Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1186259

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Don Williams
Phone: (618) 548-1585
CONTRACTOR: License # 33935
Name: H. D. Drilling, LLC
Wellsite Geologist: Tim Priest
Purchaser: NCRA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

12/30/2013	01/10/2014	01/24/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-21006-00-00
Spot Description:
NE - SW - SW - SE Sec. 36 Twp. 16 S. R. 34 ☐ East ☑ West
442 Feet from ☐ North / ☑ South Line of Section
2295 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: Scott
Lease Name: Janzen Well #: 2-36
Field Name: Wildcat
Producing Formation: Johnson, Marmaton
Elevation: Ground: 3098 Kelly Bushing: 3108
Total Vertical Depth: 4870 Plug Back Total Depth: 4824
Amount of Surface Pipe Set and Cemented at: 264 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2394 Feet
If Alternate II completion, cement circulated from: 2394
feet depth to: 0 w/ 360 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 6500 ppm Fluid volume: 2500 bbls
Dewatering method used: Evaporated

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: 02/10/2014
☑ **Confidential Release Date:** 02/10/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 02/10/2014

[redacted] 1186259

Operator Name: Shakespeare Oil Co., Inc. Lease Name: Janzen Well #: 2-36

Sec. 36 Twp. 16 S. R. 34 ☐ East ☑ West County: Scott

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

List All E. Logs Run:
Attached

☑ 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	264	Class A	185	3% CaCl2, 2% gel
production	7.875	5.5	15.5	4869	ASC	160	2% gel, 10% salt, 5#/sx Gilsonite, 1/4#/s

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	2394-0	Poz	360	65/35 w/8% gel, 1/4#/sx flocele w/500# hulls
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	Johnson	250gal 15% RWR, 2500 gal 15% RWR + 125 bio balls	4706-12, 4693-96, 4684-
4	Marmaton "B"	125 gal 15% RWR	4485-91, 4478-80
4	Marmaton "A"	125 gal 15% RWR	4467-70, 4454-65, 4447-

TUBING RECORD: Size: 2.375 Set At: 4816.97 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/27/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	173		0		34

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☑ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Janzen 2-36
Doc ID	1186259

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Sonic
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Janzen 2-36
Doc ID	1186259

Tops

Name	Top	Datum
Base Anhydrite	2448	+660
Heebner	3981	-873
Lansing	4025	-917
Muncie Creek	4207	-1099
Stark Shale	4304	-1196
Hushpuckney	4353	-1245
Pawnee	4530	-1422
L. Cherokee Shale	4607	-1499
Johnson	4651	-1543
Mississippian	4790	-1682

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Janzen 2-36
Doc ID	1186259

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	264	Class A	185	3% CaCl2, 2% gel
production	7.875	5.5	15.5	4869	ASC	160	2% gel, 10% salt, 5#/sx Gilsonite, 1/4#/sx Floseal & 3/4 of 1% CD-32

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140600
Invoice Date: Dec 30, 2013
Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	61429	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-01	Oakley	Dec 30, 2013	1/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #2-36		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
3.00	CEMENT MATERIALS	Gel	23.40	70.20
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
200.00	CEMENT SERVICE	Cubic Feet Charge	2.48	496.00
410.85	CEMENT SERVICE	Ton Mileage Charge	2.60	1,068.21
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	EQUIPMENT OPERATOR	Talon Jones		

INT

10502-5

RECEIVED
JAN 08 2014

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 2,008.67

ONLY IF PAID ON OR BEFORE

Jan 24, 2014

Subtotal	7,725.66
Sales Tax	312.12
Total Invoice Amount	8,037.78
Payment/Credit Applied	
TOTAL	**8,037.78**

DW

ALLIED OIL & GAS SERVICES, LLC 061429

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
12-30-13	36	16	34		4:30 p.m.	8:30 p.m.	9:00 p.m.
LEASE Janzen	WELL # 2-36		LOCATION Pence E to Eagle Rd S to T 1/2 E Ninto			COUNTY Scott	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR HD rig 2
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 267'
CASING SIZE 8 5/8 DEPTH 267'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 11e.05 bbl water

OWNER Same

EQUIPMENT

PUMP TRUCK # 422 CEMENTER Paul Beaver
HELPER Tyler Flipse
BULK TRUCK # 818 DRIVER Tilon Jones
BULK TRUCK # DRIVER

REMARKS:

mix 185 sks Com 3%CC 2% gel
Displace w/ water
cement did circulate

Thank You!
Paul & Tyler

CHARGE TO: Shakespear
STREET
CITY STATE ZIP

CEMENT
AMOUNT ORDERED 185 sks Com 3%CC 2% gel

COMMON	185 sks	@ 17.90	3311.50
POZMIX		@	
GEL	3 sks	@ 23.40	70.20
CHLORIDE	7 sks	@ 64.00	448.00
ASC		@	
HANDLING	200 ft 3	@ 2.48	496.00
MILEAGE	9.13 tons x 145mi x 2.60		1068.21
TOTAL			5393.91

SERVICE

DEPTH OF JOB	267'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	mi HV 45	@ 7.70	346.50
MANIFOLD	swedge	@	275.00
	mi LV 45	@ 4.40	198.00
		@	
TOTAL			2331.75

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

SALES TAX (If Any)
TOTAL CHARGES 7725.66
DISCOUNT 2,008.67 IF PAID IN 30 DAYS
5,716.98 Net.

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Doug Roberts
SIGNATURE Doug Roberts
Thanks

ALLIED OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140758
Invoice Date: Jan 11, 2014
Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	62134	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-02	Oakley	Jan 11, 2014	2/10/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #2-36		
160.00	CEMENT MATERIALS	ASC	20.90	3,344.00
17.00	CEMENT MATERIALS	Salt	26.35	447.95
800.00	CEMENT MATERIALS	Gilsonite	0.98	784.00
112.00	CEMENT MATERIALS	CD-31	10.30	1,153.60
12.00	CEMENT MATERIALS	WFR II	58.70	704.40
207.02	CEMENT SERVICE	Cubic Feet Charge	2.48	513.41
404.73	CEMENT SERVICE	Ton Mileage Charge	2.60	1,052.30
1.00	CEMENT SERVICE	Production Casing ✓	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		

INT

RECEIVED
JAN 21 2014
KCC WICHITA

10502-S

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 2,896.22

ONLY IF PAID ON OR BEFORE
Feb 5, 2014

Subtotal	11,584.91
Sales Tax	524.37
Total Invoice Amount	12,109.28
Payment/Credit Applied	
TOTAL	**12,109.28**

DW

ALLIED OIL & GAS SERVICES, LLC 062134

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE 1/11/14	SEC. 36	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START 6:30 pm	JOB FINISH 6:30 pm
LEASE Pomeroy	WELL # 2-36		LOCATION Bence Rd. To Falcon 4 S W/W into			COUNTY Scott	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR WO 2
TYPE OF JOB Prod.
HOLE SIZE 7 7/8 T.D.
CASING SIZE 5 1/2 15.5# DEPTH 4869'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL Port Collar DEPTH 2400'
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42.0
CEMENT LEFT IN CSG. 42.0
PERFS.
DISPLACEMENT 115 BBL

OWNER Same

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan
423-281 HELPER Kevin Ryan
BULK TRUCK
818 DRIVER Juan T (Juan S)
BULK TRUCK
DRIVER

CEMENT
AMOUNT ORDERED 160 SK ASC
10% Salt 5# Gilsonite 3/4-1% CD31

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC 160	@	20.00	3344.00
	@		
Salt 17 SK	@	26.25	447.25
Gilsonite 800 lb	@	.98	784.00
CD31 112	@	10.60	1153.60
WFR II 1200 gal	@	5.20	204.40
	@		
	@		
	@		
HANDLING 207.02 CF	@	2.48	513.41
MILEAGE 200 sx/mile 8.994 ton			1052.30
		TOTAL	2999.66

REMARKS:
Ran Log Conducted Mix w/ RAT Mix 30 SK
R. Hole. Mix 130 SK Class 5#
Wash Truck. Displace Plug w/ 115 BBL
H2O w/ 900 PSI Lift. Land Plug
@ 1300 PSI Float Held
Thank You
Alan, Kevin & Juan T

SERVICE

DEPTH OF JOB		4869'	
PUMP TRUCK CHARGE		2165.25	
EXTRA FOOTAGE	@		
MILEAGE 45	@	7.70	346.80
MANIFOLD attended	@		195.00
Light Vehicle 45	@	4.40	198.00
	@		
		TOTAL	3585.25

CHARGE TO Shakespeare
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
	TOTAL	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Doug Roberts

SIGNATURE Doug Roberts

SALES TAX (If Any)
TOTAL CHARGES 11,584.91
DISCOUNT 2,896.23 IF PAID IN 30 DAYS
8,688.68 Net.

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140867
Invoice Date: Jan 15, 2014
Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	62532	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-04	Oakley	Jan 15, 2014	2/14/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #2-36		
234.00	CEMENT MATERIALS	Class A Common	17.90	4,188.60
126.00	CEMENT MATERIALS	Pozmix	9.35	1,178.10
25.00	CEMENT MATERIALS	Gel	23.40	585.00
10.00	CEMENT MATERIALS	Cottonseed Hulls	35.00	350.00
90.00	CEMENT MATERIALS	Flo Seal	2.97	267.30
586.33	CEMENT SERVICE	Cubic Feet Charge	2.48	1,454.10
1,059.75	CEMENT SERVICE	Ton Mileage Charge	2.60	2,755.35
1.00	CEMENT SERVICE	Port Collar ✓	2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		

INT

RECEIVED
JAN 27 2014

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 3,451.63 *

ONLY IF PAID ON OR BEFORE
Feb 9, 2014

Subtotal	13,806.54
Sales Tax	535.37
Total Invoice Amount	14,341.91
Payment/Credit Applied	
TOTAL	**14,341.91**

10502-6

DW

ALLIED OIL & GAS SERVICES, LLC 062532

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, KS.

DATE 1-15-14	SEC. 36	TWP. 16	RANGE 34	CALLED OUT	ON LOCATION 1013 0am	JOB START 11 1/35a.	JOB FINISH 12:30 p.
LEASE Jantzen	WELL # 2-36	LOCATION Pence 2E, 3 1/2 S, 1/2E			COUNTY Scott	STATE Ks
OLD OR NEW (Circle one)		Vinto				

CONTRACTOR Cheyenne Well Service
TYPE OF JOB Port Collar
HOLE SIZE T.D.
CASING SIZE DEPTH
TUBING SIZE 2 3/8 DEPTH 2394'
DRILL PIPE DEPTH
TOOL Port Collar DEPTH ~~2394~~ 2394'
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 8 bbls 66 bbl

OWNER same

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Lakene E. Weaks
HELPER Andrew Forstrom
BULK TRUCK # 318/287 DRIVER Eddy Coronado
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 500 sks 65/35, 8% gel 1/4# flo-seal, 100# hulls on side

COMMON	334 sk	@ 12.20	4188.60
POZMIX	126 sk	@ 9.35	1178.10
GEL	25 sk	@ 23.40	583.00
CHLORIDE		@	
ASC		@	
		@	
		@	
Cottonseed Hulls	10	@ 35.00	350.00
		@	
Flo-seal	90#	@ 2.97	262.30
		@	
		@	
		@	
HANDLING	586.33 sk	@ 2.48	1454.10
MILEAGE	23.55 mx x 45	x 2.60	2755.35
		TOTAL	15278.45

REMARKS:

Test port collar 1200#. Open port collar. Mix 360 sks cement. Displace with water. Close port collar. Pressure test port collar 1200#. Cement did circulate. Plug up 80 bbl mud ahead.

Thank you.

SERVICE

DEPTH OF JOB	~~2394~~	2394'	
PUMP TRUCK CHARGE			2483.59
EXTRA FOOTAGE		@	
MILEAGE MP	45	@ 7.20	324.00
MANIFOLD		@	
MP	45	@ 4.40	198.00
		@	
		TOTAL	3028.09

CHARGE TO: Shakespeare
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 13,806.54
DISCOUNT 3,451.63 IF PAID IN 30 DAYS
10,354.90 Net.

PRINTED NAME
SIGNATURE

DRILL STEM TEST REPORT

Shakespeare Oil Inc

202 West, Main St
Salem, Il
62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56605 **DST#: 1**

Test Start: 2014.01.05 @ 02:20:45

GENERAL INFORMATION:

Formation: **C**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 05:28:30
Time Test Ended: 11:25:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride
Unit No: 55

Interval: 4074.00 ft (KB) To 4110.00 ft (KB) (TVD)
Total Depth: 4110.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

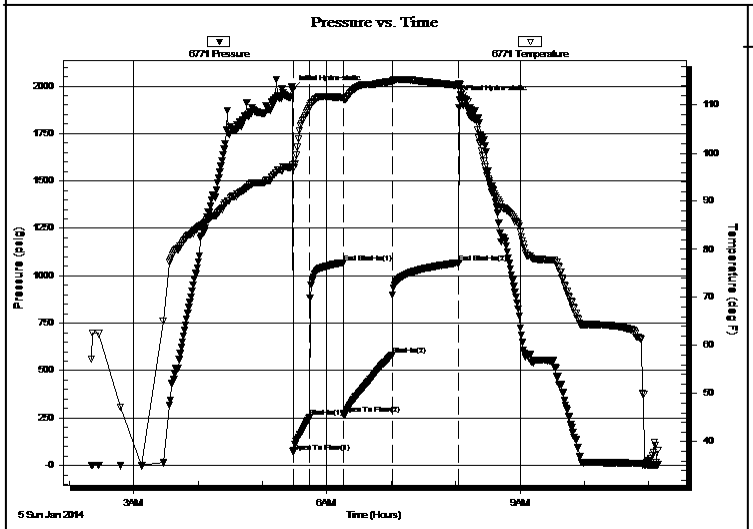
Reference Elevations: 3108.00 ft (KB)
3098.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 583.78 psig @ 4075.00 ft (KB)
Start Date: 2014.01.05 End Date: 2014.01.05
Start Time: 02:20:45 End Time: 11:08:45

Capacity: 8000.00 psig
Last Calib.: 2014.01.05
Time On Btm: 2014.01.05 @ 05:28:15
Time Off Btm: 2014.01.05 @ 08:03:30

TEST COMMENT: B.O.B. in 8 min.
No return
B.O.B. in 10 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.55	97.47	Initial Hydro-static
1	72.56	96.84	Open To Flow (1)
16	252.60	109.41	Shut-In(1)
47	1069.72	111.51	End Shut-In(1)
48	271.63	111.23	Open To Flow (2)
93	583.78	114.98	Shut-In(2)
155	1068.64	114.08	End Shut-In(2)
156	1926.88	114.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	w ater 100%w	14.07
120.00	s m c w 10%m 90%w	1.68
90.00	m c w 35%m 65%w	1.26

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Inc

202 West, Main St
Salem, Il
62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56605 **DST#: 1**

Test Start: 2014.01.05 @ 02:20:45

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:	27000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1080.00	w ater 100%w	14.066
120.00	s m c w 10%m 90%w	1.683
90.00	m c w 35%m 65%w	1.262

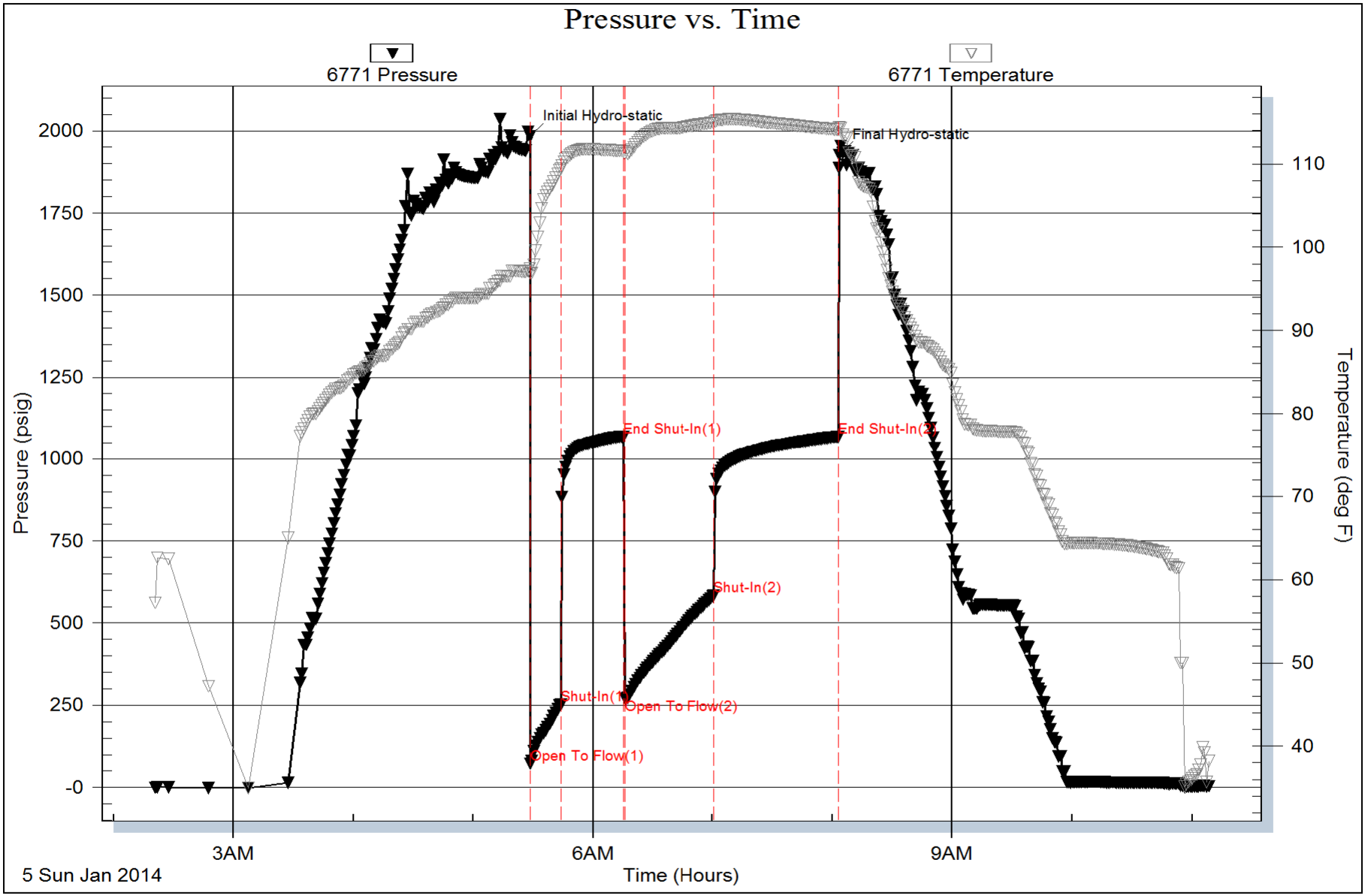
Total Length: 1290.00 ft Total Volume: 17.011 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw .499 @ 30*f= 27,000 chlor

Serial #: 6771 **Inside** Shakespeare Oil Inc Janzen #2-36 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 56605 Printed: 2014.01.06 @ 01:31:37

DRILL STEM TEST REPORT

Shakespeare Oil Inc

202 West, Main St
Salem, Il 62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56606 **DST#: 2**

Test Start: 2014.01.05 @ 21:25:31

GENERAL INFORMATION:

Formation: **D-E-F**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 00:24:31
Time Test Ended: 07:25:31

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: 4127.00 ft (KB) To 4150.00 ft (KB) (TVD)
Total Depth: 4150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

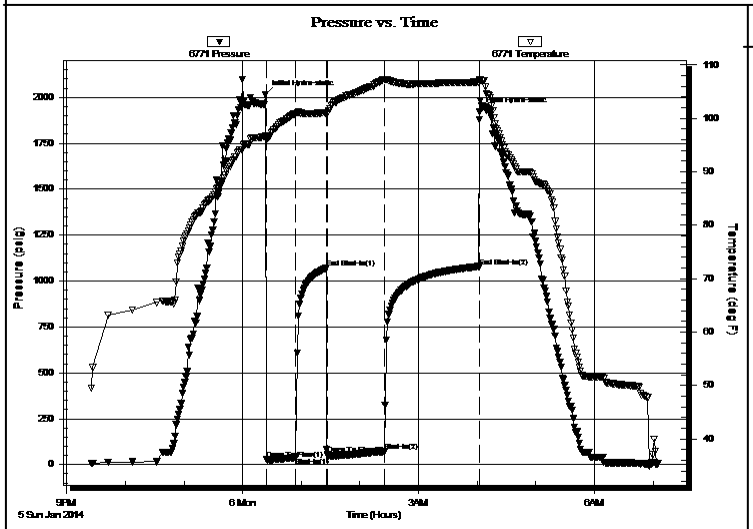
Reference Elevations: 3108.00 ft (KB)
3098.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 70.75 psig @ 4128.00 ft (KB)
Start Date: 2014.01.05 End Date: 2014.01.06
Start Time: 21:25:31 End Time: 07:04:31

Capacity: 8000.00 psig
Last Calib.: 2014.01.06
Time On Btm: 2014.01.06 @ 00:23:16
Time Off Btm: 2014.01.06 @ 04:02:31

TEST COMMENT: 1/4"in blow died back to 1/8"in
No return
1/8"in blow blew through out open
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.78	96.66	Initial Hydro-static
2	30.08	96.20	Open To Flow (1)
31	38.58	100.87	Shut-In(1)
63	1070.09	101.10	End Shut-In(1)
64	53.88	101.01	Open To Flow (2)
122	70.75	107.26	Shut-In(2)
219	1079.39	106.81	End Shut-In(2)
220	1921.02	107.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	m c w 30%m 70%w	0.60

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Inc

202 West, Main St
Salem, Il 62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56606 **DST#: 2**

Test Start: 2014.01.05 @ 21:25:31

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:	29000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4100.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	m c w 30%m 70%w	0.599

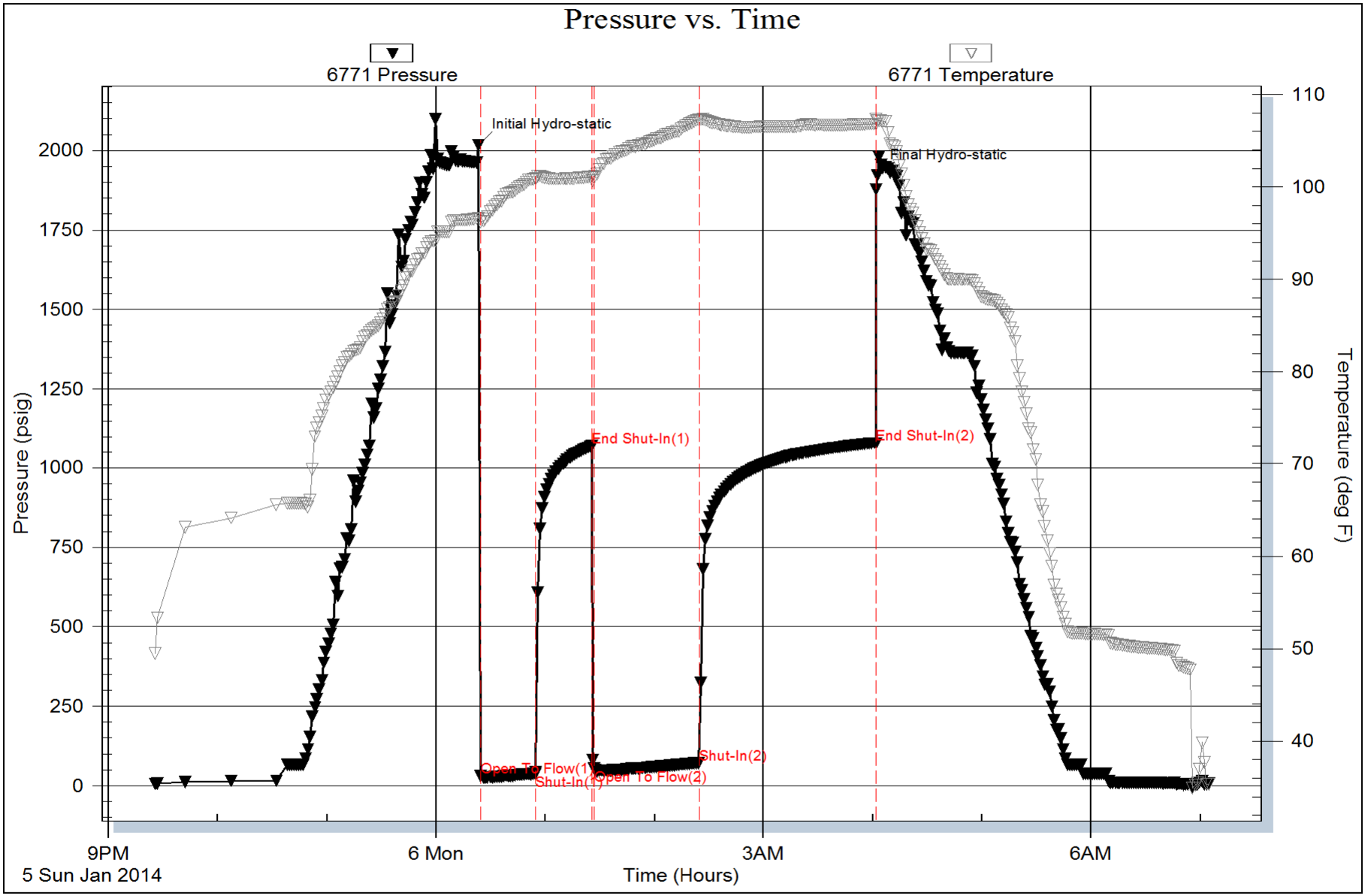
Total Length: 120.00 ft Total Volume: 0.599 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw .697 @ 0*f = 29,000 chlor

Serial #: 6771 **Inside** Shakespeare Oil Inc Janzen #2-36 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 56606 Printed: 2014.01.06 @ 07:45:18

DRILL STEM TEST REPORT

Shakespeare Oil Inc

202 West, Main St
Salem, Il 62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56607 **DST#: 3**

Test Start: 2014.01.07 @ 16:21:02

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 18:36:02
Time Test Ended: 02:20:17

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: 4436.00 ft (KB) To 4470.00 ft (KB) (TVD)
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

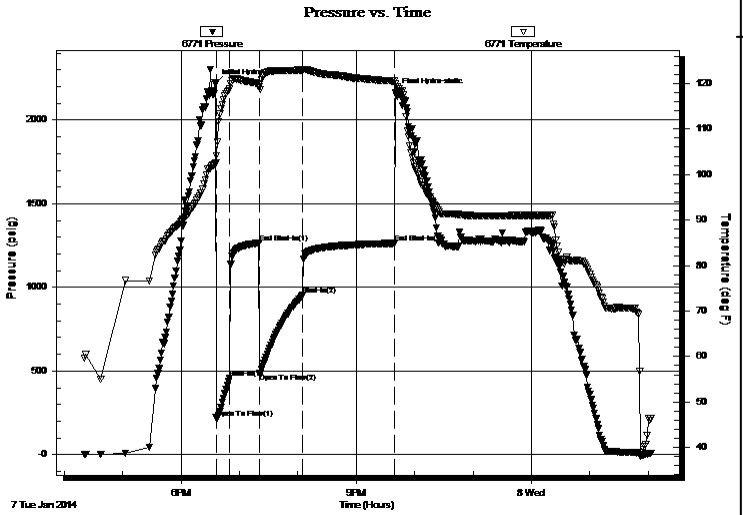
Reference Elevations: 3108.00 ft (KB)
3098.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 952.16 psig @ 4437.00 ft (KB)
Start Date: 2014.01.07 End Date: 2014.01.08
Start Time: 16:21:02 End Time: 02:03:17

Capacity: 8000.00 psig
Last Calib.: 2014.01.08
Time On Btm: 2014.01.07 @ 18:35:32
Time Off Btm: 2014.01.07 @ 21:40:02

TEST COMMENT: B.O.B. in 1 min.
Return to bottom in 10 min.
B.O.B. @ open
9"in return blow , G.T.S. in 73 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.85	102.30	Initial Hydro-static
1	219.95	102.60	Open To Flow (1)
15	458.33	118.77	Shut-In(1)
45	1265.75	119.92	End Shut-In(1)
46	487.38	119.31	Open To Flow (2)
90	952.16	122.90	Shut-In(2)
184	1263.69	120.51	End Shut-In(2)
185	2164.62	119.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	under circ sub m c g o 25g 30m 45o	0.59
2303.00	reversed out ,c g o 25g 75o	32.31
100.00	dumped , c g o 20g 80o	1.40
0.00	Gas to surface on final shutin	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Inc

202 West, Main St
Salem, Il 62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56607 **DST#: 3**

Test Start: 2014.01.07 @ 16:21:02

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

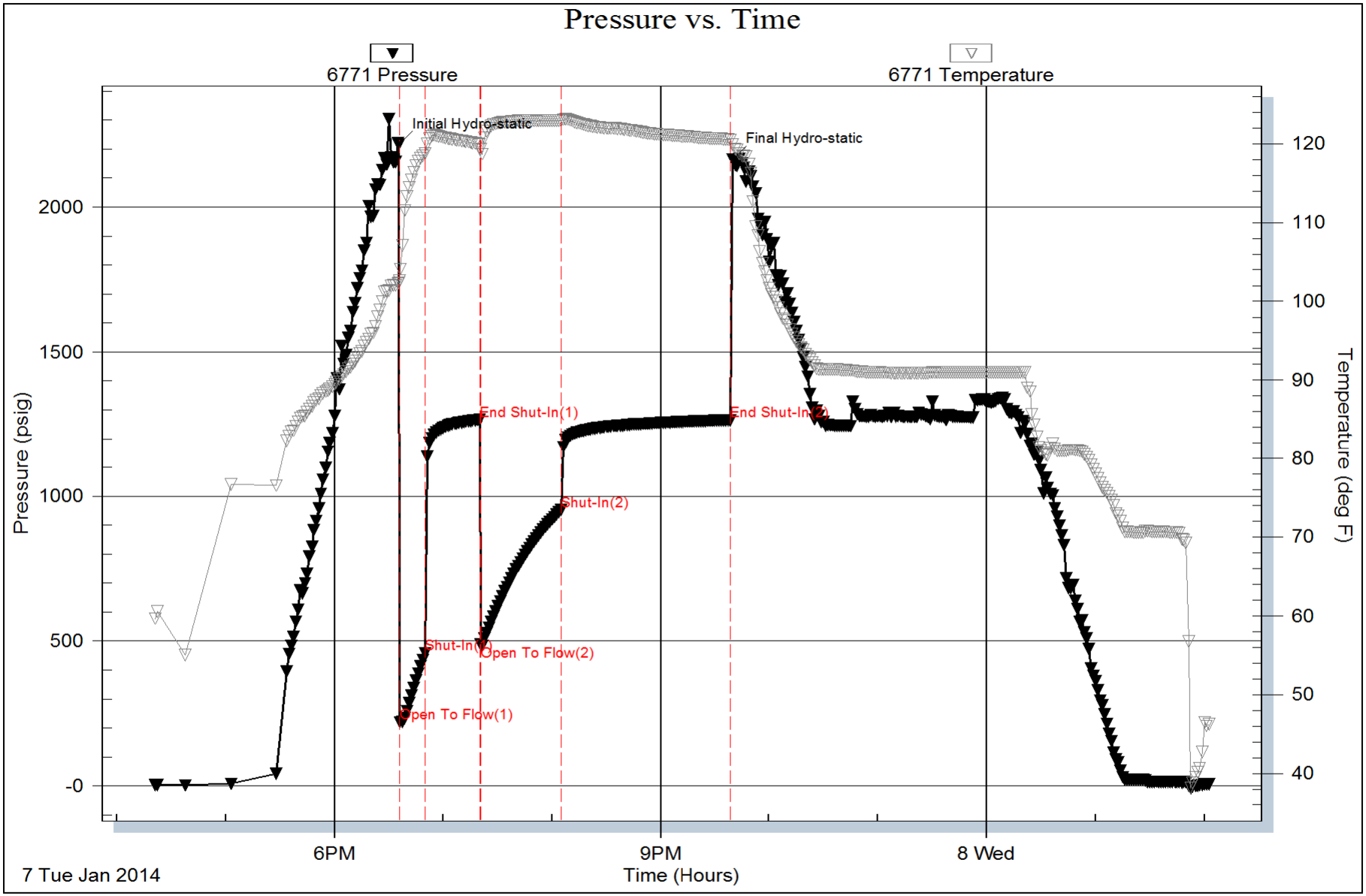
Recovery Table

Length ft	Description	Volume bbl
119.00	under circ sub m c g o 25g 30m 45o	0.585
2303.00	reversed out ,c g o 25g 75o	32.305
100.00	dumped , c g o 20g 80o	1.403
0.00	Gas to surface on final shutin	0.000

Total Length: 2522.00 ft Total Volume: 34.293 bbl

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

Serial #: 6771 **Inside** Shakespeare Oil Inc Janzen #2-36 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 56607 Printed: 2014.01.08 @ 07:59:45

DRILL STEM TEST REPORT

Shakespeare Oil Inc

202 West, Main St
Salem, Il
62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56608 **DST#: 4**

Test Start: 2014.01.08 @ 11:11:44

GENERAL INFORMATION:

Formation: **Marmaton B**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 13:16:59
Time Test Ended: 19:45:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: 4470.00 ft (KB) To 4490.00 ft (KB) (TVD)
Total Depth: 4490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

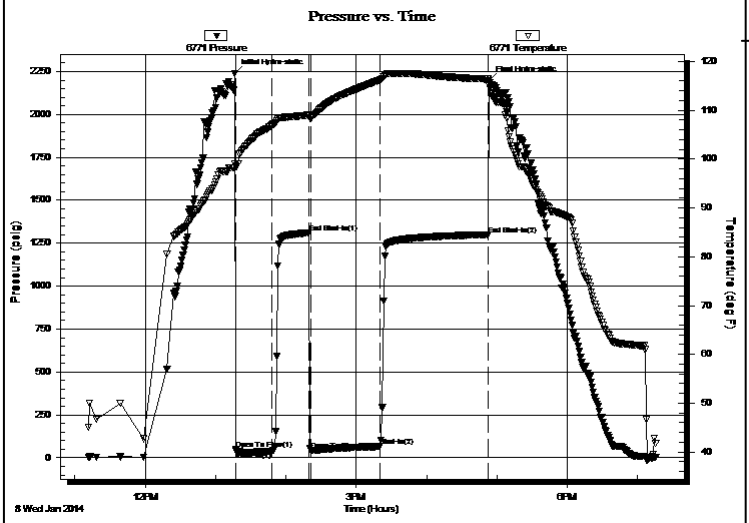
Reference Elevations: 3108.00 ft (KB)
3098.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 65.51 psig @ 4471.00 ft (KB)
Start Date: 2014.01.08 End Date: 2014.01.08
Start Time: 11:11:44 End Time: 19:15:59

Capacity: 8000.00 psig
Last Calib.: 2014.01.08
Time On Btm: 2014.01.08 @ 13:16:29
Time Off Btm: 2014.01.08 @ 16:53:14

TEST COMMENT: 9 1/2"in blow
Surface return in 10 min, blew throughout shutin
B.O.B. in 35 min.
Surface return in 10 min , died in 52 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.29	99.17	Initial Hydro-static
1	48.51	98.56	Open To Flow (1)
32	39.04	106.97	Shut-In(1)
63	1310.17	109.02	End Shut-In(1)
65	43.89	108.42	Open To Flow (2)
124	65.51	116.18	Shut-In(2)
216	1300.22	116.39	End Shut-In(2)
217	2199.00	114.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	g o c m 20g 30o 50m	0.15
110.00	c g o 15g 85o	0.73
0.00	400' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Inc

202 West, Main St
Salem, Il
62881

ATTN: Tim Priest

36-16s-34w Scott, Ks

Janzen #2-36

Job Ticket: 56608 **DST#: 4**

Test Start: 2014.01.08 @ 11:11:44

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6600.00 ppm				
Filter Cake:	1.00 inches				

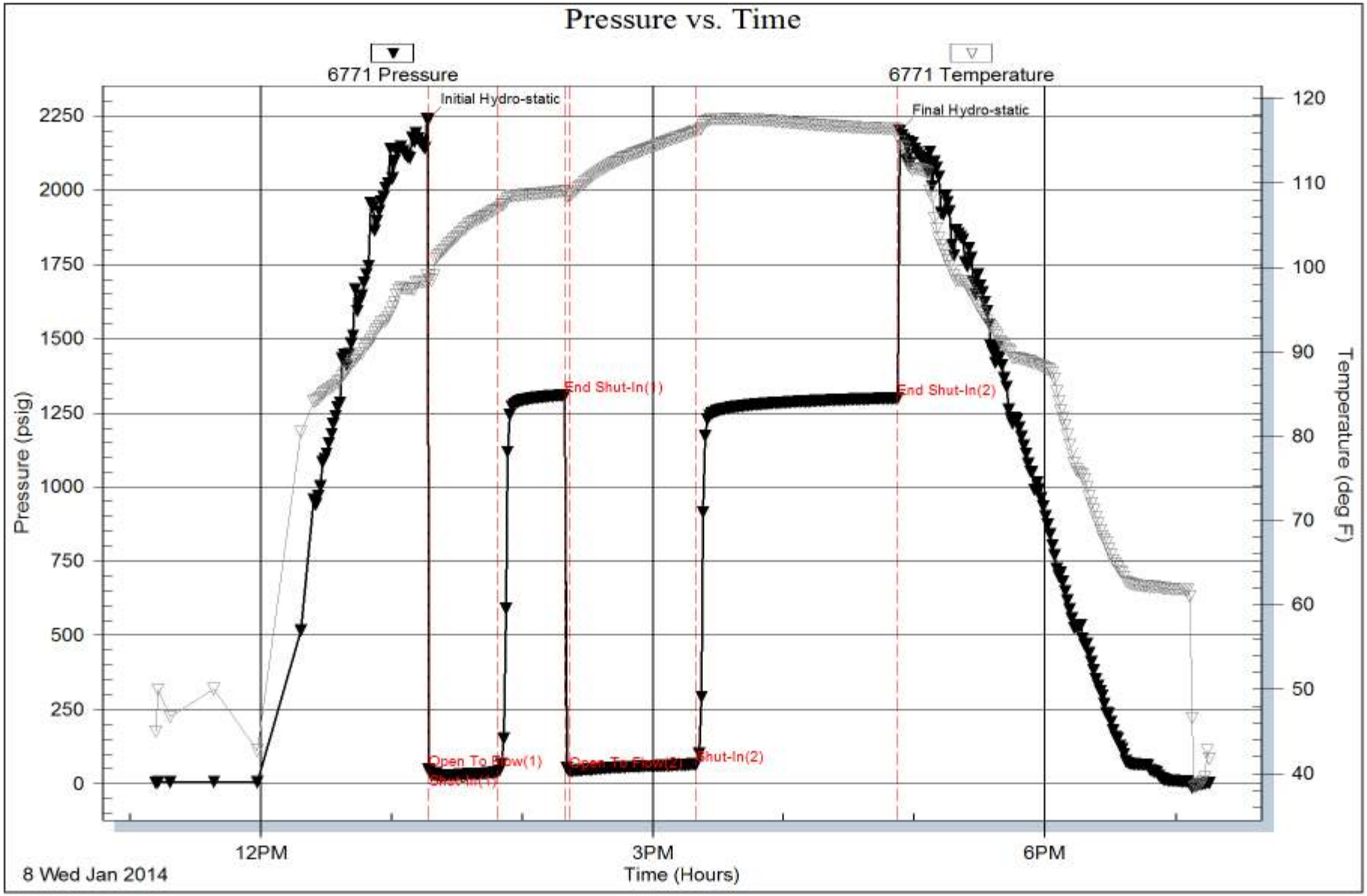
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	g o c m 20g 30o 50m	0.148
110.00	c g o 15g 85o	0.732
0.00	400' gas in pipe	0.000

Total Length: 140.00 ft Total Volume: 0.880 bbl

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


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
120
110
100
90
80
70
60
50
40
12PM
3PM
6PM
8 Wed Jan 2014
Time (Hours)

TIM PRIEST
Petroleum Geologist
(316)-213-6115

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL CO.
LEASE JANZEN 2-36
FIELD Wildcat
LOCATION 442' FSL, 2295' FEL
SEC 36 TWSP 16S RGE 34W
COUNTY Scott STATE Kansas
CONTRACTOR HD Rig #2
SPUD 12-30-13 COMP
RTD 4870' LTD 4872'
MUD UP 3500' TYPE MUD Chemical

SAMPLES SAVED FROM 3800' to RTD
DRILLING TIME KEPT FROM 3800' to RTD
SAMPLES EXAMINED FROM 3800' to RTD
GEOLOGICAL SUPERVISION FROM 3950' to RTD
GEOLOGIST ON WELL Tim Priest

ELEVATIONS
KB 3108'
DF
GL 3098'
Measurements Are All From KB

CASING
CONDUCTOR N/A
SURFACE 8-5/8" @ 264'
PRODUCTION 5 ½"@4870'

ELECTRICAL SURVEYS
CND;D/SP;P.E.
Micro
By:Weatherford

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2429 (+679)	2429 (+679)
Heebner Shale	3981 (-873)	3980 (-872)
Lansing	4025 (-917)	4022 (-914)
Stark	4304 (-1196)	4304 (-1196)
BKC	4402 (-1294)	4402 (-1294)
Fort Scott	4581 (-1473)	4580 (-1472)
Cherokee Shale	4607 (-1499)	4605 (-1497)
Mississippian	4790 (-1682)	4789 (-1681)

REMARKS Due to the positive drill stem tests, it was decided to set production casing to further test the well.

Respectfully Submitted,

Tim Priest
Petroleum Geologist

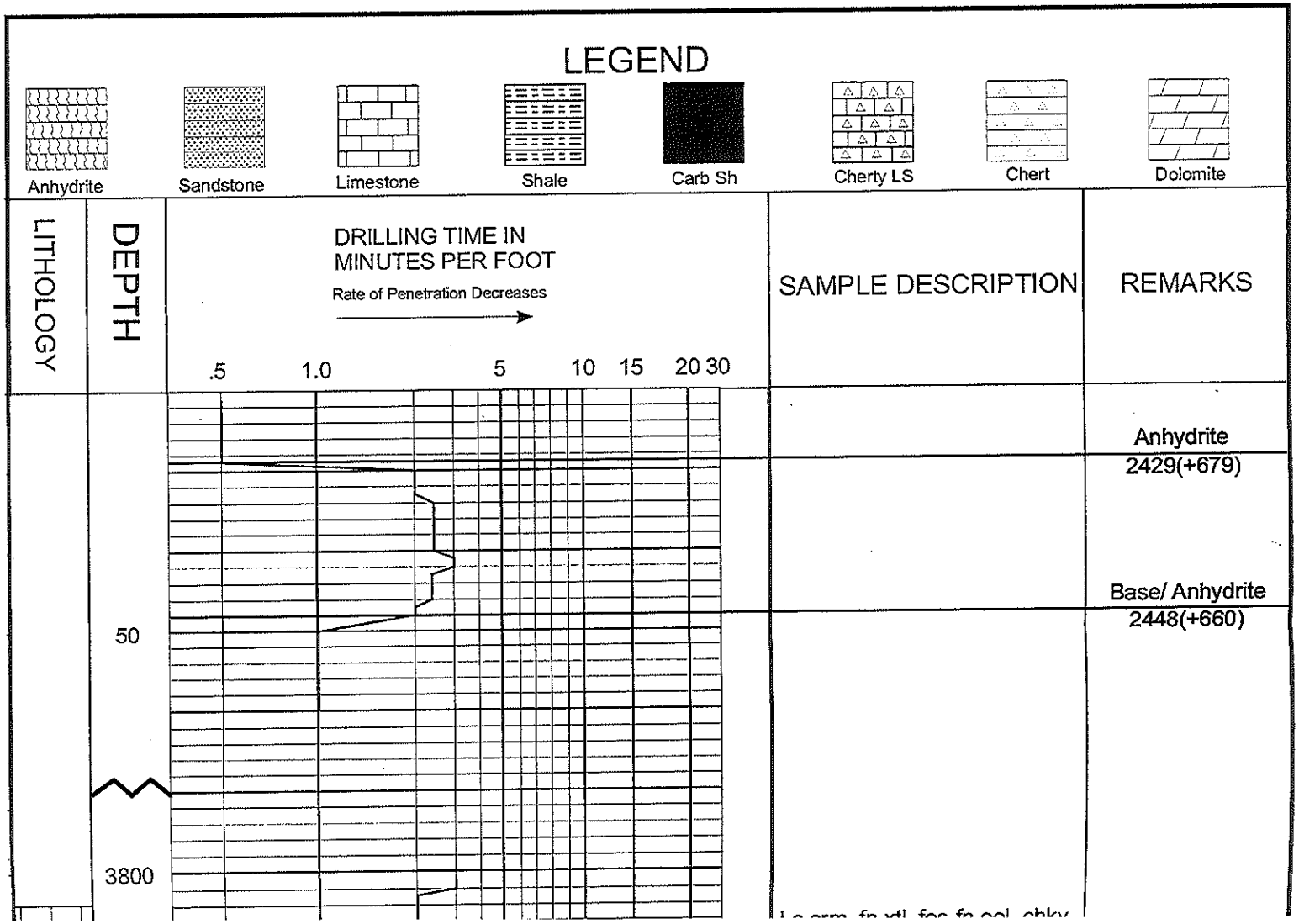
API #15-171-21006-00-00

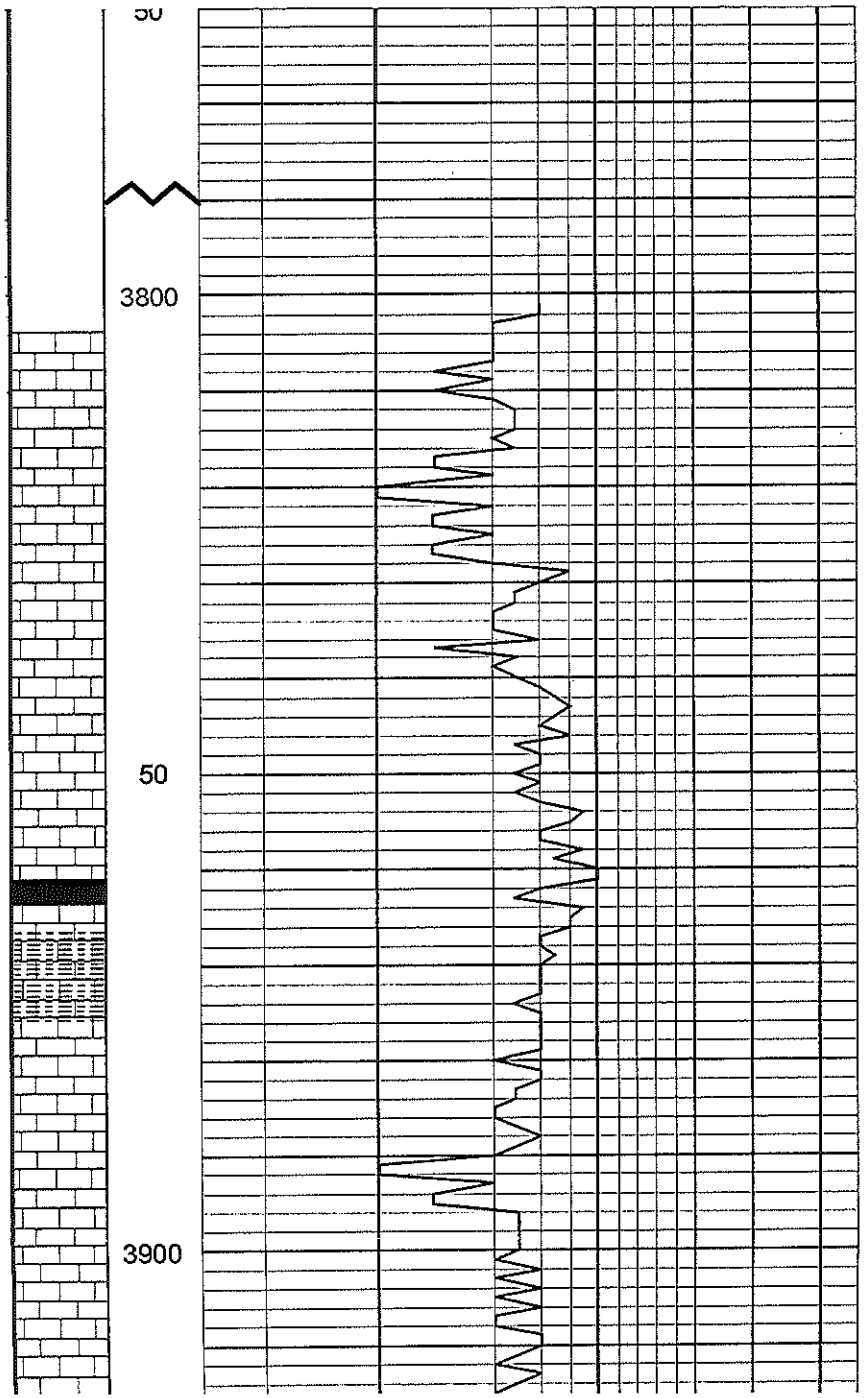
REMARKS Due to the positive drill stem tests, it was decided to set production casing to further test the well.

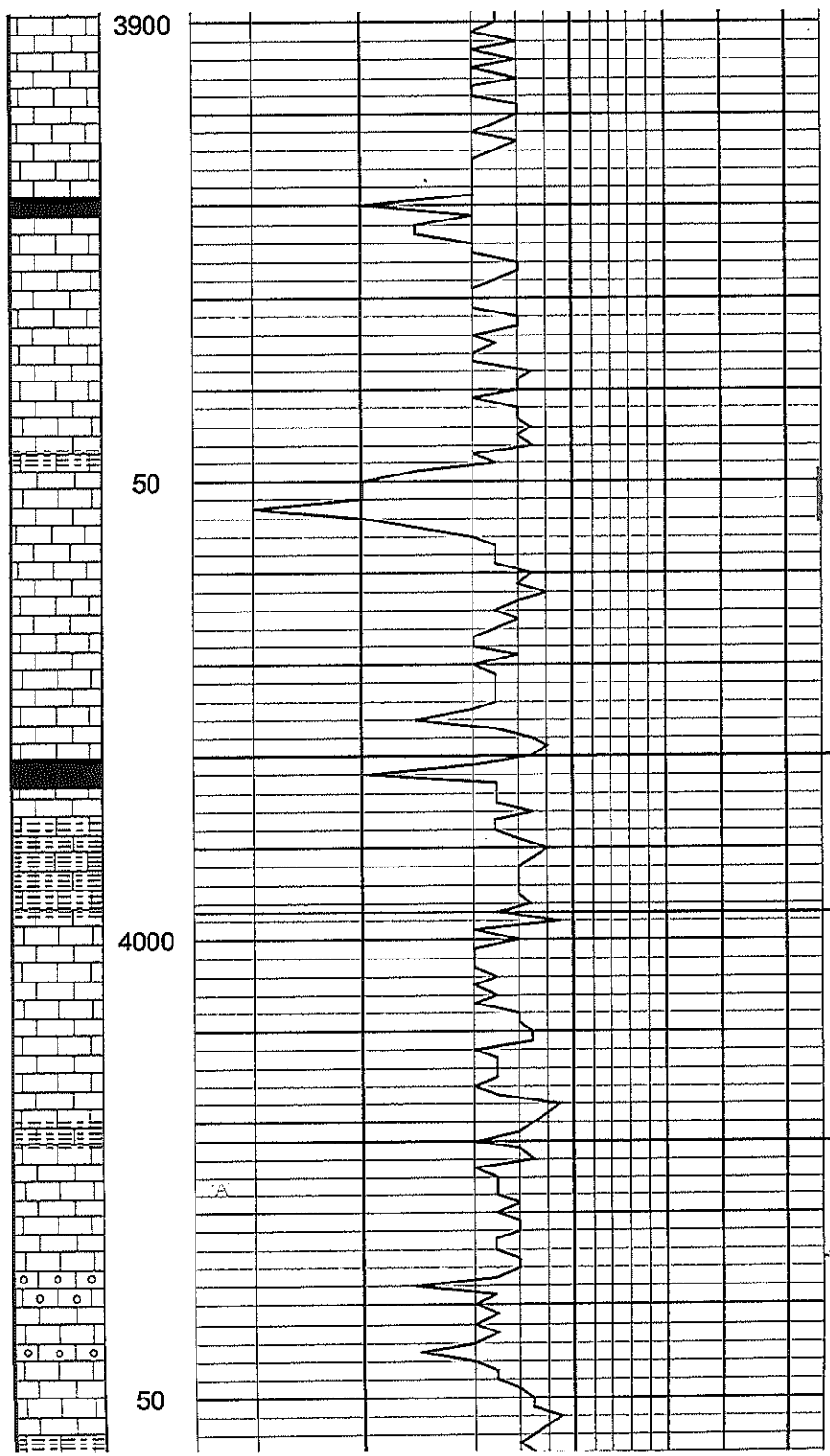
Respectfully Submitted,

API #15-171-21006-00-00

Tim Priest
Petroleum Geologist




50
3800
50
3900
Ls crm, fn xtl, fos-fn ool, chky, f int xtl & int frag por, NS
Ls crm, fn xtl, fos, v chky, f int xtl & int frag por, NS
Ls crm-tan, fn xtl, fos, p-f int xtl-pp por, NS
Ls crm-lt gry, fn xtl, fos, p-f int xtl-pp por, NS
Sh gry-blk
Ls crm-tan, fn xtl, arg in prt
Ls gry, vfn xtl, dnse
Sh gry-dk gry
Ls crm, fn xtl, fos, chky, p int xtl-pp por, NS



Ls crm, fn xtl, fos, chky, p int xtl-pp por, NS

Sh blk

Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS

Sh gry-blk

Ls crm-lt gry, fn xtl, fos, chky, f int xtl-pp por w/few vugs, sptd-sli sat blk stn, SSFO, no odor, dull fluor

Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, NS

Heebner
3980 (-872)

Sh blk, carb

Sh gry-dk gry, calc

Toronto
3997 (-889)

Ls crm-lt gry, fn xtl, fos, chky, f int xtl-pp por, NS

Sh gry-dk gry, calc

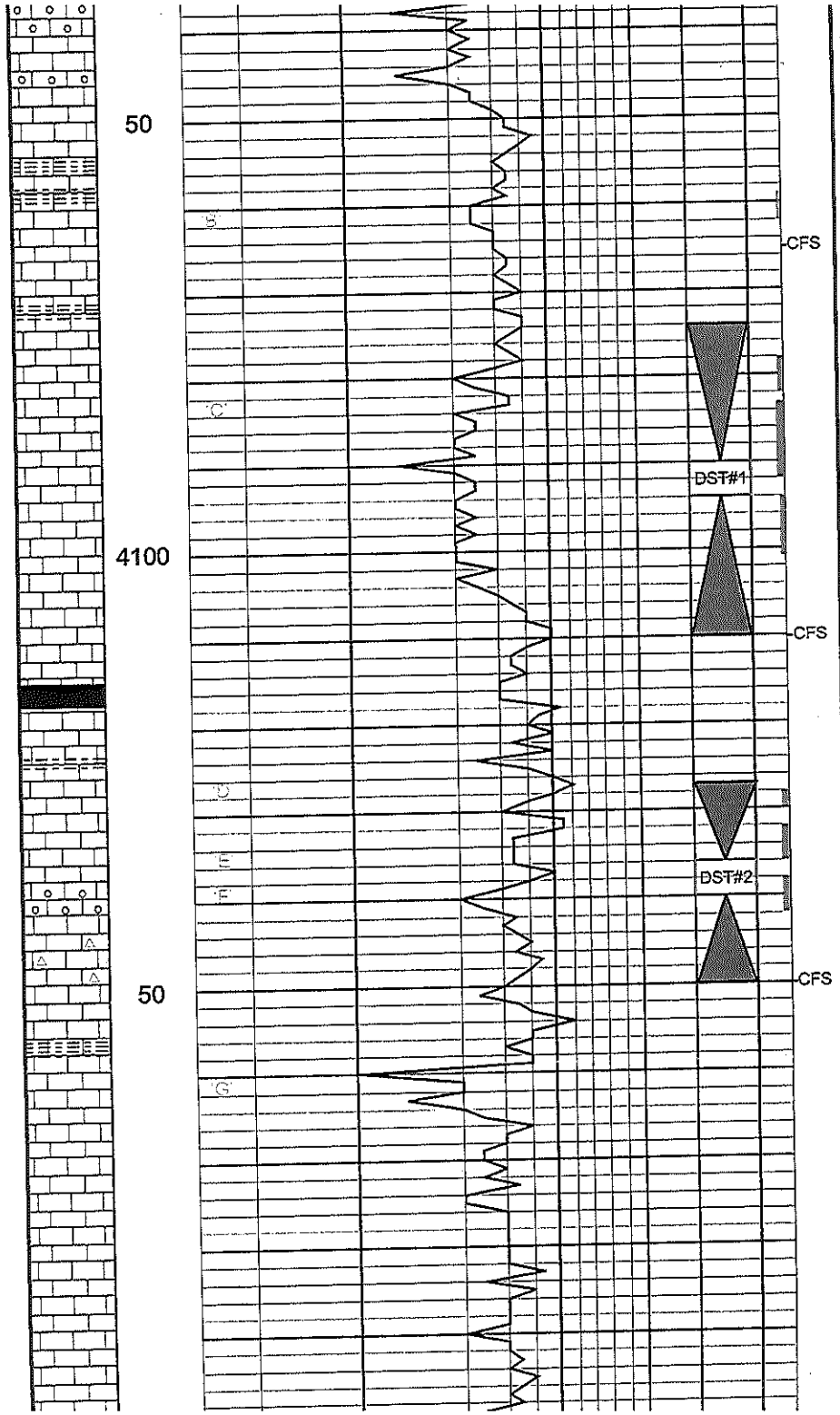
Lansing
4022 (-914)

Ls crm, fn xtl, fos, chky, p int xtl-pp por, NS

Ls crm, fn xtl, fos-ool, chky, p-f int frag por, NS

Ls crm-lt gry, vfn xtl, chty, dnse

Sh grn-gry, calc



Ls crm, fn xtl, fos-ool, chky, p-f int frag por, NS

Ls crm-lt gry, vfn xtl, chty, dnse

Sh grn-gry, calc

Ls crm-lt gry, fn xtl, fos, sli chky, sptd dk stn, VSSFO, sli odor, dull fluor

Sh gry-dk gry

Ls crm-lt gry, fn xtl, fos, sli chky, p-f int xtl-pp por w/few few vugs, sptd-sli sat dk stn, SFO, sli odor, dull-f fluor

Ls crm-lt gry, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd dk stn, SSFO, v sli odor, dull fluor

Ls crm-lt gry, vfn xtl, dnse

Sh blk carb

Ls crm-tan, vfn xtl, arg in prt

Ls crm-tan, fn xtl, fos-ool, sli chky, p-f int xtl-pp por, sptd-sat lt stn, SFO, f-strong odor, f-bri fluor

Ls crm-lt gry, vfn xtl, sli chty, dnse

Sh grn-gry

Ls crm, fn xtl, fos-fn ool, chky, chty in prt, p-f int xtl & int frag por, NS

Ls crm, fn xtl, sli chty, dnse

Ls crm-lt gry, fn xtl, fos, chky

Ls crm-lt gry, vfn xtl, chty, dnse

DST # 1
(4074'-4110')
15"-30"-45"-60"
IF: BOB in 8", no return
FF: BOB in 10", no return

Rec: 210' MCW(80%W,30% M), 1080' SW, Total fluid: 1290'

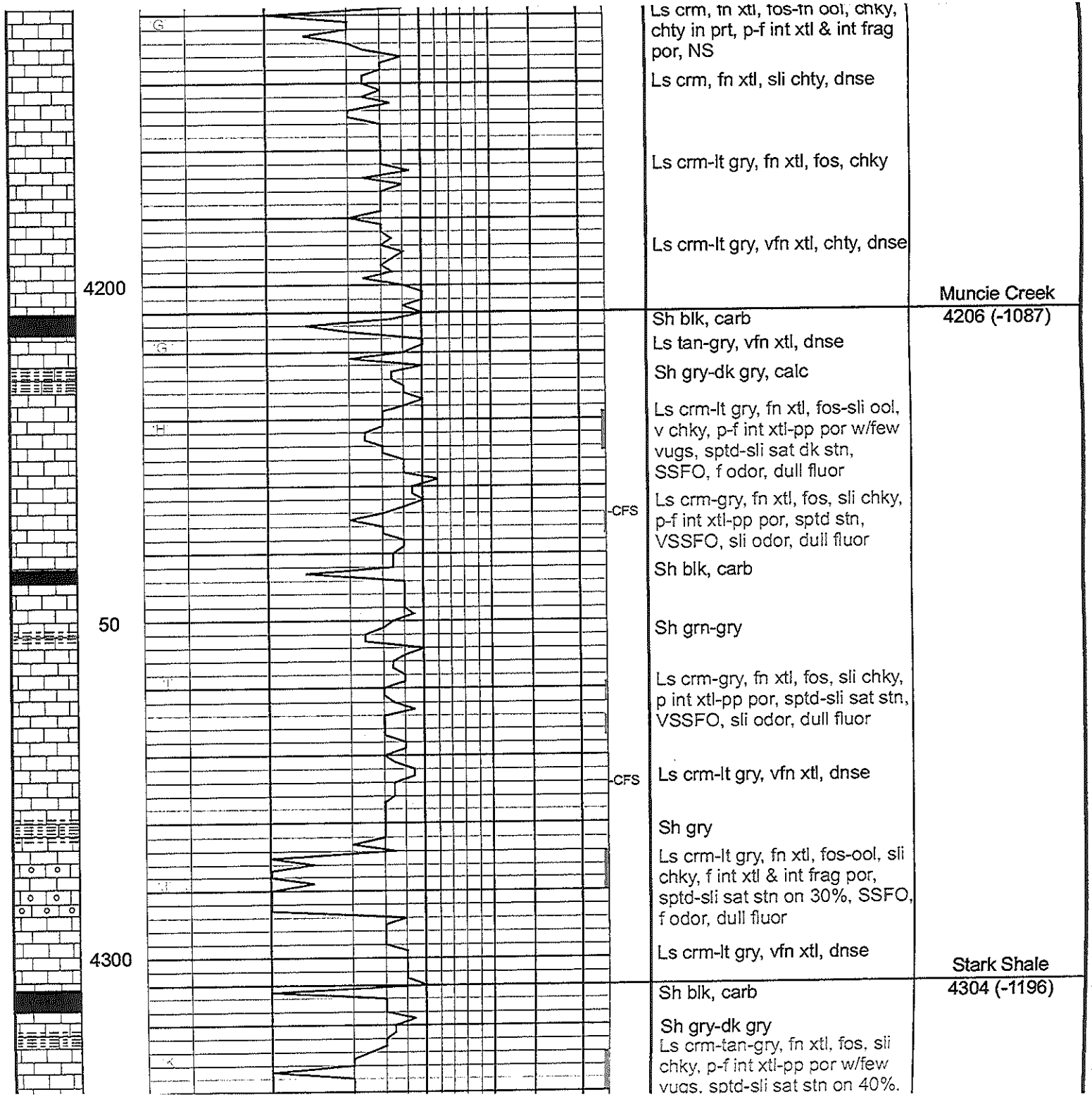
Fps: 72-252#/271-583#
SIPs: 1069#/1068#
HSPs: 1982#/1926#
BHT: 114 deg F
Chlor: 27,000ppm (system-3,500ppm)

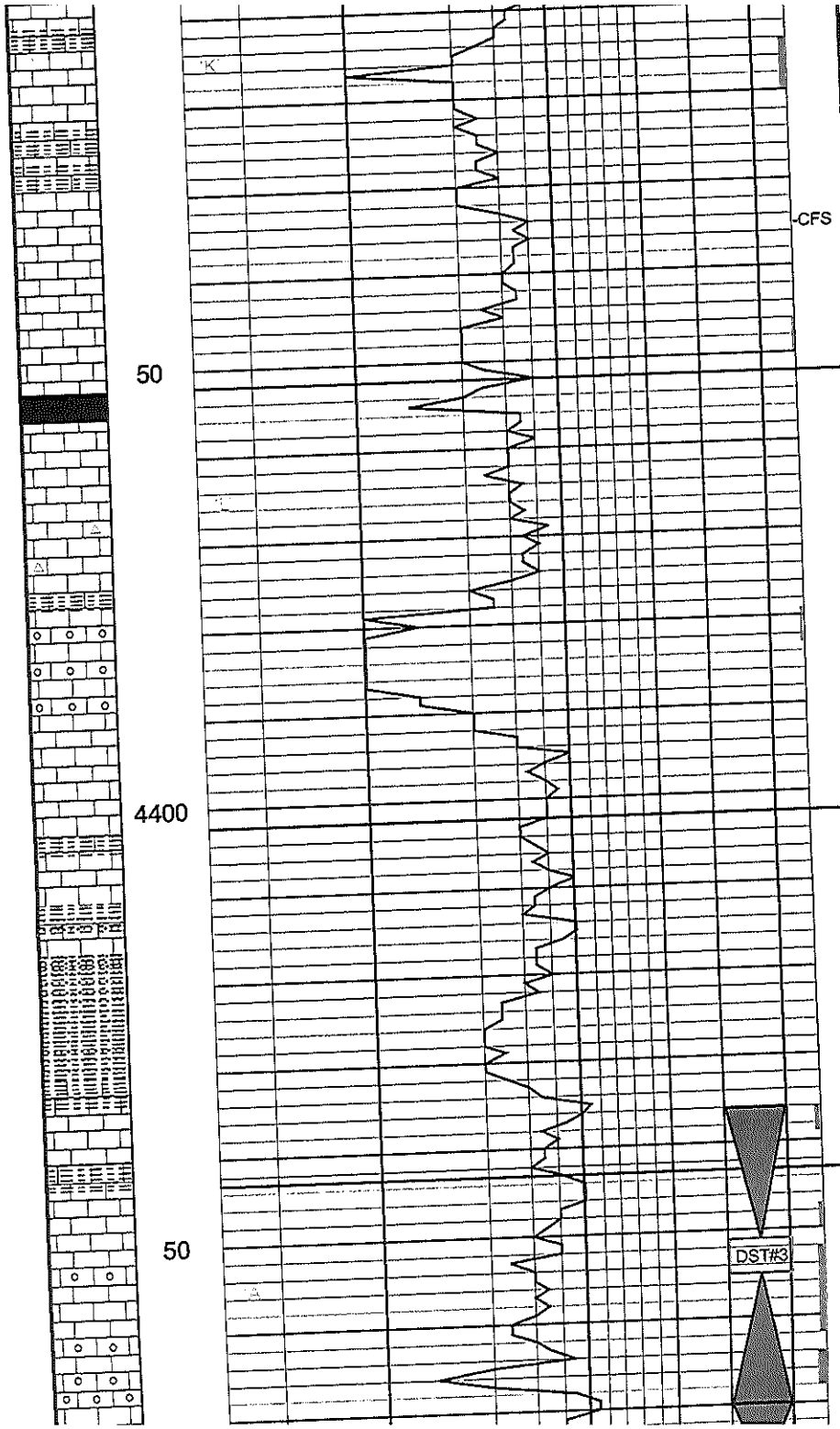
Pipe strap @ 4110' was 0.37' short to board

DST # 2
(4127'-4150')
30"-30"-60"-90"
IF: Surface blow, no return
FF: Surface blow, no return

Rec: 120' MW

Fps: 30-38#/53-70#
SIPs: 1070#/1079#
HSPs: 2016#/1921#
BHT: 107 deg F


4200
50
4300
G
H
I
J
K
-CFS
-CFS
Ls crm, fn xtl, fos-fn ool, chky, chty in prt, p-f int xtl & int frag por, NS
Ls crm, fn xtl, sli chty, dnse
Ls crm-lt gry, fn xtl, fos, chky
Ls crm-lt gry, vfn xtl, chty, dnse
Muncie Creek
4206 (-1087)
Sh blk, carb
Ls tan-gry, vfn xtl, dnse
Sh gry-dk gry, calc
Ls crm-lt gry, fn xtl, fos-sli ool, v chky, p-f int xtl-pp por w/few vugs, sptd-sli sat dk stn, SSFO, f odor, dull fluor
Ls crm-gry, fn xtl, fos, sli chky, p-f int xtl-pp por, sptd stn, VSSFO, sli odor, dull fluor
Sh blk, carb
Sh grn-gry
Ls crm-gry, fn xtl, fos, sli chky, p int xtl-pp por, sptd-sli sat stn, VSSFO, sli odor, dull fluor
Ls crm-lt gry, vfn xtl, dnse
Sh gry
Ls crm-lt gry, fn xtl, fos-ool, sli chky, f int xtl & int frag por, sptd-sli sat stn on 30%, SSFO, f odor, dull fluor
Ls crm-lt gry, vfn xtl, dnse
Stark Shale
4304 (-1196)
Sh blk, carb
Sh gry-dk gry
Ls crm-tan-gry, fn xtl, fos, sli chky, p-f int xtl-pp por w/few vugs, sptd-sli sat stn on 40%.



Sh gry-dk gry

Ls crm-tan-gry, fn xtl, fos, sli chky, p-f int xtl-pp por w/few vugs, sptd-sli sat stn on 40%, SFO, f odor, no fluor

Sh red-grn-gry

Ls crm-tan-gry, fn xtl, fos, chky, arg in prt

Ls crm-gry motld, fn xtl, fos, sli chky, f int xtl & int frag por, sptd stn on few pcs, VSSFO, sli odor, dull fluor

Hushpuckney
4352 (-1244)

Sh blk, carb

Ls crm-tan, vfn xtl, sli chty, dnse

Sh grn-gry-dk gry

Ls crm-lt gry, fn xtl, fos-ool in prt, p-f int xtl & int frag por, sptd stn on few pcs, VSSFO, no odor, no fluor

Ls gry, vfn xtl, dnse

Sh gry-blk

B/K.C.
4402 (-1294)

Sh var col

Ls lt gry, vfn xtl, dnse

Sh var col, silty, calc in prt

Sh var col, silty, sandy

Ls crm-tan, fn-vfn xtl, fos, pp-vug por, sptd dk stn, SSFO, f odor, dull fluor

Marmaton
4443 (-1335)

Ls crm-lt gry, vfn xtl, dnse

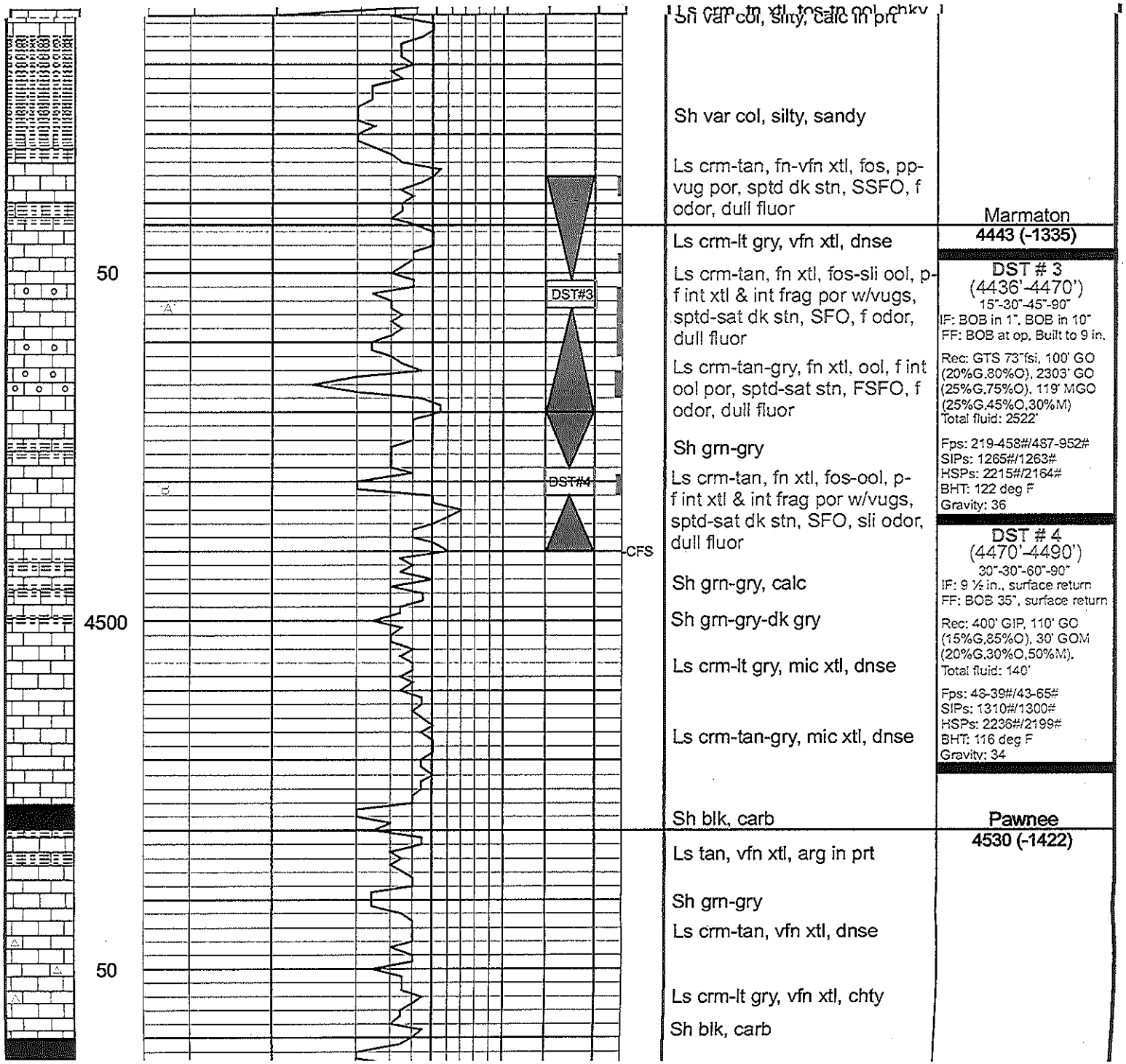
Ls crm-tan, fn xtl, fos-sli ool, p-f int xtl & int frag por w/vugs, sptd-sat dk stn, SFO, f odor, dull fluor

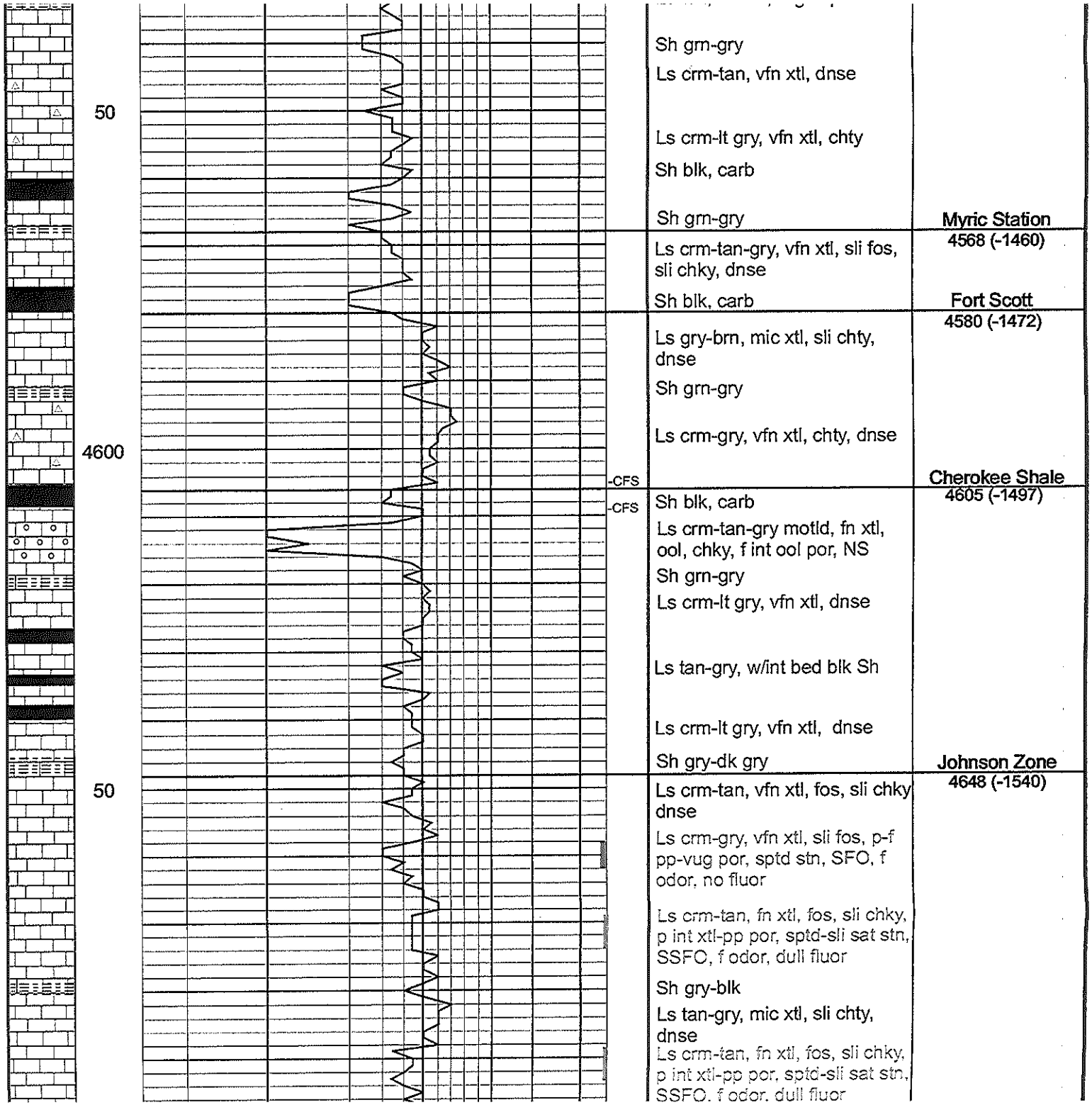
Ls crm-tan-gry, fn xtl, ool, f int ool por, sptd-sat stn, FSFO, f odor, dull fluor

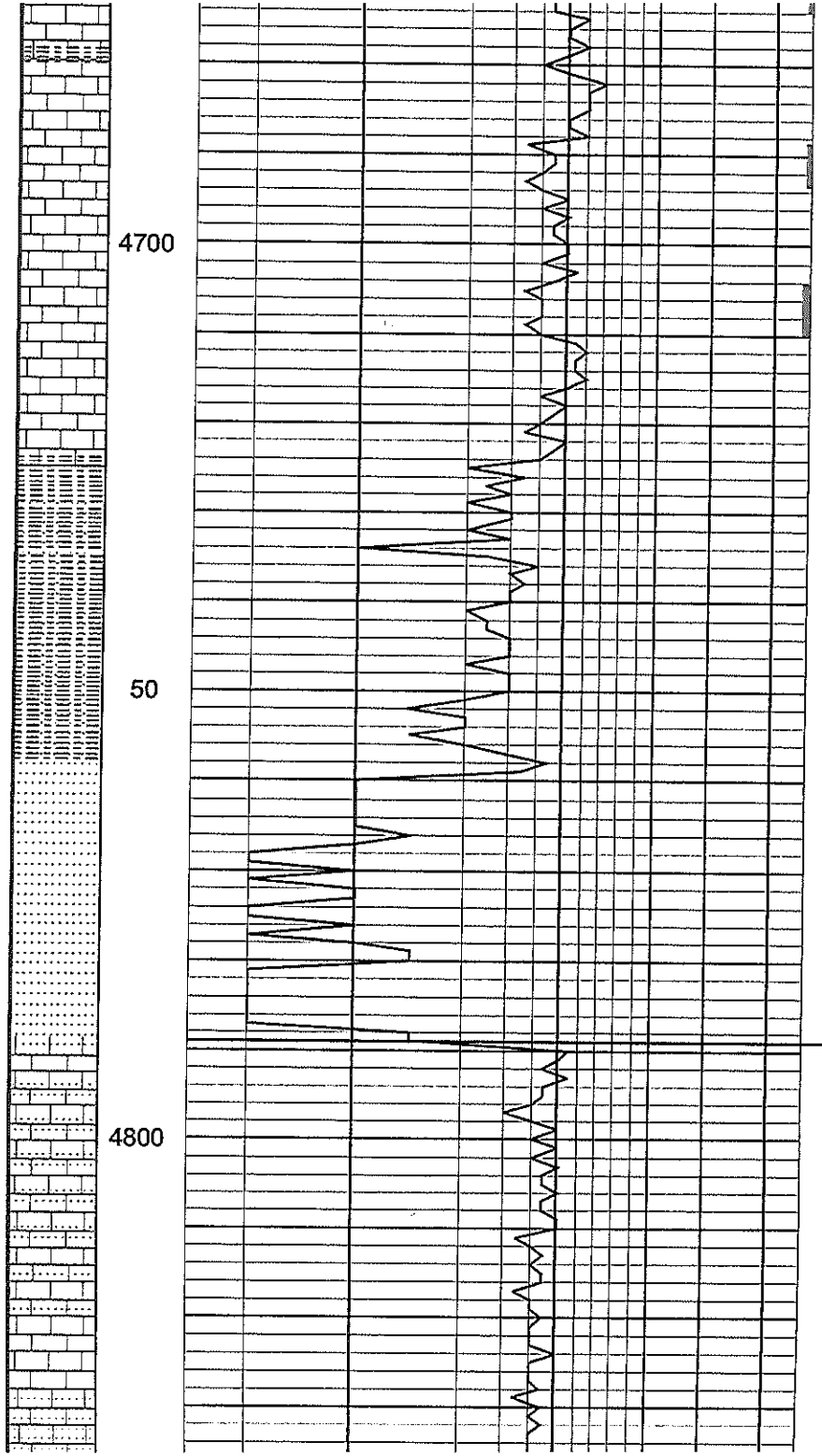
DST # 3
(4436'-4470')
15"-30"-45"-90"
IF: BOB in 1", BOB in 10"
FF: BOB at op, Built to 9 in.

Rec: GTS 73"fsi, 100' GO (20%G,80%O), 2303' GO (25%G,75%O), 119' MGO (25%G,45%O,30%M)
Total fluid: 2522'

Pres: 219-458#/487-952#


50
4500
50
DST#3
DST#4
CFS
Ls crm-tn xtl, fos-tn pel, chky
Sh var col, slty, calc in prt
Sh var col, silty, sandy
Ls crm-tan, fn-vfn xtl, fos, pp-vug por, sptd dk stn, SSFO, f odor, dull fluor
Marmaton
4443 (-1335)
Ls crm-lt gry, vfn xtl, dnse
Ls crm-tan, fn xtl, fos-sli ool, p-f int xtl & int frag por w/vugs, sptd-sat dk stn, SFO, f odor, dull fluor
Ls crm-tan-gry, fn xtl, ool, f int ool por, sptd-sat stn, FSFO, f odor, dull fluor
Sh grn-gry
Ls crm-tan, fn xtl, fos-ool, p-f int xtl & int frag por w/vugs, sptd-sat dk stn, SFO, sli odor, dull fluor
Sh grn-gry, calc
Sh grn-gry-dk gry
Ls crm-lt gry, mic xtl, dnse
Ls crm-tan-gry, mic xtl, dnse
Sh blk, carb
Pawnee
4530 (-1422)
Ls tan, vfn xtl, arg in prt
Sh grn-gry
Ls crm-tan, vfn xtl, dnse
Ls crm-lt gry, vfn xtl, chty
Sh blk, carb
DST # 3
(4436'-4470')
15"-30"-45"-90"
IF: BOB in 1". BOB in 10"
FF: BOB at op. Built to 9 in.
Rec: GTS 73"fsi, 100' GO (20%G,80%O), 2303' GO (25%G,75%O), 119' MGO (25%G,45%O,30%M)
Total fluid: 2522'
Fps: 219-458#/487-952#
SIPs: 1265#/1263#
HSPs: 2215#/2164#
BHT: 122 deg F
Gravity: 36
DST # 4
(4470'-4490')
30"-30"-60"-90"
IF: 9 ½ in., surface return
FF: BOB 35", surface return
Rec: 400' GIP, 110' GO (15%G,85%O), 30' GOM (20%G,30%O,50%M).
Total fluid: 140'
Fps: 48-39#/43-65#
SIPs: 1310#/1300#
HSPs: 2236#/2199#
BHT: 116 deg F
Gravity: 34


50
4600
50
-CFS
-CFS
Sh grn-gry
Ls crm-tan, vfn xtl, dnse
Ls crm-lt gry, vfn xtl, chty
Sh blk, carb
Sh grn-gry
Myric Station
4568 (-1460)
Ls crm-tan-gry, vfn xtl, sli fos, sli chky, dnse
Sh blk, carb
Fort Scott
4580 (-1472)
Ls gry-brn, mic xtl, sli chty, dnse
Sh grn-gry
Ls crm-gry, vfn xtl, chty, dnse
Cherokee Shale
4605 (-1497)
Sh blk, carb
Ls crm-tan-gry motld, fn xtl, ool, chky, f int ool por, NS
Sh grn-gry
Ls crm-lt gry, vfn xtl, dnse
Ls tan-gry, w/int bed blk Sh
Ls crm-lt gry, vfn xtl, dnse
Sh gry-dk gry
Johnson Zone
4648 (-1540)
Ls crm-tan, vfn xtl, fos, sli chky dnse
Ls crm-gry, vfn xtl, sli fos, p-f pp-vug por, sptd stn, SFO, f odor, no fluor
Ls crm-tan, fn xtl, fos, sli chky, p int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull fluor
Sh gry-blk
Ls tan-gry, mic xtl, sli chty, dnse
Ls crm-tan, fn xtl, fos, sli chky, p int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull fluor



p int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull fluor

Sh gry-blk

Ls tan-gry, mic xtl, sli chty, dnse

Ls crm-tan, fn xtl, fos, sli chky, p int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull fluor

Ls tan-gry, mic xtl, dnse

Ls tan-gry, vfn xtl, sli fos, p-f pp-vug por, sptd stn, SFO, f odor, no fluor

Ls tan-gry, mic xtl, dnse

Sh grn-gry-dk gry

Sh grn-gry, silty, w/lt grn vfn grn SS

Sh var col, silty

SS lt gry-lt grn, fn-med grn, poor sort, friable, abun loose grns, NS

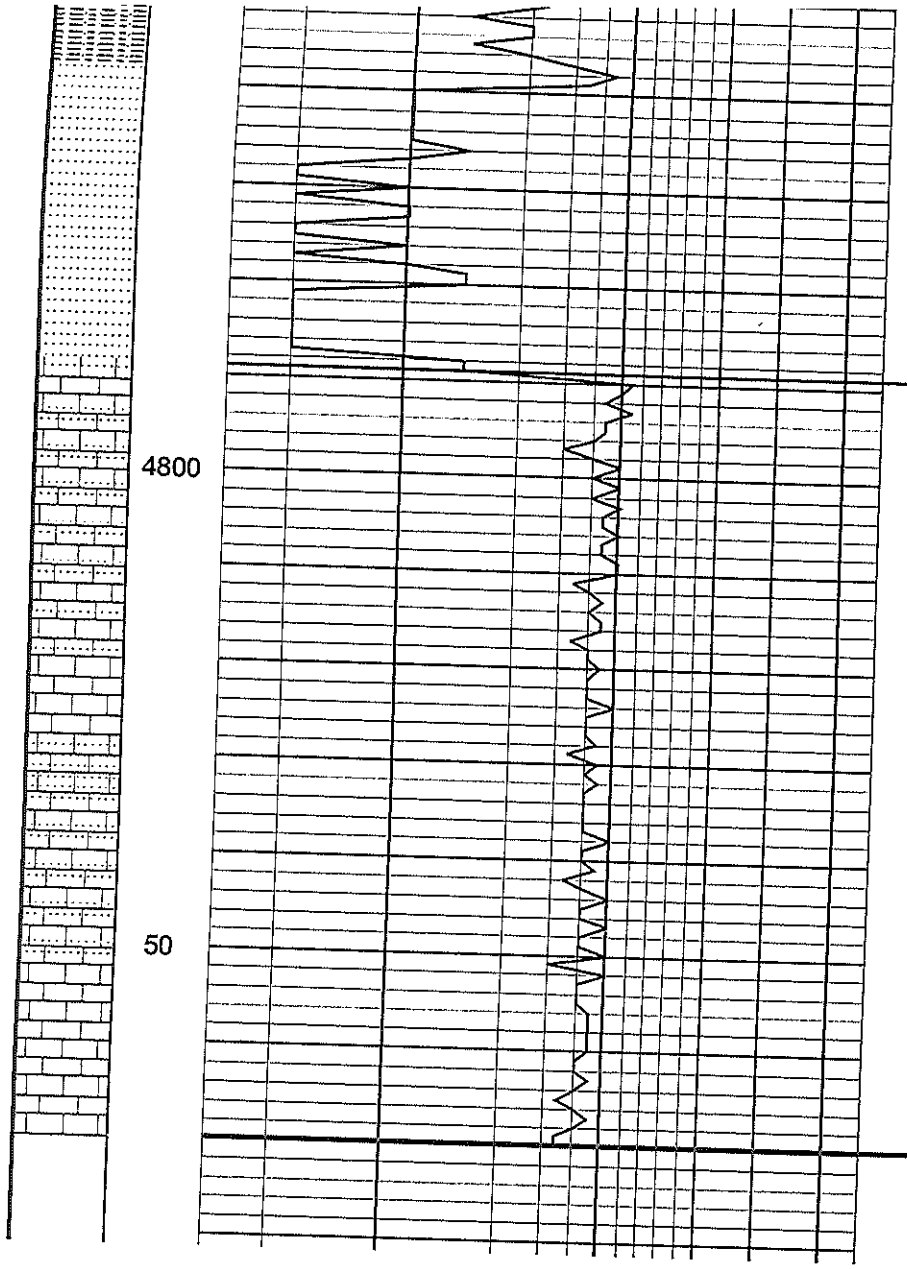
Mississippian
4789 (-1681)

Ls tan, vfn xtl, sli sandy, dnse

Ls tan, vfn xtl, sli sandy, sli chky dnse

Ls crm-lt gry, vfn xtl, dnse

Ls tan, vfn xtl, sli sandy, sli chky dnse



Sh var col, silty

SS lt gry-lt grn, fn-med grn, poor sort, friable, abun loose grns, NS

Mississippian
4789 (-1681)

Ls tan, vfn xtl, sli sandy, dnse

Ls tan, vfn xtl, sli sandy, sli chky dnse

Ls crm-lt gry, vfn xtl, dnse

Ls tan, vfn xtl, sli sandy, sli chky dnse

Ls crm-lt gry, vfn xtl, sli sandy, sli chky, dnse

Ls crm, vfn xtl, chky, dnse

Total Depth
4870' (-1762)