

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)*

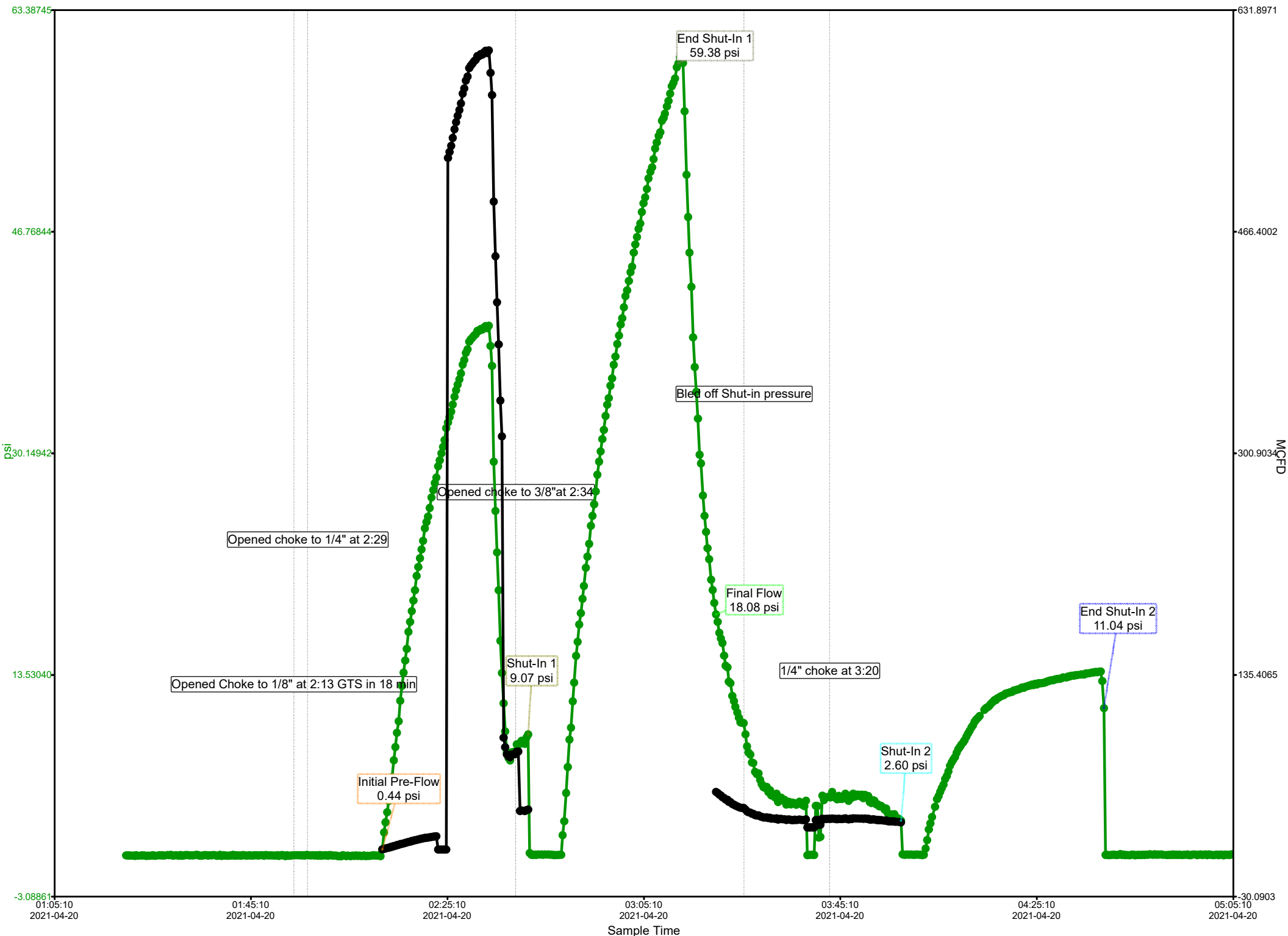
Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water 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:	
----------------	-------	---------	------------	--

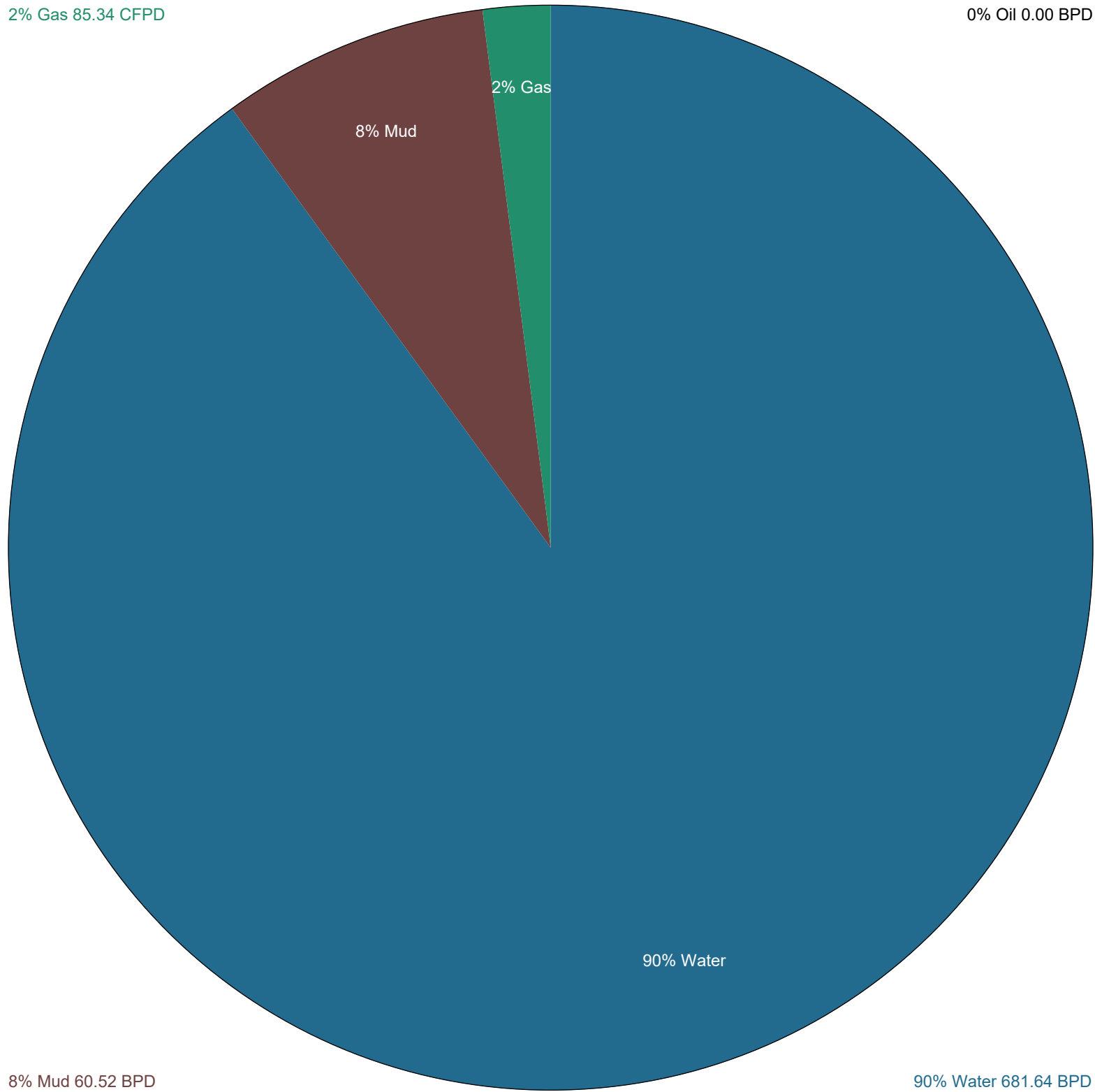
H&D Exploration - Deckert #3 - DST 1



Calculated Recovery Analysis - H&D Exploration - Deckert #3 - DST 1

2% Gas 85.34 CFPD

0% Oil 0.00 BPD



2% Gas

8% Mud

90% Water

8% Mud 60.52 BPD

90% Water 681.64 BPD



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & D Exploration LLC
 PO Box 387
 Hoisington, Ks. 67544
 ATTN: Jim Musgrove

36-20s-16w Pawnee, Ks

Deckert #3

Job Ticket: 66769

DST#: 1

Test Start: 2021.04.19 @ 23:37:45

GENERAL INFORMATION:

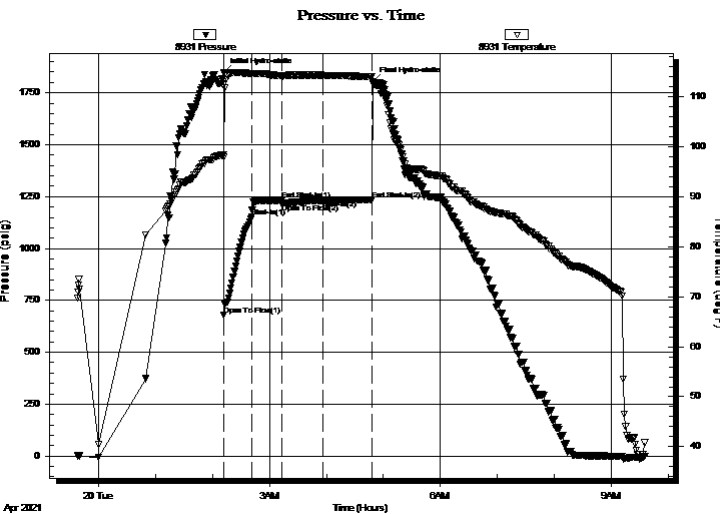
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:12:00
 Time Test Ended: 09:35:30
 Interval: **3763.00 ft (KB) To 3773.00 ft (KB) (TVD)**
 Total Depth: 3773.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2010.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8931

Inside

Press@RunDepth: 1232.67 psig @ 3764.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.04.19 End Date: 2021.04.20 Last Calib.: 2021.04.19
 Start Time: 23:37:50 End Time: 09:35:30 Time On Btm: 2021.04.20 @ 02:11:45
 Time Off Btm: 2021.04.20 @ 04:49:15

TEST COMMENT: IF: Strong Blow . B.O.B. in 15 sec. Built over 800". G.T.S in 18 mins.
 IS: Strong Blow .B.O.B. in 1 min. Built over 800".
 FF: Strong Blow .B.O.B. & G.T.S. Immediate. Gauged Gas.
 FS: Strong Blow . B.O.B. in 5 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.34	98.48	Initial Hydro-static
1	680.17	97.96	Open To Flow (1)
30	1151.27	114.66	Shut-In(1)
61	1232.67	114.22	End Shut-In(1)
62	1215.25	114.21	Open To Flow (2)
105	1232.67	114.33	Shut-In(2)
157	1233.41	114.08	End Shut-In(2)
158	1804.22	112.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2554.00	GMCW 2%g 2%m 96%w	35.83
128.00	WCM 35%w 65%m	1.80
92.00	GOSM5%g 95%m	1.29
0.00	998' G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	8.36	36.11
Last Gas Rate	0.25	3.99	29.17
Max. Gas Rate	0.25	17.51	50.62



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & D Exploration LLC

36-20s-16w Pawnee, Ks

PO Box 387
Hoisington, Ks. 67544

Deckert #3

Job Ticket: 66769

DST#: 1

ATTN: Jim Musgrove

Test Start: 2021.04.19 @ 23:37:45

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:12:00

Time Test Ended: 09:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3763.00 ft (KB) To 3773.00 ft (KB) (TVD)

Reference Elevations: 2010.00 ft (KB)

Total Depth: 3773.00 ft (KB) (TVD)

2000.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8788

Outside

Press@RunDepth: psig @ 3764.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.19 End Date: 2021.04.20

Last Calib.: 2021.04.19

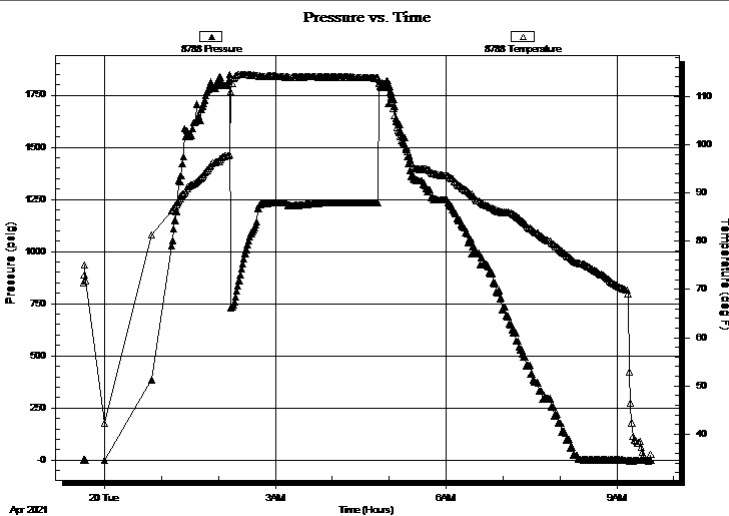
Start Time: 23:37:58 End Time: 09:35:38

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 15 sec. Built over 800". G.T.S in 18 mins.
IS: Strong Blow .B.O.B. in 1 min. Built over 800".
FF: Strong Blow .B.O.B. & G.T.S. Immediate. Gauged Gas.
FS: Strong Blow . B.O.B. in 5 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2554.00	GMCW 2%g 2%m 96%w	35.83
128.00	WCM 35%w 65%m	1.80
92.00	GOSM 5%g 95%m	1.29
0.00	998' G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	8.36	36.11
Last Gas Rate	0.25	3.99	29.17
Max. Gas Rate	0.25	17.51	50.62



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & D Exploration LLC
 PO Box 387
 Hoisington, Ks. 67544
 ATTN: Jim Musgrove

36-20s-16w Pawnee, Ks
Deckert #3
 Job Ticket: 66769 **DST#: 1**
 Test Start: 2021.04.19 @ 23:37:45

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:	25000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 3500.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2554.00	GMCW 2%g 2%m 96%w	35.826
128.00	WCM 35%w 65%m	1.796
92.00	GOSM5%g 95%m	1.291
0.00	998' G.I.P. 100%g	0.000

Total Length: 2774.00 ft Total Volume: 38.913 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: P-

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .58 @ 34 Degrees = 25,000 Chlorides.

G.T.S. Gauged Gas 998 Ft in pipe.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

H & D Exploration LLC

36-20s-16w Pawnee, Ks

PO Box 387
Hoisington, Ks. 67544

Deckert #3

Job Ticket: 66769

DST#: 1

ATTN: Jim Musgrove

Test Start: 2021.04.19 @ 23:37:45

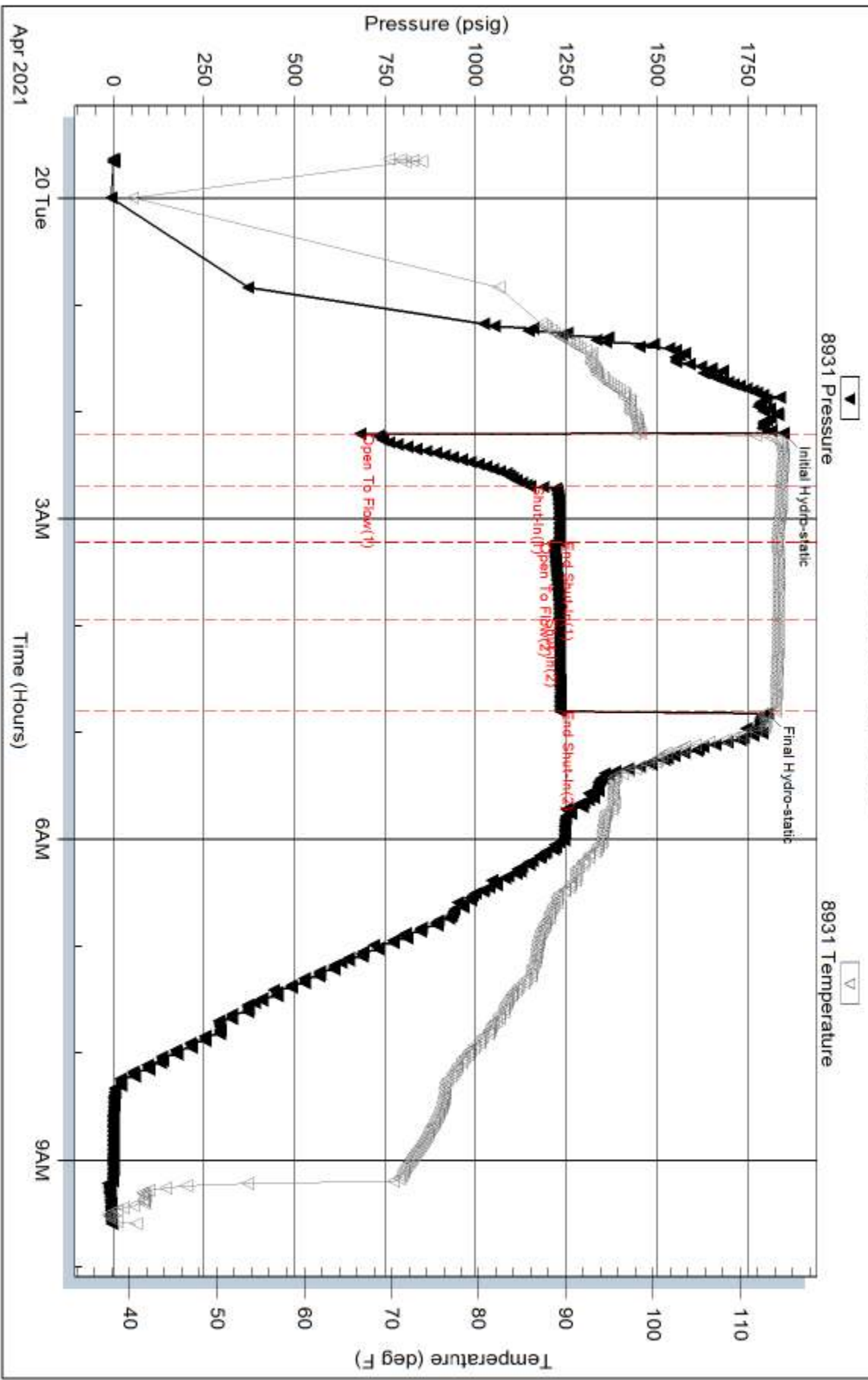
Gas Rates Information

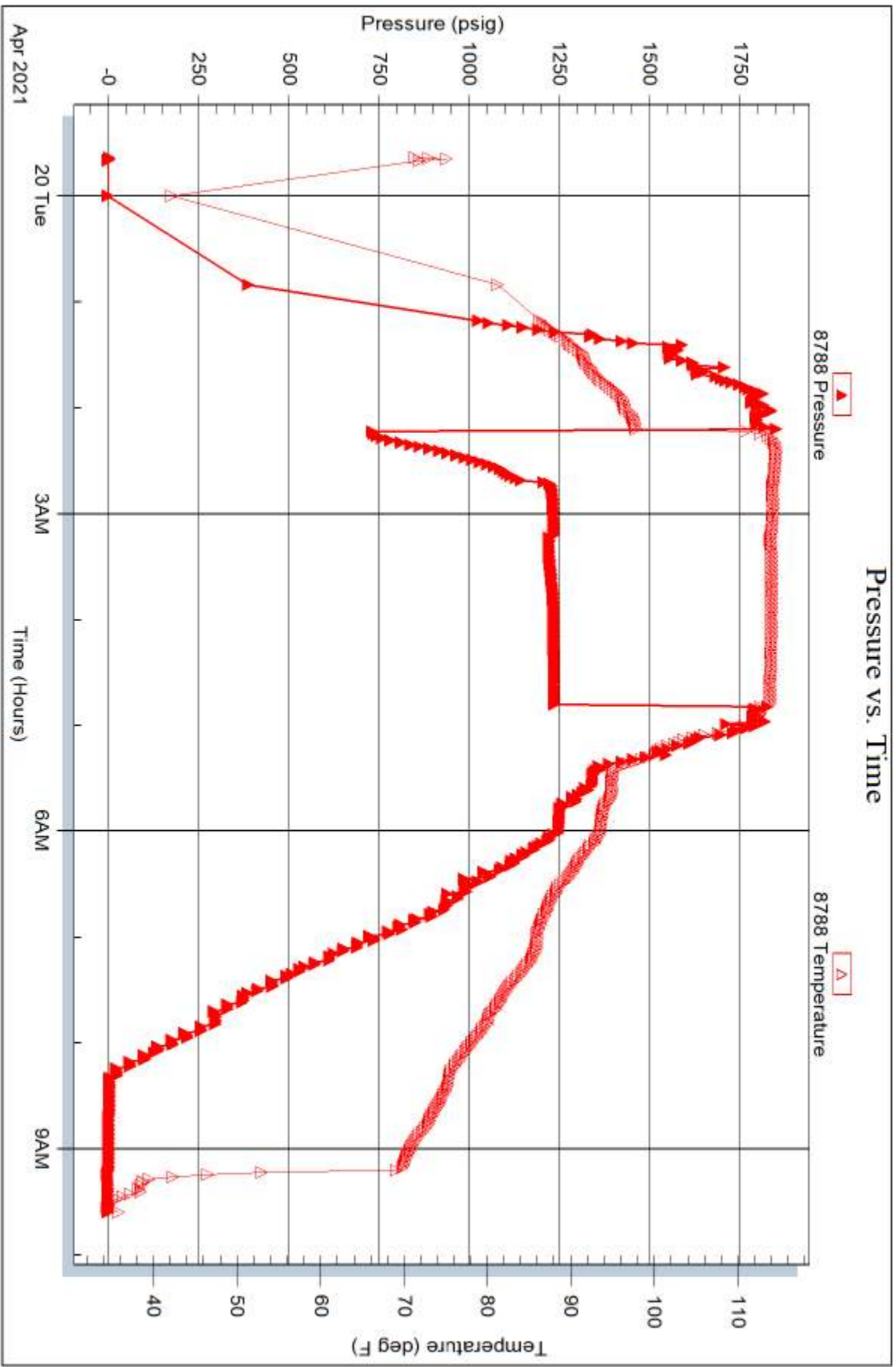
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

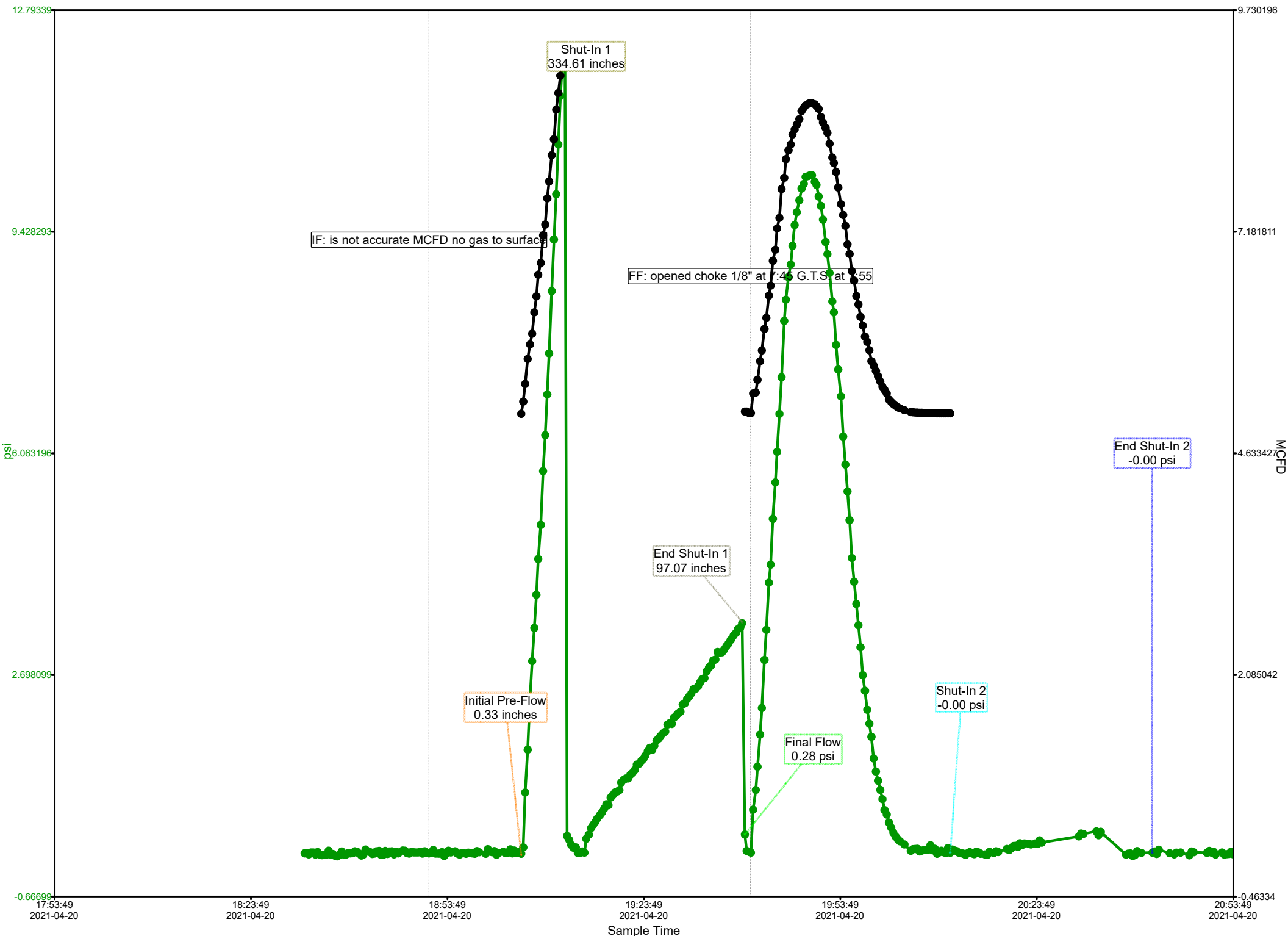
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	28	0.25	8.36	36.11
1	28	0.25	8.36	36.11
1	29	0.25	8.52	36.36
1	30	0.25	9.07	37.23
2	10	0.25	17.51	50.62
2	20	0.25	4.75	30.38
2	30	0.25	4.15	29.43
2	40	0.25	3.99	29.17

Pressure vs. Time





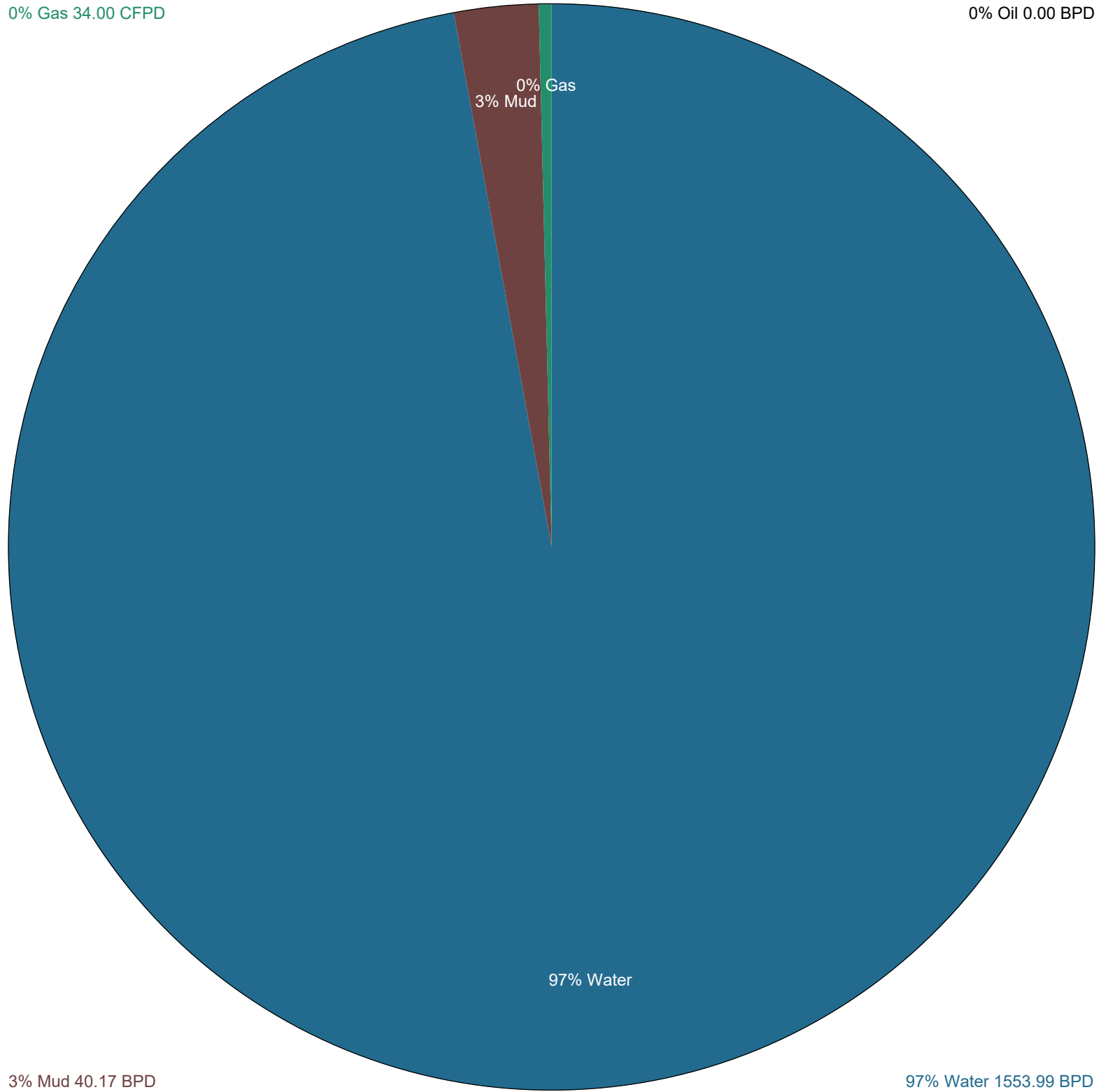
H&D Exploration - Deckert #3 - DST #2



Calculated Recovery Analysis - H&D Exploration - Deckert #3 - DST #2

0% Gas 34.00 CFPD

0% Oil 0.00 BPD



0% Gas
3% Mud

97% Water

3% Mud 40.17 BPD

97% Water 1553.99 BPD



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & D Exploration LLC

165 W 1St
P.O. Box 387
Hoisington, Ks. 67544
ATTN: Jim Musgrove

36-20s-16w Pawnee Co. Ks

Deckert #3

Job Ticket: 66770

DST#: 2

Test Start: 2021.04.20 @ 17:03:29

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:01:59

Time Test Ended: 23:22:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3798.00 ft (KB) To 3812.00 ft (KB) (TVD)

Total Depth: 3812.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2010.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8931

Inside

Press@RunDepth: 1247.93 psig @ 3799.00 ft (KB)

Start Date: 2021.04.20

End Date:

2021.04.20

Start Time: 17:03:34

End Time:

23:22:58

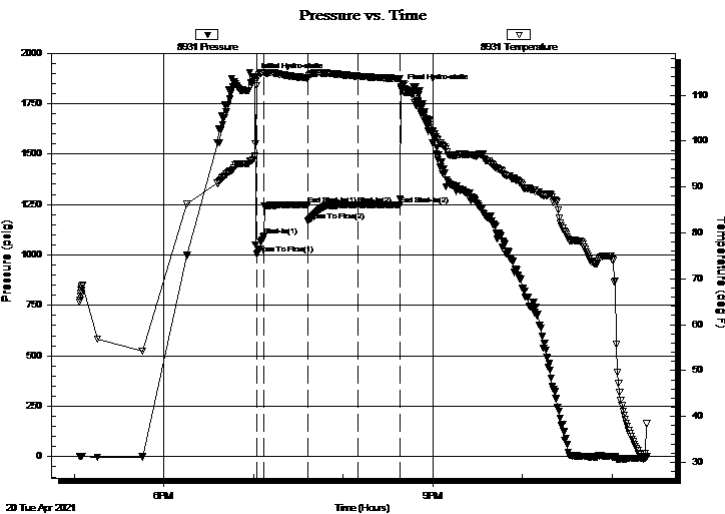
Capacity: 8000.00 psig

Last Calib.: 2021.04.21

Time On Btm: 2021.04.20 @ 19:00:44

Time Off Btm: 2021.04.20 @ 20:38:44

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 sec. Built to 334.61".
IS: Strong Blow B.O.B. in 1 min. Built to 97.07".
FF: Strong Blow . B.O.B. immediately. Built to 285.32". G.T.S. in 15 mins.
FS: Fair Blow . Built to 8.26".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.10	96.69	Initial Hydro-static
2	1003.14	112.12	Open To Flow (1)
6	1093.21	114.93	Shut-In(1)
36	1248.83	113.72	End Shut-In(1)
36	1168.25	113.66	Open To Flow (2)
70	1247.93	114.10	Shut-In(2)
97	1249.06	113.61	End Shut-In(2)
98	1822.52	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW 1% m 99% w	1.82
2398.00	W 100% w	33.64
192.00	GOSMW 5% g 30% m 65% w	2.69
15.00	GOSWCM 5% g 30% w 65% m	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.47	7.06
Last Gas Rate	0.13	0.07	5.42
Max. Gas Rate	0.13	4.47	7.06

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H & D Exploration LLC

36-20s-16w Pawnee Co. Ks

165 W 1St
P.O. Box 387
Hoisington, Ks. 67544
ATTN: Jim Musgrove

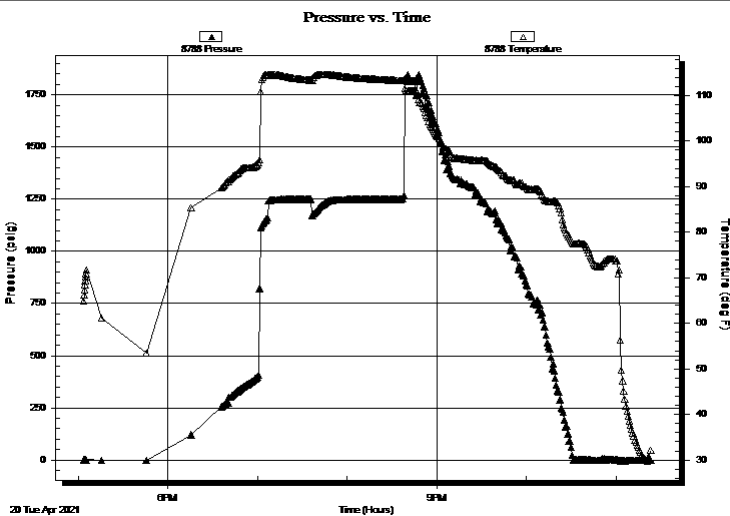
Deckert #3
Job Ticket: 66770 **DST#: 2**
Test Start: 2021.04.20 @ 17:03:29

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:01:59
Time Test Ended: 23:22:59
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68
Interval: **3798.00 ft (KB) To 3812.00 ft (KB) (TVD)**
Reference Elevations: 2010.00 ft (KB)
Total Depth: 3812.00 ft (KB) (TVD) 2000.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8788 Outside
Press@RunDepth: psig @ 3799.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.04.20 End Date: 2021.04.20 Last Calib.: 2021.04.21
Start Time: 17:03:34 End Time: 23:22:58 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 sec. Built to 334.61".
IS: Strong Blow . B.O.B. in 1 min. Built to 97.07".
FF: Strong Blow . B.O.B. immediately . Built to 285.32". G.T.S. in 15 mins.
FS: Fair Blow . Built to 8.26".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW 1% m 99% w	1.82
2398.00	W 100% w	33.64
192.00	GOSMW 5% g 30% m 65% w	2.69
15.00	GOSWCM 5% g 30% w 65% m	0.21

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.47	7.06
Last Gas Rate	0.13	0.07	5.42
Max. Gas Rate	0.13	4.47	7.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & D Exploration LLC

36-20s-16w Pawnee Co. Ks

165 W 1St
P.O. Box 387
Hoisington, Ks. 67544
ATTN: Jim Musgrove

Deckert #3

Job Ticket: 66770

DST#: 2

Test Start: 2021.04.20 @ 17:03:29

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.58 in³
Resistivity: 3500.00 ohm.m
Salinity: ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 34000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MW 1%m 99%w	1.824
2398.00	W 100%w	33.638
192.00	GOSMW 5%g 30%m 65%w	2.693
15.00	GOSWCM 5%g 30%w 65%m	0.210

Total Length: 2735.00 ft Total Volume: 38.365 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: G.T.S. 1069 FT G.I.P.

RW .42 @ 34 Degrees = 34,000 Chlorides.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

H & D Exploration LLC

36-20s-16w Pawnee Co. Ks

165 W 1St
P.O. Box 387
Hoisington, Ks. 67544
ATTN: Jim Musgrove

Deckert #3

Job Ticket: 66770

DST#: 2

Test Start: 2021.04.20 @ 17:03:29

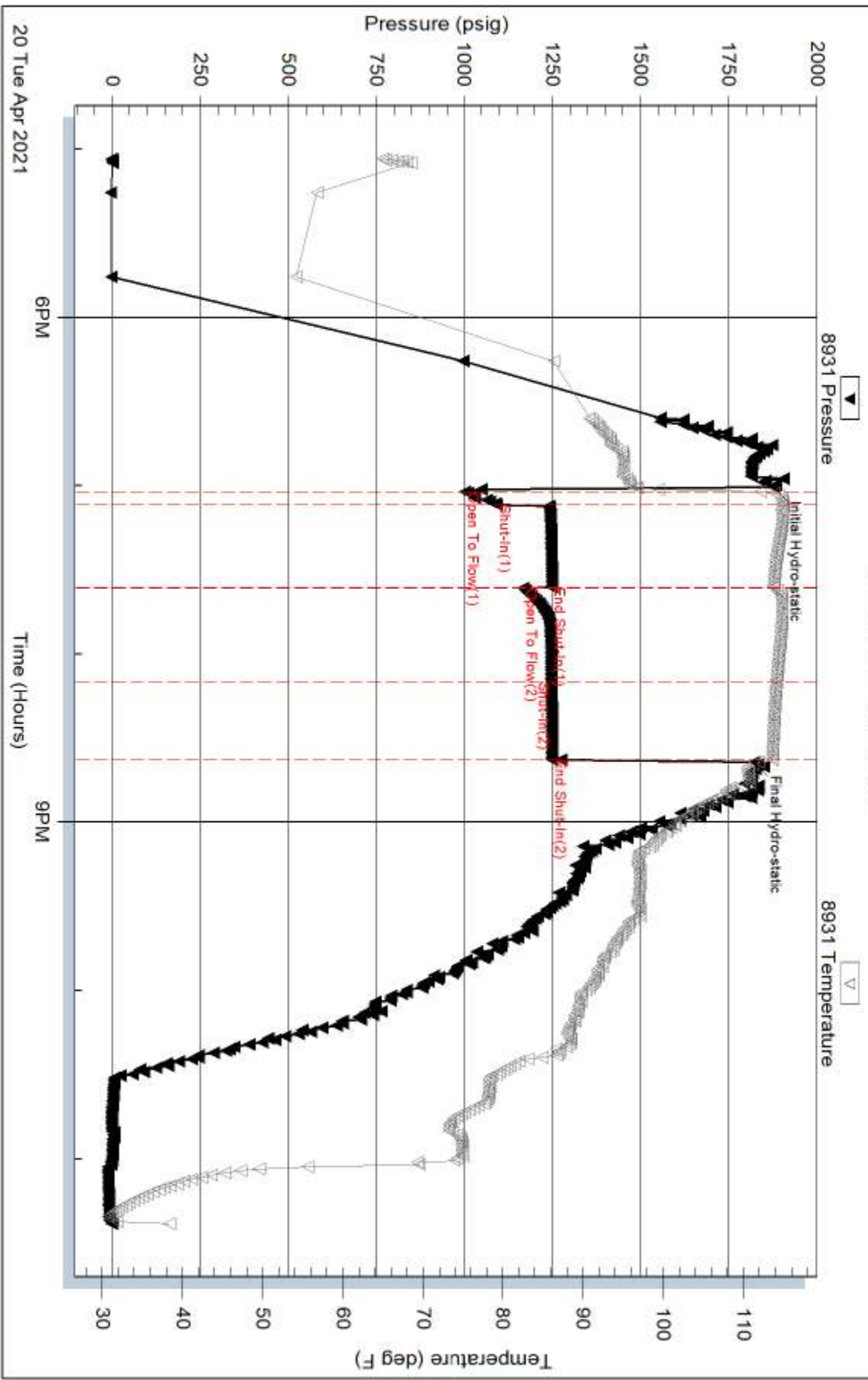
Gas Rates Information

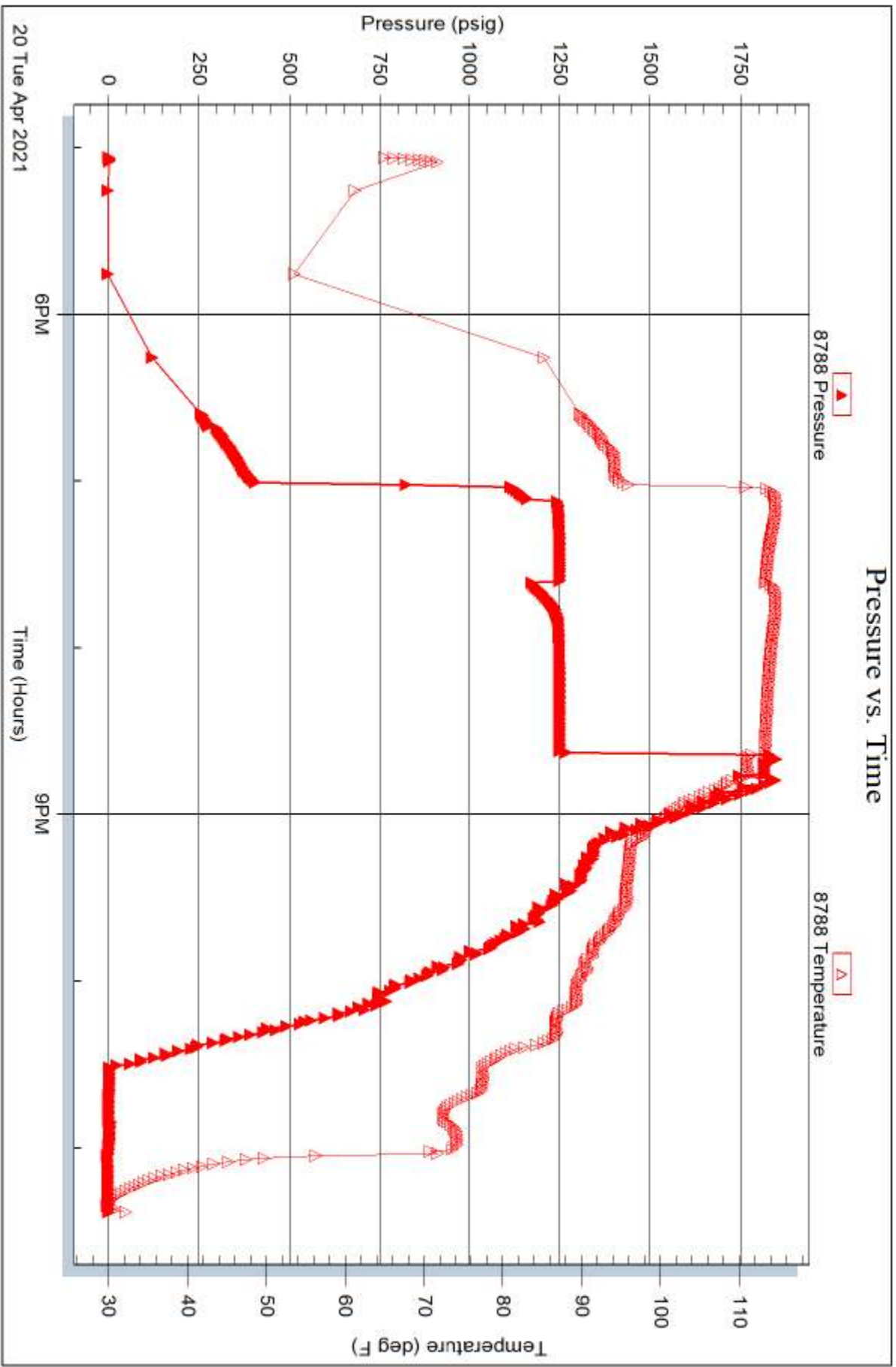
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	15	0.13	4.47	7.06
2	20	0.13	0.81	5.69
2	30	0.13	0.07	5.42

Pressure vs. Time





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. 2214

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4/21/21	36	20	16	Pawnee	Kansas		8:30 am

Location Pawnee 2 W on 70 Rd 1/2 N Winto

Lease	Decker	Well No.	3	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	Southwind Drilling	Type Job		Charge To	H-D Exploration
Hole Size	7 3/4	T.D.	3812	Street	
Csg.	Drill pipe	Depth	3761	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	210 60% 40% gel 1/4" Flow Seal
Cement Left in Csg.		Shoe Joint			

Meas Line	Displace		
EQUIPMENT			
Pumptrk	17	No.	Cementer
			Helper
Bulktrk	15	No.	Driver
			Driver
Bulktrk	pu	No.	Driver
			Driver
			Common
			Poz. Mix
			Gel.
			Calcium

JOB SERVICES & REMARKS			
Remarks:		Hulls	
Rat Hole	30 sks	Salt	
Mouse Hole	20 sks	Flowseal	50#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	217
		Mileage	

FLOAT EQUIPMENT			
		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

		Pumptrk Charge	
		Mileage	18
		Tax	
		Discount	
		Total Charge	

X Signature *Frank J. Rowe*

Thanks

3761' - mixed 50 sks
1040' - mixed 50 sks
330' - mixed 40 sks
60' - mixed 20 sks
Rathole - 30 sks
Mouse hole - 20 sks

Cement did circulate

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. 2212

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4/15/21	36	20	16	Pawnee	Kansas		3:00 PM
				Location Pawnee 2W on 70th Rd 1/2 N Winto			

Lease Deckert	Well No. 3	Owner
Contractor Southwind Drilling		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		
Hole Size 12 1/4	T.D. 1012	Charge To H-D Exploration
Csg. 8 5/8	Depth 1014.34	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. 45-14	Shoe Joint 45-14	Cement Amount Ordered 400 1/60 40 4 1/2 cc 2% gel
Meas Line	Displace	1/4" Flo. 80 Con 4.5 cc

EQUIPMENT

Pumptrk 17	No.	Cementer	David	Common	320
		Helper		Poz. Mix	160
Bulktrk 21	No.	Driver	Doug	Gel.	7
		Driver		Calcium	20
Bulktrk 9	No.	Driver	Ton		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 100#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 508
	Mileage

FLOAT EQUIPMENT

Ran 8 5/8 casing and cemented with 400 sks	Guide Shoe
Cement did not circulate	Centralizer
Mixed 80 sks down 1 inch on the back side	Baskets
	AFU Inserts - 1 8 5/8
	Float Shoe
	Latch Down
	1 Rubber plug
	Pumptrk Charge Long Surface
	Mileage 18

Cement Circulated.

	Tax
	Discount
	Total Charge

X Signature *Frank J. Rowe*

Thanks



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

Scale 1:240 Imperial

Well Name: DECKERT # 3
 Surface Location: 36-20S-16W SW-NE-NE-SE
 Bottom Location:
 API: 15-145-21861-00-00
 License Number: 34674
 Spud Date: 4/14/2021 Time: 3:15 PM
 Region: Barton
 Drilling Completed: 4/21/2021 Time: 1:00 AM
 Surface Coordinates: SW-NE-NE-SE
 Bottom Hole Coordinates:
 Ground Elevation: 2000.00ft
 K.B. Elevation: 2010.00ft
 Logged Interval: 3300.00ft To: 3812.00ft
 Total Depth: 3812.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: H_D Exploration LLC
 Address: 165 W. 1ST
 PO Box 387
 Hosington Kansas 67544
 Contact Geologist:
 Contact Phone Nbr:
 Well Name: DECKERT # 3
 Location: 36-20S-16W SW-NE-NE-SE
 API: 15-145-21861-00-00
 Pool: Infield Field:
 State: Kansas Country: USA

ELEVATIONS











K.B. Elevation: 2010.00ft Ground Elevation: 2000.00ft
 K.B. to Ground: 10.00ft

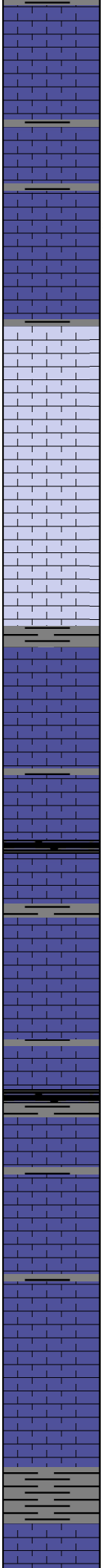
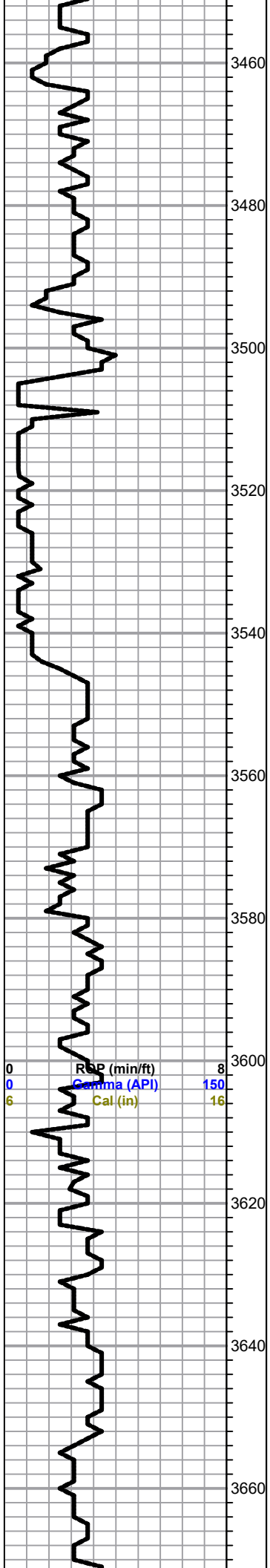
LOGGED BY



Company: Musgrove Petroleum
 Address: 212 Main st.
 Claflin, KS 67525
 Phone Nbr: 620-588-4250
 Logged By: Geologist Name: James C. Musgrove

ROCK TYPES

 Chtcong1	 Lmst fw7>	 Carbon Sh	 Ss
 Dolprim	 shale, grn	 shale, red	
 Lmst fw<7	 shale, gry	 Shcol	



LS, tan, fxl, few foss, (dense) + tan chert

LS, white, tan, fxl, foss, gran in part, spty golden brn stain nsfo no odor

LS, tan, ool, sl. cherty, tr. pyrite, + tr. brn chert

LS, tan, brn, oom, good oom porosity, (barren)

LS, a/a barren a/a

LS, gry, white, tan, chalky, few cherty (dense)

Sh, black carb

S, tan, gry, foss, finely oom scat.t porosity

LS, gry, white, foss, ool, poor porosity, no shows

Sh, black / gry

LS, tan, oom good oom porosity, barren

LS, tan, sl. cherty, + white, chalky, LS

BKC 3654.0 (-1644.0)

Sh, gry/ green sh.

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

