

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

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. 183

Date	6-9-17	Sec.	16	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	11:00 PM
------	--------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	----------

Location 281 + K-19 - 7W to 60 Rd, 15, W/S

Lease	ILS	Well No.	1	Owner	
-------	-----	----------	---	-------	--

Contractor	Southwind #3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
------------	--------------	-------	--

Type Job	Surface	Charge To	RJM Company
----------	---------	-----------	-------------

Hole Size	12 1/4"	T.D.	305'
-----------	---------	------	------

Csg.	8 5/8"	Depth	305'
------	--------	-------	------

Tbg. Size		Depth	
-----------	--	-------	--

Tool		Depth	
------	--	-------	--

Cement Left in Csg.	20'	Shoe Joint	20'	Cement Amount Ordered	250 60/40 4% CC 2% Gel
---------------------	-----	------------	-----	-----------------------	------------------------

Meas Line		Displace	18 1/4 BCS	1/2 # Flo-seal
-----------	--	----------	------------	----------------

EQUIPMENT

Pumptrk	16	No.		Cementer		Common	150
---------	----	-----	--	----------	--	--------	-----

Bulktrk	15	No.		Helper	Travis	Poz. Mix	100
---------	----	-----	--	--------	--------	----------	-----

Bulktrk	PIU	No.		Driver	Dancy	Gel.	5
---------	-----	-----	--	--------	-------	------	---

Bulktrk		No.		Driver	Rick	Calcium	11
---------	--	-----	--	--------	------	---------	----

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	Hulls	
----------	----------------------	-------	--

Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	125#
------------	--	----------	------

Centralizers		Kol-Seal	
--------------	--	----------	--

Baskets		Mud CLR 48	
---------	--	------------	--

D/V or Port Collar		CFL-117 or CD110 CAF 38	
--------------------	--	-------------------------	--

Handling	266	Sand	
----------	-----	------	--

Mileage			
---------	--	--	--

FLOAT EQUIPMENT

Guide Shoe			
------------	--	--	--

Centralizer			
-------------	--	--	--

Baskets			
---------	--	--	--

AFU Inserts			
-------------	--	--	--

Float Shoe			
------------	--	--	--

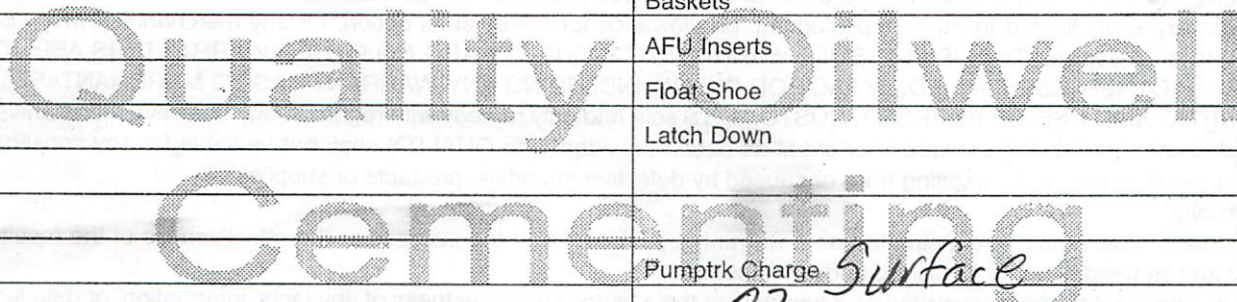
Latch Down			
------------	--	--	--

Pumptrk Charge	Surface		
----------------	---------	--	--

Mileage	23		
---------	----	--	--

Signature	Jay Brown	Tax	
-----------	-----------	-----	--

Discount
Total Charge



DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for, and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

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. 1566

Date	Sec.	Twp.	Rahge	County	State	On Location	Finish
10-16-17	16	22	14	Stafford	KS		7:00 AM

Location 281K-19 7w 60rd 1s winter

Lease I.L.S Well No. 1 Owner _____

Contractor Southwind #3 To Quality Oilwell Cementing, Inc.
Type Job Production String You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 778 T.D. 3920 Charge To R.J.M.

Csg. 5 1/2 15.50# Depth 3863 Street _____

Tbg. Size _____ Depth _____ City _____ State _____

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

Cement Left in Csg. 10.24 Shoe Joint 10.24 Cement Amount Ordered 180 com 10% Salt

Meas Line _____ Displace 9 1/2 Bbl 5% Gilsomite 500 gal mud flush

EQUIPMENT Common 180

Pumptrk 16 No. _____ Cementer Coig Poz. Mix _____

Bulktrk _____ No. _____ Driver Travis Gel. _____

Bulktrk 14 No. _____ Driver Doug Calcium _____

JOB SERVICES & REMARKS Hulls _____

Remarks: _____ Salt 15

Rat Hole 305K Flowseal _____

Mouse Hole _____ Kol-Seal 800#

Centralizers _____ Mud CLR 48 500 gal

Baskets _____ CFL-117 or CD110 CAF 38

D/V or Port Collar _____ Sand _____

5 1/2 on bottom full hole 3852.76 Handling 203

Est. Circulation Pump 500 gal mud clear Mileage _____

Plug bath **FLOAT EQUIPMENT**

Cement 5 1/2 with 1505K Guide Shoe _____

Clear lines & Displace Plug Centralizer 9

6 ft Pressure 9m# Baskets 2

Plug landside 1500# AFU Inserts _____

Release Pressure 2m# Float Shoe 1

Latch Down 1

Pumptrk Charge prod string

Mileage 230

Tax _____

Discount _____

Signature Jay Lewis Total Charge _____

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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

DIAMOND TESTING



TEST INFORMATION

Well Name	ILS #1
Company Name	RJM Company
Formation	DST #1, Lansing "H,I,J" 3584'-3644'
Test Type	Bottom-Hole w/no extra equip
Surface Location	Sec 16-22s-14w-Stafford Co.-KS
KB Elevation (SL)	1949.000
Gauge Name	5951
Start Test Date	2017/06/14
Start Test Time	02:06:00
Final Test Date	2017/06/14
Final Test Time	08:42:00
Job Number	F483
Contact	Chris Campbell
Site Contact	Jim Musgrove

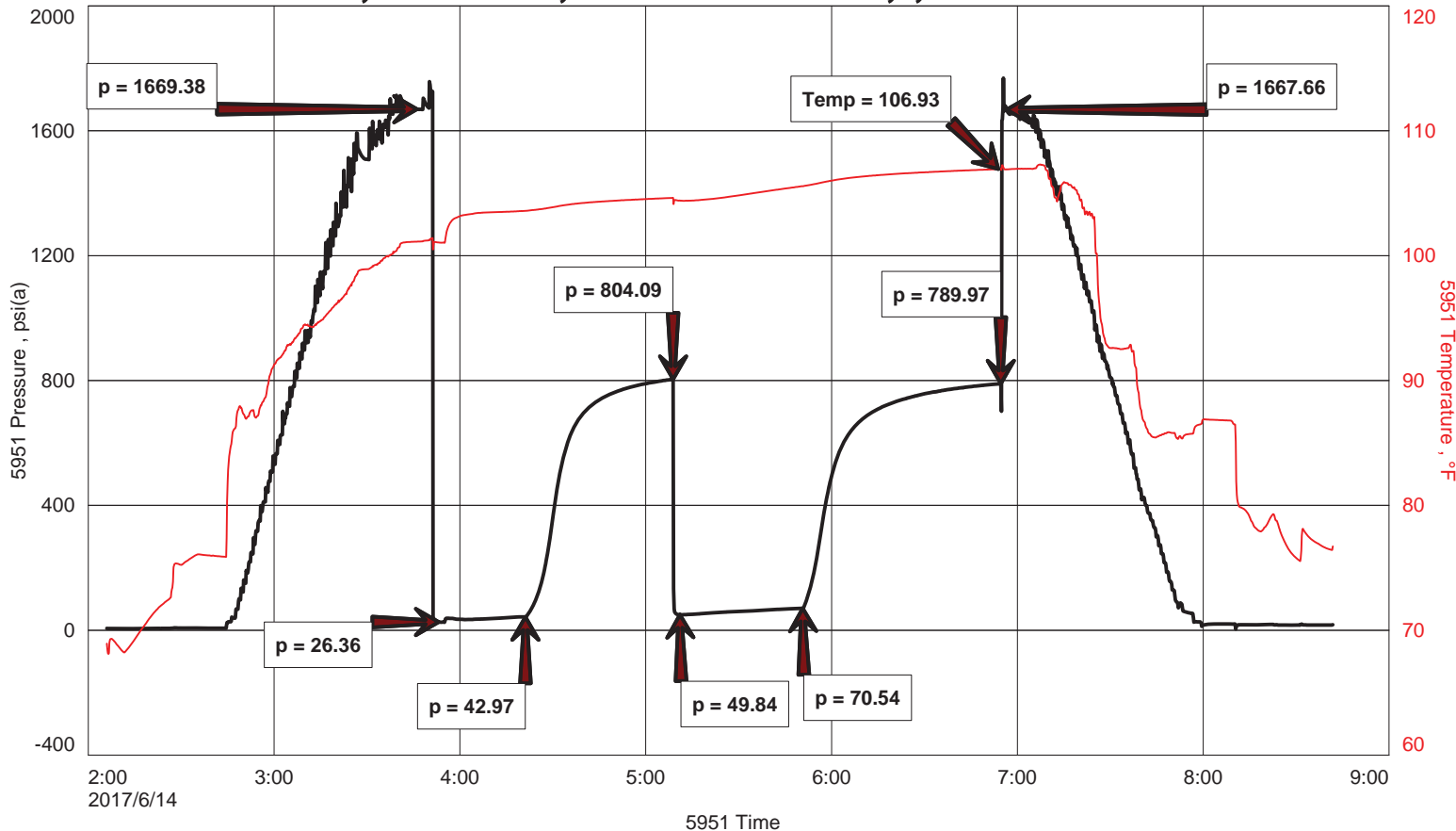
TEST RESULTS

Initial flow, blow increased to BOB in 7.5 min. Blowback @ .25", died.
 Final flow, blow increased to BOB in 2.5 min. Blowback @ 5".

TOTAL RECOVERED FLUID: 145'

- 25' OM 35% oil, 65% mud
- 60' HGCMO 40% gas, 35% oil, 25% mud
- 60' HGCWOM 30% gas, 18% oil, 17% wtr, 35% mud
- 1,070' of Gas In Pipe
- Chlorides: 38,000 PPM ----- RW: .19 ohm @ 70 F ----- PH: 7.0

ILS #1, DST #1, LANSING "H,I,J" 3584'-3644'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: ILS1DST1

ON LOCATION:	<u>23:30</u>
START RECORDERS:	<u>02:06</u>
STOP RECORDERS:	<u>08:42</u>

Company RJM COMPANY Lease & Well No. ILS #1
 Contractor SOUTHWIND DRIL CO. RIG #3 Charge to RJM CO.
 Elevation 1949' KB Formation LANING "H,FJ" Effective Pay _____ Ft. Ticket No. F483
 Date 6-14-17 Sec. 16 Twp. 22S Range 14W County STAFFORD State KS
 Test Approved By JEM MDSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3584 ft. to 3644 ft. Total Depth 3644 ft.
 Packer Depth 3579 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3584 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3586 ft. Recorder Number 5951 Cap. 6000 P.S.I.
 Bottom Recorder Depth (Outside) 3589 ft. Recorder Number 5586 Cap. 6000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEMICAL Viscosity 54 (1#20M) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. 3000 Drill Pipe Length 3564 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 60 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: BLOW INCREASED TO BOB IN 7 1/2 MIN. 1/4" BB DIED
 2nd Open: BLOW INCREASED TO BOB IN 2 1/2 MIN. BB @ 5"

Recovered 25 ft. of OM 35% oil, 65% mud
 Recovered 60 ft. of HGC MO 40% gas, 35% oil, 25% mud
 Recovered 60 ft. of HGC WOM 30% gas, 18% oil, 17% wtr, 35% mud

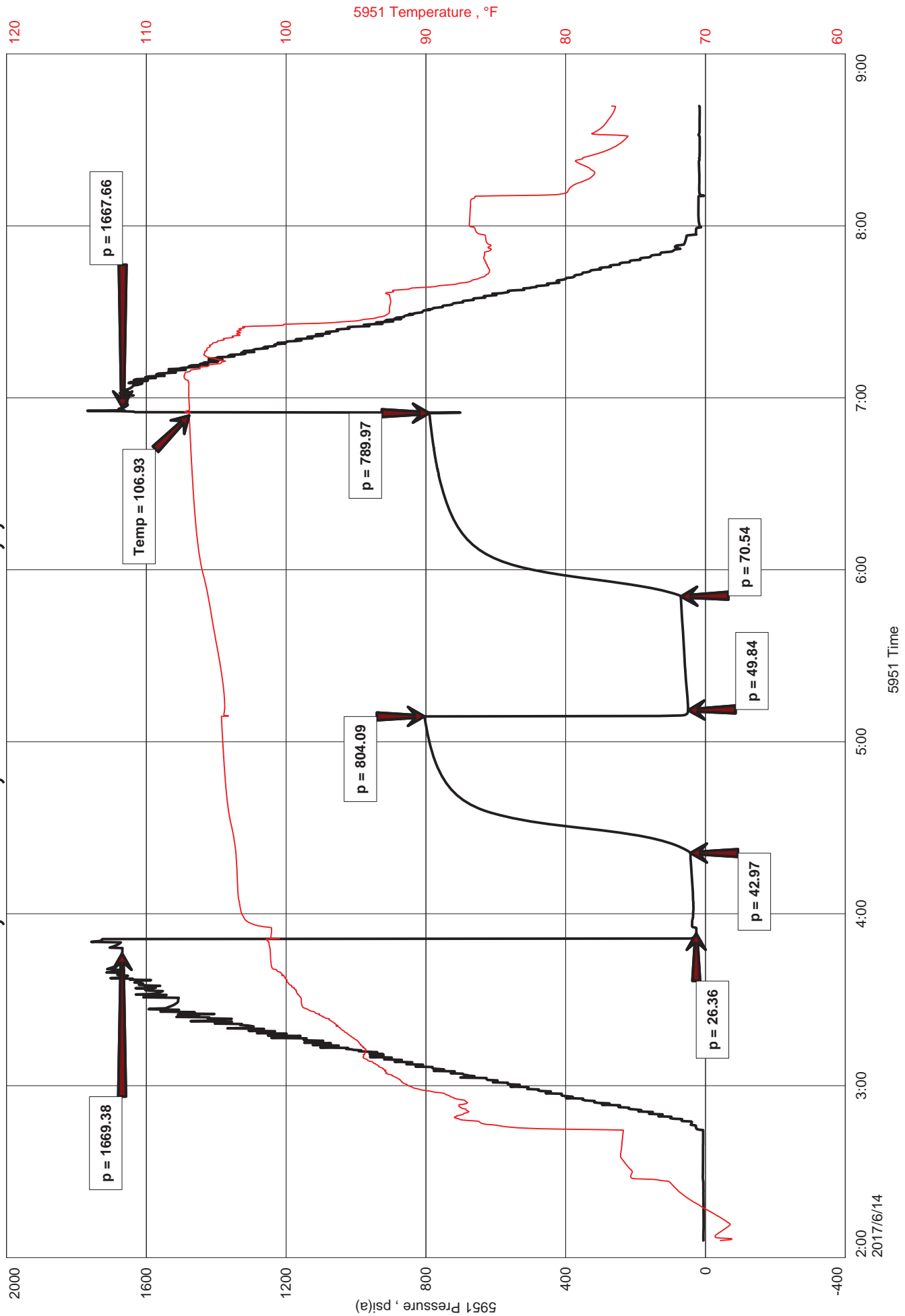
Recovered _____ ft. of _____
 Recovered _____ ft. of 1070' GIP
 Recovered _____ ft. of _____
 Remarks: TOTAL FLUID: 145'
Chlorides: 38,000 PPM
RW: .19 @ 70°F PH: 7.0
 Price Job _____
 Other Charges _____
87 MPT (PRATT)
 Total _____

Time Set Packer(s) 03:52 A.M. P.M. Time Started Off Bottom 06:52 A.M. P.M. Maximum Temperature 107°F

Initial Hydrostatic Pressure..... (A) 1669 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 26 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 804 P.S.I.
 Final Flow Period..... Minutes 45 (E) 50 P.S.I. to (F) 71 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 790 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1668 P.S.I. Scott Johnson

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.

ILS #1, DST #1, LANSING "H,I,J" 3584'-3644'





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ILS1DST1

TIME ON: 02:06
TIME OFF: 08:42

Company RJM Company Lease & Well No. ILS #1
Contractor Southwind Drlg. Rig #3 Charge to RJM Co
Elevation 1949' KB Formation Lansing "H,I,J" Effective Pay _____ Ft. Ticket No. F483
Date 6/14/17 Sec. 16 Twp. 22 S Range 14 W County Stafford State KANSAS
Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3584 ft. to 3644 ft. Total Depth 3644 ft.
Packer Depth 3579 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3584 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3586 ft. Recorder Number 5951 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3589 ft. Recorder Number 5586 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 3,564 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length 60 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: Blow increased to BOB in 7.5 minutes. Blowback @ .25", died.
2nd Open: Blow increased to BOB in 2.5 minutes. Blowback @ 5".

Recovered 25 ft. of OM 35% oil, 65% mud
Recovered 60 ft. of HGCMO 40% gas, 35% oil, 25% mud
Recovered 60 ft. of HGCWOM 30% gas, 18% oil, 17% wtr, 35% mud

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL RECOVERED FLUID: 145'</u>	Insurance
<u>Chlorides: 38,000 PPM</u>	
<u>RW: .19 ohm @ 70 F</u> <u>PH: 7.0</u>	Total

Time Set Packer(s) 03:52 A.M. P.M. Time Started Off Bottom 06:52 A.M. P.M. Maximum Temperature 107 F

Initial Hydrostatic Pressure..... (A) 1669 P.S.I.
Initial Flow Period..... Minutes 30 (B) 26 P.S.I. to (C) 43 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 804 P.S.I.
Final Flow Period..... Minutes 45 (E) 50 P.S.I. to (F) 71 P.S.I.
Final Closed In Period..... Minutes 60 (G) 790 P.S.I.
Final Hydrostatic Pressure..... (H) 1668 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

DIAMOND TESTING



TEST INFORMATION

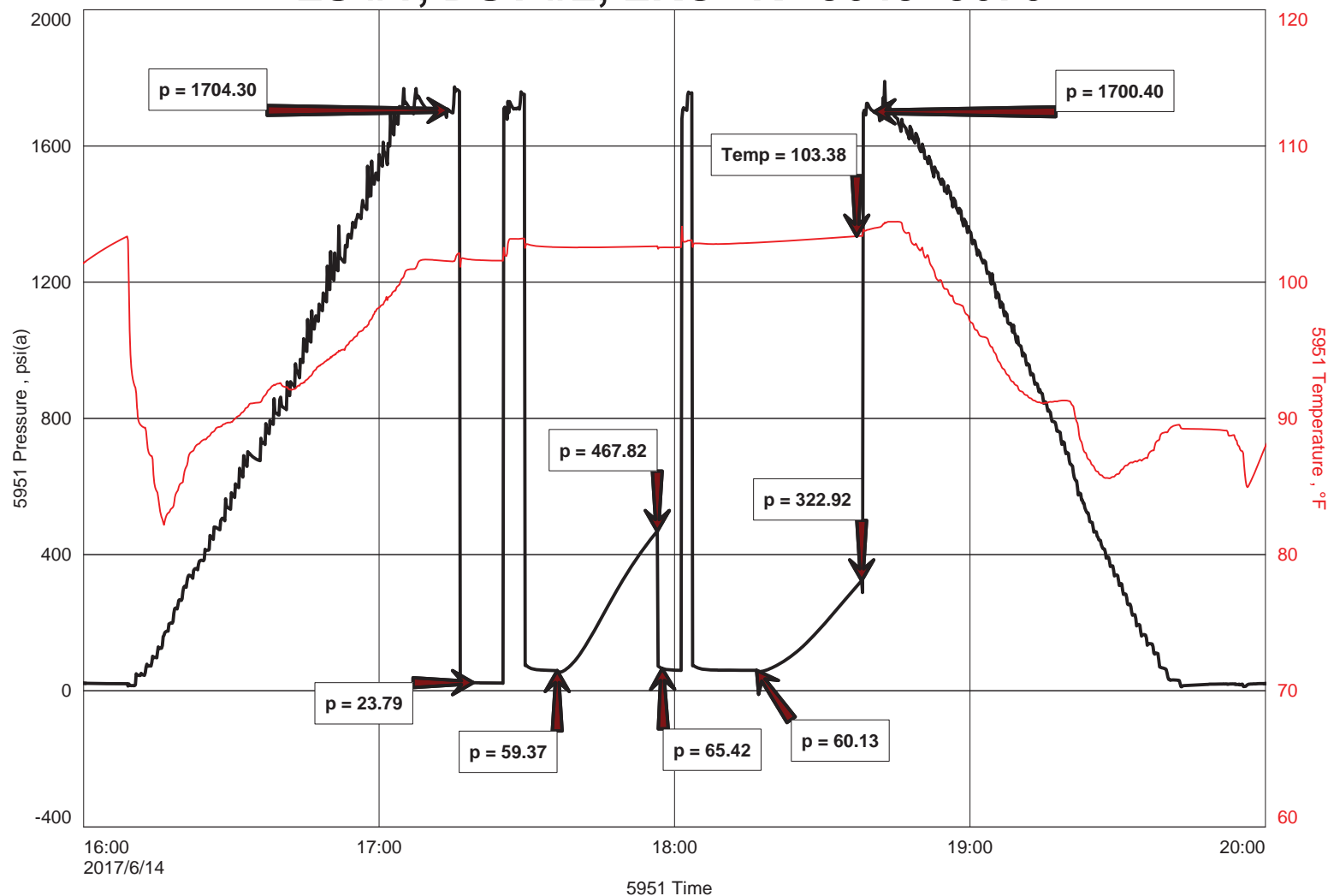
Well Name	ILS #1
Company Name	RJM Company
Formation	DST #2, LKC "K" 3643'-3670'
Test Type	Bottom-Hole, no extra equipment
Surface Location	Sec 16-22s-14w-Stafford Co.-KS
KB Elevation (SL)	1949.000
Gauge Name	5951
Start Test Date	2017/06/14
Start Test Time	15:34:00
Final Test Date	2017/06/14
Final Test Time	20:05:00
Job Number	F484
Contact	Chris Hoffman
Site Contact	Jim Musgrove

TEST RESULTS

Initial flow, no blow, flushed tool, no blow.
Final flow, no blow, flushed tool, no blow.

Recovered 85' of drilling mud, 100% mud.

ILS #1, DST #2, LKC "K" 3643'-3670'





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ILS1DST2

TIME ON: 15:34
TIME OFF: 20:05

Company RJM Company Lease & Well No. ILS #1
Contractor Southwind Drlg. Rig #3 Charge to RJM Co
Elevation 1949' KB Formation LKC "K" Effective Pay _____ Ft. Ticket No. F484
Date 6/14/17 Sec. 16 Twp. 22 S Range 14 W County Stafford State KANSAS
Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3643 ft. to 3670 ft. Total Depth 3670 ft.
Packer Depth 3638 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 3643 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3648 ft. Recorder Number 5951 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3649 ft. Recorder Number 5586 Cap. 6000 P.S.I.
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.
Mud Type CHEMICAL Viscosity 51 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3,623 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number ----- Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
Did Well Flow? ----- Reversed Out ----- Anchor Length 27 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: No blow, flushed tool, no blow.
2nd Open: No blow, flushed tool, no blow.

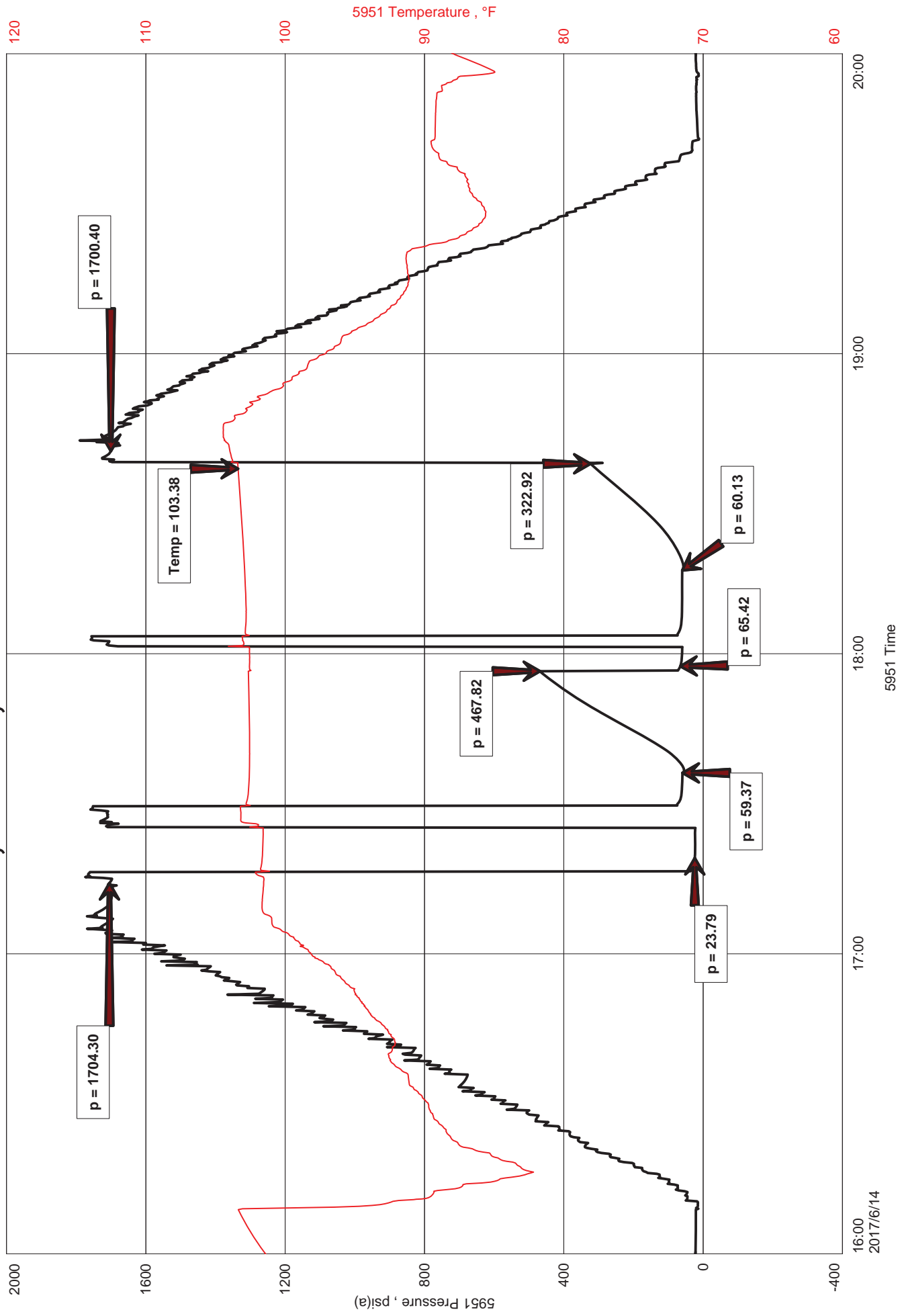
Recovered 85 ft. of Drilling Mud 100% mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 5:15 PM A.M. P.M. Time Started Off Bottom 6:35 PM A.M. P.M. Maximum Temperature 103 F
Initial Hydrostatic Pressure..... (A) 1704 P.S.I.
Initial Flow Period..... Minutes 20 (B) 24 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 468 P.S.I.
Final Flow Period..... Minutes 20 (E) 65 P.S.I. to (F) 60 P.S.I.
Final Closed In Period..... Minutes 20 (G) 323 P.S.I.
Final Hydrostatic Pressure..... (H) 1700 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.

ILS #1, DST #2, LKC "K" 3643'-3670'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: ILS1DST2

ON LOCATION:	<u>15:22</u>
START RECORDERS:	<u>15:34</u>
STOP RECORDERS:	<u>20:05</u>

Company RJM COMPANY Lease & Well No. ILS #1
 Contractor SOUTHWIND DRUG RIG #3 Charge to RJM Co.
 Elevation 1949' KB Formation LKC "K" Effective Pay _____ Ft. Ticket No. F484
 Date 6-14-17 Sec. 16 Twp. 22S Range 14 W County STAFFORD State KS
 Test Approved By JEM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3643 ft. to 3670 ft. Total Depth 3670 ft.
 Packer Depth 3638 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3643 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3648 ft. Recorder Number 5951 Cap. 6000 P.S.I.
 Bottom Recorder Depth (Outside) 3649 ft. Recorder Number 5586 Cap. 6000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 (1# LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 5000 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 5000 P.P.M. Drill Pipe Length 3623 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 27 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 4 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: NO BLOW, FLUSH TOOL, NO BLOW.
 2nd Open: NO BLOW, FLUSH TOOL, NO BLOW.

Recovered 85 ft. of DRLG MUD 100" MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Price Job	
Other Charges	
Total	<u>87 MRT (PRATT)</u>

Time Set Packer(s) 5:15 A.M. / P.M. Time Started Off Bottom 6:35 A.M. / P.M. Maximum Temperature 103°F
 Initial Hydrostatic Pressure..... (A) 1704 P.S.I.
 Initial Flow Period..... Minutes 20 (B) 24 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period..... Minutes 20 (D) 468 P.S.I.
 Final Flow Period..... Minutes 20 (E) 65 P.S.I. to (F) 60 P.S.I.
 Final Closed In Period..... Minutes 20 (G) 323 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1700 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 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.



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

NOTES

Company: RJM Oil Company

Lease: ILS #1

Field: Dralle

Location: SE-NW-NE-NE (625' FNL & 850' FEL)

Sec: 16 Twsp: 22S Rge: 14W

County: Stafford State: Kansas

KB: 1949' GL: 1941'

API #: 15-185-23990-00-00

Contractor: Southwind Drilling, Inc. (Rig #3)

Spud: 6/9/2017 Comp: 6/15/2017

RTD: 3919' LTD: 3918'

Mud Up: 3200' Type Mud: Chemical

Samples Saved From: 3200' to RTD

Drilling Time Kept From: 3200' to RTD

Samples Examined From: 3200' to RTD

Geological Supervision from: 3200' to RTD

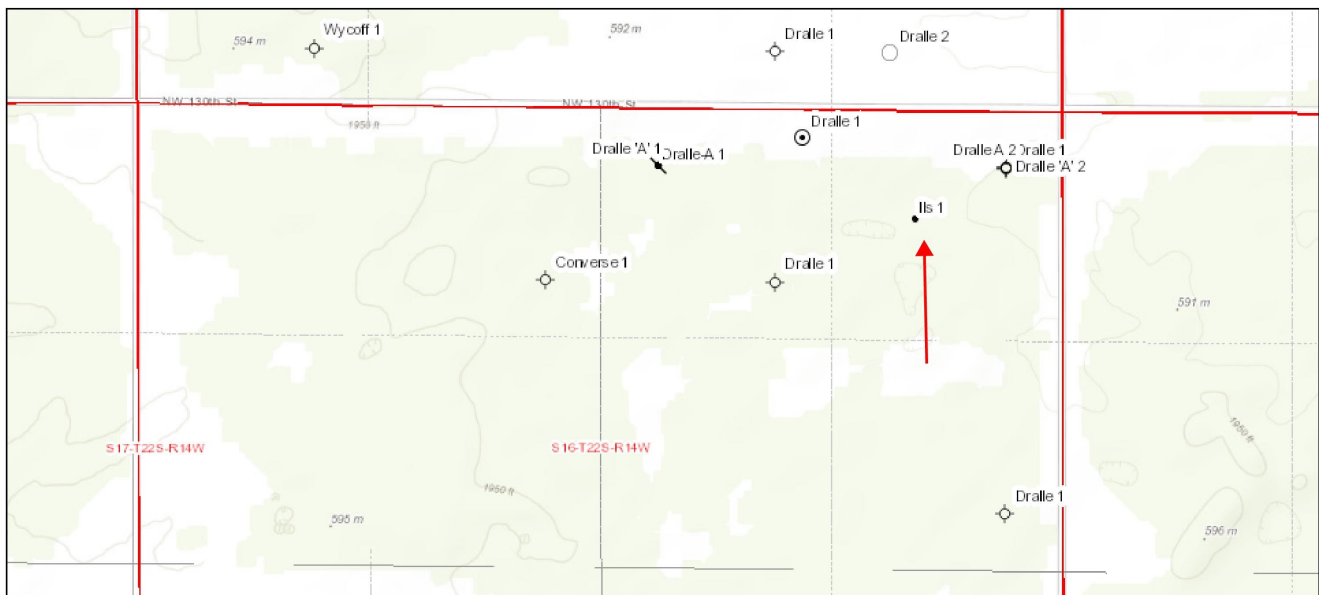
Geologist on Well: Jim Musgrove

Surface Casing: 8 5/8@305'

Production Casing: 5 1/2@ 3863'

Electronic Surveys: Logged by ELI; DIL/ MEL, CDL/CNL/PE, Sonic

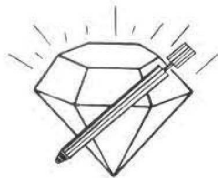
RJM- ILS #1





RJM Oil Company, Inc.

DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
RJM OIL CO. - ILS #1				Imperial Oil-Dralle #1				Laguna Pet.- Dralle #1				
SE-NW-NE-NE 16-22S-14W				NE-NE-NE 16-22S-14W				SE-NW-NE 16-22S-14W				
oil				dry hole				dry hole				
1949 KB				1945 KB				1949 KB				
				Structural Relationship				Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3339	-1390	3337	-1388	3330	-1385	5	-3	3354	-1405	15	17
Toronto	3363	-1414	3361	-1412	3354	-1409	5	-3				
Douglas	3379	-1430	3379	-1430		1945						
Brown Lime	3461	-1512	3460	-1511		1945						
Lansing	3471	-1522	3470	-1521	3465	-1520	-2	-1	3487	-1538	16	17
BKC	3710	-1761	3710	-1761		1945						
Viola	3780	-1831	3779	-1830	3764	-1819	-12	-11				
Simpson	3813	-1864	3811	-1862	3804	-1859	-5	-3				
Arbuckle	3864	-1915	3863	-1914	3851	-1906	-9	-8				
RTD	3919	-1970	3920	-1971	3901	-1956	-14	-15	3650	-1701	-269	-270
LTD	3918	-1969	3918	-1969								



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ILS1DST1

TIME ON: 02:06
TIME OFF: 08:42

Company RJM Company Lease & Well No. ILS #1
Contractor Southwind Drlg. Rig #3 Charge to RJM Co
Elevation 1949' KB Formation Lansing "H,I,J" Effective Pay _____ Ft. Ticket No. F483
Date 6/14/17 Sec. 16 Twp. _____ Range 22 S County Stafford State KANSAS
Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3584 ft. to 3644 ft. Total Depth 3644 ft.
Packer Depth 3579 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3584 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3586 ft. Recorder Number 5951 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3589 ft. Recorder Number 5586 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 3,564 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length 60 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: Blow increased to BOB in 7.5 minutes. Blowback @ .25", died.
2nd Open: Blow increased to BOB in 2.5 minutes. Blowback @ 5".
Recovered 25 ft. of OM 35% oil, 65% mud

Recovered 60 ft. of HGCMO 40% gas, 35% oil, 25% mud
 Recovered 60 ft. of HGCWOM 30% gas, 18% oil, 17% wtr, 35% mud
 Recovered _____ ft. of 1,070' of Gas In Pipe
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: TOTAL RECOVERED FLUID: 145'
Chlorides: 38,000 PPM
RW: .19 ohm @ 70 F PH: 7.0

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 03:52 A.M. Time Started Off Bottom 06:52 P.M. Maximum Temperature 107 F
 Initial Hydrostatic Pressure..... (A) 1669 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 26 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 804 P.S.I.
 Final Flow Period..... Minutes 45 (E) 50 P.S.I. to (F) 71 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 790 P.S.I.
 Final Hydrostatic Pressure..... (H) 1668 P.S.I.



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: ILS1DST2

TIME ON: 15:34
 TIME OFF: 20:05

Company RJM Company Lease & Well No. ILS #1
 Contractor Southwind Drlg. Rig #3 Charge to RJM Co
 Elevation 1949' KB Formation LKC "K" Effective Pay _____ Ft. Ticket No. F484
 Date 6/14/17 Sec. 16 Twp. 22 S Range 14 W County Stafford State KANSAS
 Test Approved By Jim Musgrove Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3643 ft. to 3670 ft. Total Depth 3670 ft.
 Packer Depth 3638 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3643 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3648 ft. Recorder Number 5951 Cap. 6000 P.S.I.
 Bottom Recorder Depth (Outside) 3649 ft. Recorder Number 5586 Cap. 6000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 5,000 P.P.M. Drill Pipe Length 3,623 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 27 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: No blow, flushed tool, no blow.
 2nd Open: No blow, flushed tool, no blow.

Recovered 85 ft. of Drilling Mud 100% mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Price Job
Other Charges
Insurance
Total

Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____

Time Set Packer(s) 5:15 PM A.M. P.M. Time Started Off Bottom 6:35 PM A.M. P.M. Maximum Temperature 103 F

Initial Hydrostatic Pressure..... (A) 1704 P.S.I.

Initial Flow Period..... Minutes 20 (B) 24 P.S.I. to (C) 59 P.S.I.

Initial Closed In Period..... Minutes 20 (D) 468 P.S.I.

Final Flow Period..... Minutes 20 (E) 65 P.S.I. to (F) 60 P.S.I.

Final Closed In Period..... Minutes 20 (G) 323 P.S.I.

Final Hydrostatic Pressure..... (H) 1700 P.S.I.

ROCK TYPES

 Cht vari
  Lmst fw<7
  shale, gry
  shale, red
  Ss
 Dolprim
  shale, grn
  Carbon Sh
  Shcol

OTHER SYMBOLS

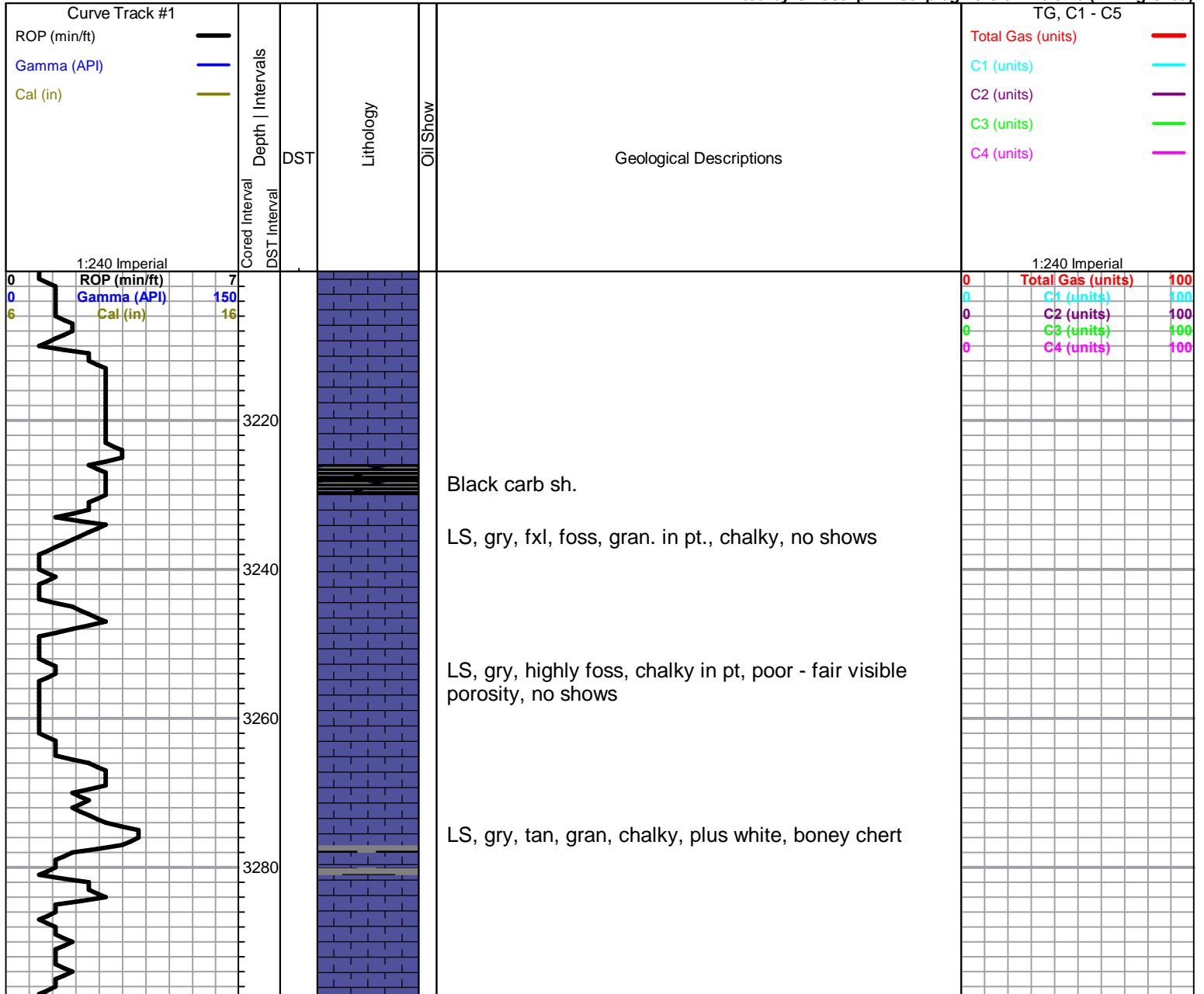
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



3300
3320
3340
3360
3380
3400
3420
3440
3460
3480
3500

LS, a/a

LS, tan, gry, slightly foss, chalky, cherty (dense)

Heebner 3339.0 (-1390.0)

Black carb sh.

Tr. gry, white, chert

Sh, gry, maroon, greenish

Toronto 3363.0 (-1414.0)

LS, tan, fxl, few sub oom, cherty, recrystallized, no shows

Douglas 3379.0 (-1430.0)

Sh, V.C. silty soft

Sh, a/a, soft, silty

Sh, a/a

Brown Lime 3461.0 (-1512.0)

LS, tan, brown, cherty in part, dense

Lansing 3471.0 (-1522.0)

LS, white, cream, few foss, chalky, no shows

LS, a/a, plus tan, dense LS

LS, cream, white, foss, scattered porosity, no shows

LS, a/a

0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

3520
3540
3560
3580
3600
3620
3640
3660
3680
3700
3720

0
0
6

RF (min/ft)
Gamma (API)
Cal (in)

D
S
T

1
16

D
S
T

2

Sh, gry, greenish

LS, white, foss in pts, scattered vuggy porosity, no shows

LS, tan, ool, dense, poor visible porosity

LS, cream, white, oom in pt, scattered visible porosity, no shows, tr. white ool, chert

LS, cream, tan, ool, sub oom, scattered porosity, no shows

LS, white, gry, oom, poorly developed porosity, tr. poor stain, nsfo, no odor

LS, white, cream, oom, scattered porosity, brown stain, sfo, no odor

LS, tan, oom, fair oom porosity, brown/ dk brown stain, sfo, ??? odor

LS, cream, white, ool, sub oom, fair porosity, brown stain, sfo, no odor

LS, a/a

Sh, gry, limey, tr. black carb sh

LS, white, chalky, poor visible porosity, ??? stain, nsfo, no odor

Base Kansas City 3710.0 (-1761.0)

Sh, gry, greenish, tr. black carb shale

Tr. white, gry, chert,
Tr. dense ls

DST #1 3584-3566

30-45-45-60

1st Open:
BOB 7.5 mins

2nd Open:
BOB 2.5 mins

Recovery:

1,070' GIP

25' OM
(35%O, 65%M)

60' HGCMO
(40%G, 35%O, 25%
M)

60' HGCWOM
30%G, 18%O, 17%
W, 35% M)

Pressures:
ISIP 804 psi
FSIP 790 psi
IFP 26-43 psi
FFP 50-71 psi
HSH 1669-1668

DST # 2 3643-3670

20-20-20-20

1st Open:
Dead

Recovery:

85' Drilling Mud

3740
3760
3780
3800
3820
3840
3860
3880
3900
3920
3940

Sh, mar, green, gry
scattered LS, & chert a/a

Ditto a/a, plus yellow shale

Viola 3780.0 (-1831.0)

Chert, gry, white, opaque

Chert, a/a, few semi trip., black stain, nsfo, no odor

A/a, white, gry, boney chert, black tarry stain

Simpson 3811.0 (-1862.0)

Tr. LS, white, dense, glauc, in pt

V.C. sub waxey shale

Simpson Sd. 3831.0 (-1882.0)

Sd. white, vfg, poor visible porosity, no shows

Shale v.c. sub waxey

Arbuckle 3864.0 (-1915.0)

Dol., gry, white, fxl, dense, tr. pyrite

Dol., a/a, few suc. scattered porosity, no shows

Dol. a/a, tr. white, tan, med xln, dolomite, fair inxln
vuggy porosity, no shows

Dol. a/a, tr. white, chalky, tr. white chert

LTD 3918.0 (-1969.0)

RTD 3919.0 (-1970.0)

Pressures:
ISIP 468 psi
FSIP 323 psi
IFP 24-59 psi
FFP 65-60 psi
HSH 1704-1700 psi

ROP (min/ft) 7
Gamma (API) 150
Cal (in) 16

Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100

3960

3980