

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	HAGANS "14" 4
Doc ID	1462925

All Electric Logs Run

Micro Resistivity
Dual Induction
Litho Density Neutron
Dual Receiver Cement

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	HAGANS "14" 4
Doc ID	1462925

Tops

Name	Top	Datum
Anhy.	2006	(+ 577)
Base Anhy.	2038	(+ 545)
Heebner	3853	(-1270)
Lansing	3896	(-1313)
BKC	4194	(-1611)
Marmaton	4239	(-1656)
Pawnee	4334	(-1751)
Ft. Scott	4397	(-1814)
Cherokee Sh.	4421	(-1838)
Miss.	4503	(-1920)
LTD	4617	(-2034)



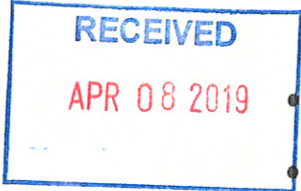
P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
4/4/2019	32148

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827



- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#14-4	Hagan	Ness	Express	Oil	Development	Port Collar	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	35	Miles	5.00	175.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,300.00	1,300.00
330	Swift Multi-Density Standard (MIDCON II)	145	Sacks	16.25	2,356.25T
276	Flocele	37.5	Lb(s)	2.50	93.75T
290	D-Air	2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man	1	Each	275.00	275.00T
581D	Service Charge Cement	200	Sacks	1.75	350.00
583D	Drayage	350	Ton Miles	0.85	297.50
	Subtotal				4,931.50
	Sales Tax Ness County			6.50%	182.59

We Appreciate Your Business!	Total	\$5,114.09
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CHARGE TO: Palomino Petroleum
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 032148

PAGE 1 OF 1

1. SERVICE LOCATIONS: Ness City, KS WELL/PROJECT NO. 14-4 LEASE By the Hagan COUNTY/PARISH Ness STATE KS CITY Utica DATE 9-4-19 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR Express RIG NAME/NO. SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Port Coller WELL PERMIT NO. WELL LOCATION Utica, 1-N.E-2b
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE TRK #112			36	mi	5.00	175.00
576D				Pump Charge - Port Coller			1	job	1300.00	1300.00
330				SMD Cement			145	sk	16.35	2356.35
276				Flarele			376	lb	2.50	93.50
290				D-Air			2	gal	42.00	84.00
105				Port Coller Tool Rental			1	job	275.00	275.00
581				CMT Service Charge			200	\$K	1.75	350.00
583				Drayage			350	TM	0.85	297.50

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 4-4-2019 TIME SIGNED 1:30 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECODED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

TOTAL 5114.09

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Andrew Fitch APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-4-2019 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Palomino Petroleum		14-4		Hagan		Port Collar		032148	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1100							On Location 2 7/8" 5 1/2"	
								PC: 2008'	
	1155	∅	∅		✓	1200		Pressure Test BS	
	1206							Open PC	
	1215	2	4		✓	175		Injection Rate	
	1220	3 1/2	80		✓	300		Mix 145 sks of SMD w/ 1/4" F10 @ 112 ppg	
								Deep	
	1240	4	10		✓	350		Displace CMT	
	1245	∅	∅		✓	1200		Close PC Test *Hold*	
	1300							Run 4 Joints	
	1306	3 1/2	25		✓	350		Reverse Clean	
	1315							Wash up Trk	
								145 sks of SMD 1/4" F10 used *20 sks to pit*	
	1345							Job Complete	
								Thank You	
								Gideon, Preston, Isaac	

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
3/28/2019	32145

BILL TO	RECEIVED APR 04 2019
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827	

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#14-4	Hagans	Ness	WW Drlg	Oil	Development	5 1/2 Longstring	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				35	Miles	5.00	175.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				11	Each	85.00	935.00T
325	Standard Cement				100	Sacks	13.00	1,300.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				500	Lb(s)	0.20	100.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				50	Lb(s)	2.50	125.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	16.25	2,031.25T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement				225	Sacks	1.75	393.75
583D	Drayage				402.5	Ton Miles	0.85	342.13
	Subtotal							11,428.13
	Sales Tax Ness County						6.50%	599.12
We Appreciate Your Business!							Total	\$12,027.25



CHARGE TO: Palomino Petroleum

TICKET 032145

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS
1. Ness City, KS WELL/PROJECT NO. 14-4 LEASE Hogans COUNTY/PARISH Ness STATE KS CITY Utica DATE 3-28-19 OWNER

2. TICKET TYPE SERVICE SALES CONTRACTOR WVW RIG NAME/NO. SHIPPED VIA CT DELIVERED TO Location ORDER NO.

3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Long String WELL PERMIT NO. WELL LOCATION Utica West Edge

4. REFERRAL LOCATION Oil INVOICE INSTRUCTIONS Development Long String 5 1/2 in WELL PERMIT NO. 1/2-N, E-into

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.		UNIT		UNIT PRICE	AMOUNT
						QTY.	UM	QTY.	UM		
575					MILEAGE <u>Trk #112</u>			35	mi	5.00	175.00
578					<u>Pump Charge - Longstring</u>			1	job	1300.00	1300.00
404					<u>Port Collar</u>			1	ea	2500.00	2500.00
403					<u>CMT Baskets</u>			1	ea	275.00	275.00
406					<u>Latch down Plug + Baffle</u>			1	ea	250.00	250.00
407					<u>Insert float Shoe w/ Auto Fill</u>			1	ea	325.00	325.00
409					<u>Turbolizer</u>			1	ea	935.00	935.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR AGENT'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
DATE SIGNED 3-28-2019 TIME SIGNED 7:00 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1
TOTAL 12087.25

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
SWIFT OPERATOR Dudman Truck APPROVAL Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER *Palomino Petroleum*

WELL *Hogans 14-4*

DATE *3-28-2019* PAGE *2* OF *2*

TICKET No. *032145*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY.	UM	QTY.	UM				
325						Standard CNT								
284						Calseal								
283						Salt								
285						CFR-1								
276						Flocele								
330						SMD CNT								
221						Liquid KCL								
281						Mud Flush								
290						D-Air								
581						SERVICE CHARGE								
583						MILEAGE CHARGE								
						TOTAL WEIGHT								
						LOADED MILES								
						CUBIC FEET								
						TON MILES								

CONTINUATION TOTAL *5668* *13*

JOB LOG

SWIFT Services, Inc.

DATE 3-28-19 PAGE NO. 1

CUSTOMER <u>Palomares Petroleum</u>		WELL NO. <u>14-4</u>		LEASE <u>Hagans</u>		JOB TYPE <u>Long String</u>		TICKET NO. <u>032145</u>
--	--	-------------------------	--	------------------------	--	--------------------------------	--	-----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							On Location 5 1/2" 14" RTD: 4620' LTD: 4617' TP: 4617 SJ: 40.35' P.C.: #63 2008' out: 114, 115, 116, 117 Turbo: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 62 Basket: 63
	0745							Start 5 1/2 14lb/ft Casing in well
	0945							Drop Ball - Circulate
	1045	6 1/2	12		✓	200		Pump 500 gal Mud Flush
		6 1/2	20		✓	200		Pump 20 bbl KCL
	1050	1/2	10					Plug RH [30]
	1055	4 1/2	48		✓	300		Mix ⁹⁵ 125 sks of SMD 1/4" Flo @ 12.6 ppg
		4 1/2	24		✓	200		Mix 100 sks of EA-2 @ 15.5 ppg
	1110							Wash up Pump + Lines Release Latch down Plug
	1115	6 1/2	0		✓	200		Start Displacement
		6 1/2	75		✓	250		Lif Pressure
		6 1/2	111		✓	800		Max lift Pressure
	1130	5 1/2	112		✓	1600		Land Latch down Plug
								Release Pressure * Plug Hold *
	1135							Wash up Trk
	1200							Job Complete - 125 SMD 1/4" Flo + 100 sks EA-2 1/4 Flo used Thank You Cudeon, Preston, Kirby



RECEIVED
MAR 25 2019

QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
PHONE: 785-324-1041 FAX: 785-483-1087
EMAIL: cementing@ruraltel.net

Date: 3/20/2019
Invoice #
P.O.#: **998**
Due Date: 4/19/2019
Division: *Russell*

Invoice

Contact:
Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
Newton Ks 67114

Reference:
HAGANS 14 4 SEC 14-16-26

Description of Work:
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No				
Common-Class A	120	\$ 1,870.26	Yes				
Calcium Chloride	7	\$ 296.58	Yes				
POZ Mix-Standard	30	\$ 158.88	Yes				
Bulk Truck Matl-Material Service Charge	160	\$ 121.05	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 105.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 82.09	No				
Premium Gel (Bentonite)	3	\$ 65.82	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 3,375.25
	<i>Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (84.38)
	SubTotal for Taxable Items:	\$ 2,331.76
	SubTotal for Non-Taxable Items:	\$ 959.11
	Total:	\$ 3,290.87
	Tax:	\$ 151.56
	Amount Due:	\$ 3,442.43

6.50% Ness County Sales Tax

Thank You For Your Business!

Applied Payments:
Balance Due: \$ 3,442.43

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

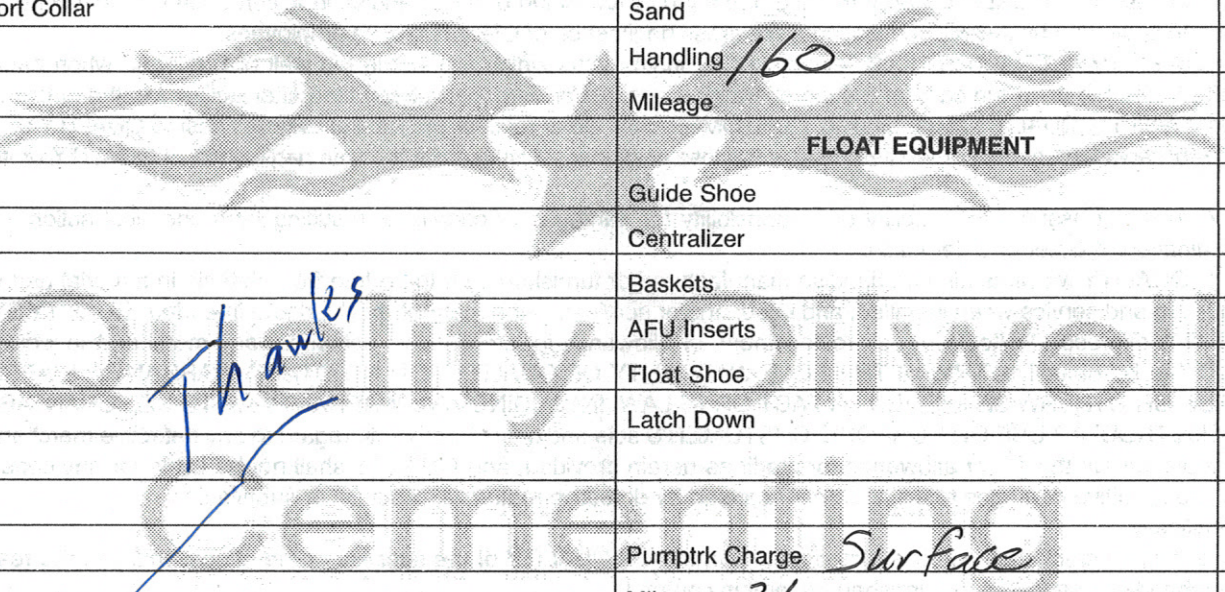
Phone 785-483-2025
Cell 785-324-1041

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

No. 0998

Date	3-20-19	Sec.	14	Twp.	16	Range	26	County	Ness	State	Ks	On Location		Finish	9:30 AM
Lease	Hagans "14"			Well No.	#4			Location Utica - West side to Rd D, 2N, E/S							
Contractor	W-W #2			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.							
Type Job	Surface			Charge To				Palamino Petroleum							
Hole Size	12 1/4"			T.D.	209'			Street							
Csg.	8 3/8"			Depth	209'			City							
Tbg. Size				Depth				State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15'			Shoe Joint	15'			Cement Amount Ordered 150 80/20 3% CC 24 Gal							
Meas Line				Displace	12 1/4 BUS										
EQUIPMENT															
Pumptrk	17	No.	Cementer	Tony P.			Common			120					
			Helper				Poz. Mix			30					
Bulktrk	9	No.	Driver	Tony			Gel.			3					
			Driver				Calcium			7					
Bulktrk	p.u.	No.	Driver	Rick			Hulls								
			Driver				Salt								
JOB SERVICES & REMARKS															
Remarks:	Cement did			Circulate			Flowseal								
Rat Hole							Kol-Seal								
Mouse Hole							Mud CLR 48								
Centralizers							CFL-117 or CD110 CAF 38								
Baskets							Sand								
D/V or Port Collar							Handling			160					
							Mileage								
								FLOAT EQUIPMENT							
							Guide Shoe								
							Centralizer								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							Pumptrk Charge			Surface					
							Mileage			31					
								Tax							
								Discount							
								Total Charge							
X Signature															

Thanks





Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 169 RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Test Complete

DATE
March
26
2019

DST #1 **Formation: Mississippi** **Test Interval: 4444 - 4523'** **Total Depth: 4523'**
Time On: 07:53 03/26 Time Off: 16:04 03/26
Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

Electronic Volume Estimate:
371'

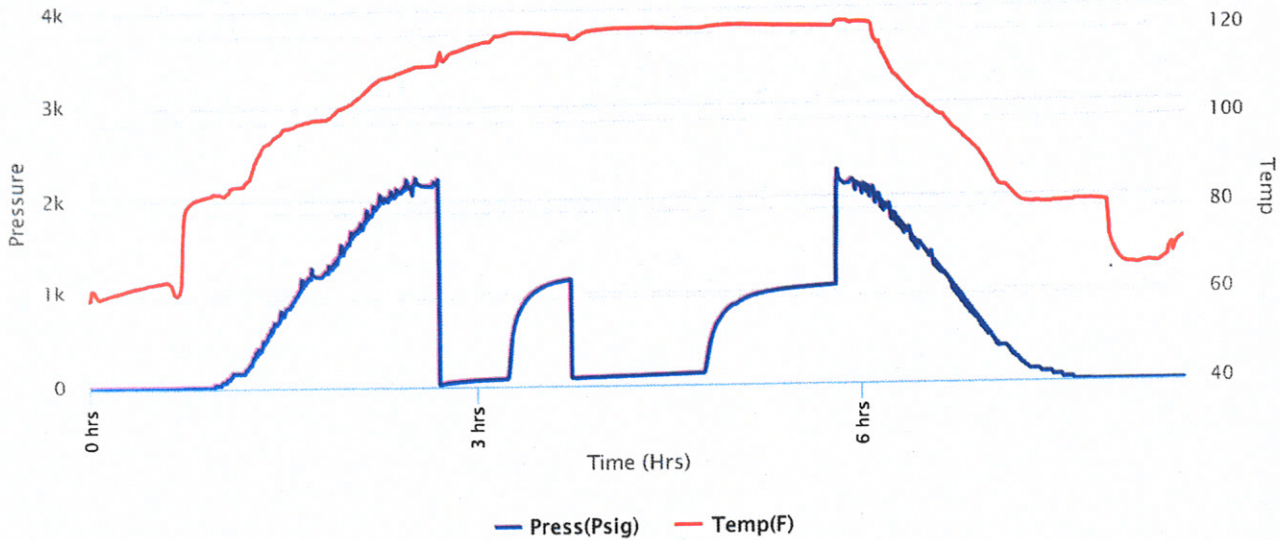
1st Open
Minutes: 30
Current Reading:
9.9" at 30 min
Max Reading: 9.9"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 60
Current Reading:
15.4" at 60 min
Max Reading: 15.4"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Driling, LLC - Rig 2
 Elevation: 2577 GL
 Field Name: Unice NE
 Pool: Pool Ext
 Job Number: 323

Operation:
 Test Complete

DATE
 March
26
 2019

DST #1 **Formation: Mississippi** **Test Interval: 4444 - 4523'** **Total Depth: 4523'**
 Time On: 07:53 03/26 Time Off: 16:04 03/26
 Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

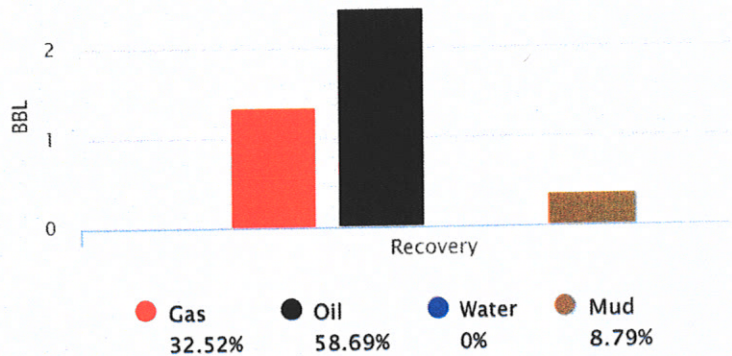
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
95	1.35185	G	100	0	0	0
145	2.06335	O	0	100	0	0
10	0.1423	SLMCO	0	96	0	4
120	0.5998031	HOCM	0	40	0	60

Total Recovered: 370 ft
 Total Barrels Recovered: 4.1573031

Reversed Out
 NO

Initial Hydrostatic Pressure	2147	PSI
Initial Flow	17 to 75	PSI
Initial Closed in Pressure	1129	PSI
Final Flow Pressure	82 to 119	PSI
Final Closed in Pressure	1041	PSI
Final Hydrostatic Pressure	2144	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	7.8	%

Recovery at a glance



GIP cubic foot volume: 7.58996



**Company: Palomino Petroleum,
Inc.**

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:

Test Complete

DATE

March

26

2019

DST #1

**Formation:
Mississippi**

**Test Interval: 4444 - Total Depth: 4523'
4523'**

Time On: 07:53 03/26

Time Off: 16:04 03/26

Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

BUCKET MEASUREMENT:

1st Open: Surface blow building to 9 1/2 ins.

1st Close: No blow back.

2nd Open: Surface blow building. BOB in 44 mins.

2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 43% Oil 0% Water 57% Mud

Gravity: 36.2 @ 60 °F



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Driling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Test Complete

DATE
March
26
2019

DST #1 **Formation:** **Test Interval: 4444 -** **Total Depth: 4523'**
Mississippi **4523'**
Time On: 07:53 03/26 Time Off: 16:04 03/26
Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

Down Hole Makeup

Heads Up: 33.88 FT	Packer 1: 4438.74 FT
Drill Pipe: 4326.06 FT <i>ID-3 1/2</i>	Packer 2: 4443.74 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4428.16 FT
Collars: 118.99 FT <i>ID-2 1/4</i>	Bottom Recorder: 4513 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 79.26	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.26 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 11 FT <i>4 1/2-FH</i>	



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:

Test Complete

DATE

March

26

2019

DST #1

Formation:
Mississippi

Test Interval: 4444 - 4523'

Total Depth: 4523'

Time On: 07:53 03/26

Time Off: 16:04 03/26

Time On Bottom: 10:30 03/26

Time Off Bottom: 13:30 03/26

Mud Properties

Mud Type: Chemical

Weight: 9.25

Viscosity: 48

Filtrate: 8.4

Chlorides: 3,500 ppm



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Test Complete

DATE
March
26
2019

DST #2 **Formation: Mississippi** **Test Interval: 4524 - 4532'** **Total Depth: 4532'**
Time On: 23:18 03/26 Time Off: 07:12 03/27
Time On Bottom: 01:47 03/27 Time Off Bottom: 04:47 03/27

Electronic Volume Estimate:
134'

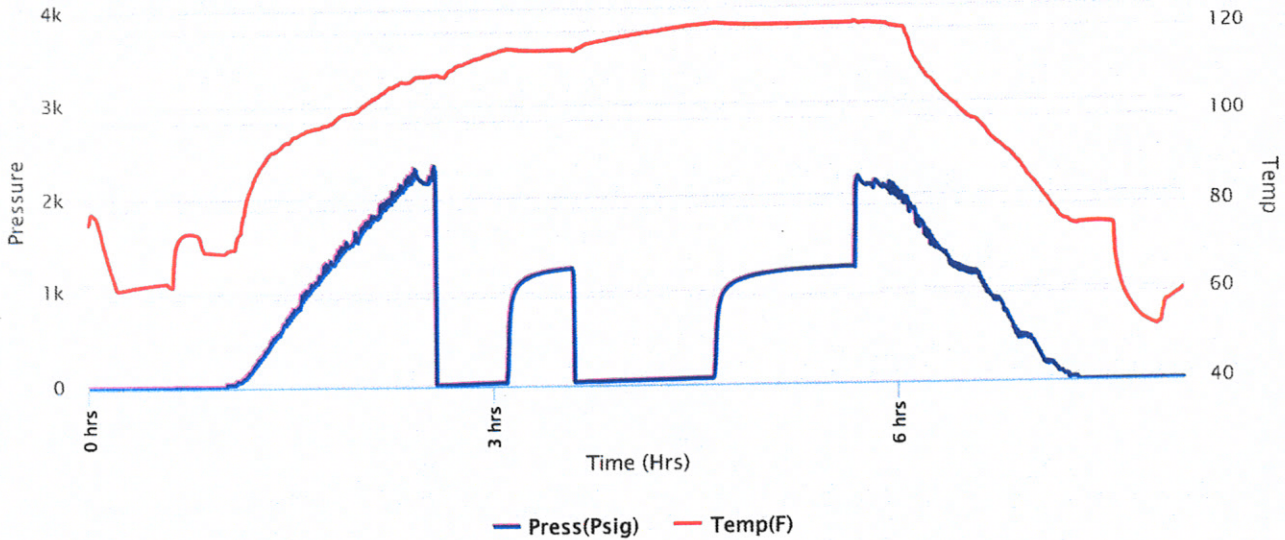
1st Open
Minutes: 30
Current Reading: 2.2" at 30 min
Max Reading: 2.2"

1st Close
Minutes: 30
Current Reading: 0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 60
Current Reading: 2.5" at 60 min
Max Reading: 2.5"

2nd Close
Minutes: 60
Current Reading: 0" at 60 min
Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Test Complete

DATE
March
26
2019

DST #2

Formation:
Mississippi

Test Interval: 4524 -
4532'

Total Depth: 4532'

Time On: 23:18 03/26

Time Off: 07:12 03/27

Time On Bottom: 01:47 03/27

Time Off Bottom: 04:47 03/27

Recovered

Foot	BBLs
115	0.5658

Description of Fluid
SLMCW (trace oil)

Gas %
0

Oil %
.1

Water %
89.9

Mud %
10

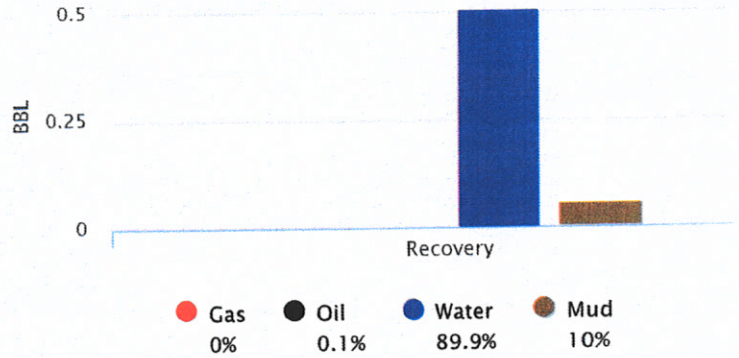
Total Recovered: 115 ft

Total Barrels Recovered: 0.5658

Reversed Out
NO

Initial Hydrostatic Pressure	2209	PSI
Initial Flow	10 to 33	PSI
Initial Closed in Pressure	1240	PSI
Final Flow Pressure	34 to 61	PSI
Final Closed in Pressure	1230	PSI
Final Hydrostatic Pressure	2198	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.8	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Palomino Petroleum,
Inc.**

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:

Test Complete

DATE

March

26

2019

DST #2

**Formation:
Mississippi**

**Test Interval: 4524 -
4532'**

Total Depth: 4532'

Time On: 23:18 03/26

Time Off: 07:12 03/27

Time On Bottom: 01:47 03/27

Time Off Bottom: 04:47 03/27

BUCKET MEASUREMENT:

1st Open: Surface blow building to 2 1/4 ins.

1st Close: No blow back.

2nd Open: Surface blow building to 2 1/4 ins.

2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 2% Oil 75% Water 23% Mud

Ph: 7.0

Measured RW: .6 @ 66 degrees °F

RW at Formation Temp: 0.339 @ 122 °F

Chlorides: 10,000 ppm



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Test Complete

DATE
March
26
2019

DST #2 **Formation: Mississippi** **Test Interval: 4524 - 4532'** **Total Depth: 4532'**
Time On: 23:18 03/26 Time Off: 07:12 03/27
Time On Bottom: 01:47 03/27 Time Off Bottom: 04:47 03/27

Down Hole Makeup

Heads Up: 17.48 FT	Packer 1: 4519 FT
Drill Pipe: 4389.92 FT <i>ID-3 1/2</i>	Packer 2: 4524 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4508.42 FT
Collars: 118.99 FT <i>ID-2 1/4</i>	Bottom Recorder: 4526 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 8	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT
4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT
ID-3 1/2

Change Over: 0 FT

Perforations: (below): 7 FT
4 1/2-FH



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Driling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:

Test Complete

DATE

March

26

2019

DST #2

Formation:
Mississippi

Test Interval: 4524 - 4532'

Total Depth: 4532'

Time On: 23:18 03/26

Time Off: 07:12 03/27

Time On Bottom: 01:47 03/27

Time Off Bottom: 04:47 03/27

Mud Properties

Mud Type: Chemical

Weight: 9.4

Viscosity: 47

Filtrate: 8.0

Chlorides: 4,500 ppm



Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-5977

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

Well Name: Hagans #14-4
API: 15-135-26062-00-00
Location: NW-NW-NW-NW Sec. 14-16S-26W (Ness County)
License Number: 30742
Spud Date: 3/20/19
Surface Coordinates: 384' FNL & 355' FWL
Region: KANSAS
Drilling Completed: 3/28/19

Bottom Hole Coordinates:
Ground Elevation (ft): 2578
Logged Interval (ft): 3700 **To:** TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2583
Total Depth (ft): 3620

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

OPERATOR

Company: Palomino Petroleum, Inc.
Address: 4924 SE 84th St.
Newton, KS 67114

GEOLOGIST

Name: Andrew Stenzel
Company: Petroleum Geologist
Address: 501 S. Franklin
Ness City, KS 67560

Drilling Report

DAILY DRILLING REPORT:

3/20/19 MIRU, ran surface casing
3/21/19 Drilling @ 1355'
3/22/19 Drilling @ 2746'
3/23/19 Drilling @ 3453'
3/24/19 Drilling @ 3952'
3/25/19 Drilling @ 4327'
3/26/19 DST #1
3/27/19 DST #2, ran electric logs
3/28/19 Ran production casing

Services

RIG: WW Drilling, Rig #2

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, PE, DIL, ML

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing set at 209'.

PRODUCTION Casing: Ran 113 jts used 5 1/2" 14# casing set at 4617'.

Formation Tops

Sample Tops		Log Tops	
Anhy.	2008 (+575)	Anhy.	2006 (+577)
Base Anhy.	2042 (+541)	Base Anhy.	2038 (+545)
Heebner	3852 (-1269)	Heebner	3853 (-1270)
Lansing	3893 (-1310)	Lansing	3896 (-1313)
BKC	4195 (-1612)	BKC	4194 (-1611)
Marmaton	4240 (-1559)	Marmaton	4239 (-1656)
Pawnee	4336 (-1753)	Pawnee	4334 (-1751)
Ft. Scott	4399 (-1816)	Ft. Scott	4397 (-1814)
Cher. Sh.	4422 (-1839)	Cher. Sh.	4421 (-1838)
Miss.	4500 (-1917)	Miss.	4503 (-1920)
RTD	4620 (-2037)	LTD	4617 (-2034)



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Uploading recovery & pressures

DATE
March
26
2019

DST #1 **Formation: Mississippian** **Test Interval: 4444 - 4523'** **Total Depth: 4523'**
Time On: 07:53 03/26 Time Off: 16:04 03/26
Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

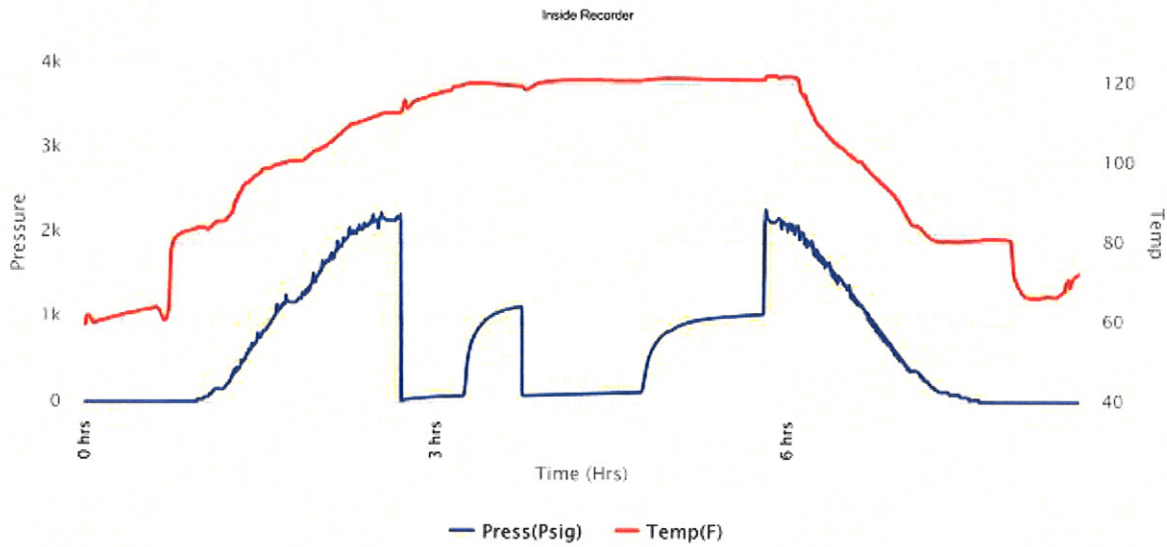
Electronic Volume Estimate:
371'

1st Open
Minutes: 30
Current Reading:
9.9" at 30 min
Max Reading: 9.9"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 60
Current Reading:
15.4" at 60 min
Max Reading: 15.4"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 0"





Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
 County: NESS
 State: Kansas
 Drilling Contractor: WW Driling, LLC - Rig 2
 Elevation: 2577 GL
 Field Name: Unice NE
 Pool: Pool Ext
 Job Number: 323

Operation:
 Uploading recovery & pressures

DATE
 March
26
 2019

DST #1 **Formation: Mississippian** **Test Interval: 4444 - 4523'** **Total Depth: 4523'**
 Time On: 07:53 03/26 Time Off: 16:04 03/26
 Time On Bottom: 10:30 03/26 Time Off Bottom: 13:30 03/26

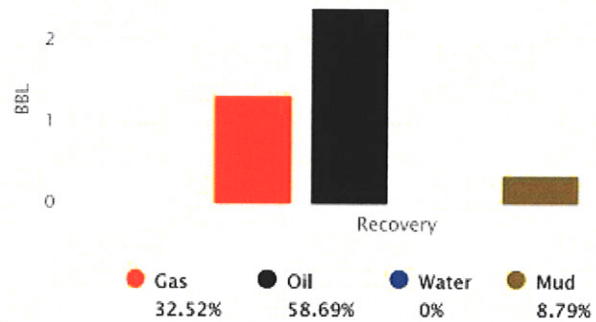
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
95	1.35185	G	100	0	0	0
145	2.06335	O	0	100	0	0
10	0.1423	SLMCO	0	96	0	4
120	0.5998031	HOCM	0	40	0	60

Total Recovered: 370 ft
 Total Barrels Recovered: 4.1573031

Reversed Out
 NO

Initial Hydrostatic Pressure	2147	PSI
Initial Flow	17 to 75	PSI
Initial Closed in Pressure	1129	PSI
Final Flow Pressure	82 to 119	PSI
Final Closed in Pressure	1041	PSI
Final Hydrostatic Pressure	2144	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	7.8	%

Recovery at a glance



GIP cubic foot volume: 7.58996



Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Uploading recovery & pressures

DATE
March
26
2019

DST #2 **Formation: Mississippian** **Test Interval: 4524 - 4532'** **Total Depth: 4532'**
Time On: 23:18 03/26 Time Off: 07:12 03/27
Time On Bottom: 01:47 03/27 Time Off Bottom: 04:47 03/27

Electronic Volume Estimate:
134'

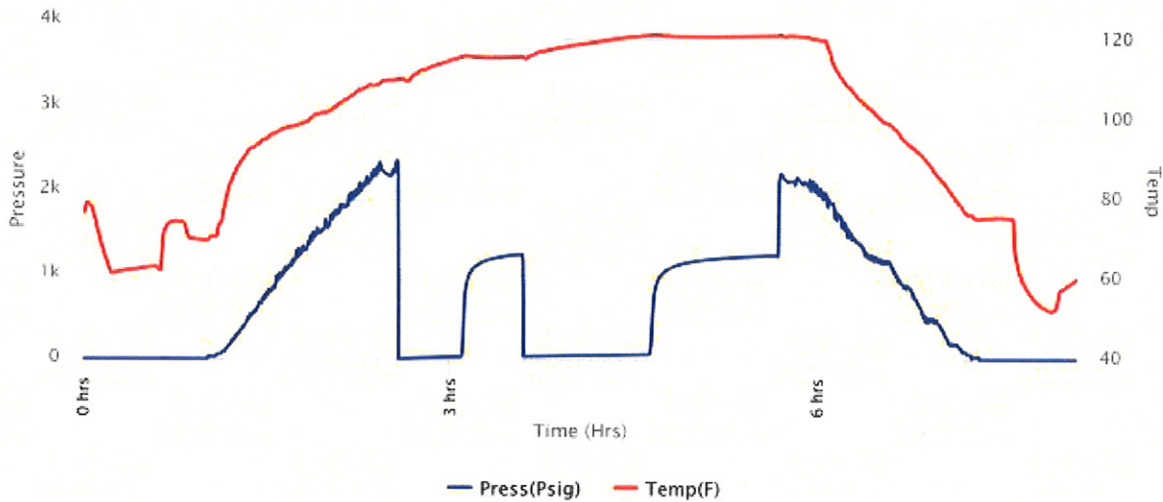
1st Open
Minutes: 30
Current Reading:
2.2" at 30 min
Max Reading: 2.2"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 60
Current Reading:
2.5" at 60 min
Max Reading: 2.5"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 0"

Inside Recorder





Company: Palomino Petroleum, Inc.

Lease: Hagans "14" #4

SEC: 14 TWN: 16S RNG: 26W
County: NESS
State: Kansas
Drilling Contractor: WW Driling, LLC - Rig 2
Elevation: 2577 GL
Field Name: Unice NE
Pool: Pool Ext
Job Number: 323

Operation:
Uploading recovery & pressures

DATE
March
26
2019

DST #2 **Formation: Mississippian** **Test Interval: 4524 - 4532'** **Total Depth: 4532'**
Time On: 23:18 03/26 Time Off: 07:12 03/27
Time On Bottom: 01:47 03/27 Time Off Bottom: 04:47 03/27

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
115	0.5658	SLMCW (trace O)	0	.1	89.9	10

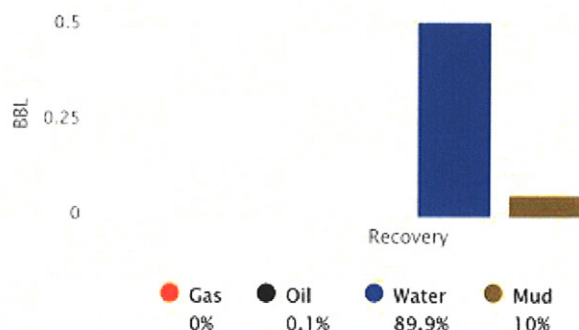
Total Recovered: 115 ft
Total Barrels Recovered: 0.5658

Reversed Out
NO

Initial Hydrostatic Pressure	2209	PSI
Initial Flow	10 to 33	PSI
Initial Closed in Pressure	1240	PSI
Final Flow Pressure	34 to 61	PSI
Final Closed in Pressure	1230	PSI
Final Hydrostatic Pressure	2198	PSI
Temperature	122	°F

Pressure Change Initial Close / Final Close 0.8 %

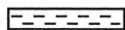



Recovery at a glance







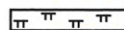


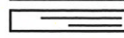
GIP cubic foot volume: 0

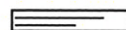


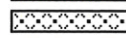
ROCK TYPES

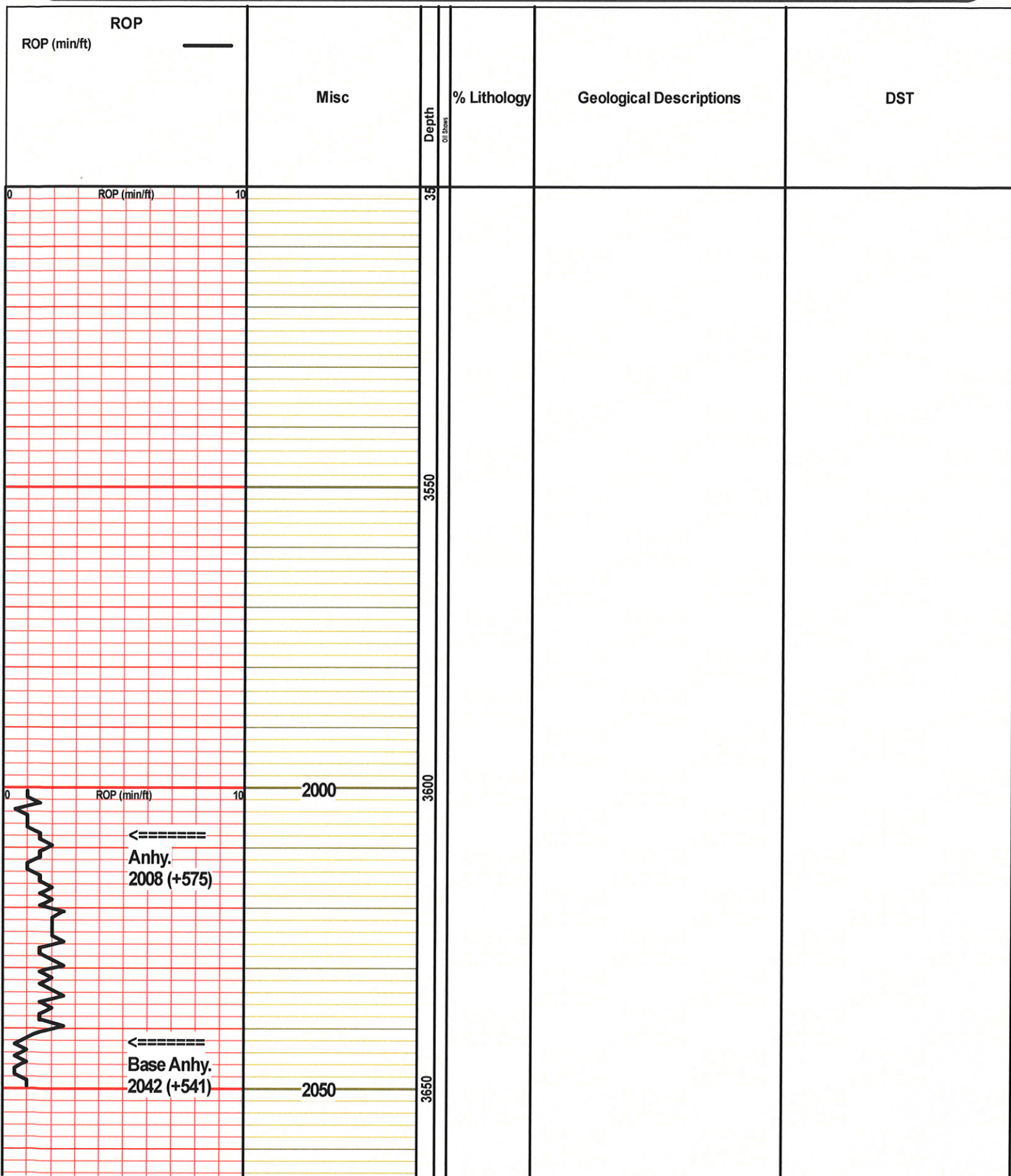
-  Anhy
-  Bent
-  Brec
-  Cht

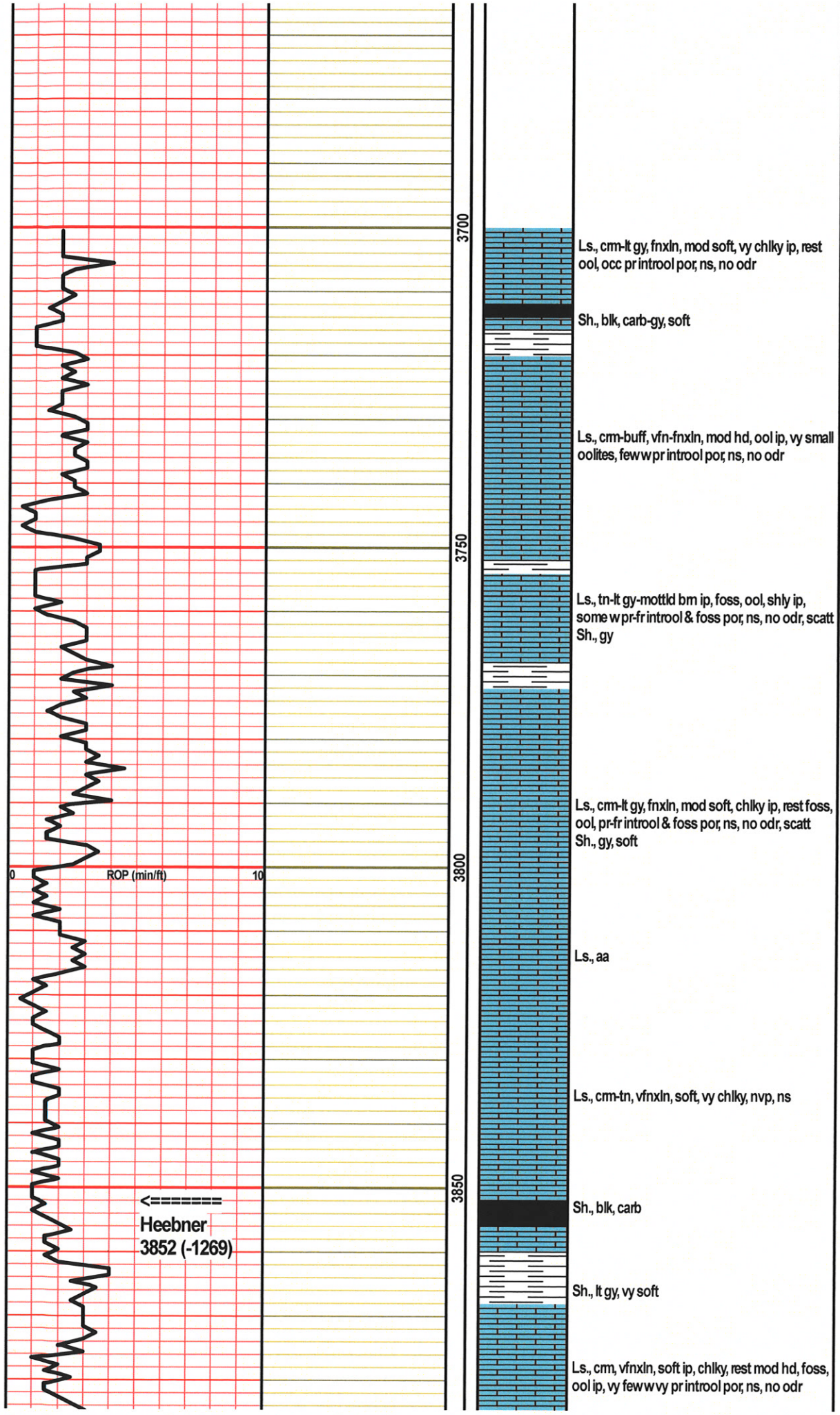
-  Clyst
-  Carb shale
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Slstst
-  Ss
-  Till





Lansing
3893 (-1310)

ROP (min/ft)

Mud @ 3998
Wt. 9.1
Vis 54
Filtrate 8.0
Chlor 4000
LCM Tr

3900
3950
4000
4050
4100

Sh., bm-gy, soft

Ls., cm, fn-vfnxn, mod hd, foss ip, chrt, chlky ip, nvp, ns, abund Chrt, lt gy-cm, shp

Sh., gy-dk gy-bm

Ls., cm, fnxn, mod soft, chlky ip, ool ip, vy few pcs w pr introol por, ns, no odr, scatt Chrt, tn, sli weath

Ls., cm, vfnxn, mod hd-hd, foss ip, dns, nvp, ns, scatt Sh., gy

Ls., cm-lt gy, vfnxn, mod hd-hd, foss ip, couple pcs w pr vug & foss por, ns, no odr, scatt Ls., cm, soft, vy chlky, nvp, ns

Ls., tn, vfnxn, mod hd, ool, fr-gd ooc por, ns, no odr

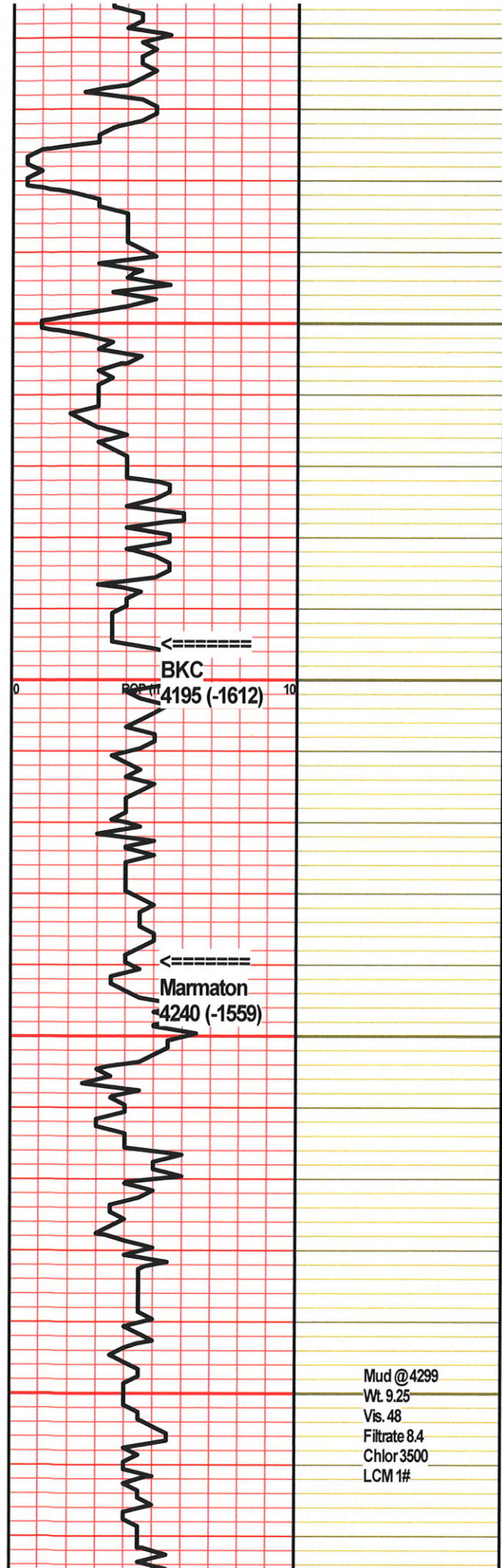
Ls., aa w pr ooc por, ns, some Ls., cm, vfnxn, soft, vy chlky, nvp, ns

Ls., tn-lt gy, fn-vfnxn, mod hd, foss, ool ip, few pcs w vy pr introol por, ns, no odr, scatt Sh., gy-dk gy

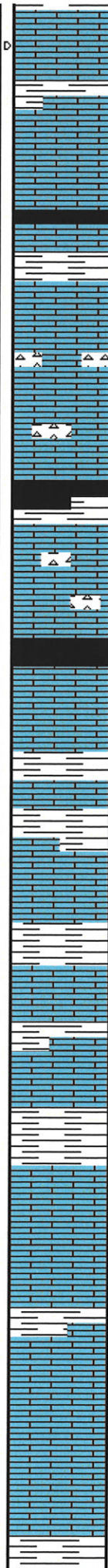
Ls., cm, vfnxn, hd, dns, brittle, foss ip, nvp, ns, no odr, scatt Chrt, tn-lt gy, foss ip

Ls., cm, fn-vfnxn, sli soft/fria, chlky ip, ool ip, scatt pcs w pr-rare fr introol por, tr rexln along por, SSFO, abund bm spot stn, wk cup odr, fr odr on brk, scatt Sh., gy

Ls., cm, fn-vfnxn, mod hd, ool ip, one pc w pr



0
10
4150
4200
4250
4300



introol por, FSFO, bm spot str, no det cup odr,
fr odr on brk, scatt Sh., gy-bm

 Ls., tn, fnxln, mod hd-sli soft ip, ool, fr-gd ooc
por, ns, no odr, no fluoro

 Sh., blk, carb

 Ls., tn, vfnxln, mod hd, foss ip, dns, nvp, ns,
scatt Sh., gy-bm

 Ls., cm, fnxln, mod soft-soft, chlky, ool ip, pr
introol & occ fr ooc por, ns, no odr, scatt Chrt.,
lt gy-cm, foss, shp

 Ls., cm-tn, vfnxln, mod hd, chlky ip, foss ip,
dns, nvp, ns, scatt Chrt, cm-tn, foss ip, sli
weath ip

 Sh., blk-gy, carb ip

 Ls., tn-lt bm, vfnxln, hd, dns, nvp, ns, scatt
Chrt, tn, shp

 Sh., blk, carb

 Sh., gy-bm, soft, Ls., cm, fnxln, mod hd, ool ip,
dns, nvp, ns

 Ls., lt gy, vfnxln, mod hd-hd, dns, nvp, ns

 Sh., gy-dk gy, bm, soft

 Ls., tn-lt gy, vfnxln, hd, dns, shly ip, nvp, ns,
scatt Sh., gy

 Sh., bm-gy, soft

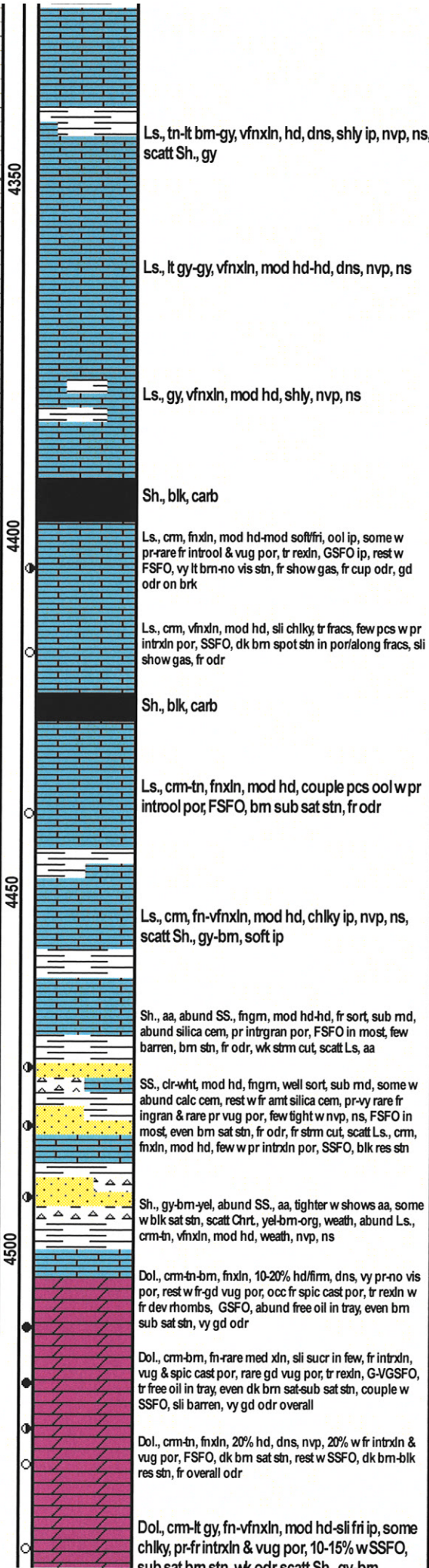
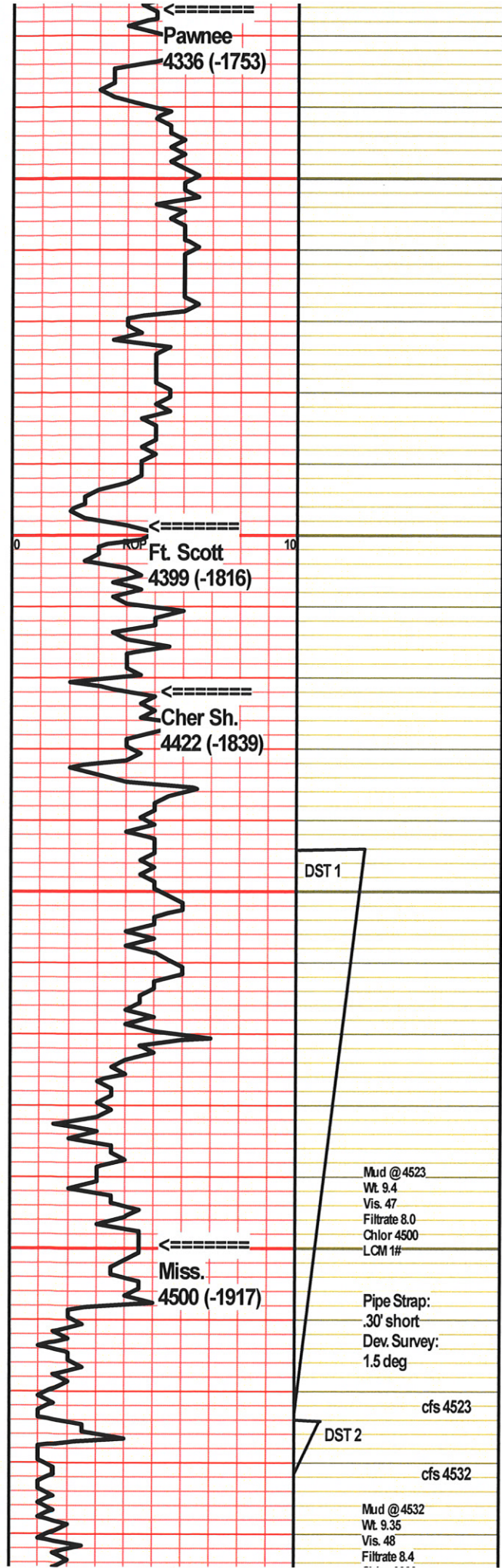
 Ls., cm, vfnxln, mod hd, dns, nvp, ns

 Ls., cm-lt gy, vfnxln, mod hd-hd, silty ip, shly ip,
nvp, ns, scatt Sh., dk gy

 Ls., tn-lt gy, vfnxln, mod hd-hd, dns, nvp, ns

 Ls., aa, Sh., gy-lt gm-bm

Mud @ 4299
 Wt. 9.25
 Vis. 48
 Filtrate 8.4
 Chlor 3500
 LCM 1#



DST 1 4444-4523 (Mississippi)
 30-30-60-60
 IF: SB, built to 9.5"
 IS: No blow
 FF: SB, built to BOB in 44 min
 FS: No blow

Recovery:
 95' GIP
 145' CO (100%O)
 10' SMCW (4%M, 96%O)
 120' HOCM (60%M, 40%O)

275' TF

FP: 17-75; 82-199
 SIP: 1129-1041
 HP: 2147-2144

BHT: 121
 Gravity: 36
 Chlor: ---

DST #2 4524-4532 (Mississippi)
 30-30-60-60
 IF: SB, built to 2.5"
 IS: No blow
 FF: SB, built to 2.5"
 FS: No blow

Recovery:
 115' SMCW wtr oil (90%W, 10%M)

 115' TF

Mud @ 4523
 Wt. 9.4
 Vis. 47
 Filtrate 8.0
 Chlor 4500
 LCM 1#

Pipe Strap:
 .30' short
 Dev. Survey:
 1.5 deg

cfs 4523

cfs 4532

Mud @ 4532
 Wt. 9.35
 Vis. 48
 Filtrate 8.4

