Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1194054

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: Mark Herndon
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 #:

02/03/2014	02/12/2014	02/28/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-21022-00-00
Spot Description:
NE - NW - SW - SW Sec. 25 Twp. 16 S. R. 34 ☐ East ☑ West
1230 Feet from ☐ North / ☑ South Line of Section
435 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: Carson Well #: 2-25
Field Name: Pence East
Producing Formation: Johnson, Myric Station, Marmaton
Elevation: Ground: 3100 Kelly Bushing: 3112
Total Vertical Depth: 4860 Plug Back Total Depth: 4812
Amount of Surface Pipe Set and Cemented at: 263 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2365 Feet
If Alternate II completion, cement circulated from: 2365
feet depth to: 0 w/ 305 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: 03/25/2014
☑ **Confidential Release Date:** 03/24/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 03/25/2014

[redacted] 1194054

Operator Name: Shakespeare Oil Co., Inc. Lease Name: Carson Well #: 2-25

Sec. 25 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	263	Class A	180	3% CaCl2, 2% gel
production	7.875	5.5	15.5	4861	ASC	165	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	2365-0	Poz	305	65/35 w/8% gel, 1/4#/sx flocele w/200# 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	1250 gal 15% RWR	4690-96, 4679-83
4	Myrick Station	250 gal 15% RWR	4551-53
4	Marmaton "C"	250 gal 15% RWR	4500-03, 4492-97
4	Marmaton "A"	750 gal 15% RWR	4436-50, 4430-34

TUBING RECORD: Size: 2.375 Set At: 4806.2 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/01/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	160		1		36

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	Carson 2-25
Doc ID	1194054

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Carson 2-25
Doc ID	1194054

Tops

Name	Top	Datum
Base Anhydrite	2445	+667
Heebner	3968	-856
Lansing	4010	-898
Muncie Creek	4193	-1081
Stark Shale	4292	-1180
Hushpuckney	4337	-1225
Pawnee	4512	-1400
L. Cherokee Shale	4590	-1478
Johnson	4638	-1526
Morrow Shale	4711	-1599
Mississippian	4768	-1656

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Carson 2-25
Doc ID	1194054

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	263	Class A	180	3% CaCl2, 2% gel
production	7.875	5.5	15.5	4861	ASC	165	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: 141512
Invoice Date: Feb 18, 2014
Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62564	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-04	Oakley	Feb 18, 2014	3/20/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carson #2-25		
195.00	CEMENT MATERIALS	Class A Common	17.90	3,490.50
105.00	CEMENT MATERIALS	Pozmix	9.35	981.75
21.00	CEMENT MATERIALS	Gel	23.40	491.40
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
4.00	CEMENT MATERIALS	Cottonseed Hulls	35.00	140.00
633.00	CEMENT SERVICE	Cubic Feet Charge	2.48	1,569.84
1,082.38	CEMENT SERVICE	Ton Mileage Charge	2.60	2,814.19
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	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Adam Flipse		

INT

10502-5

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

$ 3,184.57 ✓

ONLY IF PAID ON OR BEFORE
Mar 15, 2014

Subtotal	12,738.52
Sales Tax	434.10
Total Invoice Amount	13,172.62
Payment/Credit Applied	
TOTAL	**13,172.62**

DW

ALLIED OIL & GAS SERVICES, LLC 062564

Federal Tax I.D. # 20-8651476

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

SERVICE POINT: Oakley Ks

DATE 8/18/14	SEC. 25	TWP. 16	RANGE 34	CALLED OUT	ON LOCATION	JOB START 1:00 pm	JOB FINISH 2:00 pm
LEASE Carson	WELL # 2-25	LOCATION Pence E to Eagle 2S E into				COUNTY Scott	STATE Ks
OLD OR NEW (Circle one)							

CONTRACTOR Wild West
TYPE OF JOB Port Collar
HOLE SIZE T.D.
CASING SIZE 5½ DEPTH 4866
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL Port Collar DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 500 65/35 8% gel ¼ # Flo
100 lb Hulls On Side used 300 sk

		@	
COMMON	195	@ 17.90	3490.50
POZMIX	105	@ 9.35	981.75
GEL	21	@ 23.40	491.40
CHLORIDE		@	
ASC		@	
Flo Seal	75 lb	@ 2.97	222.75
		@	
Hulls	200 lb 4 sk	@ 35.00	140.00
		@	
		@	
		@	
		@	
		@	
HANDLING	633 CF	@ 2.48	1569.84
MILEAGE	2.60 ton/mile 24.053 Ton		2814.20
		TOTAL	9710.79

EQUIPMENT

PUMP TRUCK # 422-281 CEMENTER Alan Ryan
HELPER Kevin Ryan
BULK TRUCK # 818 DRIVER Adam Flipse
BULK TRUCK # DRIVER

REMARKS: 1:00 - Hold
Test Tool - Open Tool - Est Circulation,
Mix 300 sk Cement w/ 200 lb Hulls, Displace Cement 8¼ BBL
Shut - Test Tool - 1:00 - Hold Run 5 Jts Reverse
Clean Cement Did Circulate
Thank You
Alan, Kevin, Adam

SERVICE

		@	
DEPTH OF JOB			
PUMP TRUCK CHARGE			2483.59
EXTRA FOOTAGE		@	
MILEAGE	45	@ 7.70	346.50
MANIFOLD		@	
Cor Vehicle	45	@ 4.40	198.00
		@	
		TOTAL	3028.09

CHARGE TO: Shields Spence
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 J. Cobb

SIGNATURE

SALES TAX (If Any)
TOTAL CHARGES 12,738.88
DISCOUNT 3,184.57 IF PAID IN 30 DAYS
9,553.71 Net.

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 141377
Invoice Date: Feb 13, 2014
Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62216	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-02	Oakley	Feb 13, 2014	3/15/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carson #2-25		
165.00	CEMENT MATERIALS	ASC	20.90	3,448.50
18.00	CEMENT MATERIALS	Salt	26.35	474.30
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
116.00	CEMENT MATERIALS	CD-31	10.30	1,194.80
12.00	CEMENT MATERIALS	Super Flush	58.70	704.40
208.00	CEMENT SERVICE	Cubic Feet Charge	2.48	515.84
349.20	CEMENT SERVICE	Ton Mileage Charge	2.60	907.92
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	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

INT

RECEIVED
FEB 24 2014
KCC WICHITA

10 S02-S

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

$ 2,909.87 ✓

ONLY IF PAID ON OR BEFORE
Mar 10, 2014

Subtotal	11,639.51
Sales Tax	540.39
Total Invoice Amount	12,179.90
Payment/Credit Applied	
TOTAL	**12,179.90**

DW

ALLIED OIL & GAS SERVICES, LLC 062216

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
2-13-14	25	16	34			10:30PM	11:00PM

LEASE	WELL #	LOCATION	COUNTY	STATE
Larson	2-25	Ponse & 40 Eagle Rd	Scott	KS
OLD OR NEW (Circle one)		2 S into		

CONTRACTOR Southwind # 20
TYPE OF JOB P.rod
HOLE SIZE 7 7/8 T.D. 4862
CASING SIZE 5 1/2 DEPTH 4861
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL Portollar DEPTH 3366
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42'
CEMENT LEFT IN CSG. 42'
PERFS.
DISPLACEMENT 115.16

EQUIPMENT

PUMP TRUCK CEMENTER Kelly Grabel
423 HELPER Wayne McGlothy
BULK TRUCK
373 DRIVER Brandon Wilkinson
BULK TRUCK
DRIVER

REMARKS:

Rigged up, pumped mud flush mixed 30 sks BH mixed 135 sks ASC down casing released plug & displaced with 115 1/2 bbl water with a lift pressure of 1000 PSI Plug landed @ 1300 PSI bled back pressure float held Thank You Kelly & Crew

CHARGE TO: Shakespeare

STREET

CITY STATE ZIP

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

OWNER Same

CEMENT

AMOUNT ORDERED 165 sks ASC 10# salt 5# gilsonite 3/4 of 1% CD31 2# Gel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC	165 sks	@ 20.90	3448.50
salt	10 sks	@ 26.35	474.30
gilsonite	825 lb	@ .98	808.50
CD-31	116 lb	@ 10.30	1194.80
superflush	12 bbl	@ 58.80	
		@	
		@	
		@	
		@	
HANDLING	208 cu ft	@ 2.45	515.84
MILEAGE	7.76 ton x 45 x 2.60		907.92
		TOTAL	7349.86

SERVICE

DEPTH OF JOB			4861
PUMP TRUCK CHARGE			2765.75
EXTRA FOOTAGE		@	
MILEAGE	MIHV 45	@ 7.70	346.50
MANIFOLD	Head	@	275.00
	MILV 45	@ 4.40	198.00
		@	
		TOTAL	3585.25

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		@	
		TOTAL	

SALES TAX (If Any)

TOTAL CHARGES 10,935.11

DISCOUNT 2,733.77 IF PAID IN 30 DAYS

8,201.33 Net.

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 141255
Invoice Date: Feb 4, 2014
Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62209	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-01	Oakley	Feb 4, 2014	3/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Carson #2-25		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
3.00	CEMENT MATERIALS	Gel	23.40	70.20
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
194.64	CEMENT SERVICE	Cubic Feet Charge	2.48	482.71
380.70	CEMENT SERVICE	Ton Mileage Charge	2.60	989.82
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
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	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

RECEIVED
FEB 18 2014

10502-5

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

$ 1,801.37

ONLY IF PAID ON OR BEFORE

Mar 1, 2014

Subtotal	7,205.48
Sales Tax	299.61
Total Invoice Amount	7,505.09
Payment/Credit Applied	
TOTAL	**7,505.09**

ALLIED OIL & GAS SERVICES, LLC 062209

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
2-4-14	25	16	34			11:30AM	2:00AM

LEASE	WELL #	LOCATION	COUNTY	STATE
Carson	2-25	Scott Lake & Pence Rd W 20 E 1/2 S E & N into	Scott	KS

OLD OR NEW (Circle one): NEW

CONTRACTOR Southwind #70 OWNER Same
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 264
CASING SIZE 8 5/8 DEPTH 264
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 15 3/4

CEMENT

AMOUNT ORDERED 180 sks com 3% cc 2% gel

		@	
COMMON	180 sks	@ 17.90	3222.00
POZMIX		@	
GEL	3 sks	@ 23.40	70.20
CHLORIDE	6 sks	@ 64.00	384.00
ASC		@	
HANDLING	194.64 cuft	@ 2.48	482.71
MILEAGE	8.46 ton X 45 X 2.60		989.82
		TOTAL	5148.73

EQUIPMENT

PUMP TRUCK CEMENTER Billy Gabel
422 HELPER Wayne McGaghy
BULK TRUCK
396-4306 DRIVER Juan (TWS)
BULK TRUCK
DRIVER

REMARKS:

mixed 180 sks com 3% cc
2% gel
displaced with 15 3/4 bbl water
shut in.

cement did circulate

Thank You
Billy & Crew

SERVICE

		@	
DEPTH OF JOB			264
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	Mi HV 45	@ 7.70	346.50
MANIFOLD		@	
	Mi LV 45	@ 4.40	198.00
		@	
		TOTAL	2056.75

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 7,205.48
DISCOUNT 1,801.37 IF PAID IN 30 DAYS
5,404.11 Net.

PRINTED NAME Sam Staggs

SIGNATURE Sam Staggs

DRILL STEM TEST REPORT

Shakespeare Oil Co.

202 West Main St.
Salem IL
62881
ATTN: Mark Herdon

25-16-34 Scott Co. KS

Caron 2-25

Job Ticket: 56743 **DST#: 1**

Test Start: 2014.02.09 @ 11:18:15

GENERAL INFORMATION:

Formation: **Lansing A-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:04:00
Time Test Ended: 19:32:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 65

Interval: 4025.00 ft (KB) To 4120.00 ft (KB) (TVD)
Total Depth: 4120.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

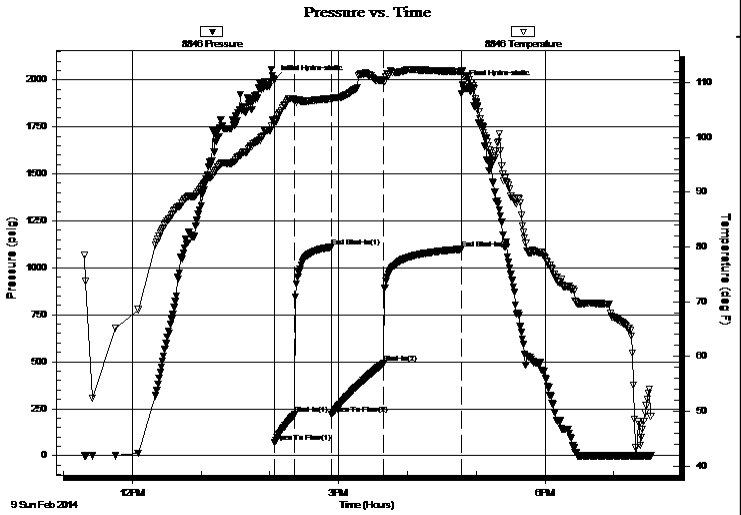
Reference Elevations: 3109.00 ft (KB)
3099.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: 492.32 psig @ 4026.00 ft (KB)
Start Date: 2014.02.09 End Date: 2014.02.09
Start Time: 11:18:15 End Time: 19:32:45

Capacity: 8000.00 psig
Last Calib.: 2014.02.09
Time On Btm: 2014.02.09 @ 14:03:45
Time Off Btm: 2014.02.09 @ 16:48:15

TEST COMMENT: IF:BOB in 4 min.
IS:No return blow
FF:BOB in 4 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.05	103.14	Initial Hydro-static
1	69.83	102.45	Open To Flow (1)
18	219.64	106.82	Shut-In(1)
50	1110.00	107.05	End Shut-In(1)
51	220.83	106.86	Open To Flow (2)
96	492.32	110.42	Shut-In(2)
163	1098.91	112.02	End Shut-In(2)
165	1973.01	112.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mud 100% m	4.35
248.00	mcw 40% m 60%w	3.48
434.00	mcw 10%m 90%w	6.09

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

202 West Main St.
Salem IL
62881

ATTN: Mark Herdon

25-16-34 Scott Co. KS

Caron 2-25

Job Ticket: 56743 **DST#: 1**

Test Start: 2014.02.09 @ 11:18:15

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:	13000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mud 100% m	4.348
248.00	mcw 40% m 60%w	3.479
434.00	mcw 10%m 90%w	6.088

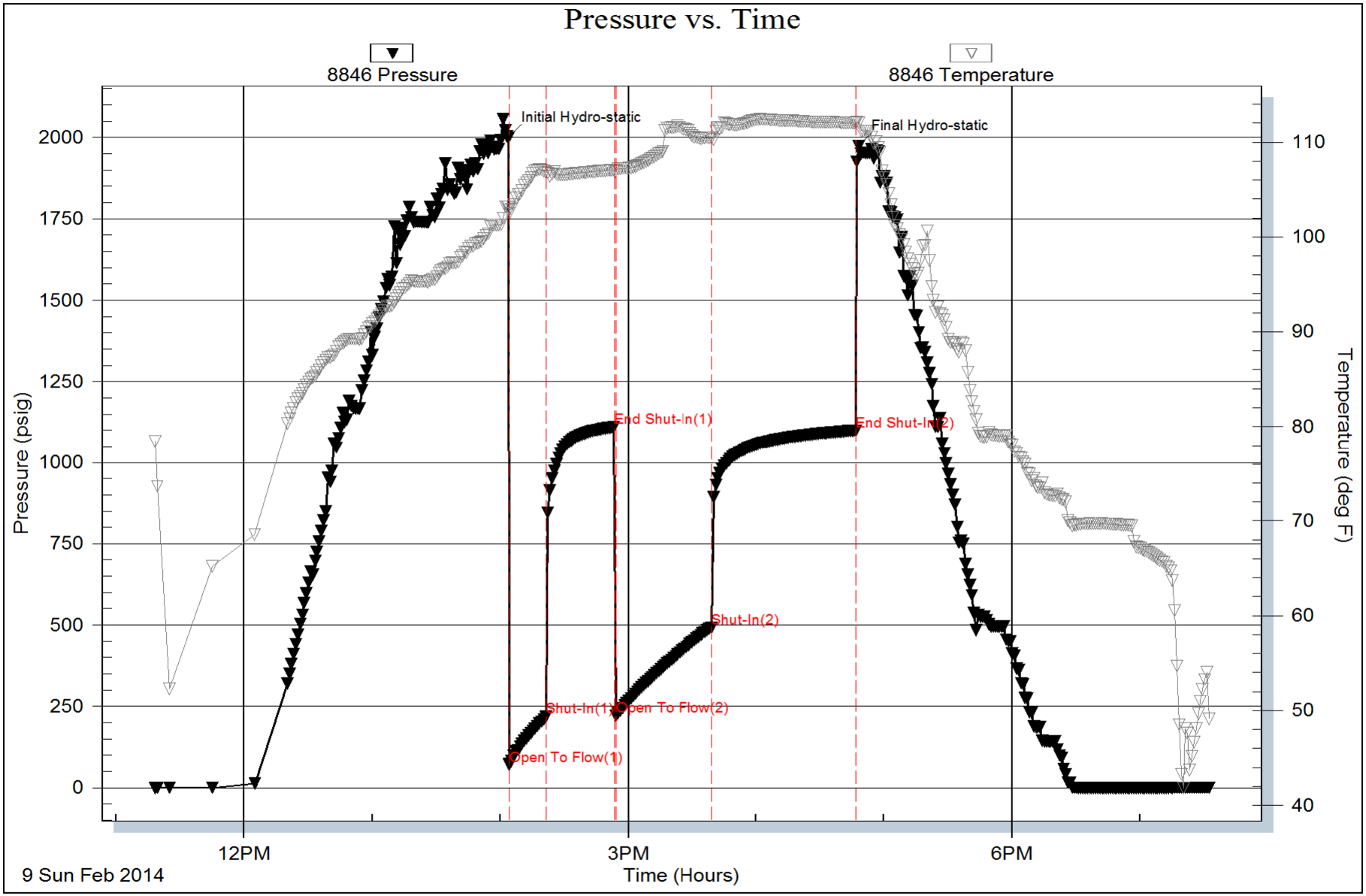
Total Length: 992.00 ft Total Volume: 13.915 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .461@ 78.3= 13,000 ppm

Serial #: 8846 **Inside** Shakespeare Oil Co. Caron 2-25 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 56743 Printed: 2014.02.10 @ 00:58:34

DRILL STEM TEST REPORT

Shakespeare Oil Co.

202 West Main St.
Salem IL
62881
ATTN: Mark Herdon

25-16-34 Scott Co. KS

Carson 2-25

Job Ticket: 56744 **DST#: 2**

Test Start: 2014.02.11 @ 03:30:15

GENERAL INFORMATION:

Formation: **Marmaton A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:29:15
Time Test Ended: 12:45:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 65

Interval: 4382.00 ft (KB) To 4447.00 ft (KB) (TVD)
Total Depth: 4447.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

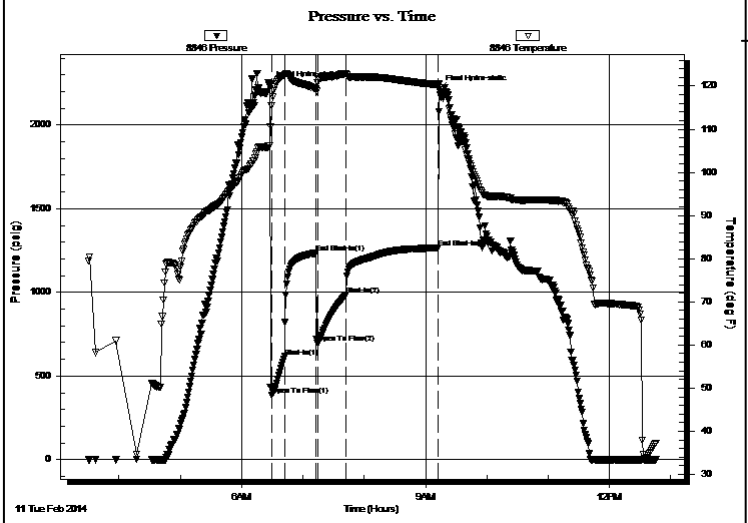
Reference Elevations: 3109.00 ft (KB)
3099.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: 984.39 psig @ 4383.00 ft (KB)
Start Date: 2014.02.11 End Date: 2014.02.11
Start Time: 03:30:15 End Time: 12:45:30

Capacity: 8000.00 psig
Last Calib.: 2014.02.11
Time On Btm: 2014.02.11 @ 06:27:15
Time Off Btm: 2014.02.11 @ 09:13:30

TEST COMMENT: IF:BOB in 1 min.
IS:BOB in 8 min.
FF:BOB in 1min.
FS:BOB in 6 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.98	106.22	Initial Hydro-static
2	386.07	115.48	Open To Flow (1)
15	615.63	122.58	Shut-In(1)
46	1234.46	119.30	End Shut-In(1)
47	697.84	120.84	Open To Flow (2)
75	984.39	122.86	Shut-In(2)
166	1265.78	120.29	End Shut-In(2)
167	2213.17	120.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2294.00	gco 30%g 70%o	32.18
248.00	mcgo 10%m 20%g 70%o	3.48

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

202 West Main St.
Salem IL
62881

ATTN: Mark Herdon

25-16-34 Scott Co. KS

Carson 2-25

Job Ticket: 56744 **DST#: 2**

Test Start: 2014.02.11 @ 03:30:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.56 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2294.00	gco 30%g 70%o	32.179
248.00	mcgo 10%m 20%g 70%o	3.479

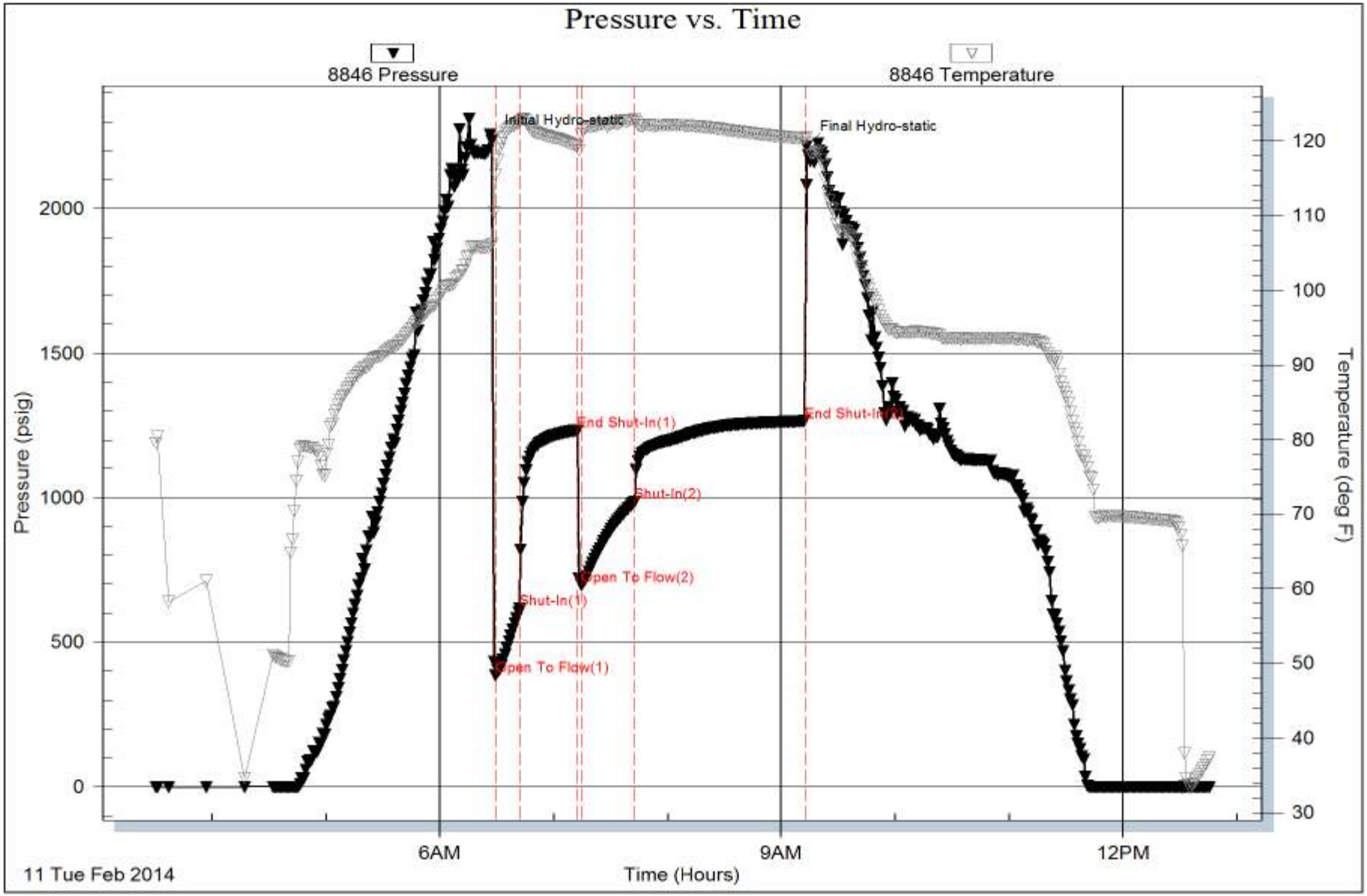
Total Length: 2542.00 ft Total Volume: 35.658 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API= 31@ 60* corrected to 31

Serial #: 8846 **Inside** Shakespeare Oil Co. Carson 2-25 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 56744 Printed: 2014.02.11 @ 13:14:51

GEOLOGIST'S REPORT

WellSight Systems

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

Well Name:	CARSON #2-25
API:	15-171-21022-00-00
Location:	1230' FSL & 435' FWL OF SECTION 25 T16S R 34W
License Number:	KCC #7311
Region:	SCOTT COUNTY, KANS
Spud Date:	2-4-2014
Drilling Completed:	2/12/2014
Surface Coordinates:	1230' FSL AND 435' FWL OF SECTION
Bottom Hole Coordinates:	VERTICAL TEST
Ground Elevation (ft):	3100
K.B. Elevation (ft):	3112
Logged Interval (ft):	3700 To: 5000
Total Depth (ft):	4660
Formation:	MISSISSIPPIAN
Type of Drilling Fluid:	GEL

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company:	SHAKESPEARE OIL COMPANY, INC.
Address:	202 WEST MAIN STREET SALEM, IL 62881

GEOLOGIST

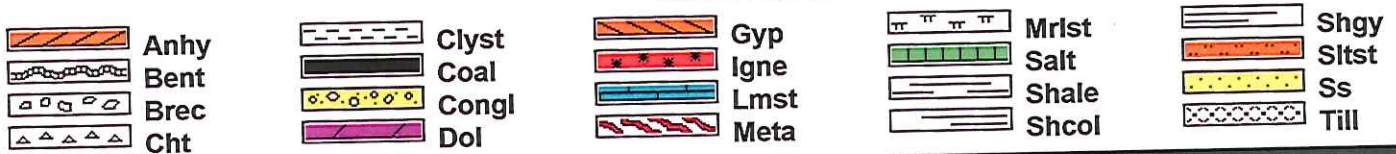
Name:	MARK W. HERNDON
Company:	TRC
Address:	P.O. BOX 5958 NORMAN, OK 73070

Cores

DSTs

Comments

ROCK TYPES



ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Vuggy

SORTING

- Well
- Moderate

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

EVENT

- Rft
- Sidewall

INTERVAL

Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau

Sandy
Silt
Sil
Sulphur
Tuff

Echin
Fish
Foram
Fossil
Gastro
Oolite

Bent
Coal
Dol
Gyp
Ls
Mrst

Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

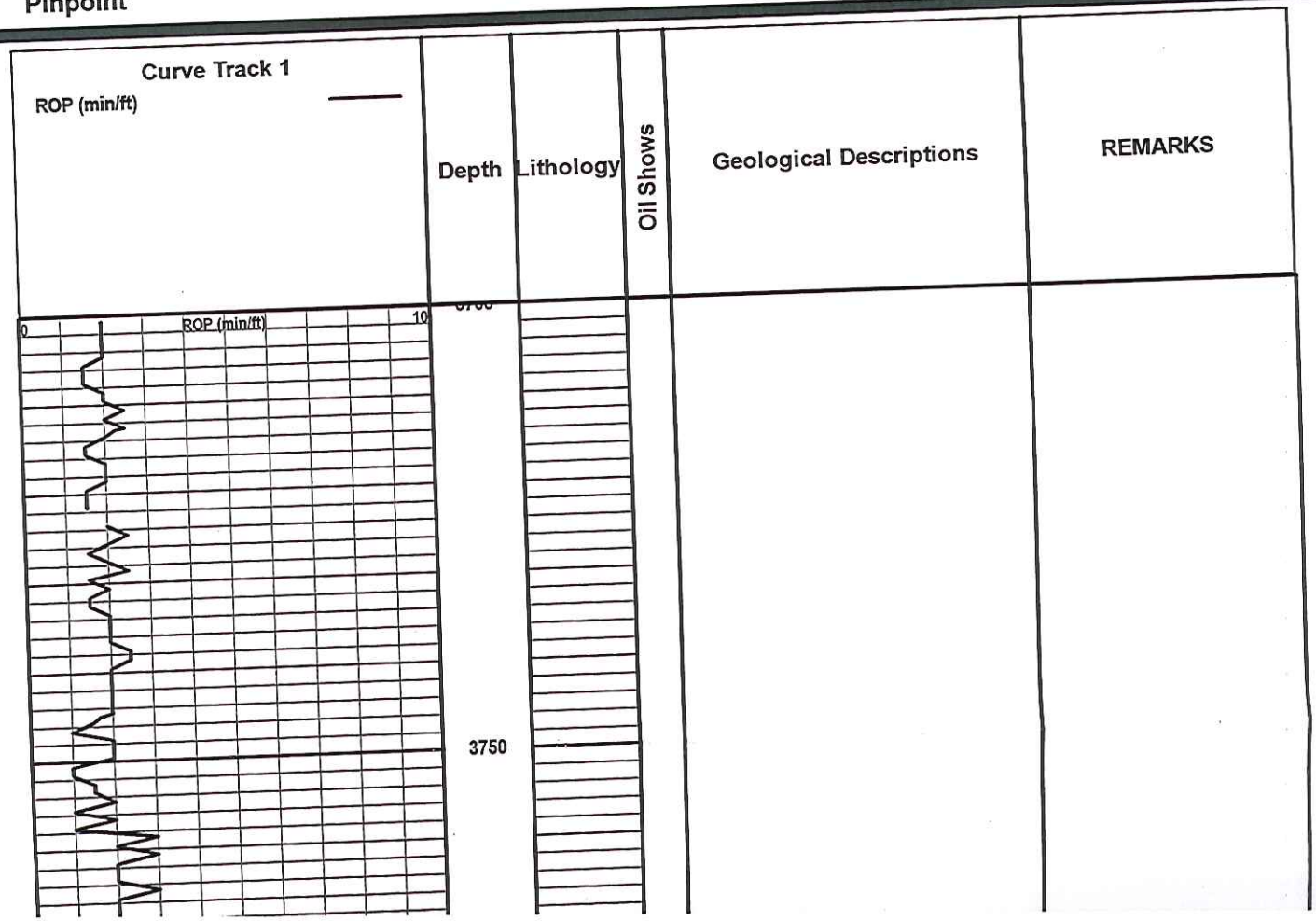
SORTING
- Well
- Moderate
- Poor

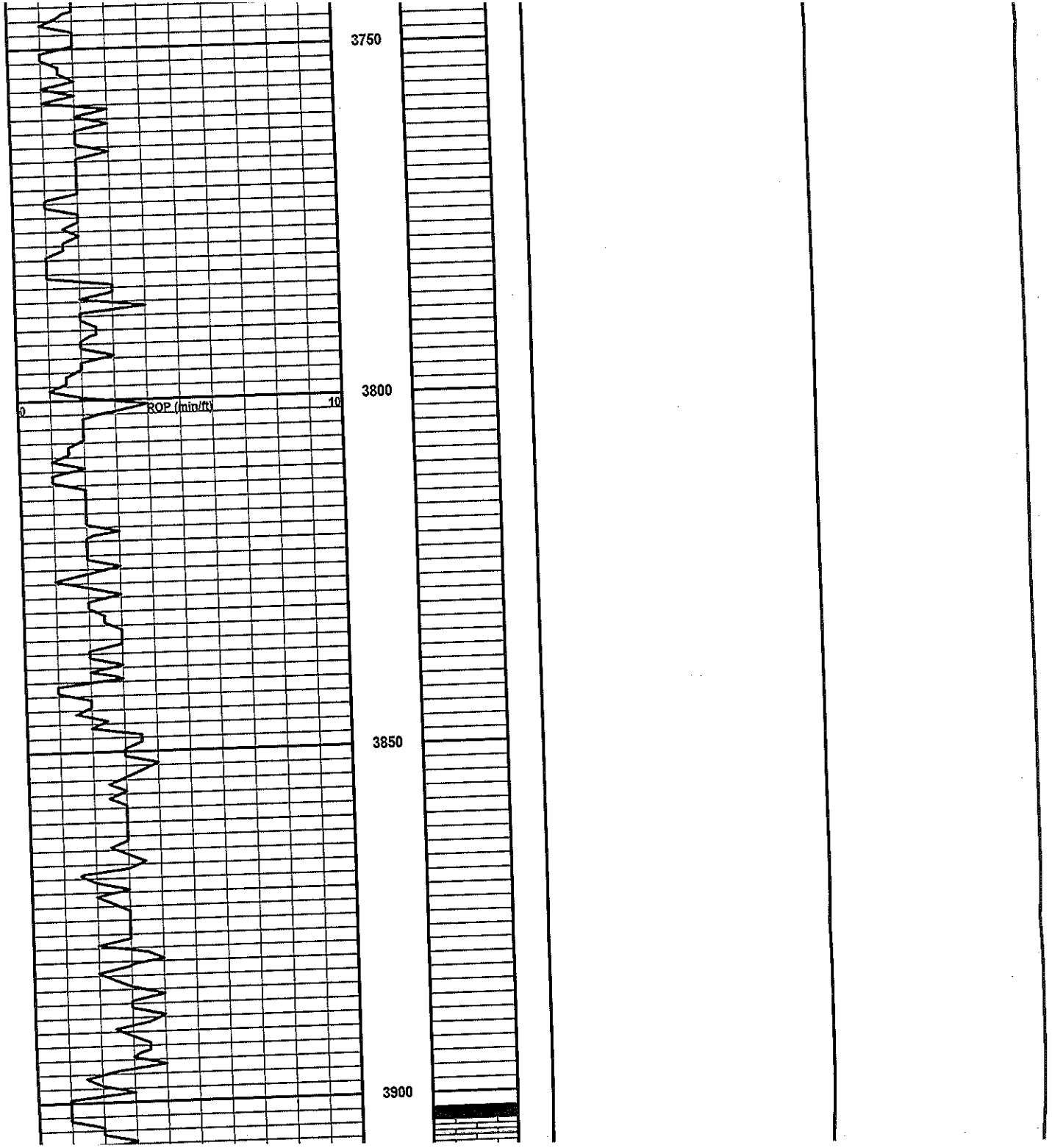
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

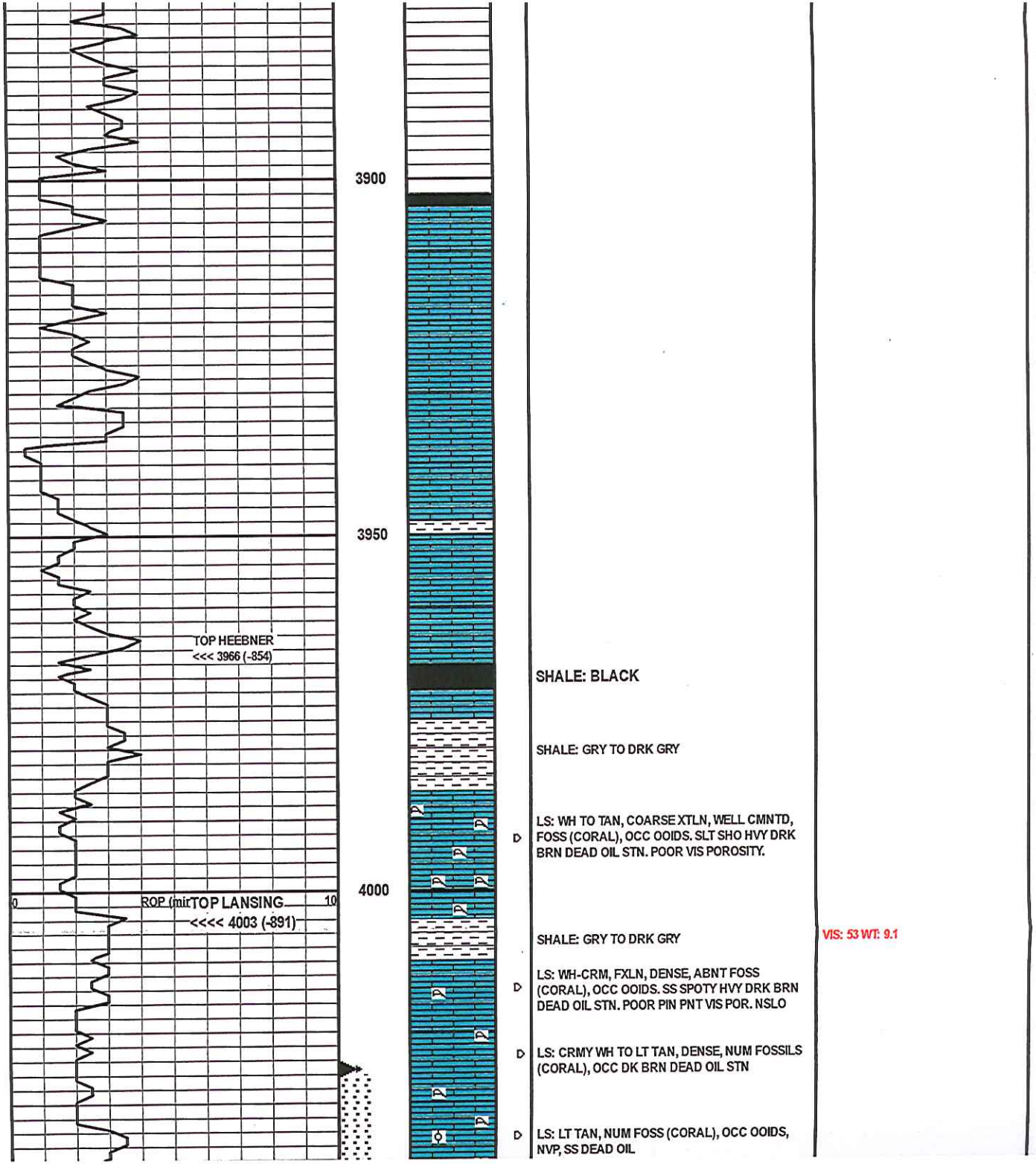
OIL SHOW
- Even
- Spotted
- Ques
- Dead

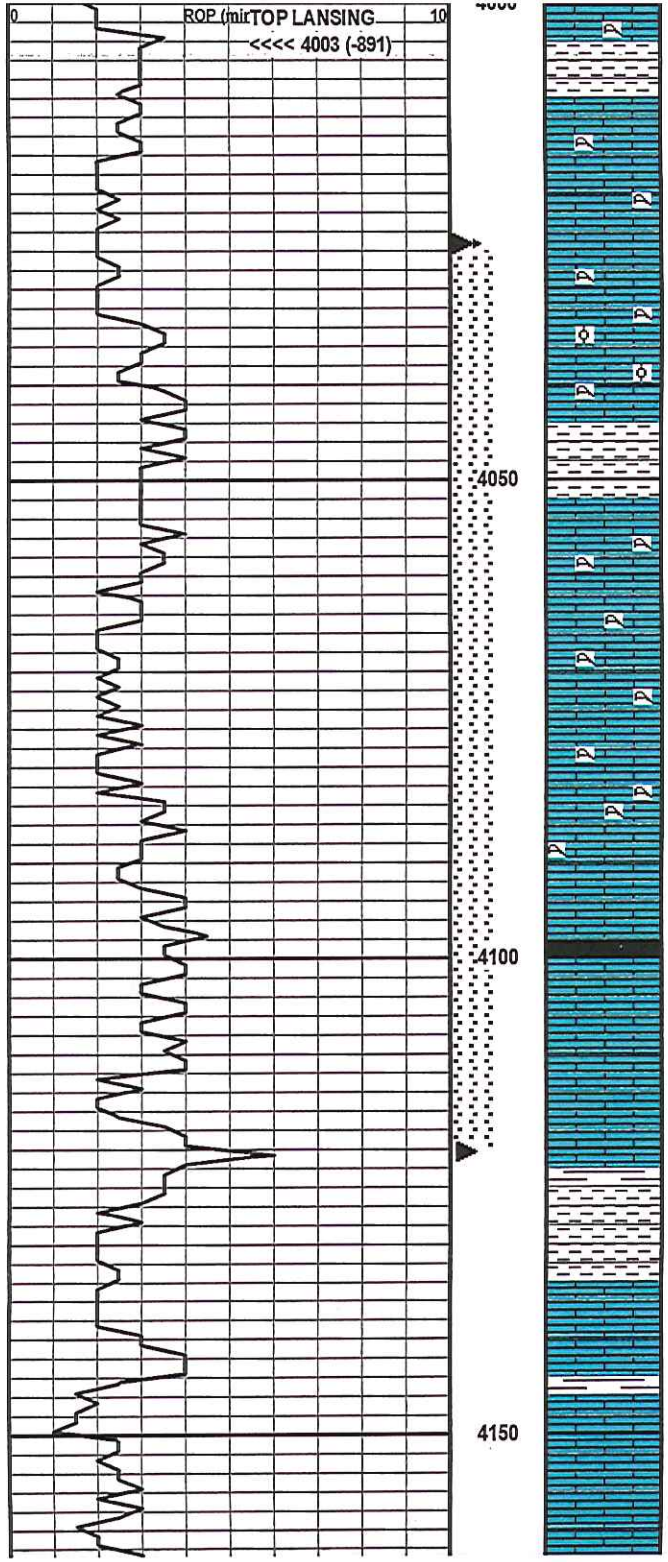
INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall




3750
3800
ROP (min/ft)
10
3850
3900


3900
3950
4000
TOP HEEBNER
<<< 3966 (-854)
ROP (mir
TOP LANSING
<<<< 4003 (-891)
0
10
SHALE: BLACK
SHALE: GRY TO DRK GRY
LS: WH TO TAN, COARSE XTLN, WELL CMNTD, FOSS (CORAL), OCC OOIDS. SLT SHO HVY DRK BRN DEAD OIL STN. POOR VIS POROSITY.
SHALE: GRY TO DRK GRY
VIS: 53 WT: 9.1
LS: WH-CRM, FXLN, DENSE, ABNT FOSS (CORAL), OCC OOIDS. SS SPOTY HVY DRK BRN DEAD OIL STN. POOR PIN PNT VIS POR. NSLO
LS: CRMY WH TO LT TAN, DENSE, NUM FOSSILS (CORAL), OCC DK BRN DEAD OIL STN
LS: LT TAN, NUM FOSS (CORAL), OCC OOIDS, NVP, SS DEAD OIL



SHALE: GRY TO DRK GRY

VIS: 53 WT: 9.1

D LS: WH-CRM, FXLN, DENSE, ABNT FOSS (CORAL), OCC OOIDS. SS SPOTY HVY DRK BRN DEAD OIL STN. POOR PIN PNT VIS POR. NSLO

D LS: CRMY WH TO LT TAN, DENSE, NUM FOSSILS (CORAL), OCC DK BRN DEAD OIL STN

D LS: LT TAN, NUM FOSS (CORAL), OCC OOIDS, NVP, SS DEAD OIL

SHALE: GRY TO DRK GRY, FISSLE

D LS: CRMY TO GRY, FN XTLN, FOS (CORAL), WELL CMNTD, OCC PP VUGGY POR, VRY SPTY S DK BRN FO. NO ODOR, NO FLOR. OIL SHOW LOOKS LIKE DEAD OIL STN.

DST #1: 4025 TO 4120
(LKC A, LKC B, LKC C)
15-30-45-60
IF: BOB 4 MIN-NO RETURN
FF: BOB 4 MIN-NO RETURN
RECOVERY:
434' MCW (90% WTR)
248' MCW (60% WTR
310' MUD
992' TOTAL FLUID
IFP: 70-220 FFP: 221-492
ISIP: 1110 FSIP: 1099
BHT: 112 F
CHLORIDES: 13,000 PPM

D LS: CRMY DNS TO DRK GRY FN XTLN. VERY FOS (CORALS), WELL CMNTD, OCC PP POR, SL SHO DRK BRN DEAD OIL STN. NO ODOR, NO FLOR.

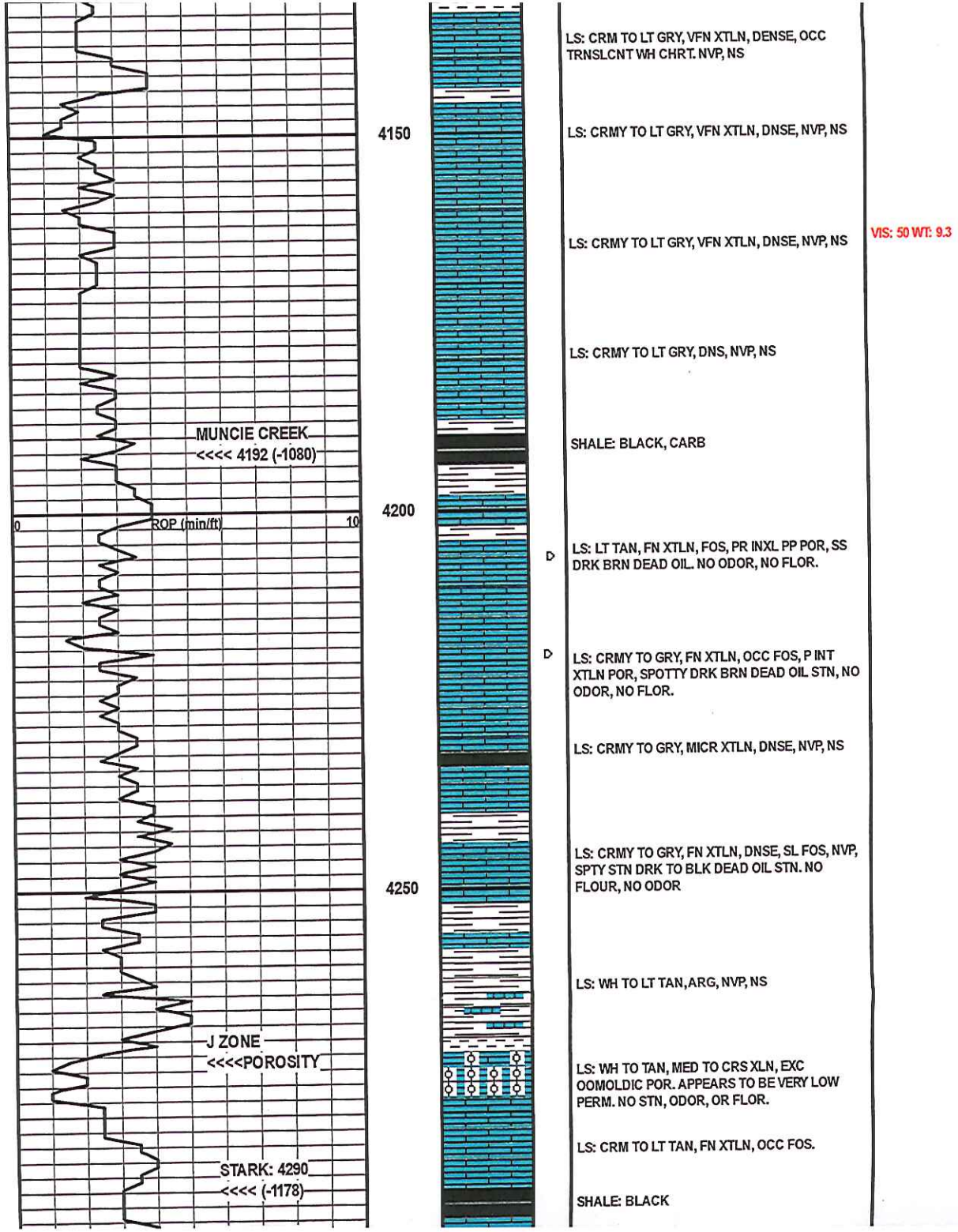
D LS: CRMY, DNSE, FN XTLN, WELL CMNTD, SPTY DRK BRN O STN W NO FLOR OR ODOR. STN APPEARS TO BE DEAD.

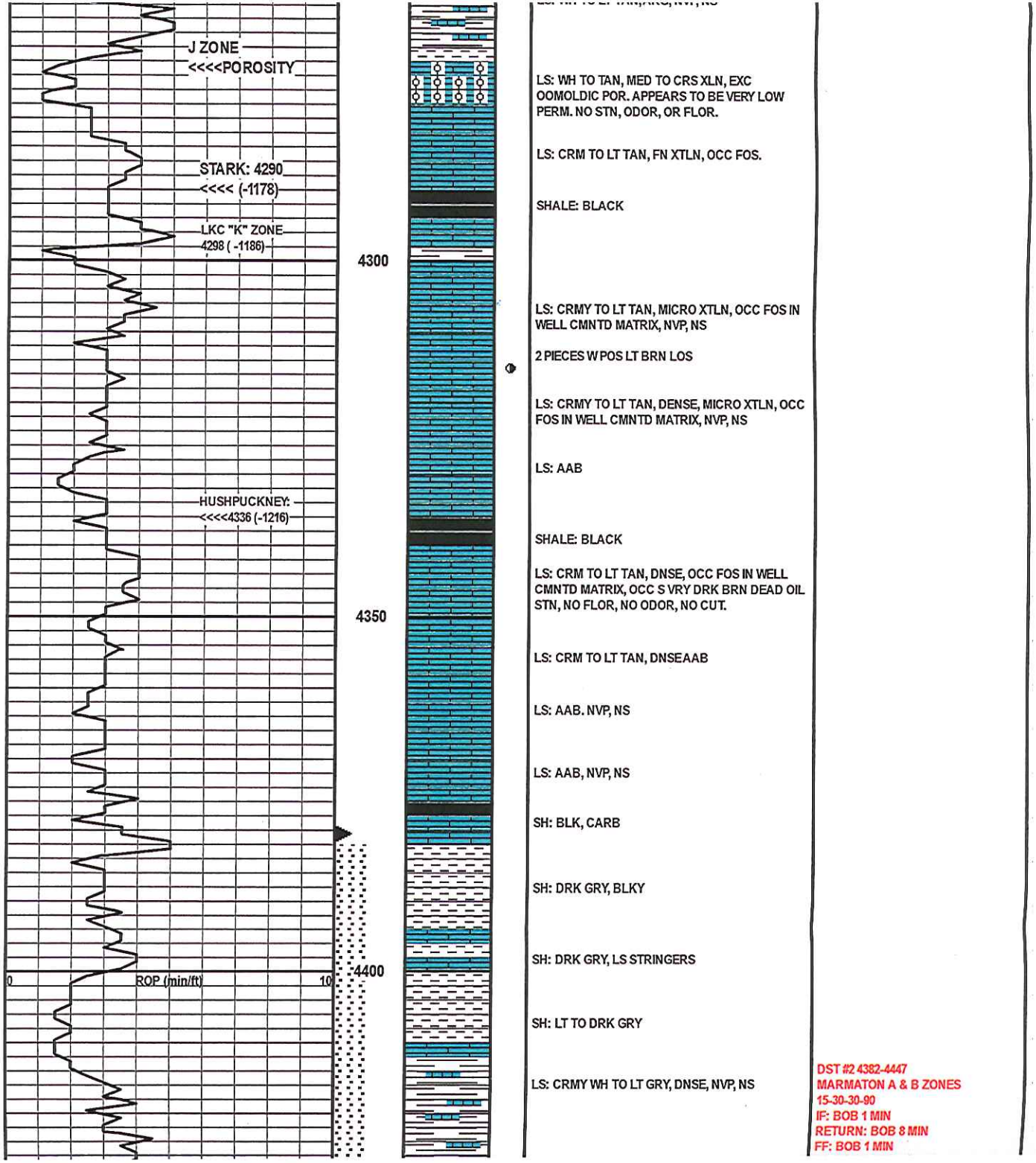
D LS: CRMY TO LT TAN, FN XTLN, OCC PP VUGGY POR, FR SO DEAD OIL

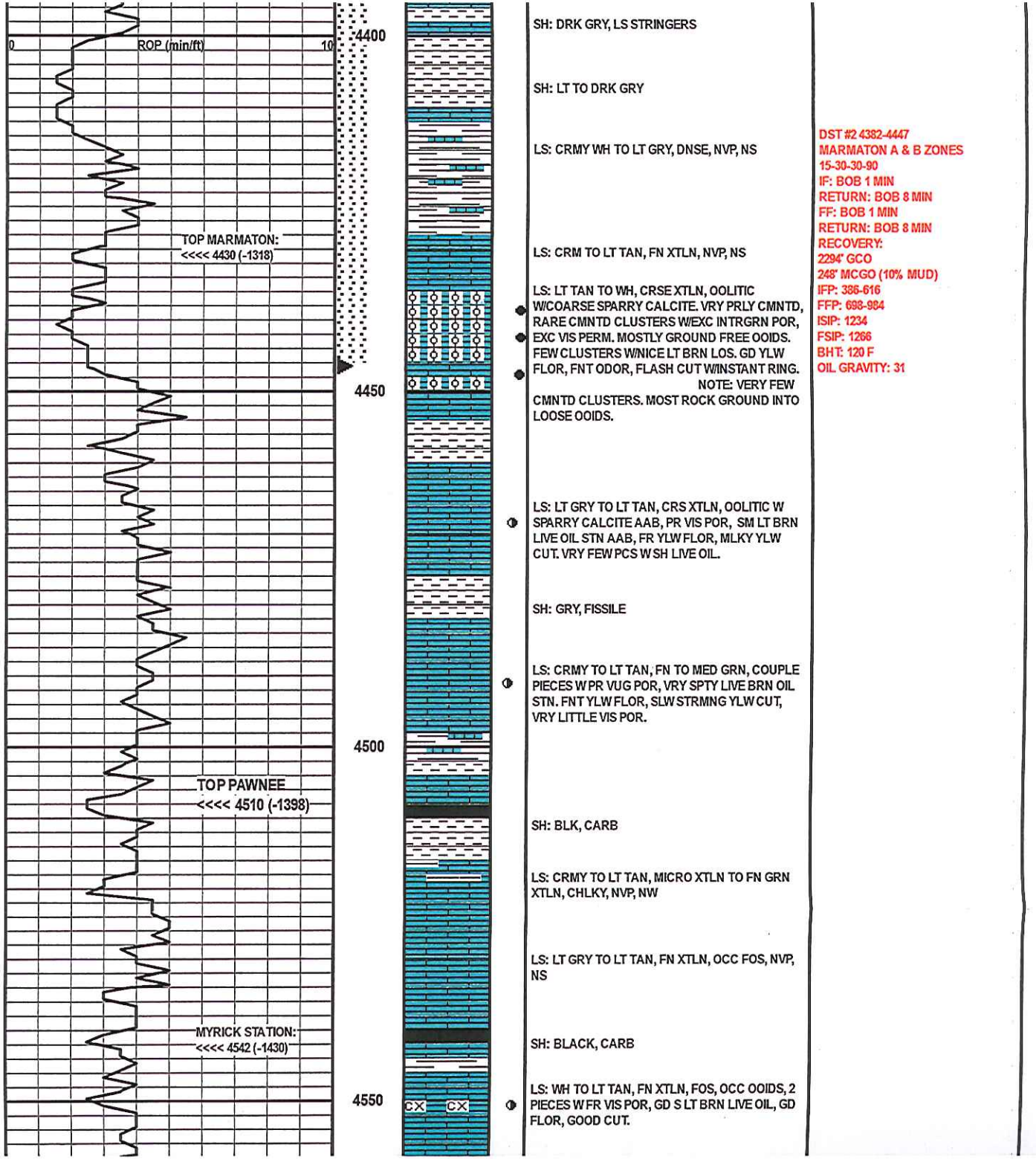
SH: DRK GRY

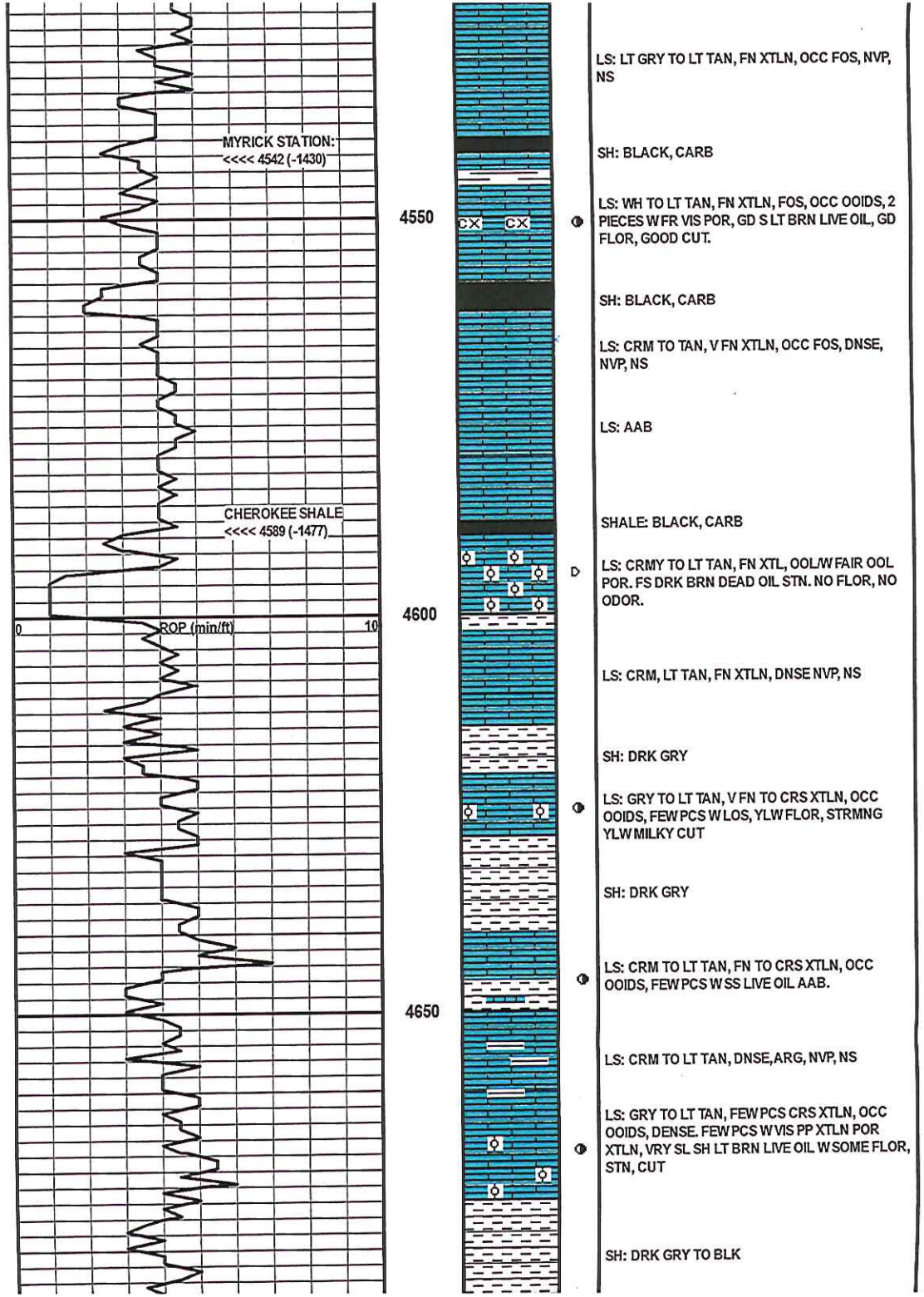
LS: CRM TO LT GRY, VFN XTLN, DENSE, OCC TRNSLCNT WH CHRT. NVP, NS

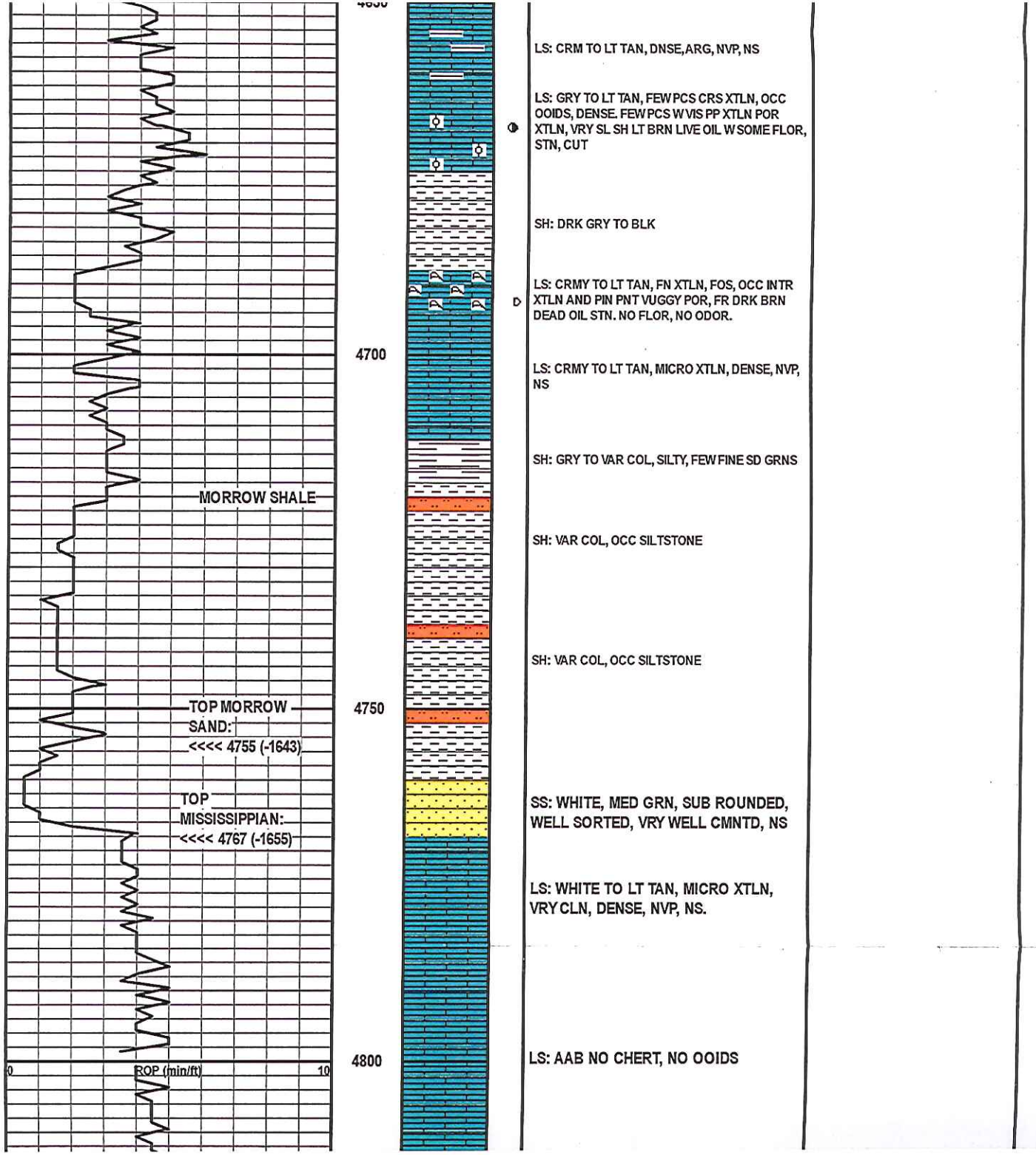
LS: CRMY TO LT GRY, VFN XTLN, DNSE, NVP, NS

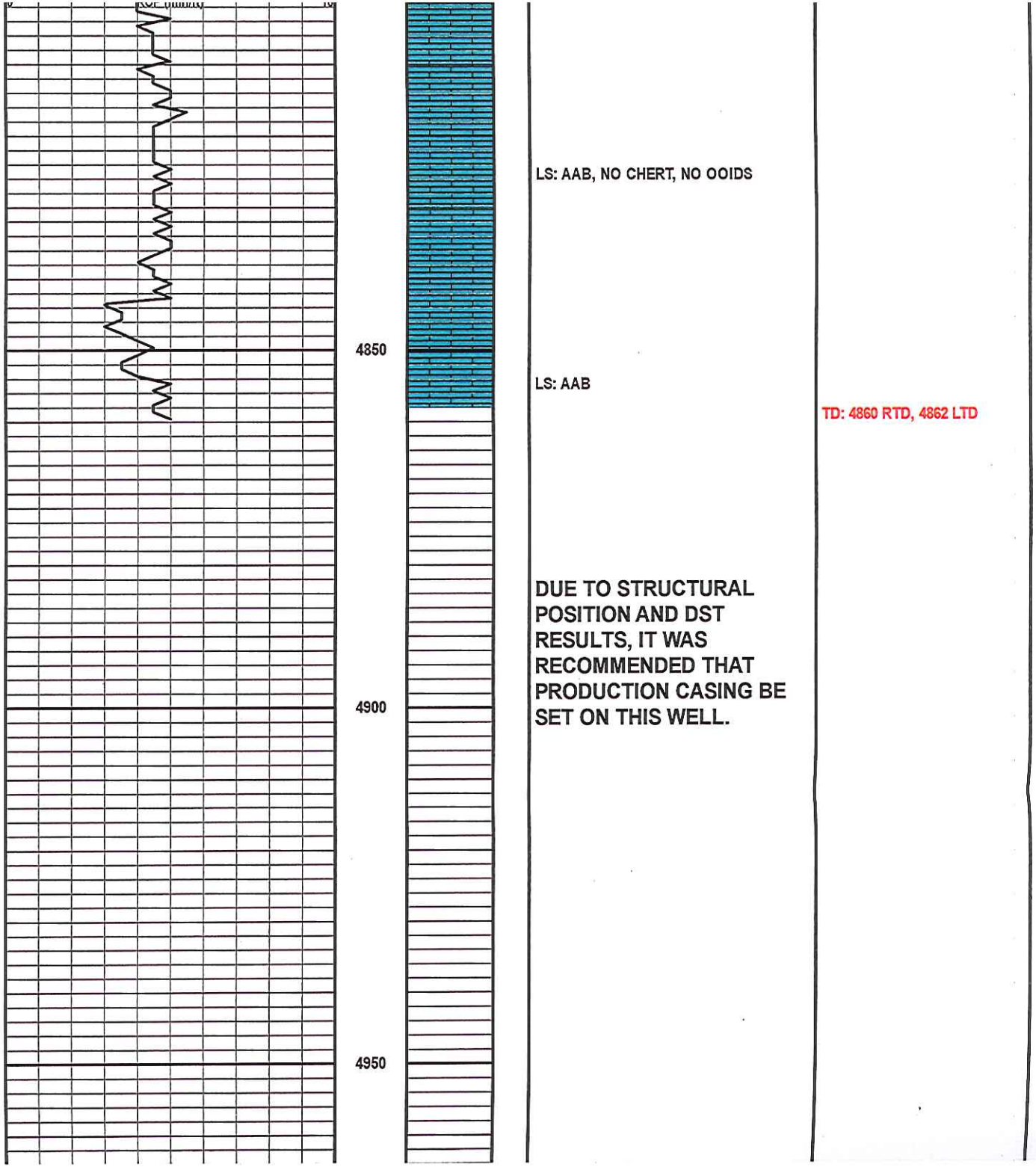

4150
4200
4250
MUNCIE CREEK
<<<< 4192 (-1080)
0
ROP (min/ft)
10
J ZONE
<<<<POROSITY
STARK: 4290
<<<< (-1178)
LS: CRM TO LT GRY, VFN XTLN, DENSE, OCC TRNSLCNT WH CHRT. NVP, NS
LS: CRMY TO LT GRY, VFN XTLN, DNSE, NVP, NS
LS: CRMY TO LT GRY, VFN XTLN, DNSE, NVP, NS
VIS: 50 WT: 9.3
LS: CRMY TO LT GRY, DNS, NVP, NS
SHALE: BLACK, CARB
LS: LT TAN, FN XTLN, FOS, PR INXL PP POR, SS DRK BRN DEAD OIL. NO ODOR, NO FLOR.
LS: CRMY TO GRY, FN XTLN, OCC FOS, P INT XTLN POR, SPOTTY DRK BRN DEAD OIL STN, NO ODOR, NO FLOR.
LS: CRMY TO GRY, MICR XTLN, DNSE, NVP, NS
LS: CRMY TO GRY, FN XTLN, DNSE, SL FOS, NVP, SPTY STN DRK TO BLK DEAD OIL STN. NO FLOUR, NO ODOR
LS: WH TO LT TAN,ARG, NVP, NS
LS: WH TO TAN, MED TO CRS XLN, EXC OOMOLDIC POR. APPEARS TO BE VERY LOW PERM. NO STN, ODOR, OR FLOR.
LS: CRM TO LT TAN, FN XTLN, OCC FOS.
SHALE: BLACK


J ZONE
<<<<POROSITY
STARK: 4290
<<<< (-1178)
LKC "K" ZONE
4298 (-1186)
4300
HUSHPUCKNEY:
<<<<4336 (-1216)
4350
0
ROP (min/ft)
10
4400
LS: WH TO TAN, MED TO CRS XLN, EXC OOMOLDIC POR. APPEARS TO BE VERY LOW PERM. NO STN, ODOR, OR FLOR.
LS: CRM TO LT TAN, FN XTLN, OCC FOS.
SHALE: BLACK
LS: CRMY TO LT TAN, MICRO XTLN, OCC FOS IN WELL CMNTD MATRIX, NVP, NS
2 PIECES W POS LT BRN LOS
LS: CRMY TO LT TAN, DENSE, MICRO XTLN, OCC FOS IN WELL CMNTD MATRIX, NVP, NS
LS: AAB
SHALE: BLACK
LS: CRM TO LT TAN, DNSE, OCC FOS IN WELL CMNTD MATRIX, OCC S VRY DRK BRN DEAD OIL STN, NO FLOR, NO ODOR, NO CUT.
LS: CRM TO LT TAN, DNSEAAB
LS: AAB. NVP, NS
LS: AAB, NVP, NS
SH: BLK, CARB
SH: DRK GRY, BLKY
SH: DRK GRY, LS STRINGERS
SH: LT TO DRK GRY
LS: CRMY WH TO LT GRY, DNSE, NVP, NS
DST #2 4382-4447
MARMATON A & B ZONES
15-30-30-90
IF: BOB 1 MIN
RETURN: BOB 8 MIN
FF: BOB 1 MIN


0
ROP (min/ft)
10
4400
TOP MARMATON:
<<<< 4430 (-1318)
4450
4500
TOP PAWNEE
<<<< 4510 (-1398)
MYRICK STATION:
<<<< 4542 (-1430)
4550
SH: DRK GRY, LS STRINGERS
SH: LT TO DRK GRY
LS: CRMY WH TO LT GRY, DNSE, NVP, NS
LS: CRM TO LT TAN, FN XTLN, NVP, NS
LS: LT TAN TO WH, CRSE XTLN, OOLITIC W/COARSE SPARRY CALCITE. VRY PRLY CMNTD, RARE CMNTD CLUSTERS W/EXC INTRGRN POR, EXC VIS PERM. MOSTLY GROUND FREE OOIDS. FEW CLUSTERS W/NICE LT BRN LOS. GD YLW FLOR, FNT ODOR, FLASH CUT W/INSTANT RING.
NOTE: VERY FEW CMNTD CLUSTERS. MOST ROCK GROUND INTO LOOSE OOIDS.
LS: LT GRY TO LT TAN, CRS XTLN, OOLITIC W SPARRY CALCITE AAB, PR VIS POR, SM LT BRN LIVE OIL STN AAB, FR YLW FLOR, MLKY YLW CUT. VRY FEW PCS W SH LIVE OIL.
SH: GRY, FISSILE
LS: CRMY TO LT TAN, FN TO MED GRN, COUPLE PIECES W PR VUG POR, VRY SPTY LIVE BRN OIL STN. FNT YLW FLOR, SLW STRMNG YLW CUT, VRY LITTLE VIS POR.
SH: BLK, CARB
LS: CRMY TO LT TAN, MICRO XTLN TO FN GRN XTLN, CHLKY, NVP, NW
LS: LT GRY TO LT TAN, FN XTLN, OCC FOS, NVP, NS
SH: BLACK, CARB
LS: WH TO LT TAN, FN XTLN, FOS, OCC OOIDS, 2 PIECES W FR VIS POR, GD S LT BRN LIVE OIL, GD FLOR, GOOD CUT.
DST #2 4382-4447
MARMATON A & B ZONES
15-30-30-90
IF: BOB 1 MIN
RETURN: BOB 8 MIN
FF: BOB 1 MIN
RETURN: BOB 8 MIN
RECOVERY:
2294' GCO
248' MCGO (10% MUD)
IFP: 386-616
FFP: 698-984
ISIP: 1234
FSIP: 1266
BHT: 120 F
OIL GRAVITY: 31


MYRICK STATION:
<<<< 4542 (-1430)
CHEROKEE SHALE
<<<< 4589 (-1477)
0
ROP (min/ft)
10
4550
4600
4650
LS: LT GRY TO LT TAN, FN XTLN, OCC FOS, NVP, NS
SH: BLACK, CARB
LS: WH TO LT TAN, FN XTLN, FOS, OCC OOIDS, 2 PIECES W FR VIS POR, GD S LT BRN LIVE OIL, GD FLOR, GOOD CUT.
SH: BLACK, CARB
LS: CRM TO TAN, V FN XTLN, OCC FOS, DNSE, NVP, NS
LS: AAB
SHALE: BLACK, CARB
LS: CRMY TO LT TAN, FN XTL, OOL/W FAIR OOL POR. FS DRK BRN DEAD OIL STN. NO FLOR, NO ODOR.
LS: CRM, LT TAN, FN XTLN, DNSE NVP, NS
SH: DRK GRY
LS: GRY TO LT TAN, V FN TO CRS XTLN, OCC OOIDS, FEW PCS W LOS, YLW FLOR, STRMNG YLW MILKY CUT
SH: DRK GRY
LS: CRM TO LT TAN, FN TO CRS XTLN, OCC OOIDS, FEW PCS W SS LIVE OIL AAB.
LS: CRM TO LT TAN, DNSE, ARG, NVP, NS
LS: GRY TO LT TAN, FEW PCS CRS XTLN, OCC OOIDS, DENSE. FEW PCS W VIS PP XTLN POR XTLN, VRY SL SH LT BRN LIVE OIL W SOME FLOR, STN, CUT
SH: DRK GRY TO BLK


4700
4750
4800
MORROW SHALE
TOP MORROW SAND:
<<<< 4755 (-1643)
TOP MISSISSIPPIAN:
<<<< 4767 (-1655)
0
ROP (min/ft)
10
LS: CRM TO LT TAN, DNSE,ARG, NVP, NS
LS: GRY TO LT TAN, FEW PCS CRS XTLN, OCC OOIDS, DENSE. FEW PCS W VIS PP XTLN POR XTLN, VRY SL SH LT BRN LIVE OIL W SOME FLOR, STN, CUT
SH: DRK GRY TO BLK
LS: CRMY TO LT TAN, FN XTLN, FOS, OCC INTR XTLN AND PIN PNT VUGGY POR, FR DRK BRN DEAD OIL STN. NO FLOR, NO ODOR.
D
LS: CRMY TO LT TAN, MICRO XTLN, DENSE, NVP, NS
SH: GRY TO VAR COL, SILTY, FEW FINE SD GRNS
SH: VAR COL, OCC SILTSTONE
SH: VAR COL, OCC SILTSTONE
SS: WHITE, MED GRN, SUB ROUNDED, WELL SORTED, VRY WELL CMNTD, NS
LS: WHITE TO LT TAN, MICRO XTLN, VRY CLN, DENSE, NVP, NS.
LS: AAB NO CHERT, NO OOIDS


4850
4900
4950
LS: AAB, NO CHERT, NO OOIDS
LS: AAB
TD: 4860 RTD, 4862 LTD
DUE TO STRUCTURAL POSITION AND DST RESULTS, IT WAS RECOMMENDED THAT PRODUCTION CASING BE SET ON THIS WELL.