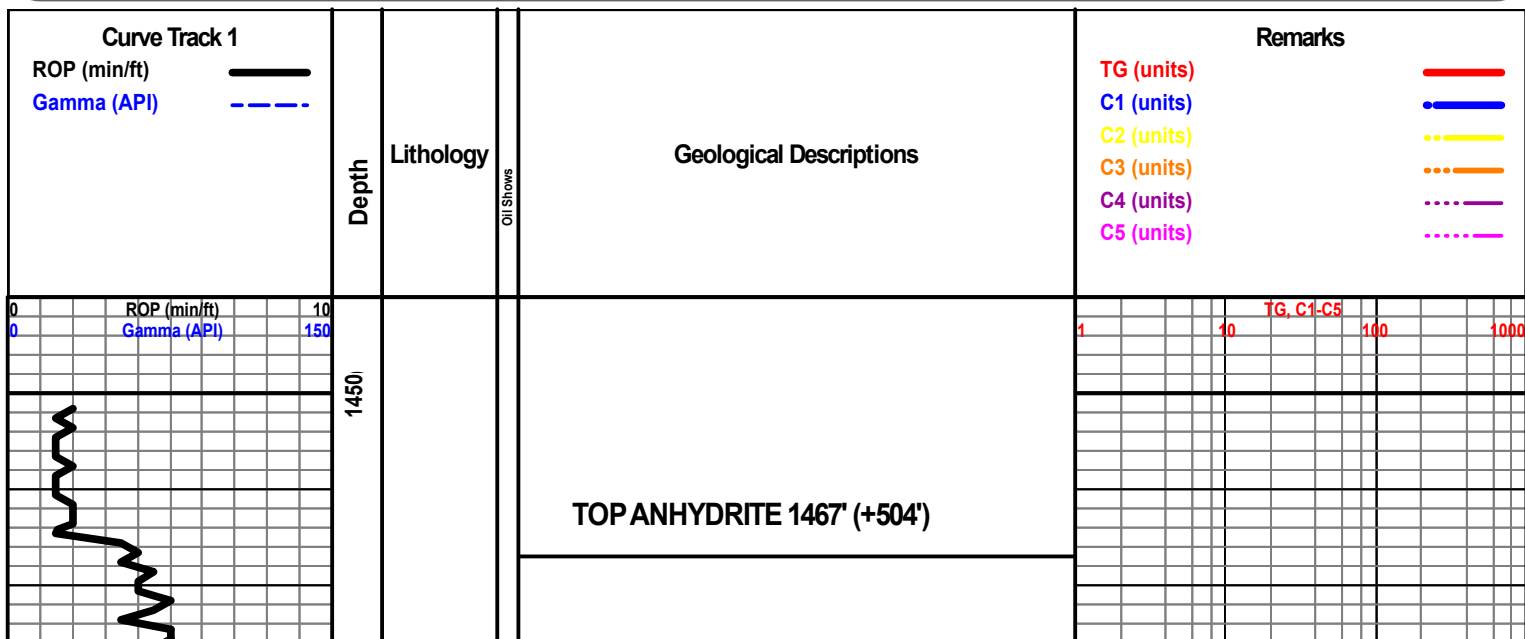
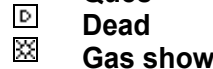
INTERVALS



OIL SHOWS



Ques



BASE ANHYDRITE 1504' (+467')

DEPTH BREAK

DISPLACE HOLE @2710'

TG, C1-C5

GEOLOGIST ON LOCATION 11:00 A.M. 09/15/18

T.O.H. FOR HOLE IN PIPE AT 2099'

3:00 A.M. 09/16/18

LS- CRM GY, MOTT IP, VF-XLN, RE-XLN MTRX IP TO TR SUCRO MTRX, IMBED SH IP, IMBED FOSS FRAGS IP, NO FLO, NO VIS POR

CN

SH- DK GY, FRM, BLKY, LMY

LS- GY TN, HRD DNS, VF-XLN, VF/CRYPTO-XLN, RE-XLN MTRX IP, IMBED FOSS FRAGS IP, TR GLAUC, NO FLO, NO VIS POR

CN

SH- GY, SFT TO FRM IP, LMY

LS- GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, IMBED FOSS FRAGS SCAT THRU, NO FLO, NO VIS POR

CN

TOPEKA 2931' (-960')

LS- BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, IMBED DK GY SH THRU, NO FLO, NO VIS POR

ROP (min/ft) 10
Gamma (API) 150

BIT #2
BAKER 7 7/8"
GX-20C
S/N: 5287465
3/16s
IN @262'

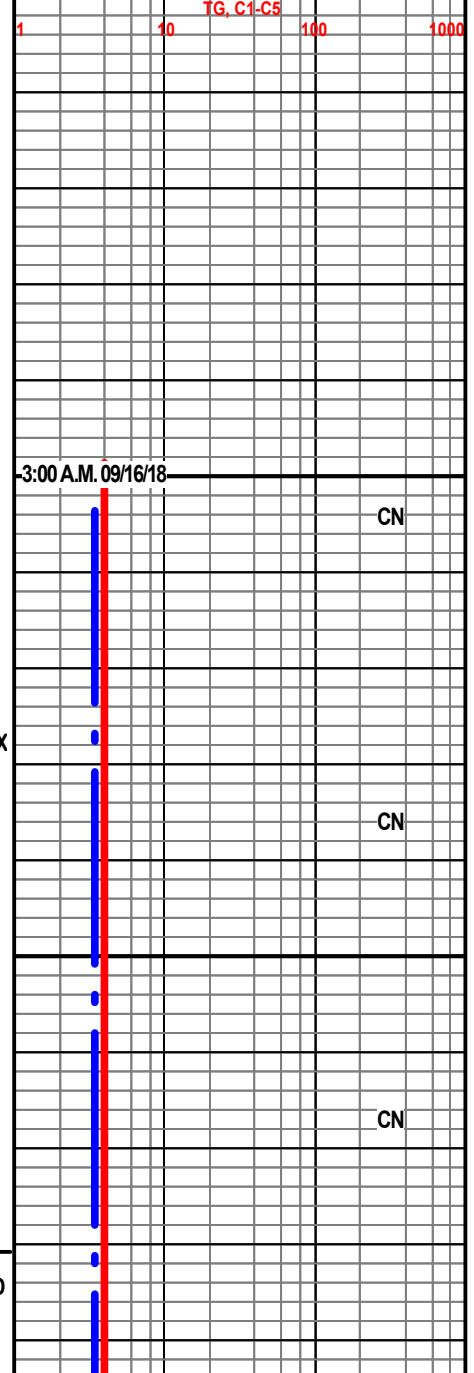
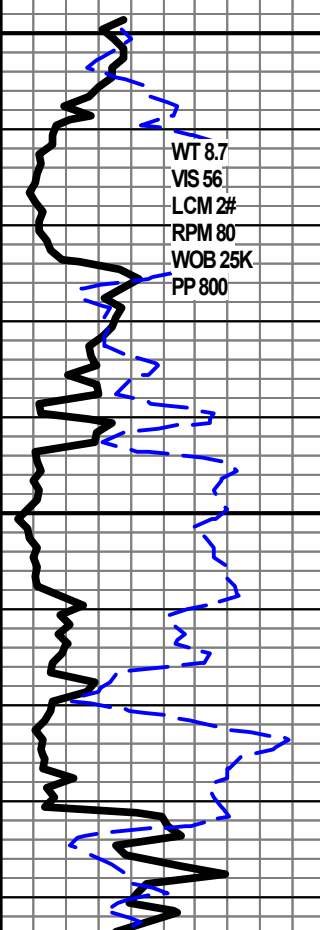
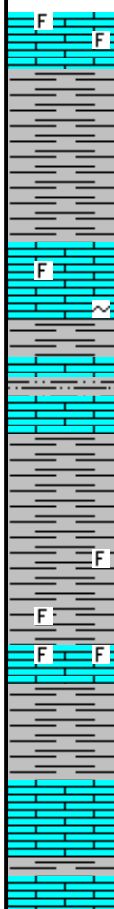
WT 8.7
VIS 56
LCM 2#
RPM 80
WOB 25K
PP 800

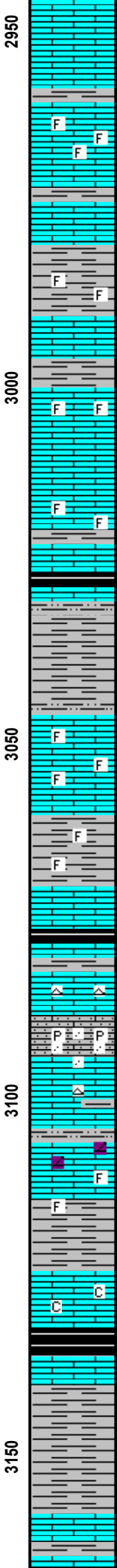
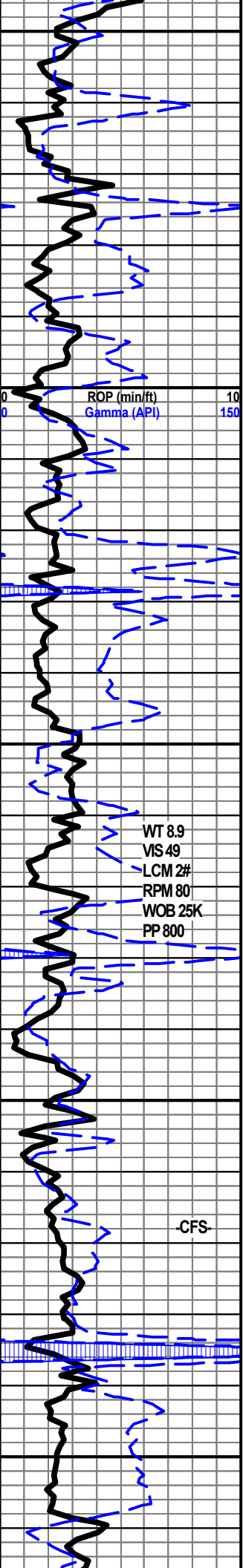
1500

2800

2850

2900





LS-LT GY, HRD, VF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, IMBED FOSS FRAGS IP, TR IMBED SH, NO FLO, NO VIS POR, TR LT TN STAIN, NO ODOR, NS

LS- CRM, BRITT, F/VF-XLN, SUCRO MTRX THRU, IMBED FOSS FRAGS SCAT THRU, NO FLO, TR INTER-XLN POR TO TR INTER-FOSS POR, NS

SH- DK GY, SFT, IMBED FOSS IP, SLI GMMY

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- CRM, BRITT, F/VF-XLN, SUB-SUCRO MTRX THRU, IMBED FOSS FRAGS IP, NO FLO, TR INTER-FOSS POR IP, NS

LS- CRM TN, HRD DNS, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX TO TR GRNST, IMBED FOSS FRAGS IP, NO FLO, TR INTER-XLN POR, NS

SH- LT GY, BRITT, TR F-GRN SLTST

LS- TN CRM, MOTT IP, VF-XLN, SUCRO MTRX THRU, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

SH- GRN GY, FRM TO SFT IP, LMY, TR FOSS FRAGS

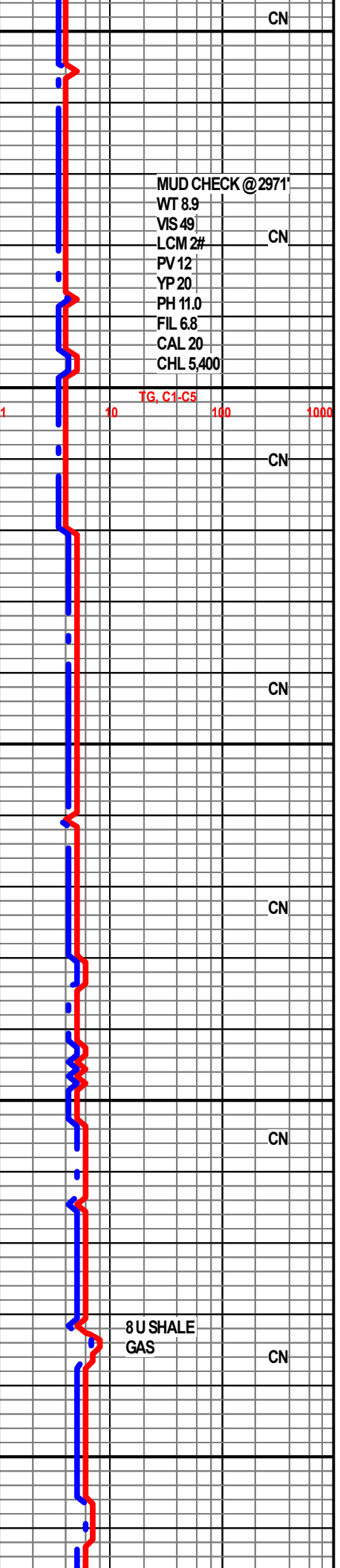
SNDY LS- WHT CLR, HRD, MD/VF-XLN, SUCRO MTRX THRU, PYR IP, YEL GLD FLO IN 20%, FR FLUSH TO FR BLU STRM CUT, FR INTER-XLN POR THRU, SCAT DEAD OIL STAIN TO LIVE OIL STAIN IP, NO ODOR, TR FREE OIL

LS- LT TN, HRD, F-XLN, SUCRO MTRX THRU, SLI DOLOMITZED, NO FLO, NO VIS CUT, PR/FR INTER-XLN POR THRU, NS

HEEBNER 3133' (-1162')

SH- DK GY, FRM, SLTY, BLKY

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR



CN

CN

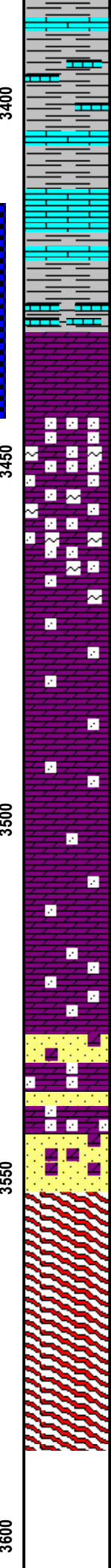
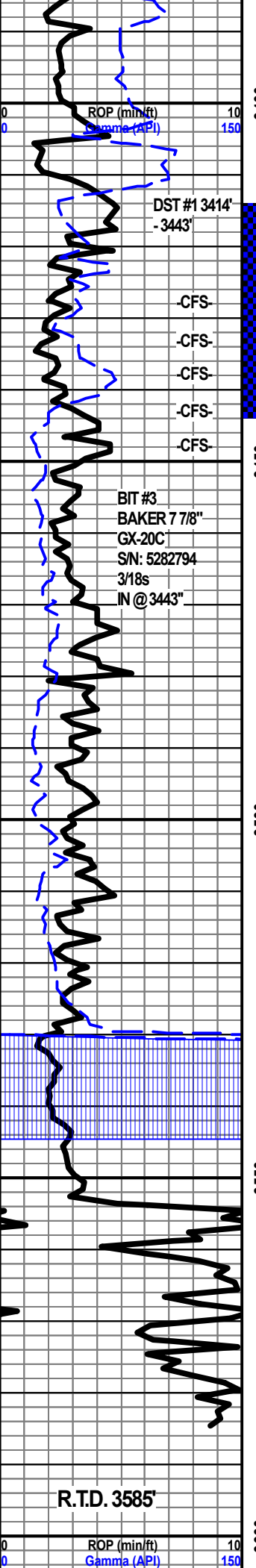
CN

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LS- BFF CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

SH- DK GY, FRM, BLKY, SLTY IP TO LMYIP, OOL LS IP

LS- BFF, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

SH- RD GRN GY, CONGL

ARBUCKLE 3433' (-1462')

DOLO- OFF WHT, HRD TO BRIT IP, FVF-XLN, SUCRO MTRX THRU, YEL GLD FLO IN 80%, FR/GD FLUSH TO FR FAST WHT STRM CUT, FR INTER-XLN POR THRU, LIVE BLK OIL STAIN IN 70%, FAINT ODOR, TR GAS BUBBLS

3440' DOLO- BFF, HRD, FVF-XLN, SUCRO MTRX THRU, TR BRIT YEL FLO, FR FLUSH TO FR BLU STRM CUT, PR/FR INTER-XLN POR THRU, BLK LIVE STAIN IN 40%, TR GAS BUBBLS, TR FREE OIL, FAINT ODOR

3446' DOLO- TN CRM, HRD, FVF-XLN, SUCRO MTRX THRU, YEL GLD FLO IN 20%, TR SNDY DOLO, LOOSE CORSE RND SS GRNS IN TRAY, FR FLUSH TO FR BLU STRM CUT, PR/FR INTER-XLN POR THRU, LIVE BLK OIL STAIN IP, NO ODOR, TR FREE OIL

SNDY DOLO- CRM GRY, HRD, F-XLN, SUCRO MTRX THRU, FRSTY QTZ GRNS SCAT THRU, TR GLAUC, NO FLO, NO VIS CUT, TR BLK DEAD STAIN, NO ODOR, NSFO

DOLO- ORNG BFF, HRD, MD/F-XLN, SUCRO MTRX THRU, TR SNDY DOLO, TR BLK DEAD STAIN, NO FLO, NO CUT, FR INTER-XLN POR THRU, NO ODOR

DOLO- ORNGE LT CRM, HRD DNS, CORSE/F-XLN, SUCRO MTRX THRU, SNDY IP, GLAUC IP, NO FLO, NO VIS CUT, FR/GD INTER-XLN POR THRU, TR DEAD BLK STAIN, NO ODOR

DOLO- TN CRM, HRD, CORSE/F-XLN, SUCRO MTRX THRU, TR GLAUC, TR SNDY DOLO, TR YEL FLO, FR FLUSH TO FR BLU STRM CUT, FR INTER-XLN POR THRU, BLK DEAD OIL SCAT THRU, NO ODOR, TR FREE OIL

DOLO- WHT, HRD, MD/F-XLN, SUCRO MTRX THRU, TR PYR, TR GLAUC, TR YEL FLO, FAINT FLUSH TO PR SLO BLU STRM CUT, FR INTER-XLN POR THRU, BLK DEAD STAIN IP, NO ODOR

SNDY DOLO- CRM CLR, HRD, MD/F-XLN, SUCRO MTR THRU, CLR MED QTZ GRN SCAT THRU, NO FLO, NO VIS CUT, TR BLK DEAD STAIN, FR INTER-XLN POR THRU, NO ODOR

SS- WHT, TT, F-GRN, GD SRT, SUB-ANG GRNS, SLI SILI CMNT, TR SFT WHT CHLK, NO FLO, NO VIS CUT, FR INTER-GRN POR, NS

PRECAMBRIAN 3553' (-1582')

QTZITE- RDISH CLR, HRD DNS, CRYPTO-XLN, MICABLK SH IP, FRAC POR, NS

QTZITE- RDISH CLR, HRD DNS, CRYPTO-XLN, A/A

STRAP @ TD 0.74' LONG TO BOARD

