KOLAR Document ID: 1482254

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 # 5004
Name: Vincent Oil Corporation
Address 1: 200 W DOUGLAS AVE #725
Address 2:
City: WICHITA State: KS Zip: 67202 + 3023
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Dudgeon
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 #:

7/19/2019 Spud Date or Recompletion Date
7/28/2019 Date Reached TD
7/29/2019 Completion Date or Recompletion Date

API No.: 15-083-21971-00-00
Spot Description:
NE - NE - SE - SE Sec. 17 Twp. 23 S. R. 24 ☐ East ☑ West
1290 Feet from ☐ North / ☑ South Line of Section
185 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Hodgeman
Lease Name: CONNER Well #: 1-17
Field Name:
Producing Formation: None - D&A
Elevation: Ground: 2383 Kelly Bushing: 2391
Total Vertical Depth: 4725 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 735 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: 22000 ppm Fluid volume: 1200 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: H-D Oilfield Services, Inc
Lease Name: Imel 1-SWD License #: 32970
Quarter NE Sec. 31 Twp. 23 S. R. 22 ☐ East ☑ West
County: Hodgeman Permit #: D31295

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: 11/13/2019
☐ **Confidential Release Date:** 11/12/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 11/13/2019

Operator Name: Vincent Oil Corporation Lease Name: CONNER Well #: 1-17

Sec. 17 Twp. 23 S. R. 24 ☐ East ☑ West County: Hodgeman

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction
Density-Neutron

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	735	MDC & Common	300	(2% Gel, 3% CC & 1/4# Flo-seal/sx)

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	CONNER 1-17
Doc ID	1482254

Tops

Name	Top	Datum
Anhydrite	1593	+798
Heebner Shale	3945	(-1554)
Brown Limestone	4019	(-1628)
Lansing	4030	(-1639)
Stark Shale	4298	(-1907)
Base Kansas City	4410	(-2019)
Pawnee	4495	(-2104)
Fort Scott	4531	(-2140)
Cherokee Shale	4550	(-2159)
Mississippian	4668	(-2277)
RTD	4725	(-2334)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	CONNER 1-17
Doc ID	1482254

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	735	MDC & Common	300	(2% Gel, 3% CC & 1/4# Flo-seal/sx)

QUALITY WELL SERVICE, INC.

7171

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date 7-20-19	Sec. 17	Twp. 22S	Range 24W	County Hodgeman	State Ks	On Location	Finish

Lease Conner Well No. 1-17 Location Jetmore, Ks 4W to 2N RD 4S

Contractor Duke Drlg Rig #2

Type Job Surface

Hole Size 12¼ T.D. 737'

Csg. 8⅝ 23# Depth 735'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 40 Shoe Joint 40

Meas Line Displace 44.43

Owner Winfo

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Vincent O.L Corporation

Street

City State

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

Cement Amount Ordered 150sx mnc 3%cc ½# PS
150sx Common 2%gel 3%cc ½# PS

EQUIPMENT

Pumptrk 8	No.	TJ
Bulktrk 10	No.	Tom
Bulktrk 11	No.	Jake
Pickup	No.	

JOB SERVICES & REMARKS

Ran 18 jts 8⅝ 23# CSG SET 735'
CSG ON Bottom Hook up to CSG &
Break circ W/Rig
START Pumping H2o
START MIX & Pmp 150sx mnc @ 12#/gal
START MIX & Pmp 150sx Common @ 14.8#/gal
SHUT Down Release 8⅝ Wooden Plug
START Disp
44.5 total
Close Valve on CSG 450#
Good circ thru Job
Circ CMT TO Pit

Thank You
Please Call Again
Tom Jake

Signature

Common	150sx
Poz. Mix	150sx
Gel.	600 lbs
Calcium	946 lbs
Hulls	
Salt	
Flowseal	150 lbs
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	377
Mileage	75/10000

FLOAT EQUIPMENT

Guide ~~Shoe~~	BAFFLE PLATE 1 EA
Centralizer	WOODEN PLUG 1 EA
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	SERVICE Sup
	LMV 75
Pumptrk Charge	SURFACE
Mileage	225
Tax	
Discount	
Total Charge	

QUALITY WELL SERVICE, INC.

7188

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-29-[illegible]	17	23S	24W	Hodgeman	KS	8:30 A.M.	12:20 P.M.

Lease Conner | Well No. 1-17 | Location Jetmore 11 [illegible] 4W 4S W into

Contractor Duke Drlg Rig # 2 | Owner

Type Job PTA

To Quality Well Service, Inc.
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 7 7/8 | T.D.

Csg. | Depth | Charge To Vincent Oil Corp

Tbg. Size | Depth | Street

Tool | Depth | City | State

Cement Left in Csg. | Shoe Joint | The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line | Displace | Cement Amount Ordered 150sx 60/40

EQUIPMENT

	No.		
Pumptrk	No.	8	75
Bulktrk	No.	15	Jake
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Rat Hole 30sx
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
1st Plug 1620' 50sx
Pump H2O
Mix + Pump 50sx 60/40 4% Gel 1/4" PS
Disp H2O
Disp MD
2nd Plug 780 50sx
[illegible] Pump H2O
Mix Pump 50sx 60/40 4% Gel 1/4" PS
Disp H2O
3rd 60' 20'
Mix Pump 20s 60/40 4% Gel 1/4" PS

Thank You
Please Call [illegible]
[illegible]

4% Gel 1/4" PS	
Common 90	
Poz. Mix 60	
Gel. 516 lb.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling 155	
Mileage 70	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Service Supv 1 EA	
Pumptrk Charge PTA	
Mileage 150	
Tax	
Discount	

DRILL STEM TEST REPORT

Vincent Oil Corp

200 W Douglas Ave 725
Wichita KS 67202

ATTN: Tom Dudgeon

23-24-17 Hodgemn Ks

Conner 1-17

Job Ticket: 65245 **DST#: 1**

Test Start: 2019.07.28 @ 05:07:56

GENERAL INFORMATION:

Formation: **B/ Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:22:26
Time Test Ended: 12:09:56

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4574.00 ft (KB) To 4663.00 ft (KB) (TVD)
Total Depth: 4663.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

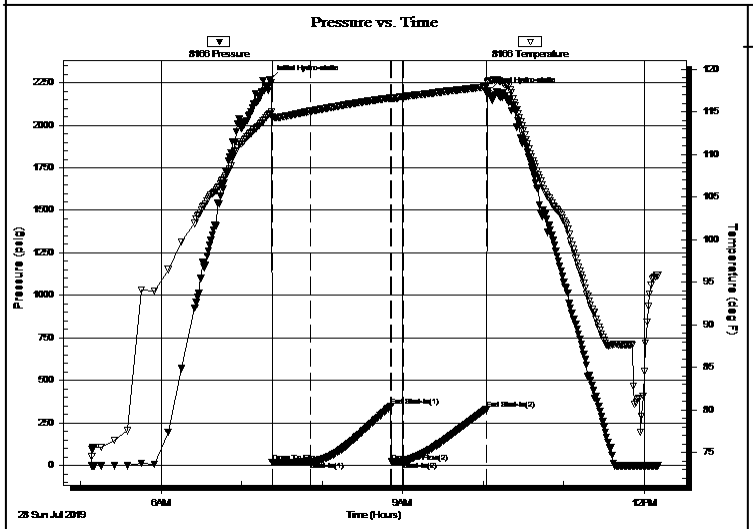
Reference Elevations: 2391.00 ft (KB)
2382.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 24.44 psig @ 4575.00 ft (KB)
Start Date: 2019.07.28 End Date: 2019.07.28
Start Time: 05:08:01 End Time: 12:09:55

Capacity: 8000.00 psig
Last Calib.: 2019.07.28
Time On Btm: 2019.07.28 @ 07:20:56
Time Off Btm: 2019.07.28 @ 10:03:26

TEST COMMENT: IF: 1/4 blow died in 10 mins.
IS: No return.
FF: No blow . Flushed tool no blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.44	114.82	Initial Hydro-static
2	19.80	114.33	Open To Flow (1)
30	21.72	115.07	Shut-In(1)
90	347.79	116.64	End Shut-In(1)
91	21.32	116.53	Open To Flow (2)
100	24.44	116.82	Shut-In(2)
161	328.34	117.93	End Shut-In(2)
163	2200.05	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corp

200 W Douglas Ave 725
Wichita KS 67202

ATTN: Tom Dudgeon

23-24-17 Hodgemn Ks

Conner 1-17

Job Ticket: 65245 **DST#: 1**

Test Start: 2019.07.28 @ 05:07:56

GENERAL INFORMATION:

Formation: **B/ Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:22:26
Time Test Ended: 12:09:56

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4574.00 ft (KB) To 4663.00 ft (KB) (TVD)
Total Depth: 4663.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

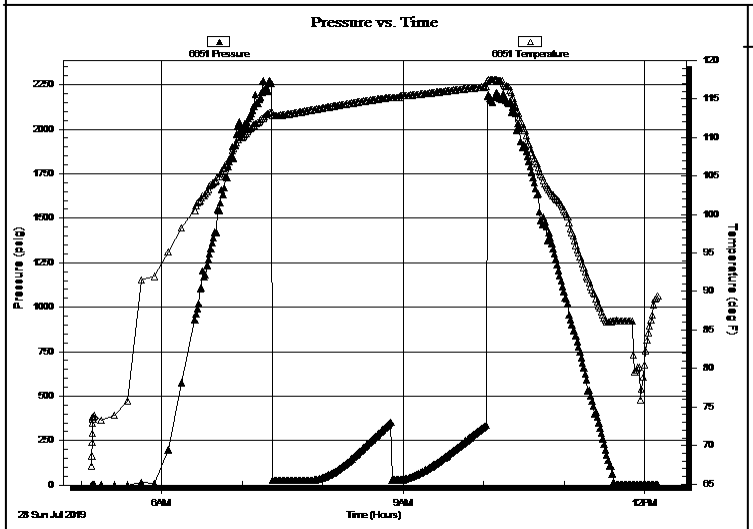
Reference Elevations: 2391.00 ft (KB)
2382.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 4575.00 ft (KB)
Start Date: 2019.07.28 End Date: 2019.07.28
Start Time: 05:07:43 End Time: 12:09:37

Capacity: 8000.00 psig
Last Calib.: 2019.07.28
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4 blow died in 10 mins.
IS: No return.
FF: No blow . Flushed tool no blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp

200 W Douglas Ave 725
Wichita KS 67202

ATTN: Tom Dudgeon

23-24-17 Hodgemn Ks

Conner 1-17

Job Ticket: 65245 **DST#: 1**

Test Start: 2019.07.28 @ 05:07:56

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

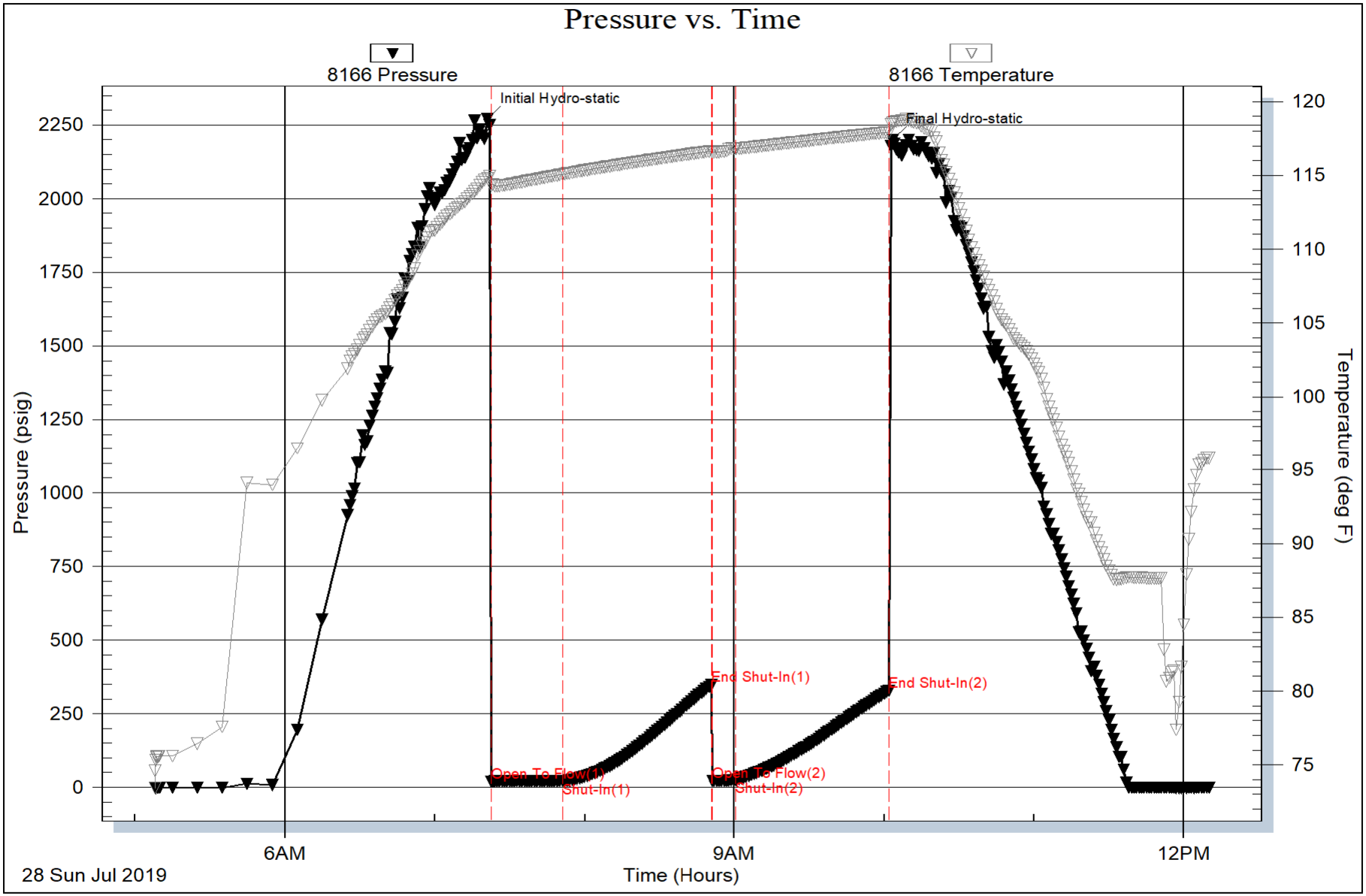
Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

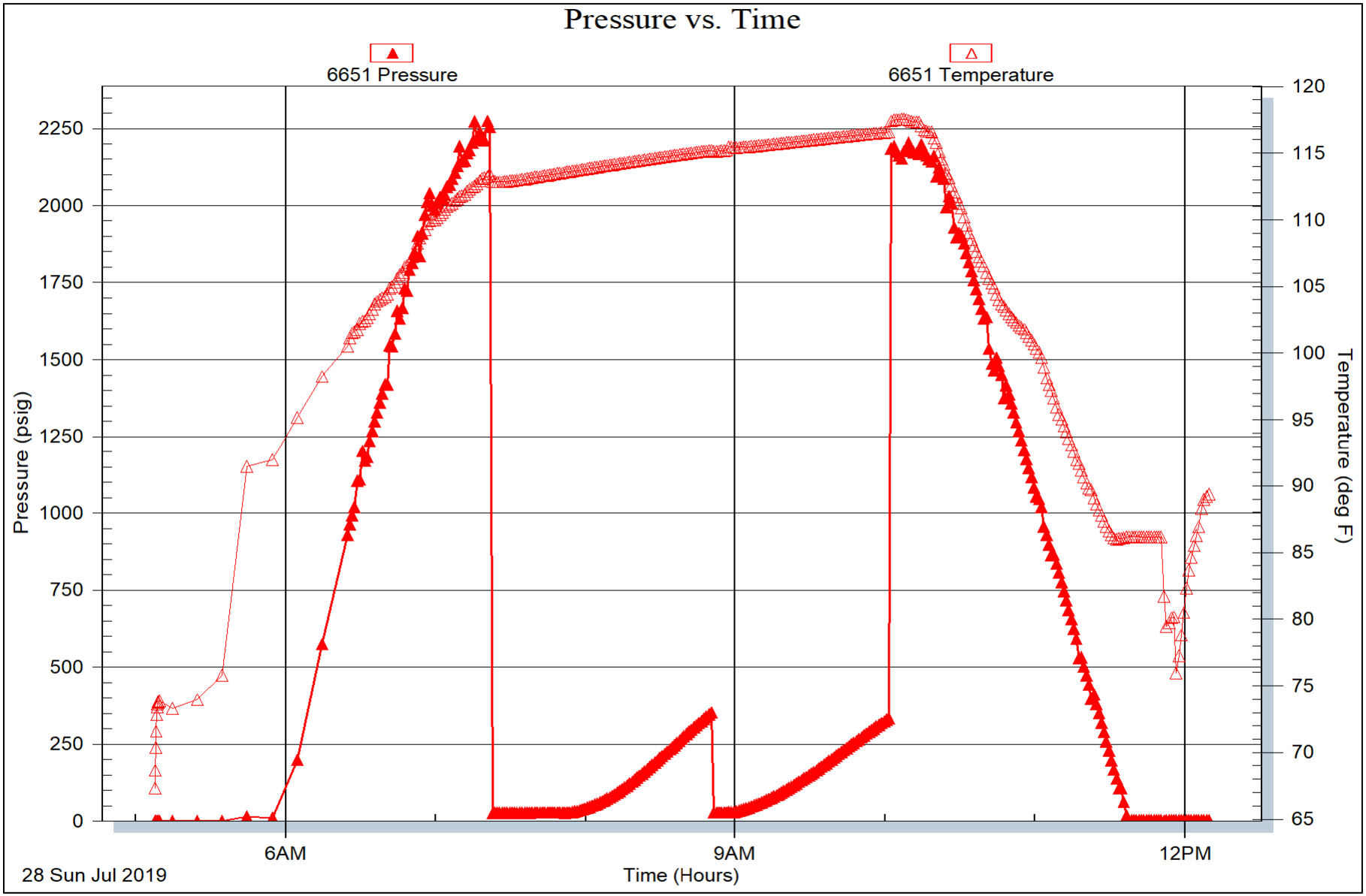
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166 **Outside** Vincent Oil Corp Conner 1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65245 Printed: 2019.07.28 @ 13:50:44

Serial #: 6651 **Inside** Vincent Oil Corp Conner 1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65245 Printed: 2019.07.28 @ 13:50:44

Scale 1:240 Imperial

Well Name:	CONNER 1-17		
Surface Location:	NE-NE-SE-SE 17-23S-24W		
Bottom Location:			
API:	15-083-21971-00-00		
License Number:	5004		
Spud Date:	7/19/2019	Time:	6:45 PM
Region:			
Drilling Completed:	7/28/2019	Time:	8:23 PM
Surface Coordinates:	1290' FSL & 185' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2383.00ft		
K.B. Elevation:	2391.00ft		
Logged Interval:	3700.00ft	To:	4725.00ft
Total Depth:	4725.00ft		
Formation:	MISSISSIPPIAN		
Drilling Fluid Type:	Chemical Mud		

OPERATOR

Company:	Vincent Oil Corporation		
Address:	200 W Douglas Ave Ste 725 Wichita, KS 67202		
Contact Geologist:	Dick Jordan		
Contact Phone Nbr:	316.262.3573		
Well Name:	CONNER 1-17		
Location:	NE-NE-SE-SE 17-23S-24W		
API:	15-083-21971-00-00		
Pool:	WILDCAT	Field:	WILDCAT
State:	KANSAS	Country:	USA

CONTRACTOR

Contractor:	Duke Drilling Co., Inc.		
Rig #:	2		
Rig Type:	Mud Rotary		
Spud Date:	7/19/2019	Time:	6:45 PM
TD Date:	7/28/2019	Time:	8:23 PM
Rig Release:	7/29/2019	Time:	12:00 PM

LOGGED BY

Company:	Vincent Oil Corporation		
Address:			
Phone Nbr:			
Logged By:	Geologist	Name:	Tom Dudgeon

SURFACE CO-ORDINATES

Well Type:	Vertical		

Well Type:	Vertical
Longitude:	-99.9728158
Latitude:	38.0478177
N/S Co-ord:	1290' FSL
E/W Co-ord:	185' FEL

ELEVATIONS

K.B. Elevation:	2391.00ft	Ground Elevation:	2383.00ft
K.B. to Ground:	8.00ft		

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	4725.00	4727.00
LTD	4727.00	4727.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	7/24/2019	3450.00ft	4725.00ft

OPEN HOLE LOGS

Logging Company:	ELI		
Logging Engineer:	Gus Pfanenstiel		
Truck #:	1523		
Logging Date:	7/29/2019	Time Spent:	2
# Logs Run:	2	# Logs Run Successful:	2

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	4727.00ft	2.00		1
Den/Neu Den/PI	3700.00ft	4727.00ft	2.00		1

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
7/23/2019	0.00ft	47227.00ft	Logs Run Successfully

CASING SUMMARY

	Surface	Intermediate	Main
Bit Size	12.25 in		7.88 in
Hole Size	12.25 in		7.88 in

	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	724' ft	23#	18	7/21/2019 3:30 AM
Int Casing					
Prod Casing					

CASING SEQUENCE

Type	Hole Size	Casing Size	At
Sruface Casing	12.25 in	8.63	0.00 ft

NOTES

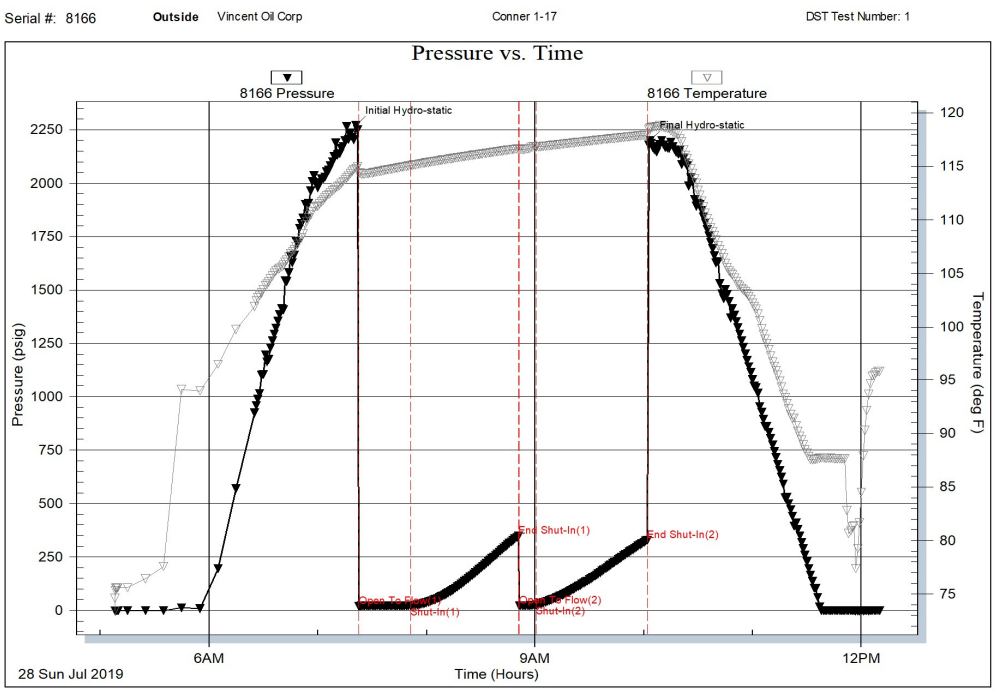
7/19/2019 Moved in rotary tools and rigged up. Spud well in at 6:45 PM 7/19/2019. Drilling 12 ¼" surface hole
7/20/2019 At 399' Drilling surface hole. Drilled 12 ¼" surface hole to 737', CTCH, ran wiper trip, TOH with bit, ran 18 joints new 8 5/8", 23# surface casing. Set casing at 724' and cemented with 150 sx MDC (3%CC & ½# Flow-seal/sx) and 150 sx Common (2% Gel, 3% CC & ½# Flo-seal/sx). Cement did circulate. Plug down at 5:30 PM 7/20/2019. Drilled plug at 3:30 AM 7/21/2019.
7/21/2019 At 845', drilling ahead
7/22/2019 At 2070', drilling ahead
7/23/2019 At 2820', drilling ahead
7/24/2019 At 3345', drilling ahead, displaced mud system at 3450'
7/25/2019 At 3815', drilling ahead
7/26/2019 At 4220', drilling ahead
7/27/2019 At 4510', circulating following short trip, drill ahead to 4663', tripped out for DST #1, pipe strap at 4663' was 4.92' short to the board. DST #1 4574' to 4663' (Conglomerate Sand)
7/28/2019 At 4663', DST #1 1 4574' to 4663' in progress
DST #1 4574' to 4668' (Conglomerate Sand)

DST #1 4574' to 4663' (Conglomerate Sand)
30"-60"-10"-60"
1st Open: Weak Blow
2nd Open: No Blow, Flushed tool, No Blow
Recovered
5' Mud
IFP 19 -21# FFP 21 - 24#
ISIP 347# FSIP 326#
BHT 117° F
Drilled ahead to RTD of 4725'. TOOH for logs, Ran Dual Induction and Porosity log. Found LTD at 4727'.
7/29/2019 At 4725' , TOOH, laying down drill collars and drill pipe , loaded wellbore with heavy mud, TIH with plugging stands. Set cement plugs through drill pipe as follows: 50 sx at 1620', 50 sx at 770' and 20 sx at 60' to surface. Plugged the rathole with 30 sx. Plug down at 12:00 PM 7/29/2019. Jetted and cleaned pits. Released rig.

REFERENCE WELLS:

A	B
Malone Exploration	W.E. Carl
Clutter #1	Berger #1-17
NW-SE SW-NW	
Sec. 16-23S-24W	Sec. 17-23-24W

	SAMPLE TOP REF.			WELL ELECTRIC LOG REF. WELL		
		A	B		A	B
Anhydrite	1568 (+823)	+24		1593 (+798)	+2	
Heebner Shale	3941 (-1550)	-7	-11	3945 (-1554)	-11	-16
Brown Limestone	4017 (-1626)	-8	-15	4019 (-1628)	-10	-17
Lansing	4029 (-1638)	-10	-18	4030 (-1639)	-11	-19
Stark Shale	4296 (-1905)	+3	-13	4298 (-1907)	+1	-15
Base Kansas City	4412 (-2021)	-3	-19	4410 (-2019)	-1	-21
Marmaton	4432 (-2041)	-3	-7	4434 (-2043)	-5	-9
Pawnee	4493 (-2102)	-2	-12	4495 (-2104)	-4	-14
Fort Scott	4528 (-2137)	-3	-8	4531 (-2140)	-6	-11
Cherokee Shale	4547 (-2156)	-2	-9	4550 (-2159)	-5	-12
Base Cherokee Lime	4636 (-2245)	Flt	-11	4640 (-2249)	-4	-14
Mississippian	4664 (-2273)	+9	-2	4668 (-2277)	+5	-6
RTD / LTD	4725 (-2334)			4727 (-2336)		



Trilobite Testing, Inc Ref. No: 65245 Printed: 2019.07.28 @ 13:50:44

ROCK TYPES

Coal, Dolsec, Lmst fw<7, Lmst fw7>, Shgy, Shblck, Shcol, Cht vari

ACCESSORIES

FOSSIL
- F Fossils < 20%
- ϕ Oolite

STRINGER
- Sandstone

OTHER SYMBOLS

POROSITY TYPE
- × Intercrystalline
- ϕ Interoolitic
- V Vuggy
- P Pinpoint
- Moldic
- O Organic
- F Fracture
- e Earthy
- ⊡ Fenestral

OIL SHOWS
- ● Even Stn
- ◐ Spotted Stn 50 - 75 %
- ◑ Spotted Stn 25 - 50 %
- ◒ Spotted Stn 1 - 25 %
- ○ Questionable Stn
- D Dead Oil Stn
- ■ Fluorescence

INTERVALS
- ■ Core
- DST

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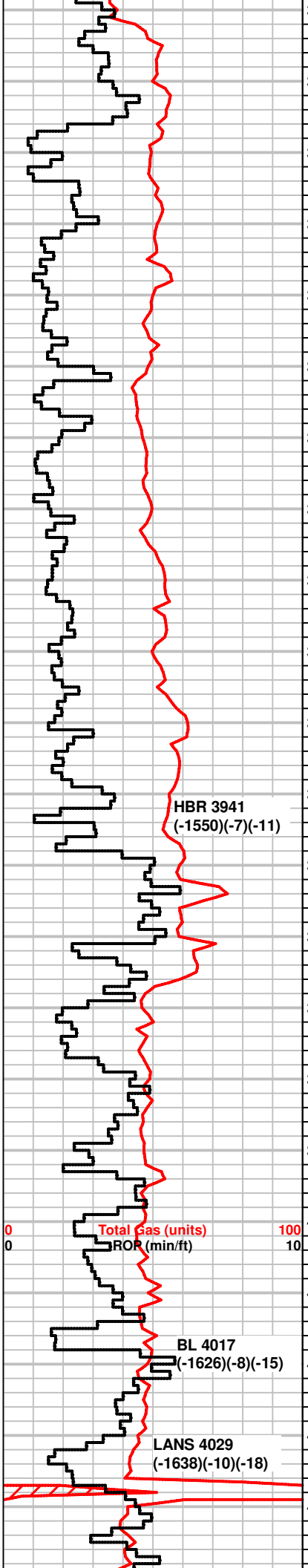
Curve Track #01
Total Gas (units)
ROP (min/ft)
1:240 Imperial

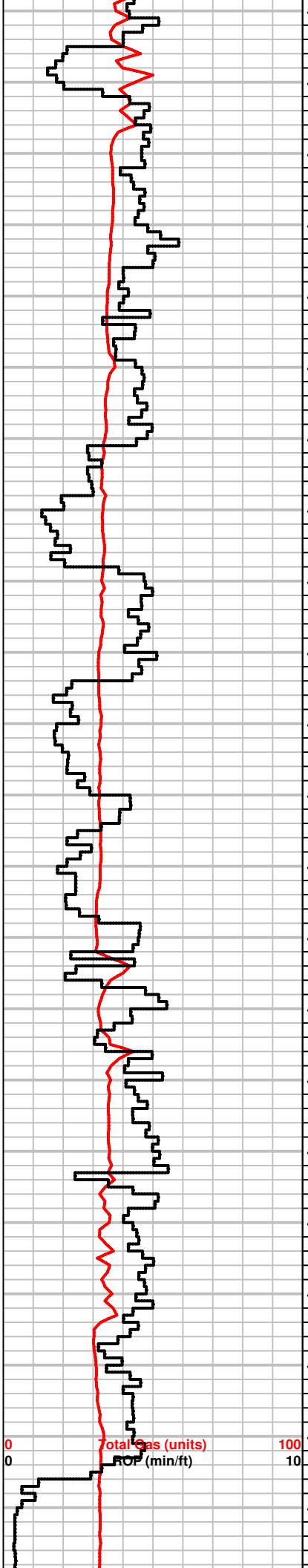
Cored Interval / DST Interval	Depth | Intervals	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
0 Total Gas (units) 100 0 ROP (min/ft) 10	3710					
	3720					
	3730					
	3740					
0 Total Gas (units) 100 0 ROP (min/ft) 10	3750				MS, off wht to crm, gray, mottled, hard to firm, silty to sandy pcs, SH, sandy, green, gray, red	
	3760				MS, crm to off wht, f-xln, gritty to earthy txt, scatt fossils, SH, blk to green, scatt pyrite	
	3770				MS-WS, shaly in pt., crm to off wht, mottled, gritty to f-xln, sandy SH, gray, sandy, Chert, wht	
	3780				MS, crm, off wht, mic-xln to f-xln, dense, fossils scatt(crinoids), Chert, wht	
	3790				MS, crm to tan, mix-xln, dense, rare fossils, Chert, wht, fossils	
	3800				MS-WS, crm to gray, sandy, mic-xln to f-xln, shaly SH, gray to green, silty, pyrite flakes, Chert, wht	
	3810				MS-WS, A.A.	
	3820				Influx WS, of wht to crm, f-xln to m-xln, sub oolitic/fossilif., dense to firm, rare Chert, wht	**Mud Properties** **Vis 51** **Wt 9.1**

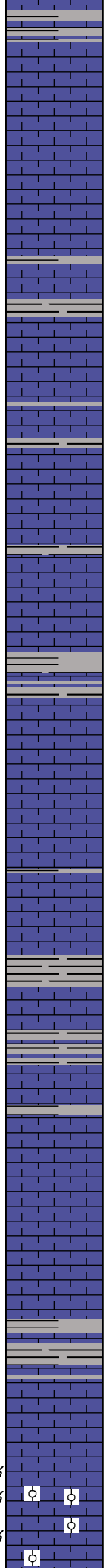


3830		SH, blk, to gray, reds, waxy in pt., sandy pcs mostly, MS, crm to tan, f-xln, fossils, chalky in pt., firm, Chert, wht
3840		SH, blk to gray, green, MS, A.A.
3850		WS-MS, brn to crm, mottled, f-xln to m-xln, fossils, calcite veins, fn-oomoldic pcs rare, SH, grays
3860		MS, crm to tan, f-xln to chalky, mic to f-xln, dense, fossils scatt, sandy in pt, SH, fresh, blk, green
3870		SH, blk to green, MS, A.A.
3880		MS, crm to tan, chalky to f-xln pcs, fossils scatt, sandy in pt., Chert, wht, SH, gray to green
3890		
3900		MS-WS, crm to tan, f-xln to m-xln, gritty txt, micro oolitic, firm to friable, SH, blk to gray
3910		SH, gray to green, waxy to silty pcs, MS, tan to crm, f-xln, scatt fossils, gritty in pt.,
3920		SH, blk to grays, pyrite, some pcs carb.
3930		some SH, gray, red/green, silty MS, tan to crm, f-xln, shaly to silty in pt., scatt Chert, wht, fossils
3940		influx SH, blk, carb, A.A.
3950	V	MS-WS, tan to crm, f-xln to m-xln, fossilif., chalky pcs, dense, some Chert, wht, rare vuggy por.
3960		SH, brn to grays, MS brn to tan, crm, mottled pcs, f-gr oolitic to gritty txt, fossilif pcs, SH, gray, sandy to silty
3970		inc in MS, tan, fossils, SH, grays
3980		MS, crm to lt. tan, f-xln, chalky to f-xln, dense to friable pcs, Chert, wht
3990		MS, crm to lt. gray, f-xln, fossils, dense, Cherty, SH, grays, pyrite, silty, some carb.
4000	P	MS, crm to tan, brn, mic-xln to f-xln, dense, some chalky, fossils, SH, gray to gren, silty, rare pp por.
4010		MS, tan to brn, f-xln, dense to friable, scatt fossils SH, grays, blk, green, Chert, wht
4020	P	MS, crm to lt. gray, tan, shaly pcs, f-xln, fossils, rare dead stn, no cut, no odor, pp por.
4030		MS-WS, gray to crm, mottled pcs, f to m-xln, dense, ooltitc to fossilif., scatt Chert, wht, some SH, gray to green
4040	V	Influx MS, off wht to crm, f-xln to sucrosic txt, gritty, dense, sub oolitic pcs, Chert, crm to off wht, dull fluor, vuggy por.

Wt 9.1
LCM 1#
Filt 8.0
Cl 4,000
pH 11.0

Testing Gas System





4050 MS, A.A., Chert, wht, fossils
SH, gray to green, some fossils

4060 MS, crm to tan, f-xln to chalky, soft, some dense, Chert, wht to gray, scatt gray SH

4070 MS, crm, gritty to sucrosic txt, chalky in pt., firm, Chert, wht, SH, dk. gray

4080 MS-WS, crm to tan, f-xln to mic-xln, dense, brittle, lesser SH, grays, Chert, wht, fossils

4090 SH, blk to gray, green, silty to limey in pt., MS, crm, f-xln, hard to brittle, scatt fossils, shaly in pt., Chert, wht

4100 MS, crm to brn, f-xln, dense, fossils scatt, hard, Chert, wht to brn, some SH, gray to green

4110 MS, crm to tan, f-xln, f-gr oolitic pcs scatt, dense, hard, NS
SH, greens to gray, pyrite

4120 MS, crm to lt. gray, f-xln to gritty txt, dense, Chert, wht

4130 MS, crm to tan, f-xln, chalky, most dense, calcite, CHert, smoky, white, some SH, green, gray, scatt carb pcs.

4140 MS, crm to tan, f-xln, some chalky, most dense A.A., scatt SH, grays to green

4150 SH, brn to dk. gray, carb in pt., MS off wht to tan, f-xln, dense, fossilif., Chert, wht, NS

4160 MS, crm to tan, f-xln, soft/friable, chalky in pt. NS
SH, platy pcs, gray to green

4170 MS, crm, gritty to m-xln, chalky, firm, some dense, scatt fossils, sandy pcs scatt, Chert, wht
SH, grays, green, silty

4180 SH, green to gray, rare blk, carb., MS, crm to tan, A.A., some lt. gray, to brn, shaly in pt., NS

4190 SH, blk to brn, gray, sli. carb. hard
MS, crm to brn, f-xln to earthy, chalky in pt., silty, some fossil frgmts, NS, Chert, wht fossils.

4200 MS-WS, crm to lt. brn, f-xln to mic-xln, dense, m-gr oolitic pcs, rare SH, blk, green

4210 MS, off wht to crm, mix-xln to earthy in pt., chalky, scatt ooids, dense, Chert, wht, SH, A.A.

4220 MS, brn to crm, mic-xln, dense, f-xln, hard, scatt fossil frgmts, dull fluor, NS

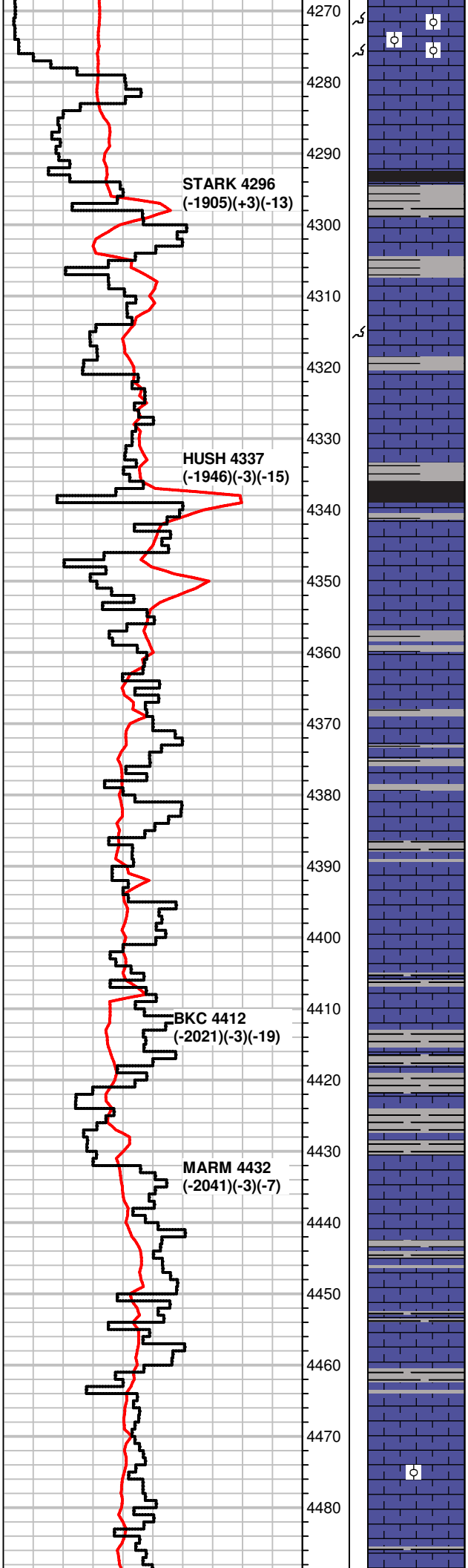
4230 MS-WS, crm to brn, f-xln to earthy, gritty pcs, sub oolitic, Chert, opaque to wht

4240 SH, dk. gray to green, MS, crm to off wht, tan, chalky to f-xln, soft to dense pcs, Chert, wht, NS

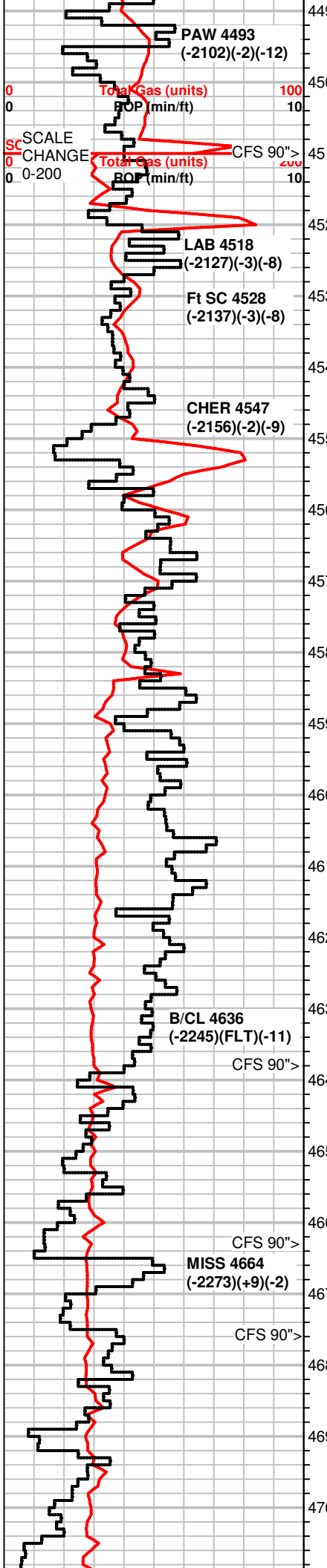
4250 WS-MS, gray to brn, f to m-xln, m-gr oolitic to fossilif pcs, firm to brittle, faint odor in bag, Chert, wht, NS

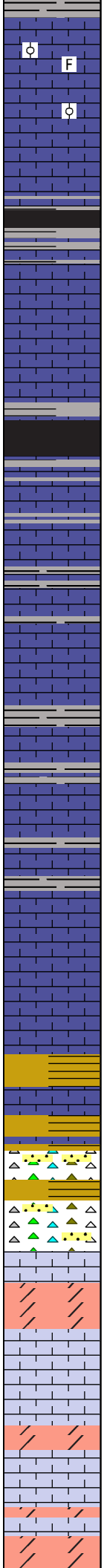
4260 MS-WS, A.A., crm to tan, f-xln, fossilif, oolitic/oomoldic por.

Mud Properties
Vis 48
Wt 9.5
LCM 1#
Filt 10.0
Cl 5,000
pH 10.0

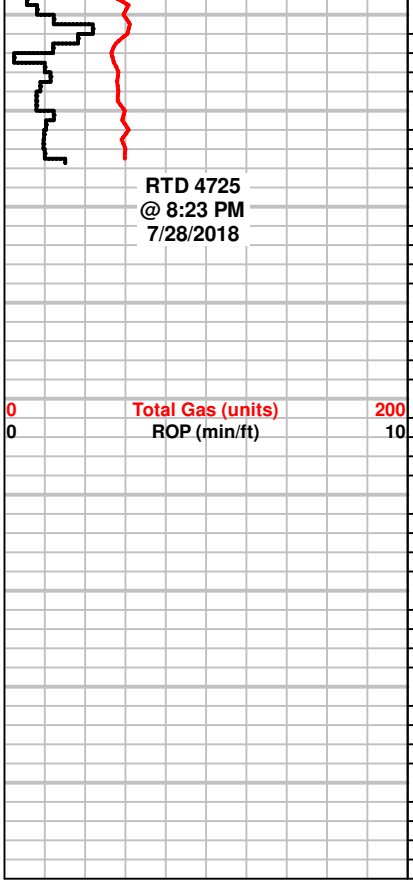


MS-WS, crm to tan, oolitic/oomoldic A.A., NS	
SH, lt. gray to green MS-WS, brn to gray, m-gr oolitic	
some SH, blk to green, carb., MS-WS, A.A., inc in crm to gray pcs, f-xln, chalky, fossilif, dense, NS SH, blk, gassy, carb	**+ 20 UGK, shale gas**
MS-WS, crm to off wht, lt. gray, dense, scatt fossils, NS	**recycle**
MS, tan to crm, off wht, f-xln, dense, gritty pcs, some oomoldic pcs, NS	
MS, tan to brn, f-xln to mic-xln, brittle to dense, some pcs m-gr oolitic, fossilif. in tite calc mtrx, earthy pcs scatt, some cherty, NS	
SH, blk, carb. MS, crm to tan, fossils, dense, pyrite rare, Chert, wht, NS	**+35 UGK, shale gas**
MS, off wht to crm, f-xln to mic-xln, dense to hard, fossils, Chert, brn, wht, SH, grays, green	**recycle**
MS, off wht to crm, f-xln hard to firm, scatt fossils, Chert, smoky SH, blk to gray	
MS, crm to lt. gray, f-xln to earthy pcs, dense dense, rare fossils, scatt chalky pcs, some shaly, SH, blk to gray	
MS, tan to crm, f-xln, hard/dense, fossils scatt, NS	
MS-WS, lt. gray to tan/crm, f-xln, mottled pcs, Chert, wht, some SH, grays	
MS, A.A., gritty to m-xln pcs, SH, grays, carb., blk, gray, pyrite	
SH, gray, red, silty, MS, crm to gray, f-xln, shaly, hard, gritty pcs, NS	
MS-WS, crm to tan, gray, f-xln, some waxy looking, shaly to earthy, fossils, NS SH, gray to green	
MS, crm to lt. gray, shaly, hard, NS, SH, blk, grays, green	
MS-WS, crm to tan, f-xln, hard/dense, scat fossils, NS scatt SH, blk to grays	
MS, gray to tan/crm, f-xln, shaly in pt., hard, fossilif. scatt SH, grays	
MS, crm to tan, f-xln to chalky pcs, most dense, lesser fossils, SH, blk to green	
MS, crm to tan, mic to f-xln, hard, sub oolitic in pt., fossils, chalky pcs scatt, NS, SH grays	
MS, tan to crm, mic to f-xln, A.A., Chert, wht, fossilif.	
	3 UGK, shale gas





SH, grays, green, rare blk MS, crm to tan, f-xln, dense, fossilif., NS, Chert, white, tan, fossils	**+8 UGK, shale gas**
MS, crm to tan, f-xln to chalky, dense to soft pcs, gritty/sucrosic looking, micro oolitic pcs rare, dull fluor, NS	
MS, crm to tan, f-xln to chalky, firm, rare f-gr oolitic pcs, dead wormy stn(1pc), no cut, no odor, dull fluor, Chert, wht	**Short trip 30 stands**
MS-WS, crm to brn, f-xln, dense to frim, some glauc, NS	
SH, blk to gray, some sandy/silty, pyrite	**+100 UGK, shale gas**
SH, grays to green	**work on rotary chain(1 hr)**
MS, brn to crm, f-xln to mic-xln, dense, fossils, Chert, wht, tan	**Mud Properties** **Vis 59** **Wt 9.2** **LCM 1#** **Filt 8.8** **Cl 5,800** **pH 10.5**
MS, brn to tan, f to mic-xln, dense, sub oolitic pcs, scatt chalky, dull fluor, NS, Chert, brn, to wht, fossils	
MS, crm to tan, f-xln, hard, inc in chalky pcs, scatt fossils, NS	
SH, blk to grays, carb, gassy pcs rare	**+120 UGK, shale gas**
MS, crm to tan, f-xln to mic-xln, dense to hard, scatt fossils, NS	
MS, gray to brn, crm, some chalky, most f-xln, dense, shaly in pt., rare mottled pcs, calcite, SH, gray to blk	
MS, crm to brn, some gray, f-xln, dense, blocky pcs, scatt fossils, calcite, Chert, wht, mineral fluor, NS	
MS-WS, crm to gray, brn, f- to mic-xln, hard, oolitic pcs, mottled pcs, some chalky, Chert, wht, NS scatt SH, blk to gray	
WS-MS, brn to tan, m-xln, mottled, fossils, dense, dull fluor, NS	
MS-WS, A.A., chalky to shaly pcs scatt, Chert, brn, fossils SH, blk to gray, silty pcs	
MS-WS, crm to brn, chalky to f-xln, dense to firm pcs, fossils, mineral fluor, NS	
MS, crm to off wht, chalky to f-xln, soft to dense, pcs, fossilif, Chert, wht, dull fluor, NS	**DST #1 4574-4663** **30-60-10-60** **WB, .25 inch, died in 10 min** **NBB** **NB, Flushed tool, NB** **NBB** **Rec: 5' Mud** **IH 2269#** **IF 19-21#** **ISIP 347#** **FF 21-24#** **FSIP 328#** **FH 2200#** **Temp 117*F** **Pipe Strap 4.92' Short**
MS, off wht to crm, f-xl nto chalky, firm to hard pcs, faint odor in bag, partial stn, bright fluor scatt, strmg cut when broken, rare live oil droplets	
SH, varicolored, silty to sandy in pt., striated	
MS, crm to tan, f-xln to chalky, fossilif. to oolitic, pyrite	
SH, varicolored, sandy to silty, Chert, varicolored, fossils rare SS clusters, poorly to well sorted, sub angular, glauc specs, rare loose co-gr Qtz grs, NS	
influx Chert, varicolored, mostly wht in 60" spl., some wthrd, oolitic, MS, crm to tan, f-xln, oolitic, dull fluor, NS, 75" spl-influx SS clusters, f-gr, glauc specs, dead stn, no cut, no odor	
MS-WS, off wht to crm, brn, mic-xln to f-xln, partly chalky pcs, sub oolitic, NS	**Mud Properties** **Vis 48** **Wt 9.2** **LCM 2#** **Filt 7.8** **Cl 3,600** **pH 10.5**
Dolo, brn to tan, vf-xln to vf-sucrosic txt, hard, dense, some pcs suboolitic/fossilif,, dull fluor, NS	
WS-PS, off wht to crm, f-xln to chalky, m-gr oolitic, firm to hard, dull fluor, NS	
Dolo, crm to lt. gray, vf-xln to fn-sucrosic, dense to firm, dull fluor, NS	
WS-PS, off wht to crm, f-lxn to m-xln, chalky pcs scatt, m-gr oolitic, NS	
Dolo, brn to crm, tan, f-xln to m-xln, partially sucrosic txt, hard, dense pcs, oolitic to fossilif., dulll fluor, NS	



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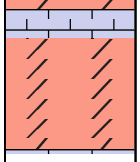

WS-PS, off wht to crm, chalky, f-xln, hard, oolitic

Dolo tan to brn, m-xln, oolitic/fossilif, dark specs, dense hard, vuggy por., dull fluor, NS