



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1246790
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
-----------------------------------	-----------------	-----------------------------------------

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: _____



1246790

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
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	--------------------------------------------	---------------------------------------------------------------------

Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
-------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

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

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Ruth Russell #2
Company Name	Pauley Oil
Formation	Viola 3624'-3680'
Test Type	Bottom-Hole DST
Surface Location	Sec 13-23s-12w-Stafford Co.-KS
KB Elevation (SL)	1854.000
Gauge Name	Inside 5951
Start Test Date	2014/12/05
Start Test Time	07:25:00
Final Test Date	2014/12/05
Final Test Time	14:32:00
Job Number	F352
Contact	
Site Contact	Steve Peterman

TEST RESULTS

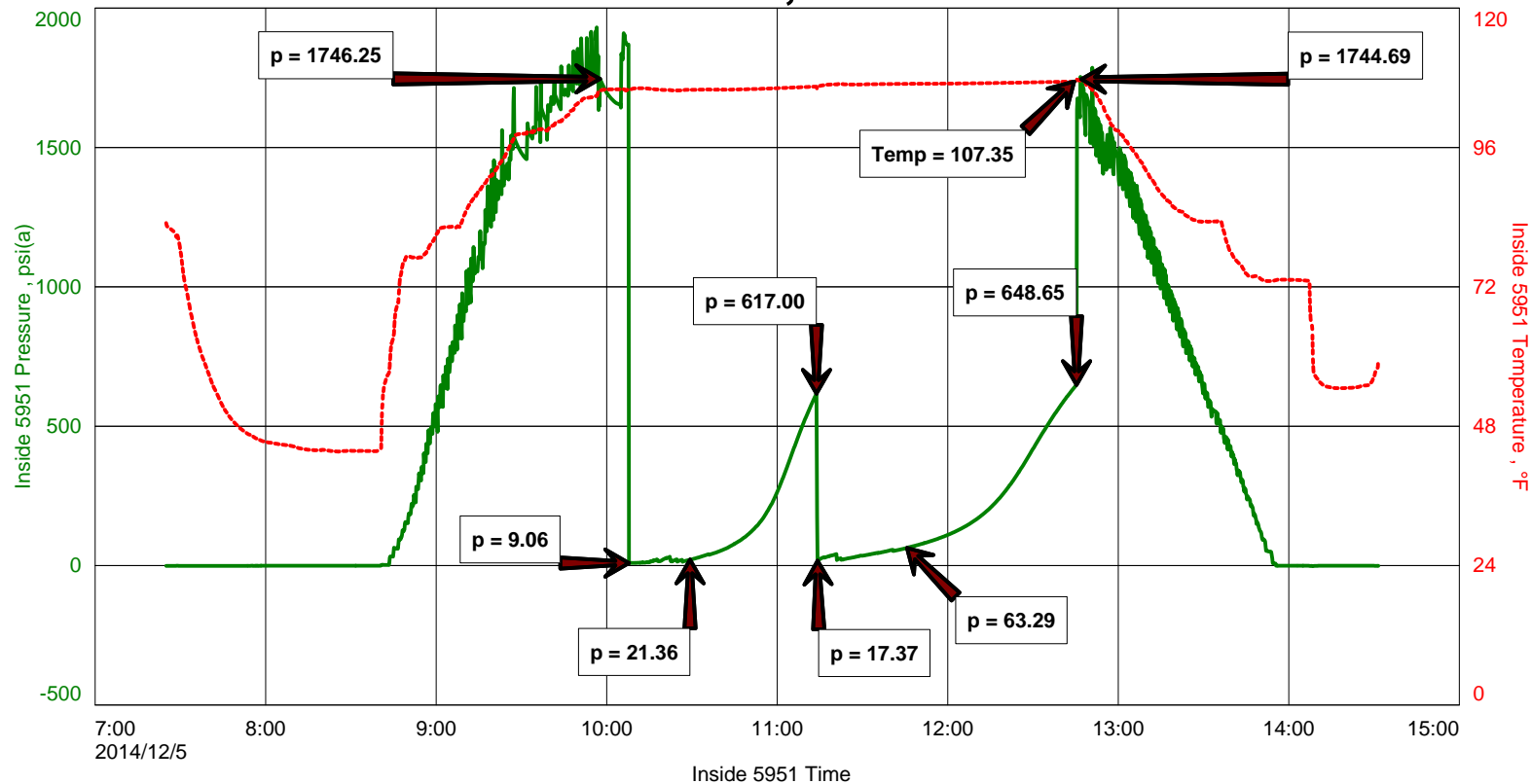
Initial flow, weak blow, increased to .75"
Final flow, weak surface blow, blow died

RECOVERED 20' OF DRILLING MUD

Pauley Oil
Start Test Date: 2014/12/05
Final Test Date: 2014/12/05

Ruth Russell #2
Formation: Viola 3624'-3680'
Job Number: F352

DST #2, Viola





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: RUTH RUSZ DST1

ON LOCATION:	<u>22:45</u>	<u>12-4</u>
START RECORDERS:	<u>07:25</u>	<u>12-5</u>
STOP RECORDERS:	<u>14:32</u>	<u>12-5</u>

Company PAULEY OIL Lease & Well No. RUTH RUSSELL #2
 Contractor MINNESCAN DRUG. LLC Charge to PAULEY OIL
 Elevation 1854' KB Formation VIOLA Effective Pay _____ Ft. Ticket No. F352
 Date 12/5/14 Sec. 13 Twp. 23s Range 12W County STAFFORD State KANSAS
 Test Approved By STEVE PETERMAN Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3624 ft. to 3680 ft. Total Depth 3680 ft.
 Packer Depth 3619 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3624 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3610 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3630 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEMICAL Viscosity 51 Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 8.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4000 P.P.M. Drill Pipe Length 3599 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? Reversed Out Anchor Length 56 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INCREASED TO 3/4"
 2nd Open: WEAK BLOW @ SURFACE. BLOW DIED.

Recovered 20 ft. of DRELLING MUD 100% MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Price Job
Other Charges
<u>92 MRT (PRAT)</u>
<u>15 3/4 HR ON LOG</u>
Total

Time Set Packer(s) 10:10 ^{A.M.}/_{P.M.} Time Started Off Bottom 12:45 ^{A.M.}/_{P.M.} Maximum Temperature 107°F

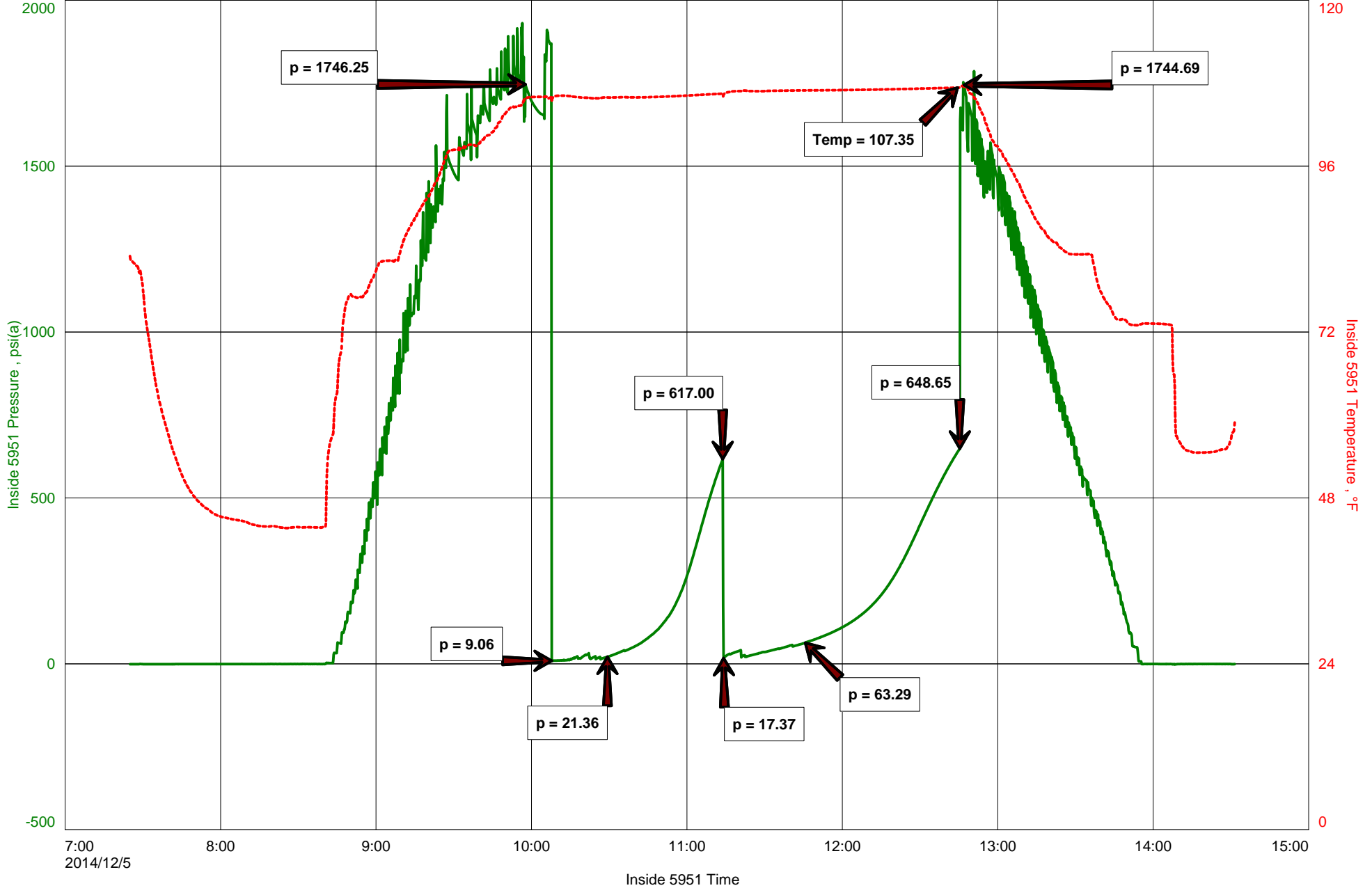
Initial Hydrostatic Pressure _____ (A) 1746 P.S.I.
 Initial Flow Period _____ Minutes 20 (B) 9 P.S.I. to (C) 21 P.S.I.
 Initial Closed In Period _____ Minutes 45 (D) 617 P.S.I.
 Final Flow Period _____ Minutes 30 (E) 17 P.S.I. to (F) 63 P.S.I.
 Final Closed In Period _____ Minutes 60 (G) 649 P.S.I. Thanks!
 Final Hydrostatic Pressure _____ (H) 1745 P.S.I. Jake Fahrenbruch

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result 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.

Pauley Oil
Start Test Date: 2014/12/05
Final Test Date: 2014/12/05

Ruth Russell #2
Formation: Viola 3624'-3680'
Job Number: F352

DST #2, Viola





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RUTHRUS2DST1

TIME ON: 07:25
TIME OFF: 14:32

Company Pauley Oil Lease & Well No. Ruth Russell #2
Contractor Ninnescah Drlg. LLC Charge to Pauley Oil
Elevation 1854' KB Formation Viola Effective Pay _____ Ft. Ticket No. F352
Date 12-5-14 Sec. 13 Twp. 23s S Range 12w W County Stafford State KANSAS
Test Approved By Steve Peterman Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3624 ft. to 3680 ft. Total Depth 3680 ft.
Packer Depth 3619 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3624 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3610 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3630 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3,599 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 56 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 23' PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, inc to .75"
2nd Open: Weak surface blow, blow died.

Recovered 20 ft. of Drilling Mud 100% mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 10:10 AM A.M. P.M. Time Started Off Bottom 12:45 PM A.M. P.M. Maximum Temperature 107 F

Initial Hydrostatic Pressure..... (A) 1746 P.S.I.
Initial Flow Period..... Minutes 20 (B) 9 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 617 P.S.I.
Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 63 P.S.I.
Final Closed In Period..... Minutes 60 (G) 649 P.S.I.
Final Hydrostatic Pressure..... (H) 1745 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Ruth Russell #2
Company Name	Pauley Oil
Formation	Arbuckle 3739'-3748'
Test Type	Bottom-Hole DST
Surface Location	Sec 13-23s-12w-Stafford Co.-KS
KB Elevation (SL)	1854.000
Gauge Name	Inside 5951
Start Test Date	2014/12/05
Start Test Time	22:53:00
Final Test Date	2014/12/06
Final Test Time	06:13:00
Job Number	F353
Contact	Gary Pauley
Site Contact	Steve Petermann

TEST RESULTS

Initial flow, strong blow at B.O.B. in 11.5 minutes. No blowback.
 Final flow, strong blow at B.O.B. in 18 minutes. Blowback at 3".

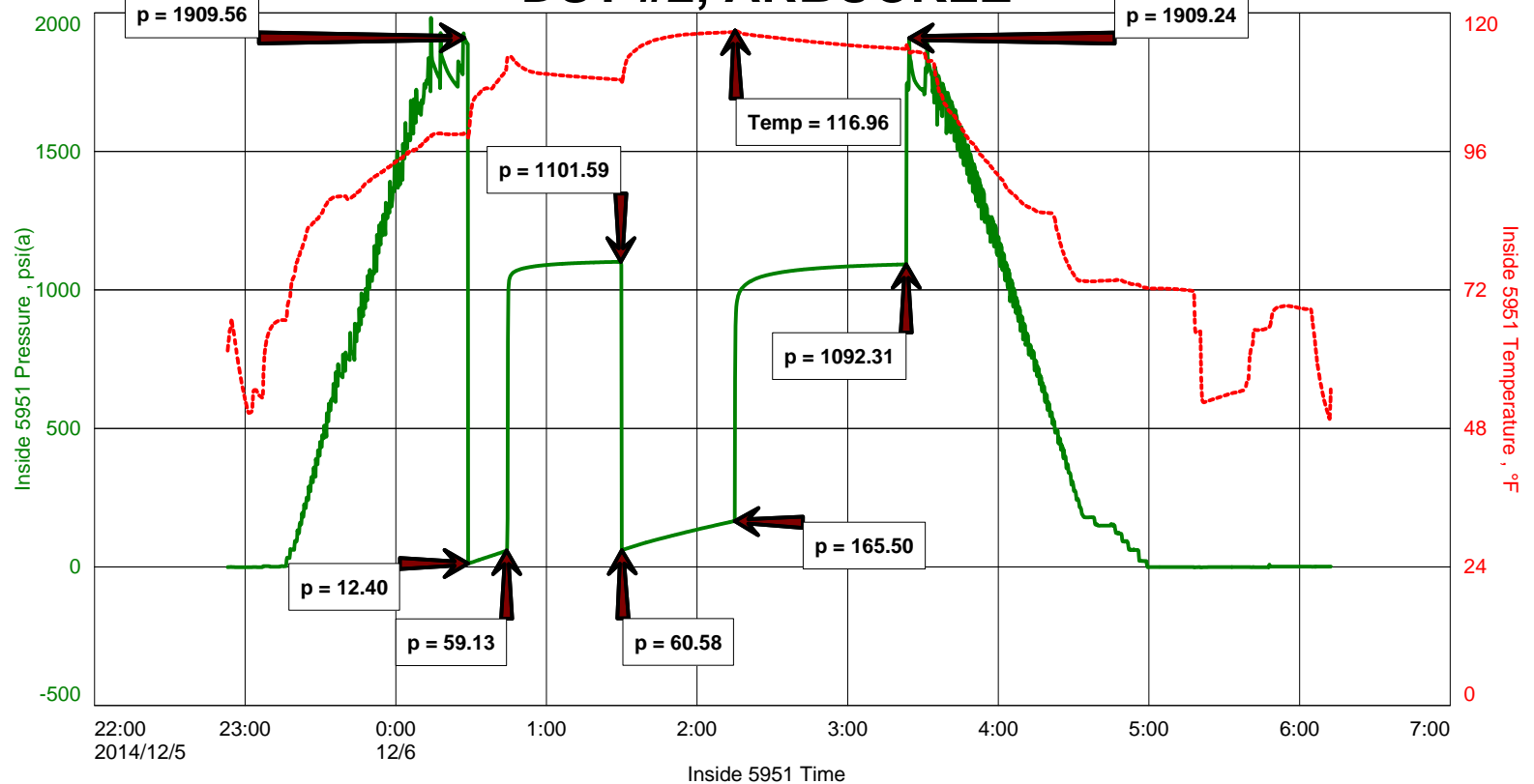
TOTAL RECOVERED FLUID: 370'

- 90' Clean Oil 100% oil
- 285' SOS SMCW 1% oil, 94% wtr, 5% mud
- ~100' Gas In Pipe
- Gravity: 37 @ 60 F ----- RW: .45 ohm @ 46 F ----- Chlorides: 23,000 PPM ----- PH: 8.0

Pauley Oil
 Start Test Date: 2014/12/05
 Final Test Date: 2014/12/06

Ruth Russell #2
 Formation: Arbuckle 3739'-3748'
 Job Number: F353

DST #2, ARBUCKLE





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: RUTH RUS 2 DST 2

ON LOCATION: 22:45
 START RECORDERS: 22:53
 STOP RECORDERS: 06:13

Company PAULEY OIL Lease & Well No. RUTH RUSSELL #2
 Contractor VINNESCAH DRUG LLC Charge to PAULEY OIL
 Elevation 1854' NB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F853
 Date 12-6-14 Sec. 13 Twp. 23 S Range 12 W County STAFFORD State KANSAS
 Test Approved By STEVE PETERMANN Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3739 ft. to 3748 ft. Total Depth 3748 ft.
 Packer Depth 3734 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3739 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3725 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4000 P.P.M. Drill Pipe Length 3714 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 9 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW AT B.O.B. IN 11 1/2 MIN. NBB
 2nd Open: STRONG BLOW AT B.O.B. IN 18 MIN. BB @ 3"

Recovered _____ ft. of TOTAL RECOVERED FLUID: 370'
 Recovered 90 ft. of CLEAN OIL 100" OIL
 Recovered 285 ft. of SOS SMCW 1" OIL, 94" WTR, 5" MUD
 Recovered _____ ft. of ≈ 100' GAS IN PIPE
 Recovered _____ ft. of GRAVITY = 37 @ 60°F
 Recovered _____ ft. of RW: .45 Ω @ 46°F
 Remarks: CHLORIDES: 23,000 PPM
PH: 8.0

	Price Job
	Other Charges
	<u>68 HRT (PRATT)</u>
	Total

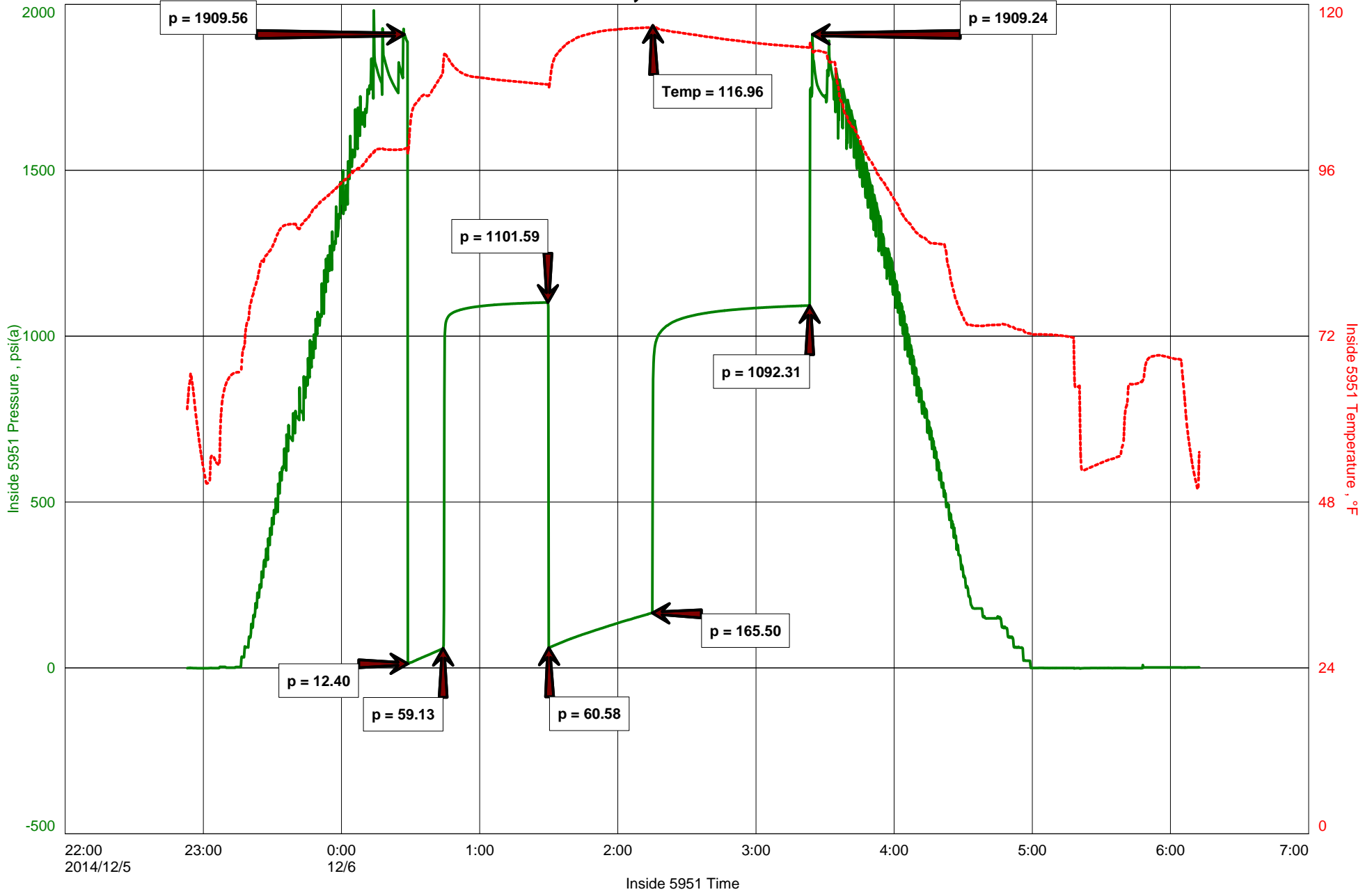
Time Set Packer(s) 12:30 ^{A.M.} P.M. Time Started Off Bottom 3:15 ^{A.M.} P.M. Maximum Temperature 117°F
 Initial Hydrostatic Pressure..... (A) 1910 P.S.I.
 Initial Flow Period..... Minutes 15 (B) 12 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1102 P.S.I.
 Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 166 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1092 P.S.I. Thank You!
 Final Hydrostatic Pressure..... (H) 1909 P.S.I. Jacob & Johnstone

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

Pauley Oil
Start Test Date: 2014/12/05
Final Test Date: 2014/12/06

Ruth Russell #2
Formation: Arbuckle 3739'-3748'
Job Number: F353

DST #2, ARBUCKLE





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RUTHRUS2DST2

TIME ON: 22:53
TIME OFF: 06:13

Company Pauley Oil Lease & Well No. Ruth Russell #2
Contractor Ninnescah Drlg. LLC Charge to Pauley Oil
Elevation 1854' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F353
Date 12-6-14 Sec. 13 Twp. 23s S Range 12w W County Stafford State KANSAS
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3739 ft. to 3748 ft. Total Depth 3748 ft.
Packer Depth 3734 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3739 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3725 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 46 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3,714 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 9 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow at B.O.B. in 11.5 minutes. No blowback.
2nd Open: Strong blow at B.O.B. in 18 minutes. Blowback @ 3".

Recovered _____ ft. of TOTAL RECOVERED FLUID: 370'
Recovered 90 ft. of Clean Oil 100% oil
Recovered 285 ft. of SOS SMCW 1% oil, 94% wtr, 5% mud

Recovered _____ ft. of <u>~100' Gas In Pipe</u>	
Recovered _____ ft. of <u>Gravity: 37 @ 60 F</u>	Price Job
Recovered _____ ft. of <u>RW: .45 ohm @ 46 F</u>	Other Charges
Remarks: <u>Chlorides: 23,000 PPM</u>	Insurance
<u>PH: 8.0</u>	Total

Time Set Packer(s) 12:30 AM A.M. P.M. Time Started Off Bottom 3:15 AM A.M. P.M. Maximum Temperature 117 F

Initial Hydrostatic Pressure..... (A) 1910 P.S.I.
Initial Flow Period..... Minutes 15 (B) 12 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1102 P.S.I.
Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 166 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1092 P.S.I.
Final Hydrostatic Pressure..... (H) 1909 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Ruth Russell #2
Well Id: 15-185-23915-0000
Location: W2-SE-SW-SE (330' FSL 1800'FEL) 13-23S-12W
License Number: _____ Region: _____
Spud Date: _____ Drilling Completed: _____
Surface Coordinates: _____

Bottom Hole
Coordinates: _____
Ground Elevation (ft): 1841 K.B. Elevation (ft): 1854
Logged Interval (ft): 2700 To: 3900 Total Depth (ft): 3900
Formation: _____
Type of Drilling Fluid: Chem Mud

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

OPERATOR

Company: Pauley Oil
Address: _____

GEOLOGIST

Name: Steven Petermann
Company: Consulting Petroleum Geologist
Address: 3206 NorthWestern Avenue
Hutchinson, Ks 67502

Formation Tops

Log Datums:

Heebner	3176 (-1322)
Douglas Shale	3209 (-1355)
Brown LST	3318 (-1464)
Lansing	3344 (-1490)
Lansing F	3415 (-1561)
BKC	3595 (-1741)
Viola	3616 (-1762)
Simpson	3674 (-1820)
Arbuckle	3733 (-1879)

DSTs

DST depths shown are correlated to RIG DEPTH and were NOT adjusted to log depths.

DST#1 Viola 3624'-3680' (20-45-30-60) IF:WB incr to 3/4" No BB FF: WSB died No BB IFP: 9-21psi FFP: 17-63psi ISIP 617#/FSIP 649# Recover 20'Mud


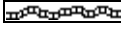
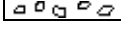
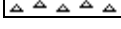
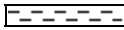



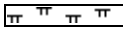

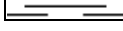
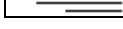
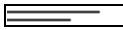

DST#2 Arbuckle 3739'-3748' (15-45-45-60) IF: Strong Blow BOB 11.5 min 12-59psi/FF Strong Blow BOB 18 min 61-166psi ISIP 1102#/FSIP 1092#/Recover 90'Oil and 285' SOSMCW (1%Oil 5%Mud 94%Wtr)

Comments
























































Good shows of oil and/or gas were observed in the Lansing/KC, Viola, and Arbuckle as noted below. The Operator elected to test the L/KC zones behind pipe in lieu of drill stem testing. DSTs were performed on the Viola and Arbuckle and Production casing was set and cemented to further evaluate these zones. In addition to the Operator's planned Arbuckle completion it is recommended that the Following Zones be considered for perforating and stimulation as warranted prior to Abandonment:

Viola 3646-3672 (will require a frac stimulation)
 L/KC "K Zone" 3543-3546
 L/KC "J Zone" 3509-3511 and 3515-3518 and 3520-3524
 L/KC "I Zone" 3495-3497
 L/KC "F Zone" 3417-3421





























ROCK TYPES

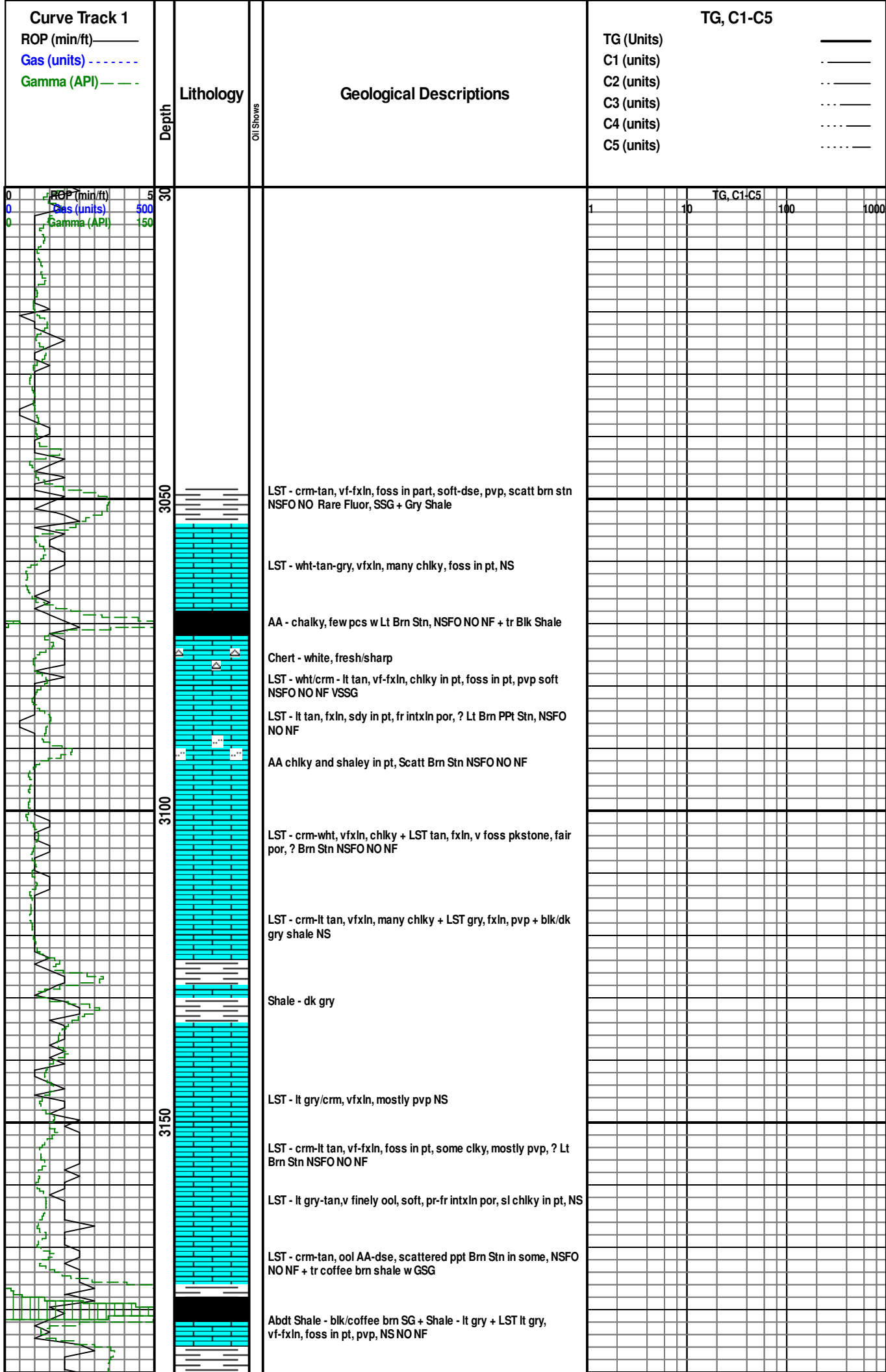
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

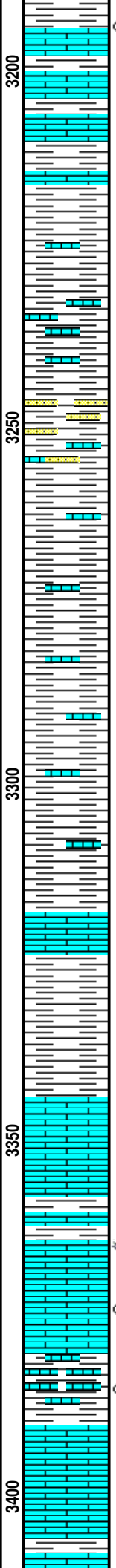
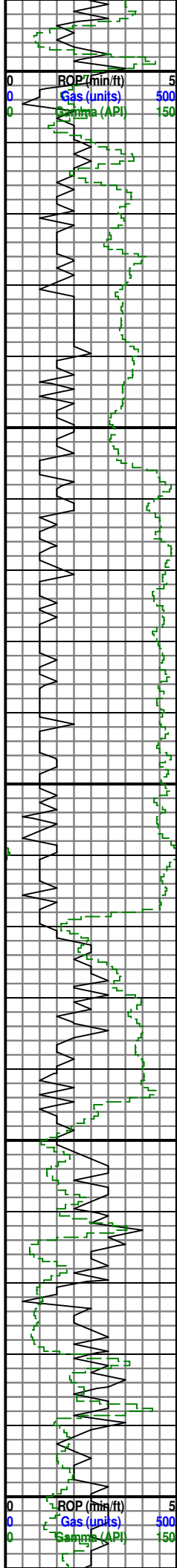
ACCESSORIES

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  Moldic  Organic  Pinpoint	 Vuggy SORTING  Well  Moderate  Poor	ROUNDING  Rounded  Subrnd  Subang  Angular OIL SHOW  Even	 Spotted  Ques  Dead  Ssg  Ssfo&g  Sg  Sg ssfo  O&g	INTERVAL  Core  Dst EVENT  Rft  Sidewall
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------





Very Shaley - gry/grm (dirty sample) + LST - crm-tan, flxn, foss, soft, p-fr por TR V HI GRAV +TR Gas

Shaley AA + LST - crm, vfxln, chky + LST tan, vf-fxln, few fossils, pvp-dse, NS

AA + Red Shale

Shale red/gry/mar, sl silty in pt + LST tan, vfxln, dse-pvp, few w fr por, NS

Shale AA + LST tan, pvp NS

AA

Shale - gry, sl silty + Tr SST vfgr, sub rd, well srt, well cmt pvp, NS

Mostly Shale & silty shale AA, few tan LST, pvp-dse NS

AA

AA

Shale Gry & Silty Shale, few LST, crm, fxln, sl foss, pvp-dse NS

AA

AA

AA + LST - dk tan/crm mottled, fxln, foss, pvp-dse NS

Shale - red/gry + few LST AA

AA

Shale Gry + LST crm, lt gry/gry mottled, few tan, v foss, fxln dse NS

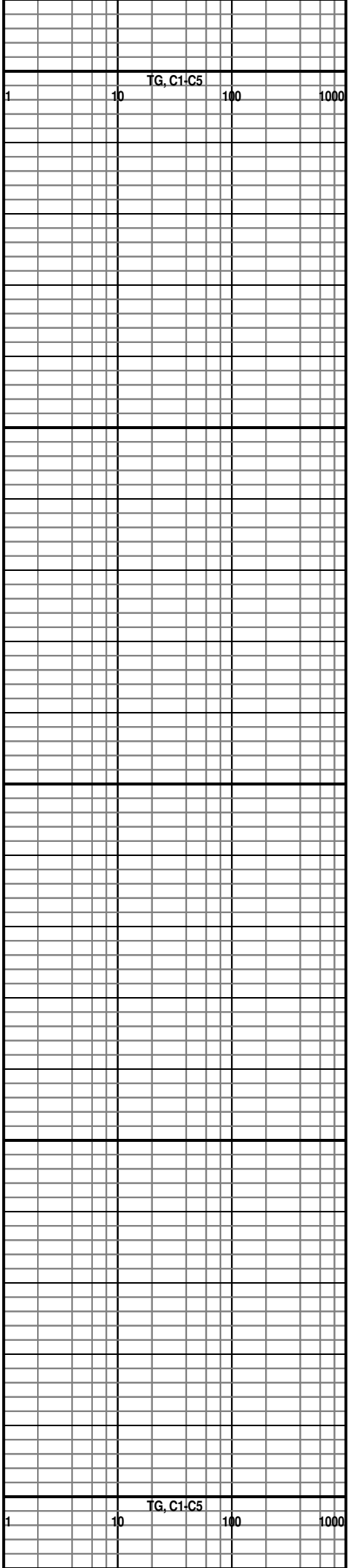
LST - crm-lt tan-lt gry, f-mxln, foss pkstone, pvp, SL ODOR, SCATTERED BRN STN, NSFO NF SSG

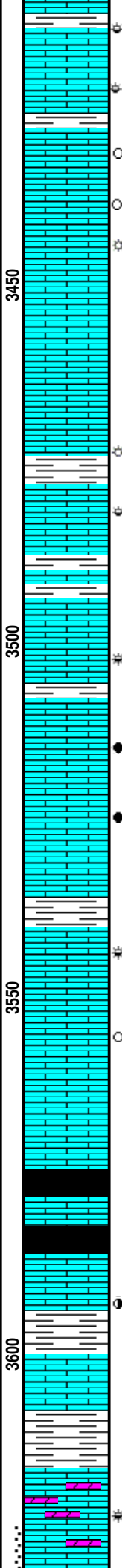
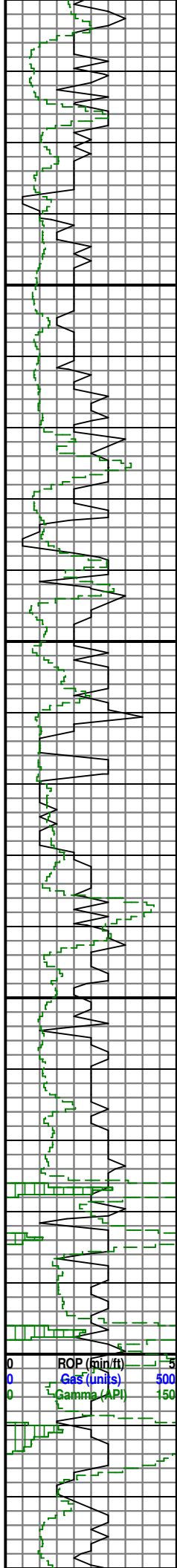
LST - crm-gry-tan, vfxln, foss in pt, mostly dse, few w pr-fr intxn por BRN SPTY SCATT STN, FAINT ODOR NSFO NF (Rig Made Time correction, break Questionable)

LST - crm-tan, vf-fxln, foss, mostly pvp, few w fr intxn por, Some BRN STN, VSSFO, FT ODR

LST - crm-tan-gry mottled, foss, fxln, sft-hrd, mostly pvp FT ODR NSFO

LST - crm-lt gry, occasional BRN STN, vf-fxln, few foss, mostly pvp, FT ODR, NSFO SI Shaley





LST - lt tan-brn stn'd, fxln, foss in part, mostly pvp, FT ODR, SSFO&G

LST - crm-gry, vf-fxln, pr-fr intxln por, FR BRN STN, SSFO, SG, FR ODOR

LST - tan-gry, vf-fxln, foss in pt wkstone-pkstone, many pvp, few sdy w fr intxln por, PoorSFO, SI STN, SSG, V FT ODR

LST - wht, chlky, few tan w/good oom por, mostly barren, TR DK GILSONITIC STN

LST - crm-wht, vfxln, sl chlky, pvp, FSG, some SCATT GILSONITIC STN

LST - lt tan, fxln, sl foss, hard/dse, pvp NS

AA - sl cherty

LST - crm-lt tan, vf-fxln, sl chlky - fr intxln por, GOLDEN STN - DK GILSONITIC STN, SSG, NSFO, V FT ODR, NF

LST - crm-lt tan, good oom por, rechrysalized, fr-gd intxln por, LT GOLDEN STN, SSG, TRFO, dull milky cut w acid, V FT ODR

LST - crm, vfxln, some fr-gd oom por, SFO (v high grav) LT STN, & SSG, dull - bright yellow fluor cut, FT ODR

LST - crm, vfxln, pvp, SCATTERED BRN STN, SSFO + LST crm, f-mxln, foss, pkstone-grain stone, fr-gd int-foss STN & SL-FSFO, SSG

LST - crm, f-mxln, foss AA, increase % SHOW, oom has duller cut, foss/ool SFO & Med Fl Cut

LST - crm-lt tan, foss-oom, vf-fxln, fr-good oom por, SFO (brn) FAIR ODOR & FLUOR + LST wht, fxln, foss, fair intxln por, GOOD DK STN/SAT, SFO

AA + LST, tan, microxln, dse

LST - wht/crm, vfxln, chlky, FSG, GOLDEN STN + LST AA foss/oom p-fr por, SSFO FAIR ODR, BYF CUT

LST - crm, chlky AA + LST crm/wht, vf-fxln, ool in part, pvp, BRN STN, SSFO (cavings??) + LST tan microxln, dse FT -FR ODR

LST - crm/tan, vf-fxln, foss in pt, pvp-dse + Shale Lt gry

AA

Shale - blk-gry-lt brn+ LST AA

LST - gry-tan, mottled, foss, f-mxln, mostly pvp, SSFO & ODR (looks very tite)

Shale gry-few grn, + LST lt gry-lt tan, fxln-cryptoxln, v fossiliferous, pvp/dse

Shale + LST AA

Shale gry + LST & doloLST, vfxln, many microxln, dse, few vfxln with fr por SSFO & FSG, FT ODR

OPERATOR WANTS TO TEST BEHIND PIPE

OPERATOR WANTS TO TEST BEHIND PIPE

OPERATOR WANTS TO TEST BEHIND PIPE

OPERATOR WANTS TO TEST BEHIND PIPE

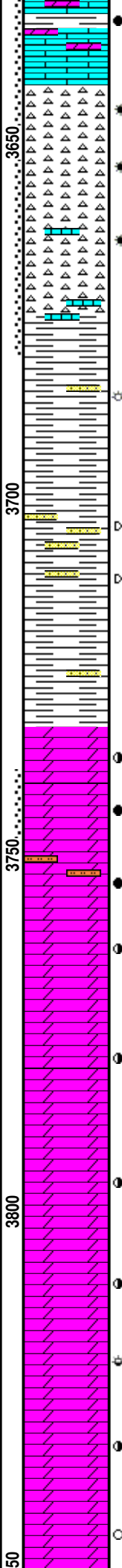
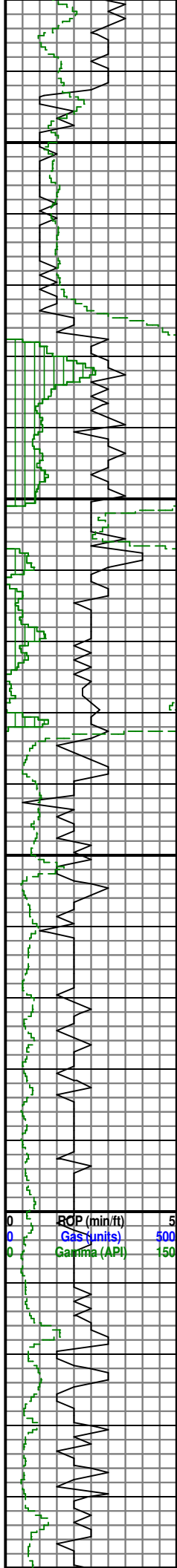
OPERATOR WANTS TO TEST BEHIND PIPE

OPERATOR WANTS TO TEST BEHIND PIPE

TG, C1-C5

1 10 100 1000

ROP (min/ft) 5
Gas (units) 500
Gamma (API) 150



LST - lt gry, fxln, foss in pt, few dolo LST, lt tan, vfxln, LT BRN STN/SAT, SFO

Chert - STN'd BRN/SAT, hard, some vuggy por, BLEEDING O&G, very weathered (granular) - sharp/hard

Chert - bone wht, fresh sharp-v weathered w DK BRN STN/SAT, BLEEDING O&G

Chert AA Bleeding O&G + LST wht, vfxln, p-fr vis por, SFO

Mudstone - off white to Shale -ft green, + LST crm, vfxln, pvp w BRN STN in frac

Shale gm/gry, + Tr SSt, gry vfgr, wr, w srt, SSG

Mostly gm/gry shale, few maroon + few LST crm, vfxln, partly Sdy, pvp NS + Chert AA yellow, fluor, DK STN/SAT (cavings??)

Shale AA + SSt, clr-salmon colored, vfgr, w rd, fr srt, well cmt, pvp, GILSONITIC STN/Dead Oil

VC Shale + SSt AA including Dead STN, pvp

VC Shale (blue, apple green, gry, red, yellow, purple) + Tr Stn'd SSt AA

Dolo - crm, vfxln, many dse, pvp, sl cherty (ool) FT-FR ODR, MED FLUOR, S-FSFO on break

Dolo - crm-lt rose, fxln, sucrosic in pt, w fr intxln por, SFO (high grav) FR ODR

Abdt Cavings - VC Shale & Dolo, gd oom por, FSFO, FT ODR

Dolo - wht-golden tan, f-mxln, fr intxln por, some fair vuggy por, SCATTERED STN AND SSFO, SOME DEAD MOSTLY LIVE, FT-FR ODR + Gry Shale

Dolo - wht, Gold Stn, fxln, dse- sucrosic w fr-gd intxln por, some oom/vuggy por, DEAD-LIVE OIL (some gassy)

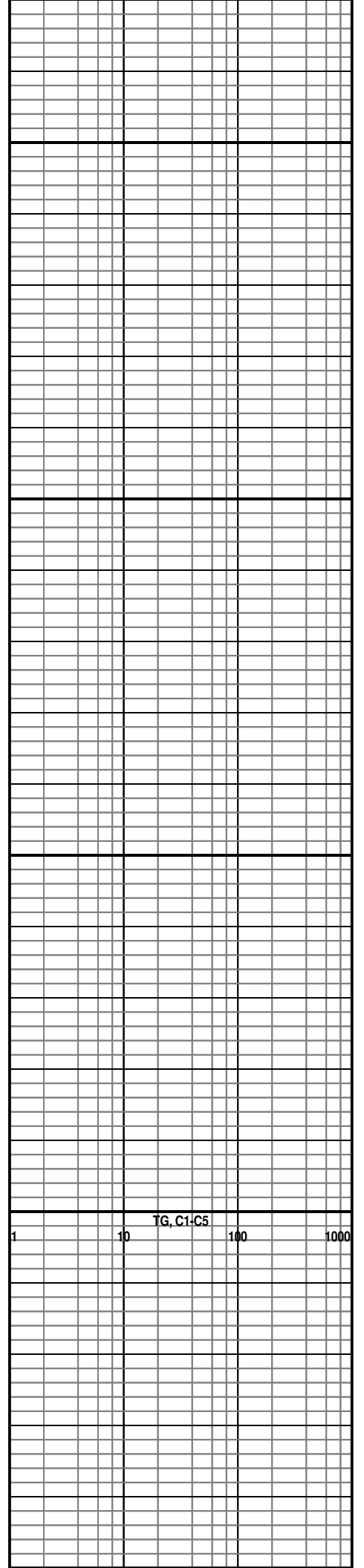
Dolo AA - incr white/less stn, POOR SHOW, V FT ODR + Dolo Mxln, wht-lt gold stn, fr intxln por, S-FSFO

AA - dse-fr por, S-FSFO

Dolo - wht-lt tan, dse-fr/gd sucrosic por, V FT ODR, PR STN & SFO, few w SG

Dolo - golden tan, f-mxln, sucrosic, fr-gd por, SSFO (clr fluorescent) FT ODR

Dolo - mostly lt golden tan, dse-fxln sucrosic w fr por, tr vuggy por, Poor SFO, FT ODR, Dull Fluor

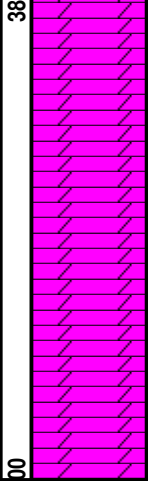
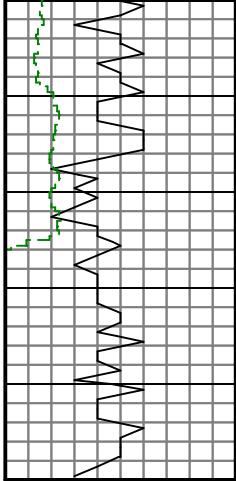


ROP (min/ft) 5
 Gas (units) 500
 Gamma (API) 150

3650
 3700
 3750
 3800
 50

TG, C1-C5

1 10 100 1000



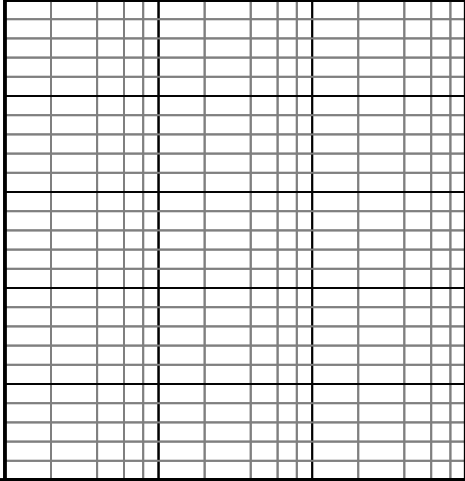
○ Dolo - wht, vfxln, good intxln por, friable, NS + Dolo crm/tan, dse-sucrosic SSFO (clr fluor) NO

○ Dolo - wht-lt tan/golden, vf-fxln, dse to sucrosic w fr intxln por, NO, DULL FLUOR, SSFO (v high grav/clear/yellow fluor)

Dolo - tan, fxln mostly pvp, sl cherty, + chert white, opaque, fresh/sharp, V FT ODR

Dolo -off white-tan, vfxln, sucrosic in pt, mostly pvp, sl cherty, + Green pyritic shale

AA + chert, wht boney, fresh NS



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. 1101

Date	12-7-14	Sec.	13	Twp.	23	Range	12	County	Stafford	State	Ks	On Location		Finish	12:30 PM
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	----------

Location Ike + Joe's - 85, 1/2 E, N Hinto

Lease Ruth Russell Well No. 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.

Contractor Ninnescah # 101

Type Job Production

Hole Size 7 7/8" T.D. 3900'

Csg. 5 1/2" New 15.50' Depth 3895'

Tbg. Size _____ Depth _____

Tool _____ Depth _____

Cement Left in Csg. 18' Shoe Joint 18'

Meas Line _____ Displace 92 1/4 BLS

Charge To Pawley oil

Street _____ State _____

City _____ State _____

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 175 Common 10% Salt

5% Gilsomite - 500 gal mud Clear 48

Common 175

Poz. Mix _____

Gel. _____

Calcium _____

Hulls _____

Salt 16

Flowseal _____

Kol-Seal 875#

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38 _____

Sand _____

Handling 198

Mileage _____

EQUIPMENT			
Pumptrk	20	No. Cementer Helper	<u>Nick</u>
Bulktrk	15	No. Driver	<u>Tyson</u>
Bulktrk	<u>PK</u>	No. Driver	<u>Rick</u>

JOB SERVICES & REMARKS

Remarks: _____

Rat Hole _____

Mouse Hole _____

Centralizers 2-13

Baskets pipe on bottom, break

D/V or Port Collar Circulation pump 500 gal

mud Clear 48, plug Rothob w/ 30 SX

plug manhole w/ 20 SX Hook to

5 1/2" Casing + mix 125 SX

Cement shut down Release plug

washed pump + lines

Release plug + Displaced

w/ 92 1/4 BLS. Released + held

Lift pressure 700#

Land plug to 1500#

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer 12 turbos

Baskets _____

AFU Inserts _____

Float Shoe 1

Latch Down 1

Pumptrk Charge prod string

Mileage 33

Signature [Handwritten Signature]

Tax _____
Discount _____
Total Charge _____

957

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. 887

Date	11-25-14	Sec.	13	Twp.	23	Range	12	County	Stafford	State	Ks	On Location		Finish	1:30 AM
Lease								Location		IKE + Jo's - 85 to 60rd, 3/4 E, N into					

Lease	Ruth Russell	Well No.	#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.
Contractor	Ninnescah	#	107	Charge To	Pauley oil
Type Job	Surface	Hole Size	T.D. 353'	Street	
Csg.		Depth	351'	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20'	Shoe Joint	20'	Cement Amount Ordered	375 Common 3% CC 2% Gel
Meas Line		Displace	21 BLS	1/2# Flowseal	used 325

EQUIPMENT

Pumptrk	16	No.	Cementer Helper	Billy	Poz. Mix
Bulktrk	19	No.	Driver	Taylor	Gel.
Bulktrk	p.u.	No.	Driver	Rick	Calcium

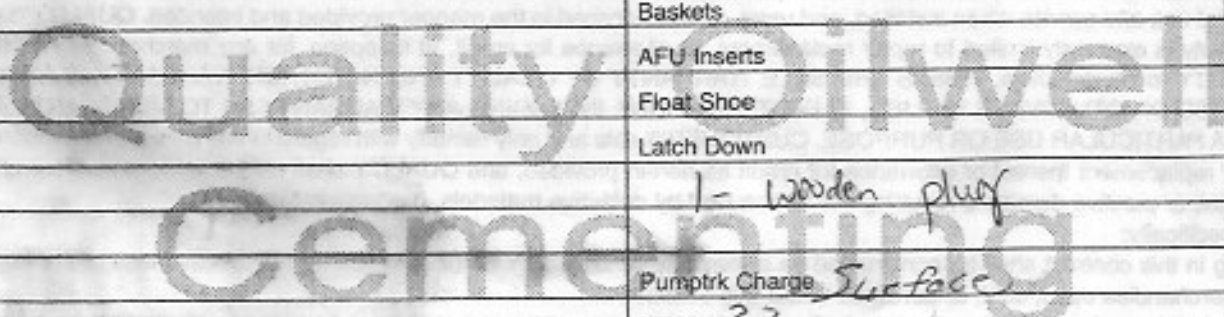
JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	187#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	375
		Mileage	

used 325 5x
Common 3% CC
2% Gel 1/2# Flowseal

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1- wooden plug
Pumptrk Charge	Surface
Mileage	33



X Signature	Richard A. Barry	Tax	
		Discount	
		Total Charge	