



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1242812
OIL & GAS CONSERVATION DIVISION

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 # _____

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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1242812

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 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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

005801

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

SERVICE POINT: Great Bend

DATE <u>1-28-15</u>	SEC. <u>12</u>	TWP. <u>30</u>	RANGE <u>8</u>	CALLED OUT	ON LOCATION <u>1 AM</u>	JOB START <u>4:30 AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Young #1</u> WELL # <u>3</u>			LOCATION <u>Spivey South across bridge</u>		COUNTY <u>Kingsman</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>1/2 east into</u>				

CONTRACTOR Pickrel
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 4 1/2 DEPTH 4205
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 18'
 CEMENT LEFT IN CSG. 18 ft
 PERFS.
 DISPLACEMENT 66.57 bbl H2O w/ KCL

EQUIPMENT
 PUMP TRUCK CEMENTER Josh Isaac
 # 398 HELPER Brian Lang
 BULK TRUCK
 # 609-239 DRIVER Kevin Wilbous
 BULK TRUCK
 # DRIVER

OWNER
 CEMENT
 AMOUNT ORDERED 175 SX Class A 10% salt
SH Kohl
50 SX 60/40 4% gel 1/4 flt
 COMMON 175 @ 17.90 3,132.50
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
S-1t 962 @ .68 654.14
Kol 875 @ .98 857.50
50 SX 60/40+4% @ 18.92 946.00
Flt 13 @ 2.97 38.61
Kcl 7 @ 34.40 240.80
DU 1100 500 @ 1.35 675.00
 @
 @
 TOTAL 6,544.57

DISCOUNT 30% 1,963.37

REMARKS:

Run 4 1/2 casing - Break cir.
pump 60 bbl DU 1100 - 5 bbl H2O
plus RH - 30 SX
Mix 175 SX Class A 10% salt SH Kohl
Drop plug
Displace 66.57 bbl H2O w/ KCL
land plug 950 psi
Rig down - 5 AM

SERVICE

HANDLING 259.80 @ 2.48 644.30
 MILEAGE 11.39 X 23 X 2.75 720.42
 DEPTH OF JOB 4205
 PUMP TRUCK CHARGE 2765.25
 EXTRA FOOTAGE @
 HV MILEAGE 23 @ 7.70 177.10
 LV MILEAGE 23 @ 4.40 101.20
Head Rent @ 275.00 275.00
 @
 TOTAL 4,683.77

DISCOUNT 30% 1,405.13

CHARGE TO: Pickrell
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Rubber plug @ 83.00 83.00
Guide shoe @ 225.00 225.00
Afu Insert @ 325.00 325.00
5- Centralizers @ 57.00 285.00
 @
 TOTAL 918.00
 DISCOUNT 30% 225.40

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 12,146.34
 DISCOUNT 3,643.90 IF PAID IN 30 DAYS
 NET TOTAL 8,502.44 IF PAID IN 30 DAYS

PRINTED NAME X DAVID HOMMERTZHEM
 SIGNATURE X David Hommertzheim
thank you!!

ALLIED OIL & GAS SERVICES, LLC 063614

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

*Carroll Bend Apts
1-20-15*

DATE <u>1-19-15</u>	SEC. <u>12</u>	TWP. <u>30S</u>	RANGE <u>45W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30</u>	JOB FINISH <u>2:00</u>
LEASE <u>Young A</u>	WELL # <u>3</u>	LOCATION <u>6 private 5 cross RR tracks</u>			COUNTY <u>Kingman</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>1 1/2 B in TD</u>					

CONTRACTOR Pickrell Rig #1

TYPE OF JOB Surf Face

HOLE SIZE 12 1/4 T.D.

CASING SIZE 6 7/8 DEPTH 226

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 13 6615 Freshwater

OWNER _____

CEMENT AMOUNT ORDERED 185 sks class A

3 1/2 cc 2-1/2 gal

COMMON	<u>185</u>	@ <u>17.90</u>	<u>3,311.50</u>
POZMIX		@	
GEL	<u>400</u>	@ <u>.50</u>	<u>200.00</u>
CHLORIDE	<u>521</u>	@ <u>1.10</u>	<u>573.10</u>
ASC	<u>Materials</u>		<u>4,084.60</u>
	<u>Dise 25%</u>		<u>1,021.15</u>
	@		
	@		
	@		
	@		
	@		
	@		
	<u>Service</u>		
	@		
HANDLING	<u>200.05</u>	@ <u>2.48</u>	<u>496.12</u>
MILEAGE	<u>9.13 x 23 x</u>	<u>2.75</u>	<u>577.47</u>

EQUIPMENT

PUMP TRUCK # 306 CEMENTER Pustin Chambers
HELPER Ben Newell

BULK TRUCK # 49112 DRIVER Kevin Wergthaus

BULK TRUCK # _____ DRIVER _____

REMARKS:

Break circulation with dry mud
pump 56615 freshwater ahead
put 185 sks class A 392
Displace 13 6615 freshwater
1 1/2 B in TD
owner did circulation
plug down 2:00 AM 1-20-15
Rig Down

DEPTH OF JOB	<u>224</u>		
PUMP TRUCK CHARGE		<u>1512.25</u>	
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 23</u>	@ <u>7.70</u>	<u>177.10</u>
MANIFOLD	<u>Lum 23</u>	@ <u>4.40</u>	<u>101.20</u>
		@	
		@	

CHARGE TO: Pickrell

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2,864.14
Dise 25% 716.04

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

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.

TOTAL 0
0%

PRINTED NAME X DAVID HOMMERTZHEIM

SALES TAX (If Any) _____

TOTAL CHARGES 6,948.74

DISCOUNT 25% 1,737.12 IF PAID IN 30 DAYS

SIGNATURE David Hommertzheim
Thank You!

5,211.55

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Young "A" #3
API: 15-095-22294
Location: Section 12 - T30S - R8W
License Number: 5123
Spud Date: 1/19/ 2015
Surface Coordinates: 660' FSL and 660' FEL
Approx. SE - SE
Region: Kingman Co., KS
Drilling Completed: 1/27/15
Bottom Hole Coordinates:
Ground Elevation (ft): 1471' K.B. Elevation (ft): 1481'
Logged Interval (ft): 2900' To: 4215' Total Depth (ft): 4215'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Pickrell Drilling Company, Inc.
Address: 100 S Main Ste 505
Wichita, KS 67202+3738

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Pickrell Drilling Company, Inc.
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #1

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ RR	15-15-15	212	202	3.25
2	7-7/8	HA20JQ	15-15-15	3155	2943	53.75
3	7-7/8	HA20JQ	15-15-15	4125	1182	39.00
4	7-7/8	HA30Q	15-15-15	4215	90	2.50

SURVEYS: 212'-.75, 717'-1, 1221'-1, 1727'-1, 2233'-.5, 2737'-.25, 3155'-.25, 4125'-1, 4215'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 32,000 - 42,000 lbs. on bit and approx 65-75 RPM.

Running 9 stands of collars; 520'

Pumping approx 1100 psi at standpipe.

Daily Status

1/19/15 - Spud @ 7:15pm

1/20/15 - WOC @ 212', Ran 5 jts of New 8 5/8" 28# surface casing set @ 212', cmt w/ 185 sx Class A, 2% gel, 3% CC

1/21/15 - Drilling @ 1284'

1/22/15 - Drilling @ 2107'

1/23/15 - Drilling @ 2980'

1/24/15 - Drilling @ 3550'

1/25/15 - Drilling @ 3950'

1/26/15 - DST #1 4110'-4125'

1/27/15 - DST #2 4125'-4145'

1/28/15 - TD @ 4215', Logged, Ran 103 jts of New 4 1/2" 10.5# prod casing set @ 4205', cmt w/ 115sx Class A, 10% salt, w/ 5# KC/sx, 30sx in RH of 60-40 poz, 4% gel w/ 1/4#FC/sx

DST #1: 4,110' - 4,125' Mississippian
30" - 60" - 90" - 90"

IF: BOB in 1min

ISI: GTS on blow down, No blow back

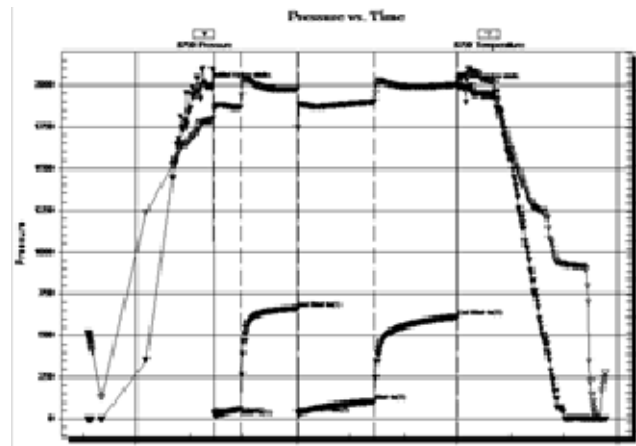
FF: BOB immed. Guaged gas

FSI: No blow

RECOVERY: 30' G0WCM (30% G, 5% O, 5% W, 60% M), 60
GOMCW (10% G, 5% O, 75% W, 10% M)

Guaged Gas: FF: 10"-11.75, 20"-15.87, 30"-19.24, 40"-21.48,
50"-23.36, 60"-25.23, 70"-26.35, 80"-27.47, 90"-28.6

SIP: 662-612; FP: 28-61, 28-106; HP: 1997-1987;



DST #1: 4,125' - 4,145' Mississippian
30" - 60" - 90" - 90"

IF: BOB in 30sec

ISI: No blow

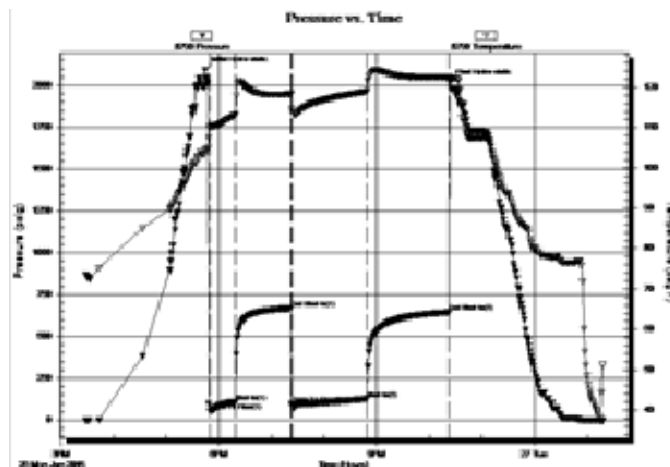
FF: BOB immed. Guaged gas

FSI: No blow

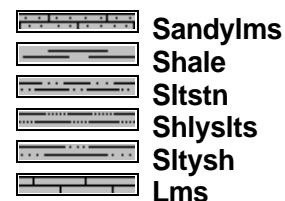
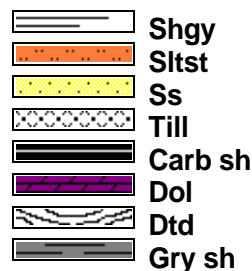
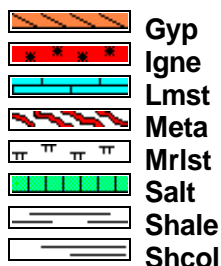
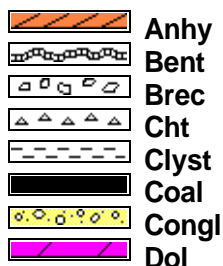
RECOVERY: 60' GMWCO (22% G, 37% O, 26% W, 15% M), 60
GMWCO (30% G, 50% O, 15% W, 5% M), 120' CGO (10% G,
90% O), 35' W (Chlor-120,000ppm)

Guaged Gas: FF: 10"-73.61, 20"-76.78, 30"-84.71, 40"-73.61,
50"-59.33, 60"-56.16, 70"-52.99, 80"-51.40, 90"-49.81

SIP: 668-644; FP: 52-107, 97-127; HP: 2093-2017;



ROCK TYPES

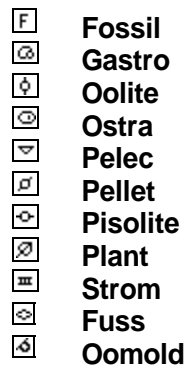
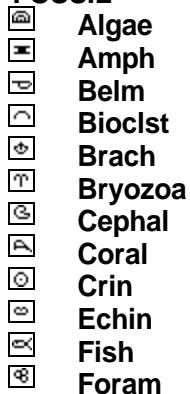


ACCESSORIES

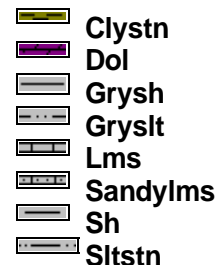
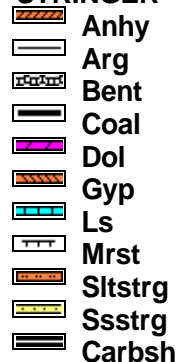
MINERAL



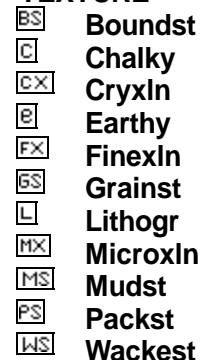
FOSSIL



STRINGER

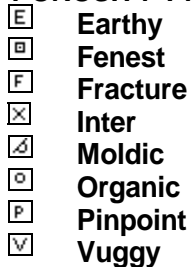


TEXTURE



OTHER SYMBOLS

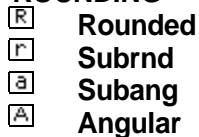
POROSITY TYPE



SORTING



ROUNDING



OIL SHOWS



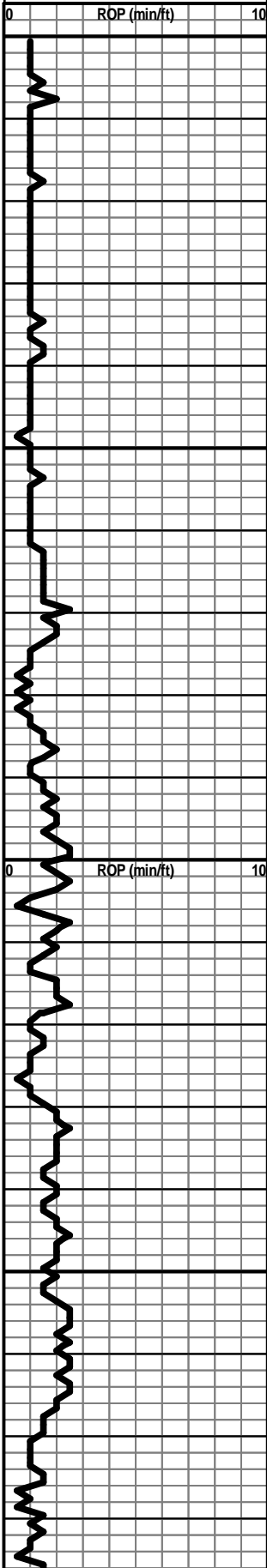
INTERVALS



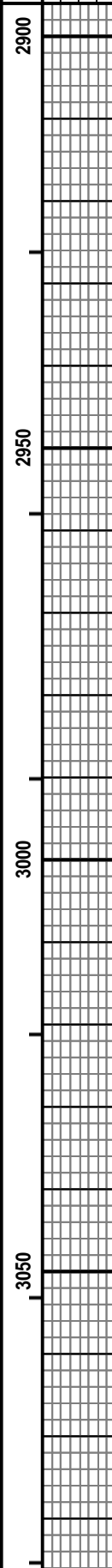
EVENTS



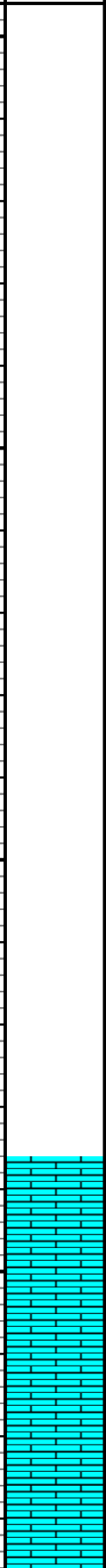
Curve Track 1
ROP (min/ft)



Depth

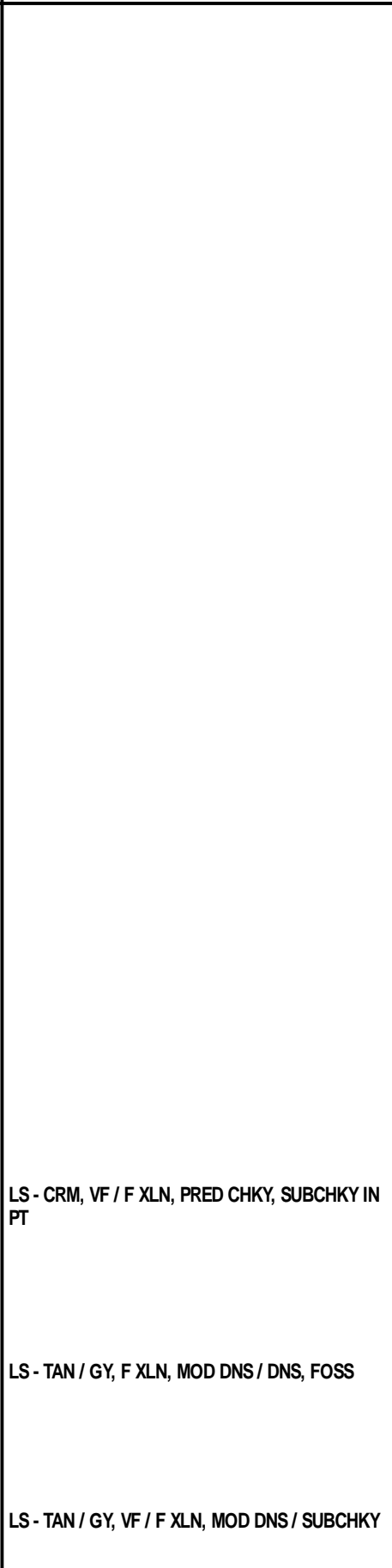


Porosity



Oil Shows

Lithology



Geological Descriptions

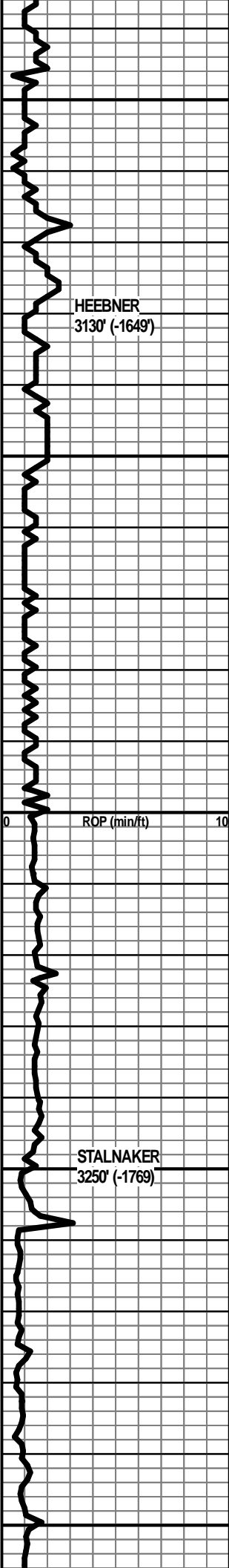
LS - CRM, VF / F XLN, PRED CHKY, SUBCHKY IN PT

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS

LS - TAN / GY, VF / F XLN, MOD DNS / SUBCHKY

New Track

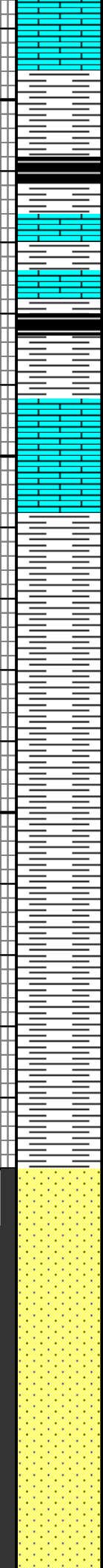
WT 8.7
VIS 72



HEEBNER
3130' (-1649')

STALNAKER
3250' (-1769')

3100
3150
3200
3250
3300



SH - GY / BLK

SH - GY / BLK, CARB

LS - TAN / GY, F XLN, MOD DNS, FOSS

SH - BLK, CARB

SH - GY

LS - TAN, VF / F XLN, SUBCHKY / MOD DNS

SH - GY, V SOFT

SH - GY, SLTY

SH - GY / LT GRN, SLTY IN PT

SH - GY / GRN, GYIS SLTY IN PT, GRN IS WXY IN PT

SH - GY, SLTY

SS - CLR, FN GR, MOD SRTD, SUB RND, GLAUC, G POR, NS, NO ODOR

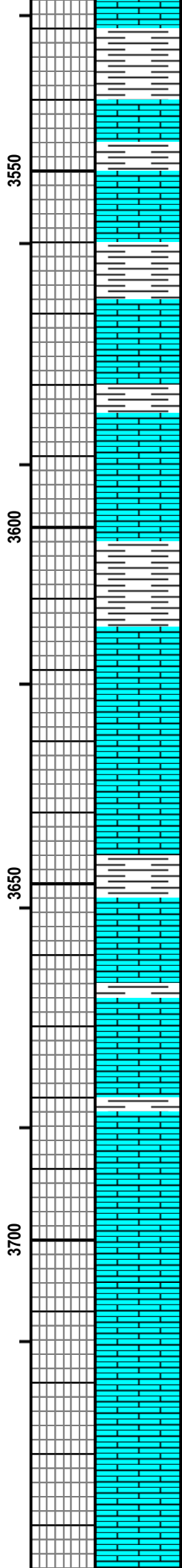
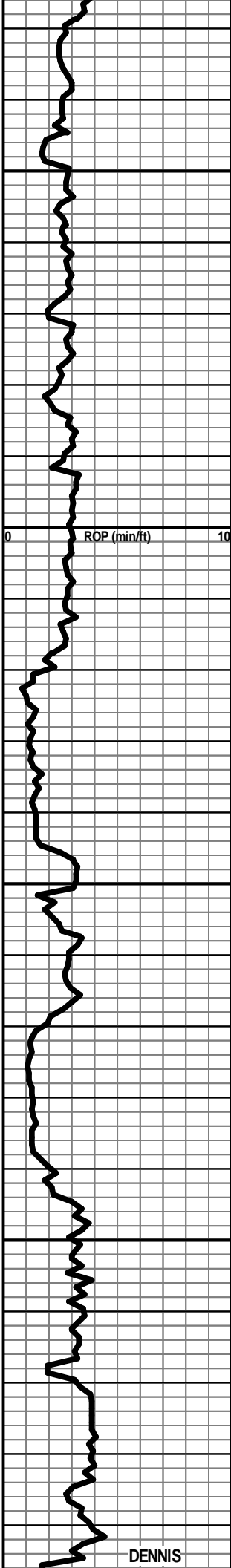
SS - CLR / GY, FN GR, W SRTD, SUB RND / RND, GLAUC, G POR, NS, NO ODOR

SS - GY, FN GR, W SRTD, W RND, F POR, GLAUC, NS

WT 8.6
VIS 55

WT 8.4
VIS 64

WT 8.4
VIS 57



SH - GRN / GY, WXY IN PT

SH - RD / GRN / MAR

SH - GRN / GY

LS - CRM, VF / FXLN, SUBCHKY / MOD DNS

LS - GY / BRN, F XLN, DNS, FOSS

SH - GRN / GY / RD

LS - TAN, VF / F XLN, MOD DNS, FOSS (FUSULINIDS)

LS - BRN, F XLN, DNS, FOSS IN PT

SH - LT GY / DK GY

LS - CRM / TAN, VF / F XLN, DNS

LS - TAN / GY, F XLN, DNS, FOSS IN PT

LS - GY / BRN, VF / F XLN, MOD DNS / DNS

LS - DK GY, F XLN, MOD DNS / DNS, ABUND FOSS

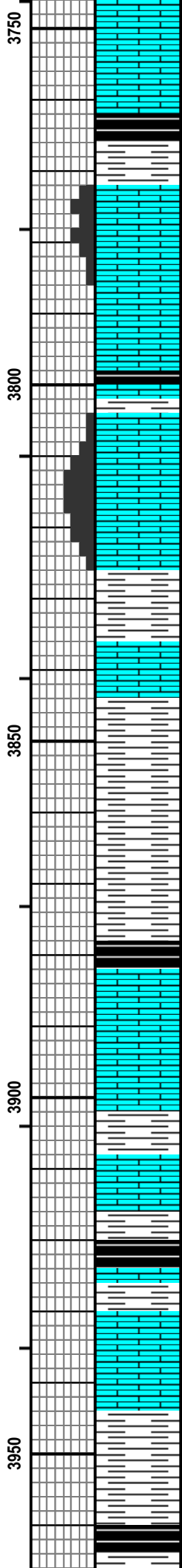
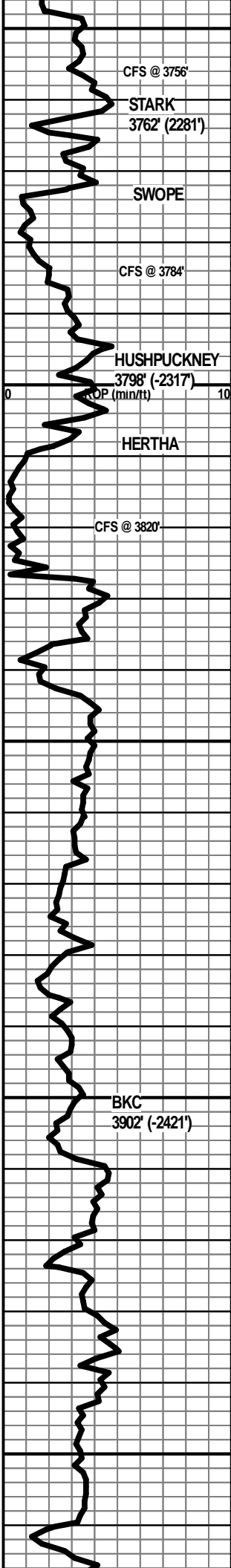
LS - WHT / CRM, VF / F XLN, SUBCHKY / CHKY, FOSS

LS - OFF WHT / CRM, VF / F XLN, P / F INTX N

WT 8.9
VIS 48

WT 9.0
VIS 52

WT 9.5
VIS 53

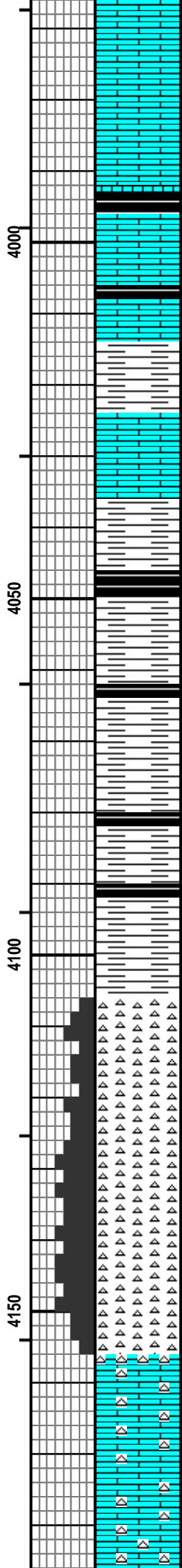
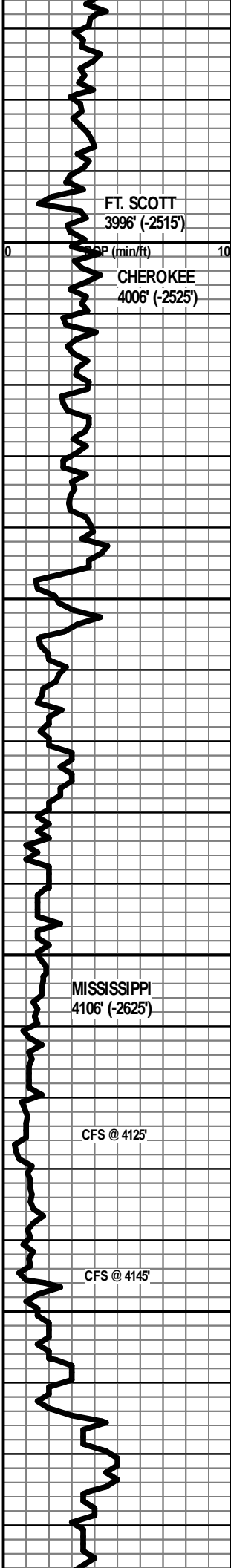


POR, NS, NO ODOR, NO FLUOR
 LS - TAN, F XLN, DNS
 SH - BLK, CARB, GAS BUBBLES
 LS - TAN, VF / F XLN, F / G INTXLN POR, NS, NO ODOR, NO FLUOR
 LS - TAN / BRN, F XLN, DNS, FOSS IN PT, NS
 SH - BLK, CARB, GAS BUBBLES
 LS - TAN / GY, F XLN, DNS, NS
 LS - TAN / BRN, F XLN, F / G OOLMOLDIC + INTXLN POR, NS, SLI YEL FLUOR
 LS - TAN / BRN, F XLN, G OOLMOLDIC + INTXLN POR, NS
 SH - GY
 LS - TAN / GY, F XLN, MOD DNS / DNS
 SH - GY
 SH - GY
 SH - BLK, SLI CARB
 LS - OFF WHT / CRM, VF XLN, SUBCHKY / CHKY
 SH - GRN, DNS, LMY IN PT
 LS - TAN, F XLN, DNS
 SH - BLK, CARB
 LS - TAN, F XLN, DNS
 SH - GY
 SH - BLK, SLI CARB

WT 9.3
VIS 51

WT 9.1
VIS 45

WT 9.4
VIS 44



LS - TAN / GY, VF / F XLN, MOD DNS / DNS, FOSS

LS - TAN / GY, F XLN, DNS, FOSS

SH - BLK, CARB

LS - TAN, F / M XLN, DNS

SH - BLK, CARB

SH - GRN / GY

LS - TAN, F XLN, DNS

SH - LT GY / DK GY

SH - BLK, CARB

SH - LT GY / DK GY, PYRITIC IN PT

SH - BLK, CARB

SH - LT GY / DK GY

SH - BLK, SLI CARB

SH - GY

SH - BLK, CARB

SH - LT GY

CHT - WHT / BRN, WEATH, F / G TRIP POR, VGS GAS, SSFO, OIL SHEEN, ABUND OIL STN, F ODOR, G YEL-GRN FLUOR

CHT - WHT / BRN, 50% FRSH, 50% WEATH, G TRIP POR, FSFO, VGS GAS, F ODOR, G YEL-GRN FLUOR

CHT - WHT / BRN, FRSH IN PT, PRED WEATH, G TRIP POR, GSFO, GS GAS, F ODOR, G YEL-GRN FLUOR

CHT - WHT / BRN, WEATH, G / XLCNT TRIP POR, VGSFO, GS GAS, G ODOR, G YEL-GRN FLUOR

CHT - WHT / BRN, 50% FRSH, 50% WEATH, G TRIP POR, GSFO, GS GAS, G ODOR, G YEL-GRN FLUOR

LS - OFF WHT / GY, VF / F XLN, MOD DNS, NS, NO ODOR, W/ CHT - WHT, FRSH, DNS

LS - OFF WHT / GY, VF / F XLN, MOD DNS / DNS, NS, W/ ABUND CHT - WHT, FRSH, DNS

Strap Board Strap

WT 9.3
VIS 55

DST #1
MISSISSIPPIAN
4110'-4125'
30"-60"-90"-90"

IF: BOB in 1min
ISI: GTS on blow down, No blow back
FF: BOB immed. Guaged gas
FSI: No blow

Rec': GTS (*see top of report), 30' GOWCM (30% G, 5% O, 5% W, 60% M), 60 GOMCW (10% G, 5% O, 75% W, 10% M)

IH: 1997#
IF: 28#-61#
ISI: 662#
FF: 28#-106#
FSI: 612#
FH: 1987#

WT 9.2
VIS 51

DST #2
MISSISSIPPIAN
4125'-4145'
30"-60"-90"-90"

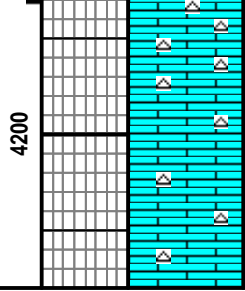
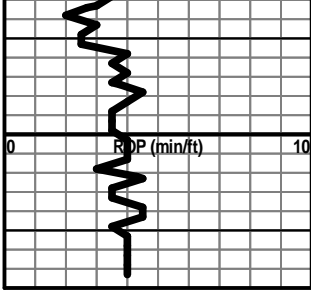
IF: BOB in 30sec, GTS in 19min
ISI: No blow
FF: BOB immediately, guaged gas
FSI: No blow

Rec': GTS (*see top of report), 60' GMWCO (22% G, 37% O, 26% W, 15% M), 60' GMWCO (30% G, 50% O, 15% W, 5% M), 120' CGO (10% G, 90% O), 35' Water (120,000ppm)

IH: 2093#
IF: 52#-107#
ISI: 668#
FF: 97#-127#
FSI: 644#
FH: 2017#

WT 9.1
VIS 51

WT 9.3
VIS 55



LS - WHT, VF / F XLN, MOD DNS / SUBCHKY, NS

RTD 4215'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drlg. Co. Inc.
 100 S. Main Ste. 505
 Wichita, KS 67202-3738
 ATTN: Aaron Young

12-30s-8w Kingman Co., KS
Young 'A' - 3
 Job Ticket: 59962 **DST#: 1**
 Test Start: 2015.01.25 @ 23:05:26

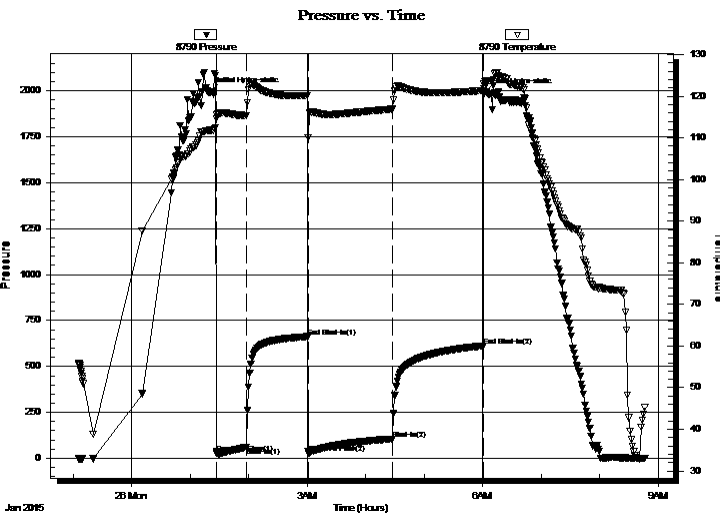
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:26:41
 Time Test Ended: 08:46:26
 Interval: **4110.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Total Depth: 4125.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1481.00 ft (KB)
 1471.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Press @ Run Depth: 106.00 psig @ 4115.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.25 End Date: 2015.01.26 Last Calib.: 2015.01.26
 Start Time: 23:05:31 End Time: 08:46:26 Time On Btm: 2015.01.26 @ 01:20:41
 Time Off Btm: 2015.01.26 @ 06:01:11

TEST COMMENT: IF: Strong blow . BOB @ 1min.
 IS: GTS on blow dow n. No Blow Back.
 FF: Strong blow . BOB immed. Guaged gas.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.59	111.82	Initial Hydro-static
6	28.38	114.59	Open To Flow (1)
37	60.86	115.26	Shut-In(1)
100	662.09	120.17	End Shut-In(1)
101	28.48	110.02	Open To Flow (2)
187	106.00	116.89	Shut-In(2)
280	612.12	121.35	End Shut-In(2)
281	1987.21	121.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.84
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	17.00	11.75
Last Gas Rate	0.13	62.00	28.60
Max. Gas Rate	0.13	62.00	28.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drlg. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman Co., KS
Young 'A' - 3
Job Ticket: 59962 **DST#: 1**
Test Start: 2015.01.25 @ 23:05:26

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 115000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.08 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.842
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.421

Total Length: 90.00 ft Total Volume: 1.263 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Pickrell Drlg. Co. Inc.

12-30s-8w Kingman Co., KS

100 S. Main Ste. 505
Wichita, KS 67202-3738

Young 'A' - 3

Job Ticket: 59962

DST#: 1

ATTN: Aaron Young

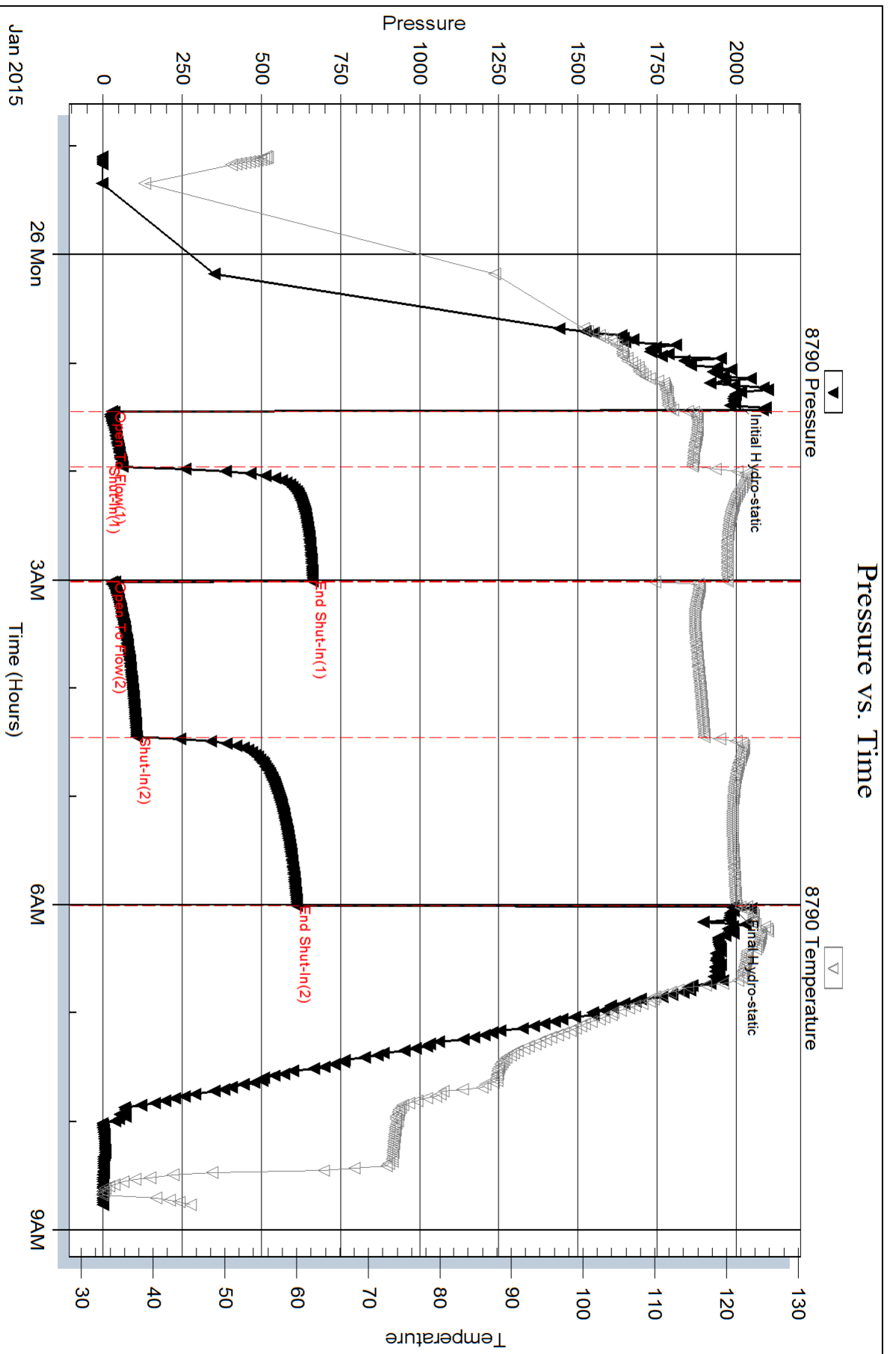
Test Start: 2015.01.25 @ 23:05:26

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	17.00	11.75
2	20	0.13	28.00	15.87
2	30	0.13	37.00	19.24
2	40	0.13	43.00	21.48
2	50	0.13	48.00	23.35
2	60	0.13	53.00	25.23
2	70	0.13	56.00	26.35
2	80	0.13	59.00	27.47
2	90	0.13	62.00	28.60





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drlg. Co. Inc.**

100 S. Main Ste. 505
Wichita, KS 67202-3738

ATTN: Aaron Young

Young 'A' #3

12-30s-8w Kingman,KS

Start Date: 2015.01.25 @ 23:05:26

End Date: 2015.01.26 @ 08:46:26

Job Ticket #: 59962 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.28 @ 08:54:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drig. Co. Inc.
 100 S. Main Ste. 505
 Wichita, KS 67202-3738
 ATTN: Aaron Young

12-30s-8w Kingman,KS
Young 'A' #3
 Job Ticket: 59962 **DST#: 1**
 Test Start: 2015.01.25 @ 23:05:26

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:26:41
 Time Test Ended: 08:46:26
 Interval: **4110.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Total Depth: 4125.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1481.00 ft (KB)
 1471.00 ft (CF)
 KB to GR/CF: 10.00 ft

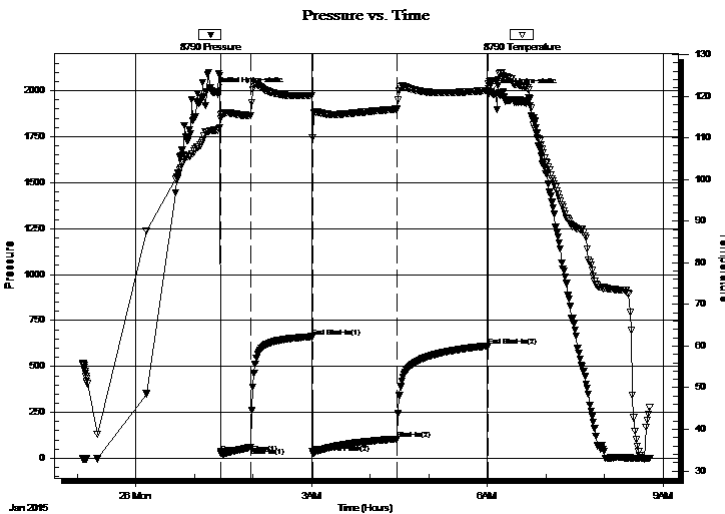
Serial #: 8790

Inside

Press@RunDepth: 106.00 psig @ 4115.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.25 End Date: 2015.01.26 Last Calib.: 2015.01.26
 Start Time: 23:05:31 End Time: 08:46:26 Time On Btm: 2015.01.26 @ 01:20:41
 Time Off Btm: 2015.01.26 @ 06:01:11

TEST COMMENT: IF: Strong blow . BOB @ 1min.
 IS: GTS on blow dow n. No Blow Back.
 FF: Strong blow . BOB immed. Gauged gas.
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.59	111.82	Initial Hydro-static
6	28.38	114.59	Open To Flow (1)
37	60.86	115.26	Shut-In(1)
100	662.09	120.17	End Shut-In(1)
101	28.48	110.02	Open To Flow (2)
187	106.00	116.89	Shut-In(2)
280	612.12	121.35	End Shut-In(2)
281	1987.21	121.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.84
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.42
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	17.00	11.75
Last Gas Rate	0.13	62.00	28.60
Max. Gas Rate	0.13	62.00	28.60



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drig. Co. Inc.

12-30s-8w Kingman,KS

100 S. Main Ste. 505
Wichita, KS 67202-3738

Young 'A' #3

Job Ticket: 59962

DST#: 1

ATTN: Aaron Young

Test Start: 2015.01.25 @ 23:05:26

Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 57.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4110.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	2.00		Inside	4105.00	
Packer	5.00			4110.00	22.00 Bottom Of Top Packer
Packer - Shale	4.00			4114.00	
Stubb	1.00			4115.00	
Recorder	0.00	8790	Inside	4115.00	
Recorder	0.00	8792	Outside	4115.00	
Perforations	11.00			4126.00	
Bullnose	3.00			4129.00	19.00 Anchor Tool

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drig. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman,KS
Young 'A' #3
Job Ticket: 59962 **DST#: 1**
Test Start: 2015.01.25 @ 23:05:26

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 115000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.08 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOMCW 5%o, 10%g, 10%m, 75%w	0.842
30.00	GOWCM 5%o, 5%w, 30%g, 60%m	0.421
0.00	GTS	0.000

Total Length: 90.00 ft Total Volume: 1.263 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Pickrell Drig. Co. Inc.

12-30s-8w Kingman,KS

100 S. Main Ste. 505
Wichita, KS 67202-3738

Young 'A' #3

Job Ticket: 59962

DST#: 1

ATTN: Aaron Young

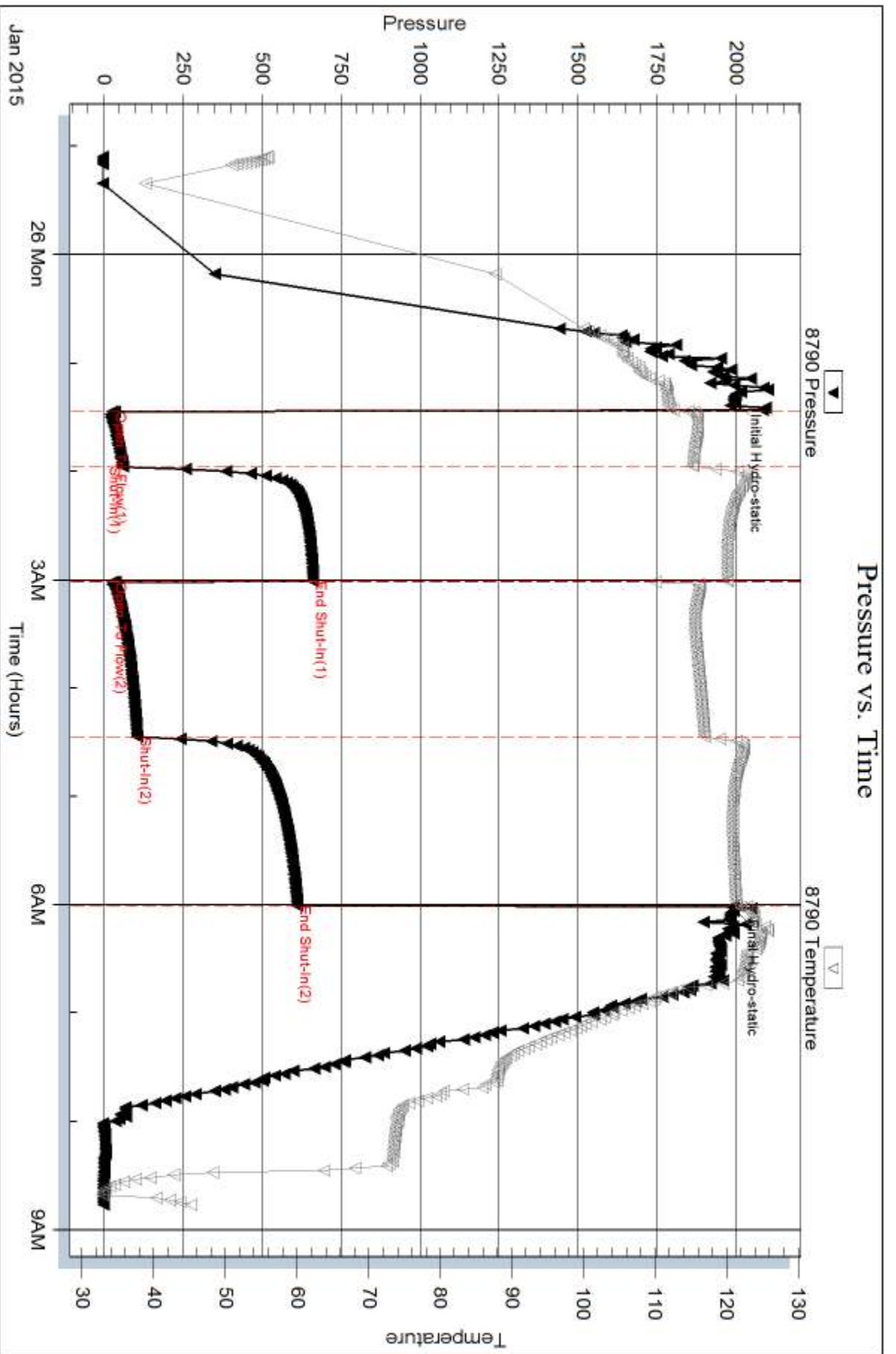
Test Start: 2015.01.25 @ 23:05:26

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	17.00	11.75
2	20	0.13	28.00	15.87
2	30	0.13	37.00	19.24
2	40	0.13	43.00	21.48
2	50	0.13	48.00	23.35
2	60	0.13	53.00	25.23
2	70	0.13	56.00	26.35
2	80	0.13	59.00	27.47
2	90	0.13	62.00	28.60

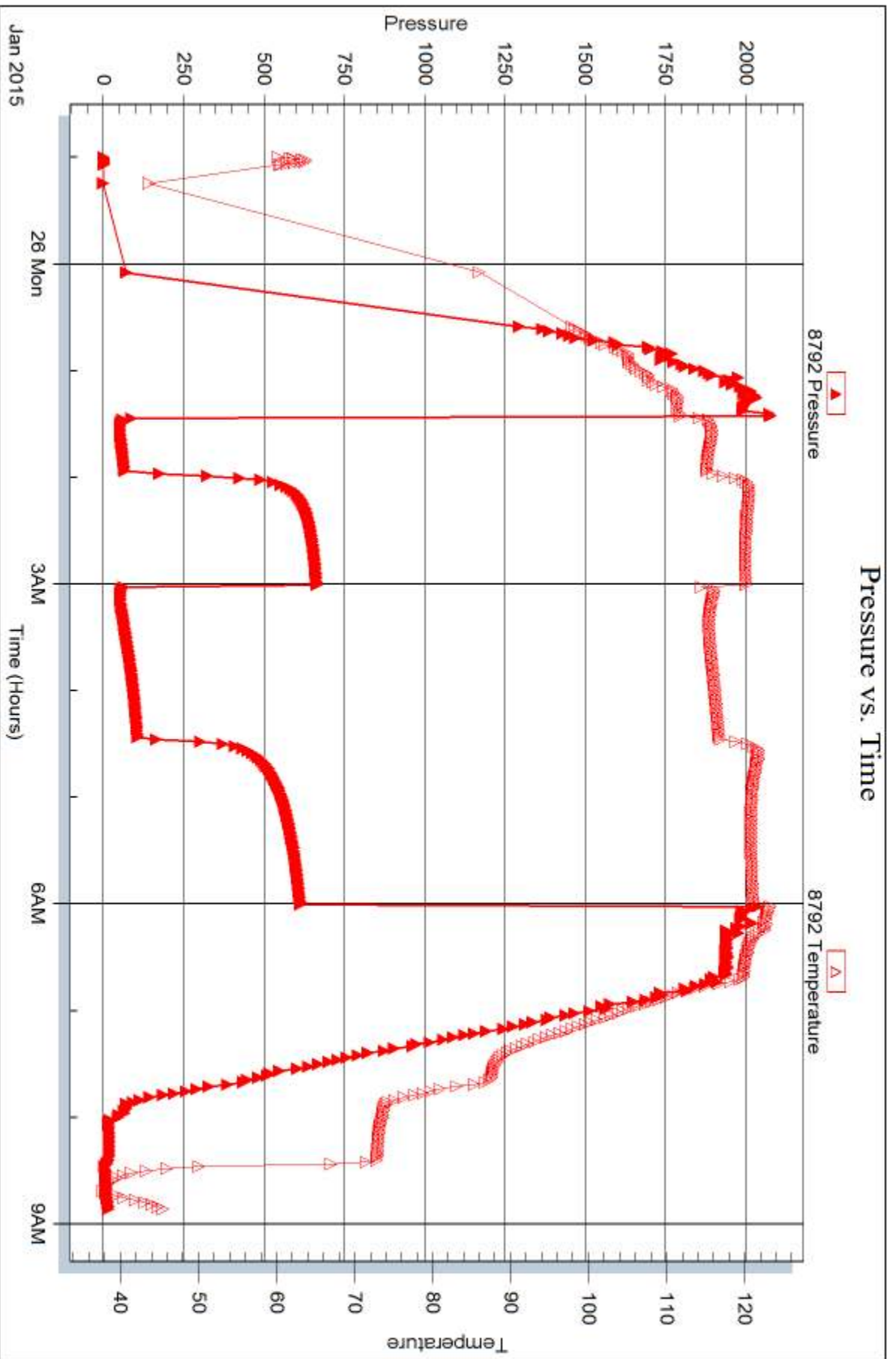


Serial #: 8792

Outside Pckell Dtg. Co. Inc.

Young A.#3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59962

Printed: 2015.01.28 @ 08:54:18



DRILL STEM TEST REPORT

Prepared For: **Pickrell Drlg. Co. Inc.**

100 S. Main Ste. 505
Wichita, KS 67202-3738

ATTN: Aaron Young

Young 'A' #3

12-30s-8w Kingman,KS

Start Date: 2015.01.26 @ 15:27:59

End Date: 2015.01.27 @ 01:17:29

Job Ticket #: 59963 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.28 @ 08:56:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pickrell Drig. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman,KS
Young 'A' #3
Job Ticket: 59963 **DST#: 2**
Test Start: 2015.01.26 @ 15:27:59

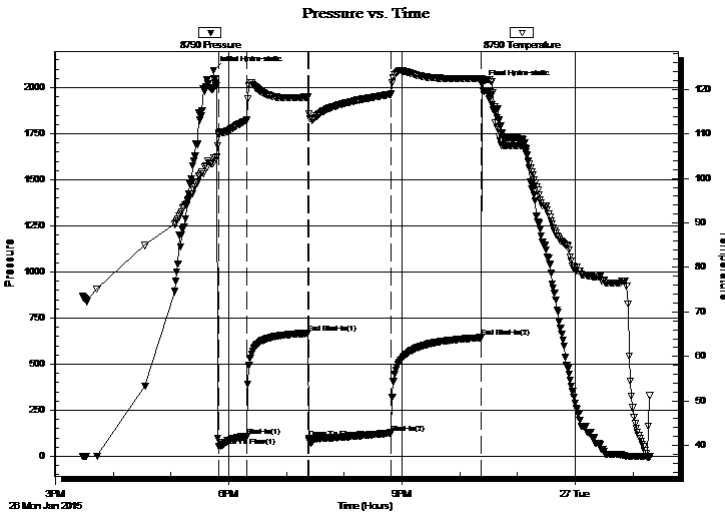
GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:49:14
Time Test Ended: 01:17:29
Interval: **4125.00 ft (KB) To 4145.00 ft (KB) (TVD)**
Total Depth: 4145.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 1481.00 ft (KB)
1471.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: 127.24 psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.01.26 End Date: 2015.01.27 Last Calib.: 2015.01.27
Start Time: 15:28:04 End Time: 01:17:29 Time On Btm: 2015.01.26 @ 17:44:14
Time Off Btm: 2015.01.26 @ 22:23:14

TEST COMMENT: IF: Strong blow . BOB @ 30sec. GTS @ 19 min.
IS: No blow
FF: Strong blow . BOB immed. Gauged gas.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2093.12	104.54	Initial Hydro-static
5	51.72	109.74	Open To Flow (1)
35	106.73	113.13	Shut-In(1)
98	667.96	118.34	End Shut-In(1)
99	96.77	114.49	Open To Flow (2)
185	127.24	118.94	Shut-In(2)
279	644.17	122.51	End Shut-In(2)
279	2016.65	122.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Water 100%w	0.49
120.00	Clean Gassy Oil 10%g, 90%o	1.68
60.00	GMWCO 5%m, 15%w, 30%g, 50%o	0.84
60.00	GMWCO 15%m, 26%w, 22%g, 37%o	0.84
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	48.00	98.99
Last Gas Rate	0.25	17.00	49.81
Max. Gas Rate	0.25	49.00	100.58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drig. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman,KS
Young 'A' #3
Job Ticket: 59963 **DST#: 2**
Test Start: 2015.01.26 @ 15:27:59

Tool Information

Drill Pipe:	Length: 4103.00 ft	Diameter: 3.80 inches	Volume: 57.55 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 57.55 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4125.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4108.00	
Hydraulic tool	5.00			4113.00	
Jars	5.00			4118.00	
Safety Joint	2.00		Inside	4120.00	
Packer	5.00			4125.00	22.00 Bottom Of Top Packer
Packer - Shale	4.00			4129.00	
Stubb	1.00			4130.00	
Recorder	0.00	8790	Inside	4130.00	
Recorder	0.00	8792	Outside	4130.00	
Perforations	16.00			4146.00	
Bullnose	3.00			4149.00	24.00 Anchor Tool

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drig. Co. Inc.
100 S. Main Ste. 505
Wichita, KS 67202-3738
ATTN: Aaron Young

12-30s-8w Kingman,KS
Young 'A' #3
Job Ticket: 59963 **DST#: 2**
Test Start: 2015.01.26 @ 15:27:59

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 120000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.58 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8500.00 ppm		
Filter Cake: 0.08 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Water 100%w	0.491
120.00	Clean Gassy Oil 10%g, 90%o	1.683
60.00	GMWCO 5%m, 15%w, 30%g, 50%o	0.842
60.00	GMWCO 15%m, 26%w, 22%g, 37%o	0.842
0.00	GTS	0.000

Total Length: 275.00 ft Total Volume: 3.858 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Pickrell Drig. Co. Inc.

12-30s-8w Kingman,KS

100 S. Main Ste. 505
Wichita, KS 67202-3738

Young 'A' #3

Job Ticket: 59963

DST#: 2

ATTN: Aaron Young

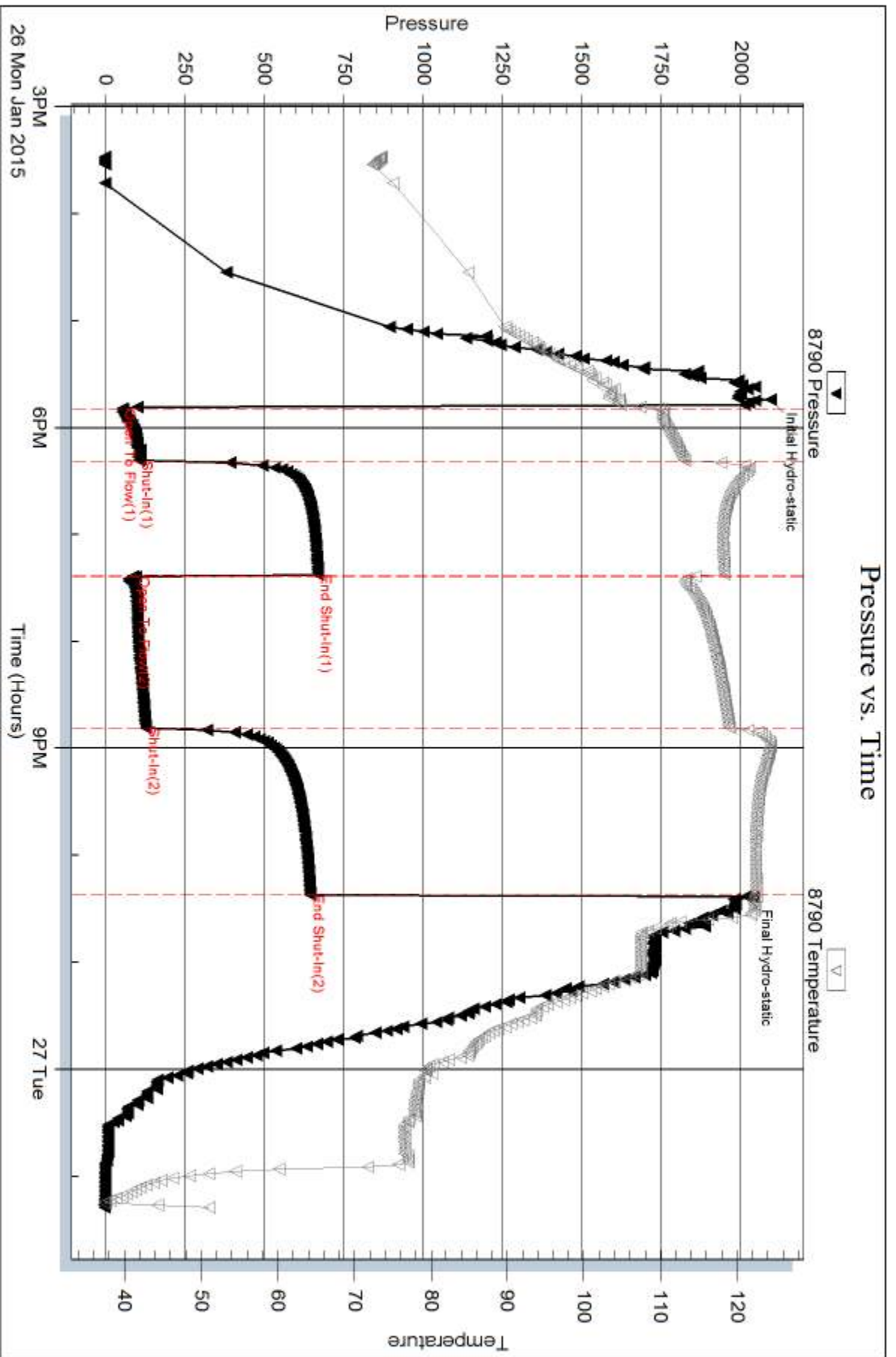
Test Start: 2015.01.26 @ 15:27:59

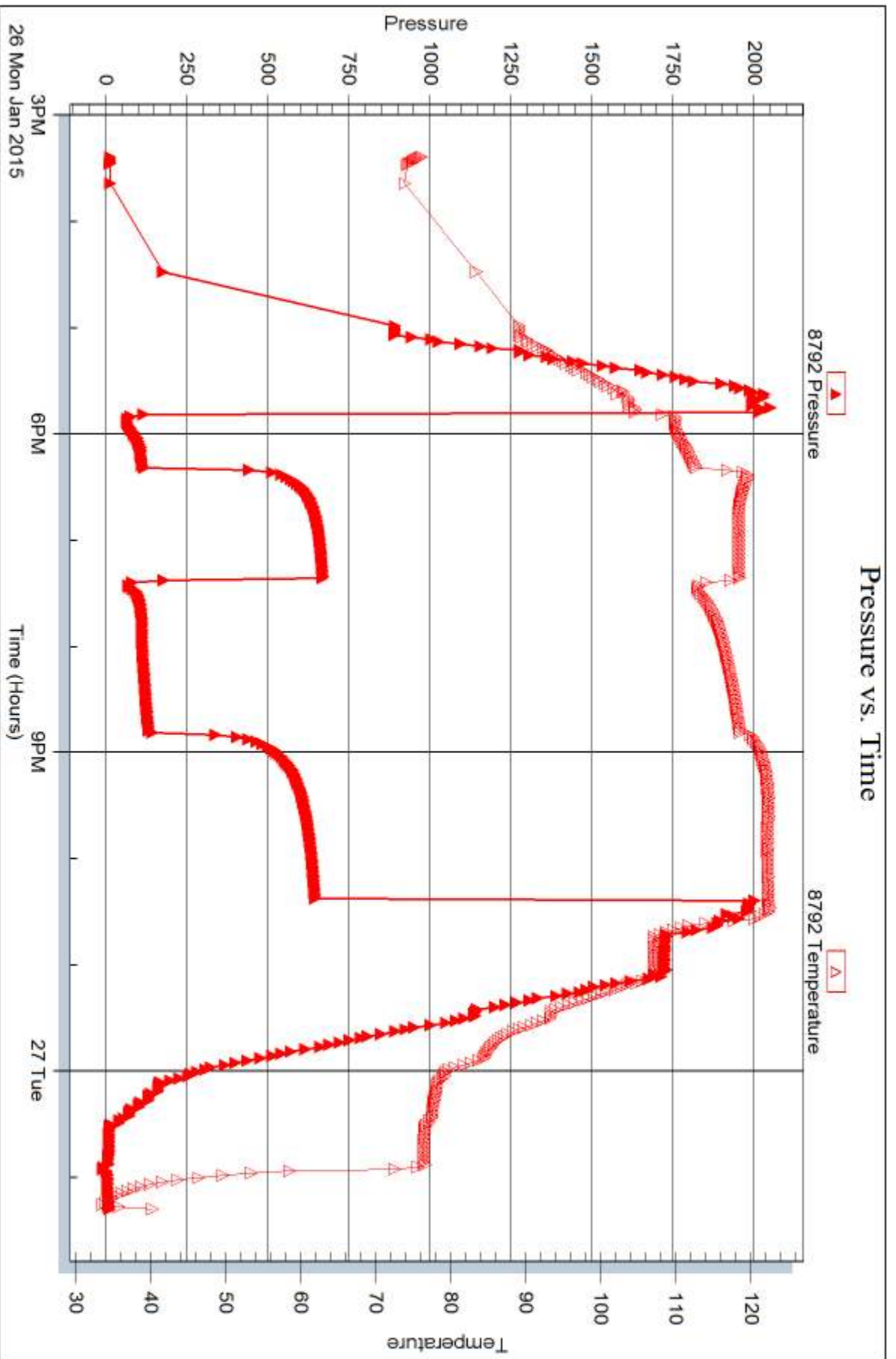
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.25	48.00	98.99
1	30	0.25	49.00	100.58
2	10	0.25	32.00	73.61
2	20	0.25	34.00	76.78
2	30	0.25	39.00	84.71
2	40	0.25	32.00	73.61
2	50	0.25	23.00	59.33
2	60	0.25	21.00	56.16
2	70	0.25	19.00	52.99
2	80	0.25	18.00	51.40
2	90	0.25	17.00	49.81







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59962

Well Name & No. Young 'A' #3 Test No. 1 Date 1-25-15
 Company Pickrell Drilling Co., Inc. Elevation 1481 KB 1471 GL
 Address 100 S. Main Ste. 505 Wichita, KS 67202-3738
 Co. Rep / Geo. Aaron Young Rig Pickrell #1
 Location: Sec. 12 Twp. 30s Rge. 8w Co. Kingman State KS

Interval Tested 4110 - 4125 Zone Tested Miss.
 Anchor Length 15 Drill Pipe Run 4102 Mud Wt. 9.3
 Top Packer Depth 4105 Drill Collars Run Ø Vis 55
 Bottom Packer Depth 4110 Wt. Pipe Run Ø WL 8.8
 Total Depth 4125 Chlorides 4000 ppm System LCM 2#

Blow Description IF: Strong blow. BOB ~~immed.~~ @ 1 min.
ISF: GTS on blow down. No blow back
FF: Strong blow. BOB immed. Gauged gas.
FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>GOWCML</u>	<u>30</u>	<u>5</u>	<u>5</u>	<u>60</u>
<u>60</u>	<u>GOMCW</u>	<u>10</u>	<u>5</u>	<u>75</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 121 Gravity N/C API RW 512 @ 42 °F Chlorides 115000 ppm

(A) Initial Hydrostatic 1997 Test 1150 T-On Location 2245
 (B) First Initial Flow 28 Jars 250 T-Started 2305
 (C) First Final Flow 61 Safety Joint 75 T-Open 0127
 (D) Initial Shut-In 662 Circ Sub _____ T-Pulled 0549
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 0846
 (F) Second Final Flow 106 Mileage 100 100 Comments Rig to be on bank
 (G) Final Shut-In 612 Sampler _____ @ 11:30pm, on bank @ 9pm
 (H) Final Hydrostatic 1987 Straddle _____ No call, on Loc. 10:45pm

Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1825
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1825

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59963

Well Name & No. Young 'A' #3 Test No. 2 Date 1-26-15
 Company Pickrell Drilling Co., Inc. Elevation 1481 KB 1471 GL
 Address 100 S. Main Ste. 505 Wichita, KS 67202-3738
 Co. Rep / Geo. Aaron Young Rig Pickrell 1
 Location: Sec. 12 Twp. 30s Rge. 8w Co. Kingman State KS

Interval Tested 4125-4145 Zone Tested Mississippi
 Anchor Length 20 Drill Pipe Run 4103 Mud Wt. 9.4
 Top Packer Depth 4120 Drill Collars Run Ø Vis 45
 Bottom Packer Depth 4125 Wt. Pipe Run Ø WL 9.6
 Total Depth 4145 Chlorides 8500 ppm System LCM 1#

Blow Description IF: Strong blow. BOB @ 30 sec. GTS @ 19 min
IST: No blow.
FF: Strong blow. BOB immed. Graged gas
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GMWCO</u>	<u>22</u>	<u>37</u>	<u>26</u>	<u>15</u>
<u>60</u>	<u>GMWCO</u>	<u>30</u>	<u>50</u>	<u>15</u>	<u>5</u>
<u>120</u>	<u>Clean Gassy Oil</u>	<u>10</u>	<u>90</u>		
<u>35</u>	<u>Water</u>			<u>100</u>	

Rec Total 275 BHT 122 Gravity 38 API RW .09 @ 53 °F Chlorides 12000 ppm

(A) Initial Hydrostatic 2093 Test 1150 T-On Location 1530
 (B) First Initial Flow 52 Jars 250 T-Started 1528
 (C) First Final Flow 107 Safety Joint 75 T-Open 1749
 (D) Initial Shut-In 668 Circ Sub _____ T-Pulled 2210
 (E) Second Initial Flow 97 Hourly Standby _____ T-Out 0117
 (F) Second Final Flow 127 Mileage 100 100 Comments _____
 (G) Final Shut-In 644 Sampler _____
 (H) Final Hydrostatic 2017 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Extra Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 90 Day Standby _____ Total 1825
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1825

Approved By [Signature] Our Representative Ryan Reynolds
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

