



1227428

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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> _____
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Richlan Drilling, a General Partnership
Well Name	Stremel 1
Doc ID	1227428

Tops

Name	Top	Datum
Stone Corral	1110	+854
B/Stone Corral	1139	+825
Topeka	2985	-1021
Heebner Shale	3210	-1246
Toronto	3229	-1265
Lansing	3264	-1300
Muncie Creek Shale	3396	-1432
BKC	3476	-1512
Conglomerate Sd	3498	-1534
Arbuckle	3546	-1582
LTD	3619	-1655



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 145977
Invoice Date: Sep 23, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Richlan Drilling 598 2nd Avenue Beaver, KS 67525

Customer ID	Field Ticket #	Payment Terms	
Richlan	55328	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Russell	Sep 23, 2014	10/23/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Stremel #1		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
376.00	CEMENT MATERIALS	Gel	0.50	188.00
1,128.00	CEMENT MATERIALS	Chloride	1.10	1,240.80
200.00	CEMENT MATERIALS	Acon Blend	25.00	5,000.00
100.00	CEMENT MATERIALS	Flo Seal	2.97	297.00
400.00	CEMENT SERVICE	Cubic Feet Charge	2.48	992.00
564.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,551.00
1.00	CEMENT SERVICE	Long Surface	2,213.75	2,213.75
30.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	132.00
1.00	CEMENT SERVICE	Plug Container	275.00	275.00
60.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	462.00
1.00	EQUIPMENT SALES	8-5/8 Baffle Plate	170.00	170.00
1.00	EQUIPMENT SALES	8-5/8 Basket	560.00	560.00
3.00	EQUIPMENT SALES	8-5/8 Centralizer	75.00	225.00
1.00	EQUIPMENT SALES	8-5/8 Top Rubber Plug	131.00	131.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	OPERATOR ASSISTANT	Danny Sinner		
1.00	OPERATOR ASSISTANT	Jonathan Price		
1.00	OPERATOR ASSISTANT	Tyler Wellbrock		

Subtotal	17,017.55
Sales Tax	700.60
Total Invoice Amount	17,718.15
Payment/Credit Applied	
TOTAL	17,718.15

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

\$ 4,764.91

ONLY IF PAID ON OR BEFORE
Oct 23, 2014

ALLIED OIL & GAS SERVICES, LLC 055328

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell KS

DATE <u>9-23-14</u>	SEC. <u>11</u>	TWP. <u>9</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>6:05 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>Strang</u>		WELL # <u>1</u>	LOCATION <u>Galatia 7W 1W 2W</u>		COUNTY <u>Kush</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)			<u>New into</u>				

CONTRACTOR Minnesco
 TYPE OF JOB lang surface
 HOLE SIZE 12 1/4 T.D. 1114
 CASING SIZE 8 3/4 29" DEPTH 1114
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 42
 CEMENT LEFT IN CSG. 42
 PERFS.
 DISPLACEMENT 68.25

OWNER
 CEMENT AMOUNT ORDERED 200 ACON 39cc 14 Ccl
200 com 39cc 2 3/4 gal
 COMMON 200 @ 17.90 3580.00
 POZMIX @
 GEL 376 @ 0.50 188.00
 CHLORIDE 1728" @ 1.10 1240.80
 ASC @
 Acon 200 @ 25.00 5000.00
 Flo-seal 100" @ 2.97 297.00
 @
 @
 Material @ 10305.80
 Misc @ 2885.62
 @
 @
 HANDLING 400 sks @ 2.48 992.00
 MILEAGE 564 1/2 @ 2.75 1551.00
 TOTAL 12848.80

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
 # 417 HELPER Danny S
 BULK TRUCK
 # 481 DRIVER Jon P
 BULK TRUCK
 # 410 DRIVER Tyler W

REMARKS:

See log
Cement did circulate 35 sks rapid
Thank you!!!

CHARGE TO: Richsen Drilling
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 1114
 PUMP TRUCK CHARGE 2213.75
 EXTRA FOOTAGE @
 MILEAGE 30 LUMI @ 4.40 132.00
 MANTFOLD Plug Containers @ 275.00 275.00
60 HVMI @ 7.70 462.00
 @
5625.75
Disc 1575.21 TOTAL 3082.75

PLUG & FLOAT EQUIPMENT

IR baffle plate @ 170.00 170.00
IR basket @ 560.00 560.00
IR centralizer (3) @ 75.00 225.00
IR Top Rubber plug @ 131.00 131.00
 @
New 30408 TOTAL 1086.00

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 17017.55
 DISCOUNT 4764.91 (28%)
 NET 12252.64 IF PAID IN 30 DAYS

PRINTED NAME _____
 SIGNATURE Richard A. Sawyer



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 146090
Invoice Date: Sep 29, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Richlan Drilling 598 2nd Avenue Beaver, KS 67525

Customer ID	Field Ticket #	Payment Terms	
Richlan	63992	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Sep 29, 2014	10/29/14

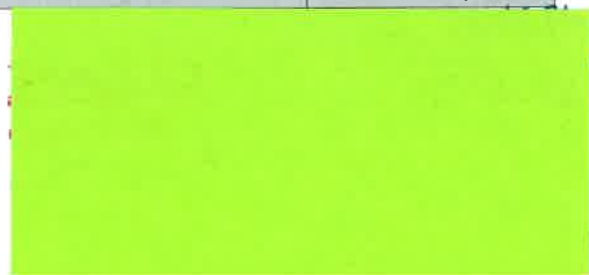
Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Stremel #1		
210.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	3,973.20
53.00	CEMENT MATERIALS	Flo Seal	2.97	157.41
225.57	CEMENT SERVICE	Cubic Feet Charge	2.48	559.41
565.20	CEMENT SERVICE	Ton Mileage Charge	2.75	1,554.30
1.00	CEMENT SERVICE	Plug to Abandon	2,600.47	2,600.47
60.00	CEMENT SERVICE	Pump Truck Mileage	7.70	462.00
30.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	132.00
1.00	CEMENT SUPERVISOR	Kevin Eddy		
1.00	OPERATOR ASSISTANT	Brian Lang		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

Subtotal	9,438.79
Sales Tax	580.49
Total Invoice Amount	10,019.28
Payment/Credit Applied	
TOTAL	10,019.28

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

\$ 2,642.86

ONLY IF PAID ON OR BEFORE
Oct 29, 2014



ALLIED OIL & GAS SERVICES, LLC

063992

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Great Bend KS

DATE <u>09-29-14</u>	SEC. <u>18</u>	TWP. <u>16</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION <u>2:00 PM</u>	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:30 PM</u>
LEASE <u>Stromel</u>	WELL # <u>1</u>	LOCATION <u>Galatia Rd 13 west Road Curves</u>			COUNTY <u>Rush</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>North Imile Thew 2 west to Rd 350 700' north</u>			<u>west into</u>	

CONTRACTOR NINWESCAH
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 3494
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. All
 PERFS.
 DISPLACEMENT Fresh H2O

OWNER
 CEMENT
 AMOUNT ORDERED 210 60/40 4% Gel 1/4 flt

EQUIPMENT
 PUMP TRUCK CEMENTER Kevin Eddy
 # 398 HELPER Brian Lang
 BULK TRUCK
 # 610/170 DRIVER Kevin Weihaus
 BULK TRUCK
 # DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<u>210 5% 60/40+4%</u>	@	<u>18.92</u>	<u>3.973.20</u>
<u>1/4 flt</u>	@	<u>2.97</u>	<u>157.91</u>
<u>Materials Total</u>			<u>4.130.61</u>
<u>Disc</u>	<u>28%</u>		<u>1.156.57</u>
	@		
	@		
	@		
<u>Service</u>	-		
HANDLING <u>225.57</u>	@	<u>2.48</u>	<u>559.41</u>
MILEAGE <u>9.42 x 60 x</u>	@	<u>2.75</u>	<u>1.554.30</u>

REMARKS:

on location, held safety meeting, rig up
Ran 4 1/2 Drill Pipe, fill hole w/ Rig mud
#1 3494 ft @ 50 SXS
#2 1140 ft @ 50 SXS
#3 480 ft @ 40 SXS
#4 605 ft @ 20 SXS
Rat Hole @ 30 SXS mouse hole @ 20 SXS
wash up Rig Down

DEPTH OF JOB			
PUMP TRUCK CHARGE		<u>2600.00</u>	<u>27</u>
EXTRA FOOTAGE	@		
MILEAGE <u>Hum 60</u>	@	<u>7.70</u>	<u>462.00</u>
MANIFOLD	@		
<u>Hum 30</u>	@	<u>4.40</u>	<u>132.00</u>
	@		

CHARGE TO: Richard Drilling
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 5.308.18
 Disc 28% 1.486.29

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

Disc 28% TOTAL 0

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____
 TOTAL CHARGES 9.438.79
 DISCOUNT 28% 2.642.86 (28/28/10)
 IF PAID IN 30 DAYS
6.795.93

PRINTED NAME _____

SIGNATURE Richard A. Brown

Thank you!



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC/Stremel1dst1

Company Richlan Drilling Lease & Well No. Stremel No. 1
Elevation 1964 KB Formation Lansing/Kansas City "A-E" Effective Pay _____ Ft. Ticket No. J3295
Date 9-26-14 Sec. 18 Twp. 16S Range 16W County Rush State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,240 ft. to 3,335 ft. Total Depth 3,335 ft.
Packer Depth 3,235 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,240 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,243 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,332 ft. Recorder Number 13498 Cap. 6,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 46 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 9.2 cc. Drill Pipe Length 3,220 ft I.D. 3 1/2 in.
Chlorides 3,400 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 32' perf. w/63' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing to 10 1/2 ins. No blow back during shut-in.
2nd Open: Good blow increasing to 8 ins. No blow back during shut-in.

Recovered 180 ft. of water cut mud = 2.561400 bbls. (Grind out: 30%-water; 70%-mud) Chlorides: 40,000 Ppm
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 50%-water; 50%-mud

Time Set Packer(s) 6:20 P.M. Time Started off Bottom 8:50 P.M. Maximum Temperature 108°
Initial Hydrostatic Pressure.....(A) 1542 P.S.I.
Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 938 P.S.I.
Final Flow Period.....Minutes 45 (E) 54 P.S.I. to (F) 99 P.S.I.
Final Closed In Period.....Minutes 45 (G) 901 P.S.I.
Final Hydrostatic Pressure.....(H) 1504 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RICHLAN DRILLING	Job Number	J3295
Contact	RICK SCHREIBER	Representative	JOHN RIEDL
Well Name	STREMEL #1	Well Operator	RICHLAN DRILLING
Unique Well ID		Report Date	2014/09/26
Surface Location	S18/16S/16W	Prepared By	JOHN RIEDL
Field		Qualified By	BOB SCHREIBER

Test Information

Test Type	DST #1 CONVENTIONAL
Formation	LKC "A-E"
Well Fluid Type	
Test Purpose	

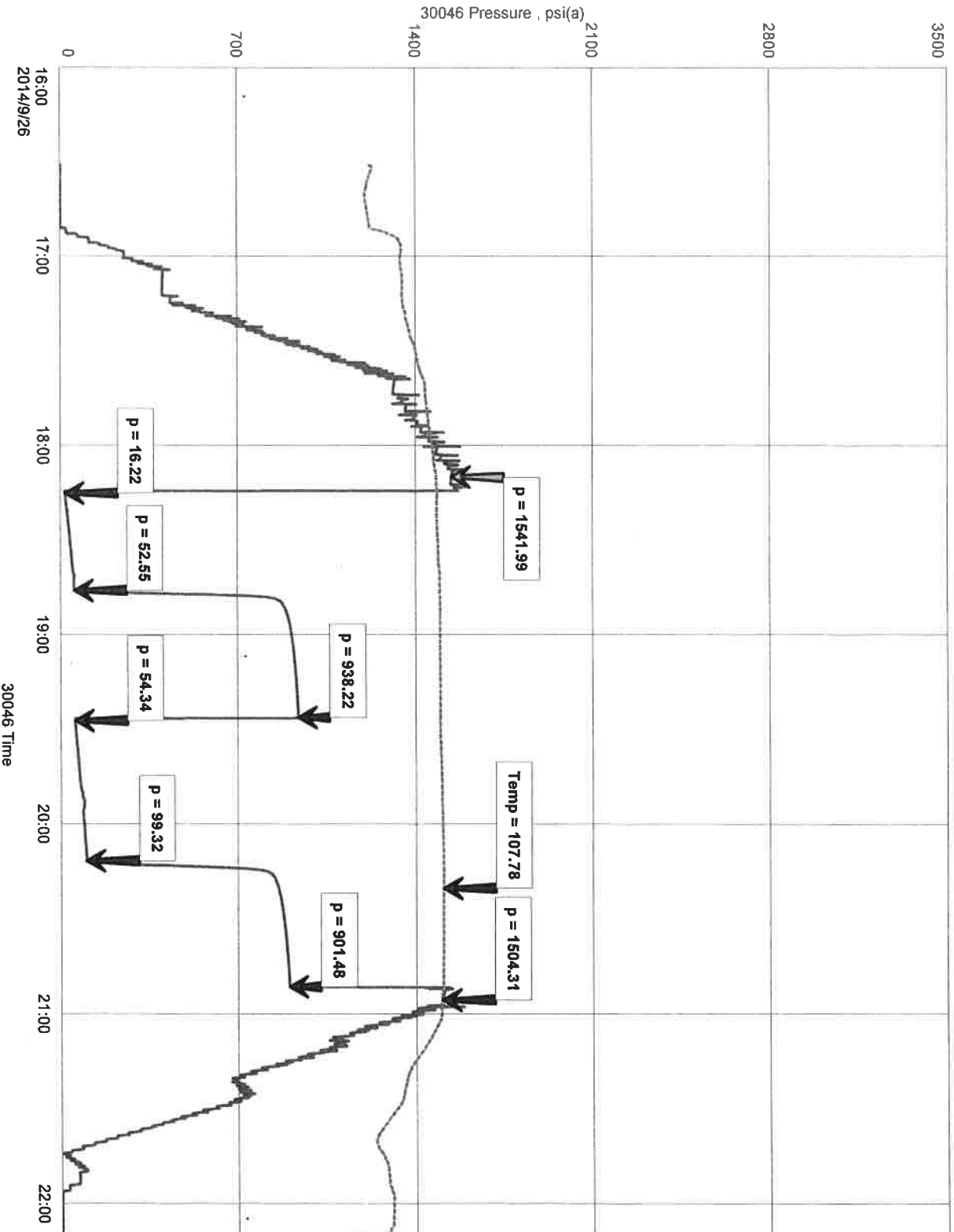
Start Test Date	2014/09/26	Start Test Time	16:30:00
Final Test Date	2014/09/26	Final Test Time	22:40:00

Test Recovery

RECOVERY: 180' WATER CUT MUD 30% WATER, 70% MUD CHLORIDES: 40,000 PPM

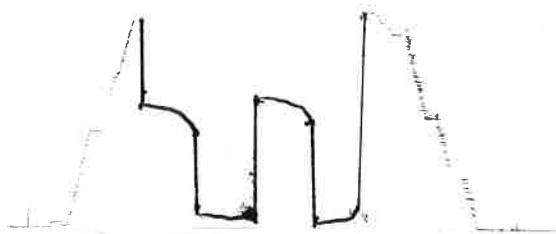
TOOL SAMPLE: 50% WATER, 50% MUD

STREMEL #1



NICHOLAS ARLE DSTJ
STROMOZ # 9/26/04

ROCKBURY
OUTPOST





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC/Stremel1dst4

Company Richlan Drilling Lease & Well No. Stremel No. 1
Elevation 1964 KB Formation Conglomerate/Arbuckle Effective Pay Ft. Ticket No. J3298
Date 9-28-14 Sec. 18 Twp. 16S Range 16W County Rush State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,475 ft. to 3,560 ft. Total Depth 3,560 ft.
Packer Depth 3,470 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,475 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,478 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,557 ft. Recorder Number 13498 Cap. 6,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 52 Weight Pipe Length ft I.D. in.
Weight 9.4 Water Loss 9.4 cc. Drill Pipe Length 3,455 ft I.D. 3 1/2 in.
Chlorides 5,200 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 22' perf. w/63' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 2 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 2 mins. No blow back during shut-in.

Recovered 180 ft. of oil specked, mud cut water = 2.561400 bbls. (Grind out: 80%-water; 20%-mud)

Recovered 620 ft. of water = 8.822600 bbls. (Chlorides: 26,000 Ppm)

Recovered 800 ft. of TOTAL FLUID = 11.384000 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-water

Time Set Packer(s) 10:00 P.M. Time Started off Bottom 11:30 P.M. Maximum Temperature 110°
Initial Hydrostatic Pressure.....(A) 1705 P.S.I.
Initial Flow Period.....Minutes 15 (B) 97 P.S.I. to (C) 249 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1117 P.S.I.
Final Flow Period.....Minutes 15 (E) 259 P.S.I. to (F) 396 P.S.I.
Final Closed In Period.....Minutes 30 (G) 1096 P.S.I.
Final Hydrostatic Pressure.....(H) 1662 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RICHLAN DRILLING	Job Number	J3298
Contact	RICK SCHREIBER	Representative	JOHN RIEDL
Well Name	STREMEL #1	Well Operator	RICHLAN DRILLING
Unique Well ID		Report Date	2014/09/29
Surface Location	S18/16S/16W	Prepared By	JOHN RIEDL
Field		Qualified By	BOB SCHREIBER

Test Information

Test Type	DST #4 CONVENTIONAL
Formation	CONG, ARBUCKLE
Well Fluid Type	
Test Purpose	

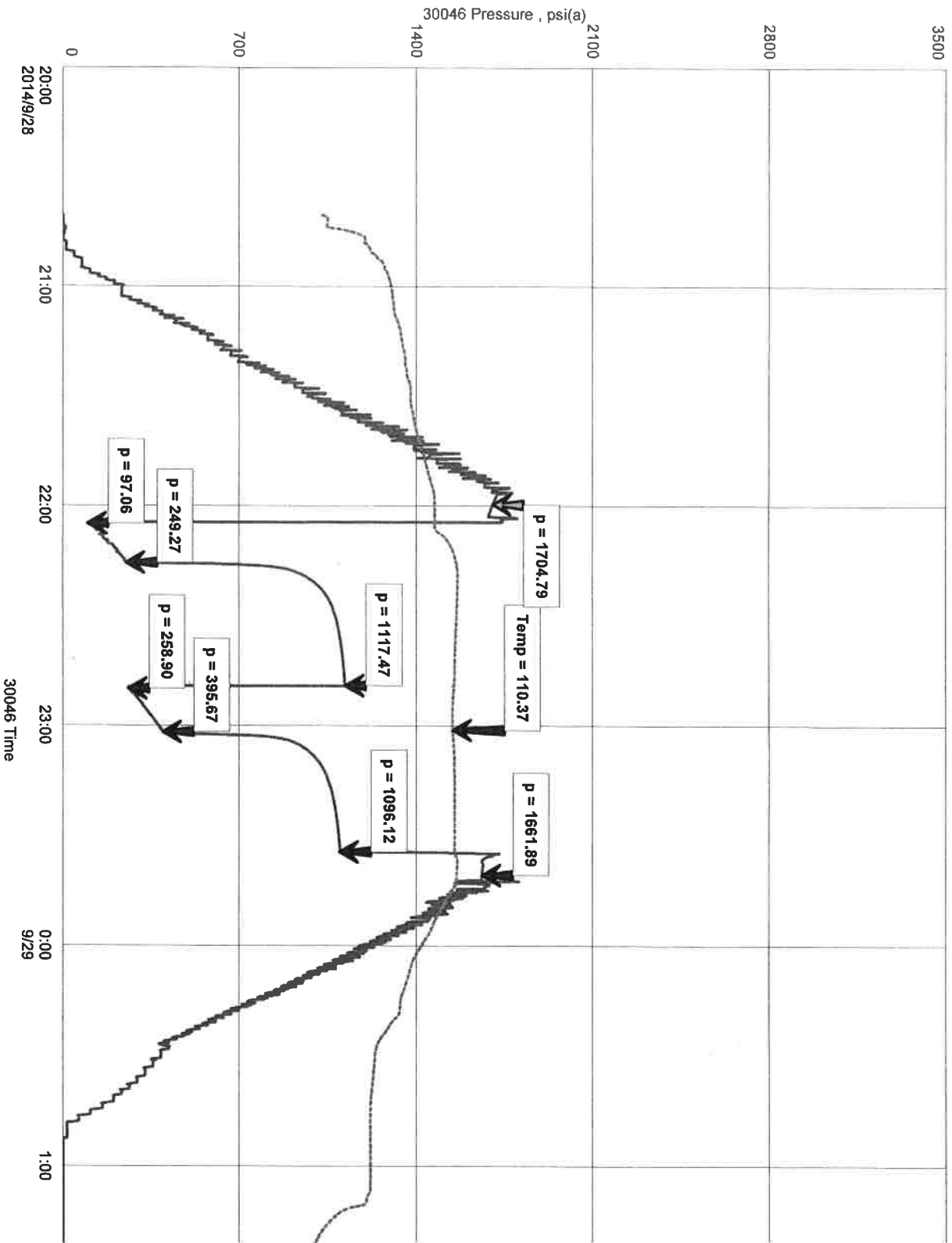
Start Test Date	2014/09/28	Start Test Time	20:40:00
Final Test Date	2014/09/29	Final Test Time	13:00:00

Test Recovery

RECOVERY: 180' OIL SPECKED MUD CUT WATER 80% WATER, 20% MUD
620' WATER CHLORIDES: 28,000 PPM
800' TOTAL FLUID

TOOL SAMPLE: 100% WATER

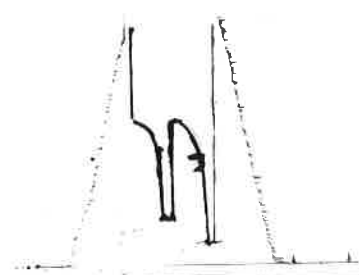
STREMEL #1



RICHMAN DRUG
STROMZ ~~1~~

DST 4
9/25/14

RFC 1389 D
DUST 420





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC/Stremel1dst3

Company Richlan Drilling Lease & Well No. Stremel No. 1
Elevation 1964 KB Formation Conglomerate/Arbuckle Effective Pay _____ Ft. Ticket No. J3297
Date 9-28-14 Sec. 18 Twp. 16S Range 16W County Rush State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,475 ft. to 3,554 ft. Total Depth 3,554 ft.
Packer Depth 3,470 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,475 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,478 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,551 ft. Recorder Number 13498 Cap. 6,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 52 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.4 Water Loss 9.4 cc. Drill Pipe Length 3,455 ft I.D. 3 1/2 in.
Chlorides 5,200 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 16' perf. w/63' drill pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Good blow increasing to 8 ins. No blow back during shut-in.
2nd Open: Fair, 4 in. blow. No blow back during shut-in.

Recovered 35 ft. of gas cut oil = .498050 bbls. (Grind out: 15%-gas; 85%-oil)
Recovered 60 ft. of mud & gas cut oil = .853800 bbls. (Grind out: 15%-gas; 55%-oil; 30%-mud)
Recovered 95 ft. of TOTAL FLUID = 1.351850 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 80%-oil; 20%-mud

Time Set Packer(s) 9:40 A.M. Time Started off Bottom 12:10 P.M. Maximum Temperature 110°
Initial Hydrostatic Pressure.....(A) 1705 P.S.I.
Initial Flow Period.....Minutes 30 (B) 24 P.S.I. to (C) 34 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 206 P.S.I.
Final Flow Period.....Minutes 45 (E) 41 P.S.I. to (F) 51 P.S.I.
Final Closed In Period.....Minutes 45 (G) 184 P.S.I.
Final Hydrostatic Pressure.....(H) 1663 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RICHLAN DRILLING	Job Number	J3297
Contact	RICK SCHREIBER	Representative	JOHN RIEDL
Well Name	STREMEL #1	Well Operator	RICHLAN DRILLING
Unique Well ID		Report Date	2014/09/28
Surface Location	S18/16S/16W	Prepared By	JOHN RIEDL
Field		Qualified By	BOB SCHREIBER

Test Information

Test Type	DST #3 CONVENTIONAL
Formation	CONG, ARBUCKLE
Well Fluid Type	
Test Purpose	

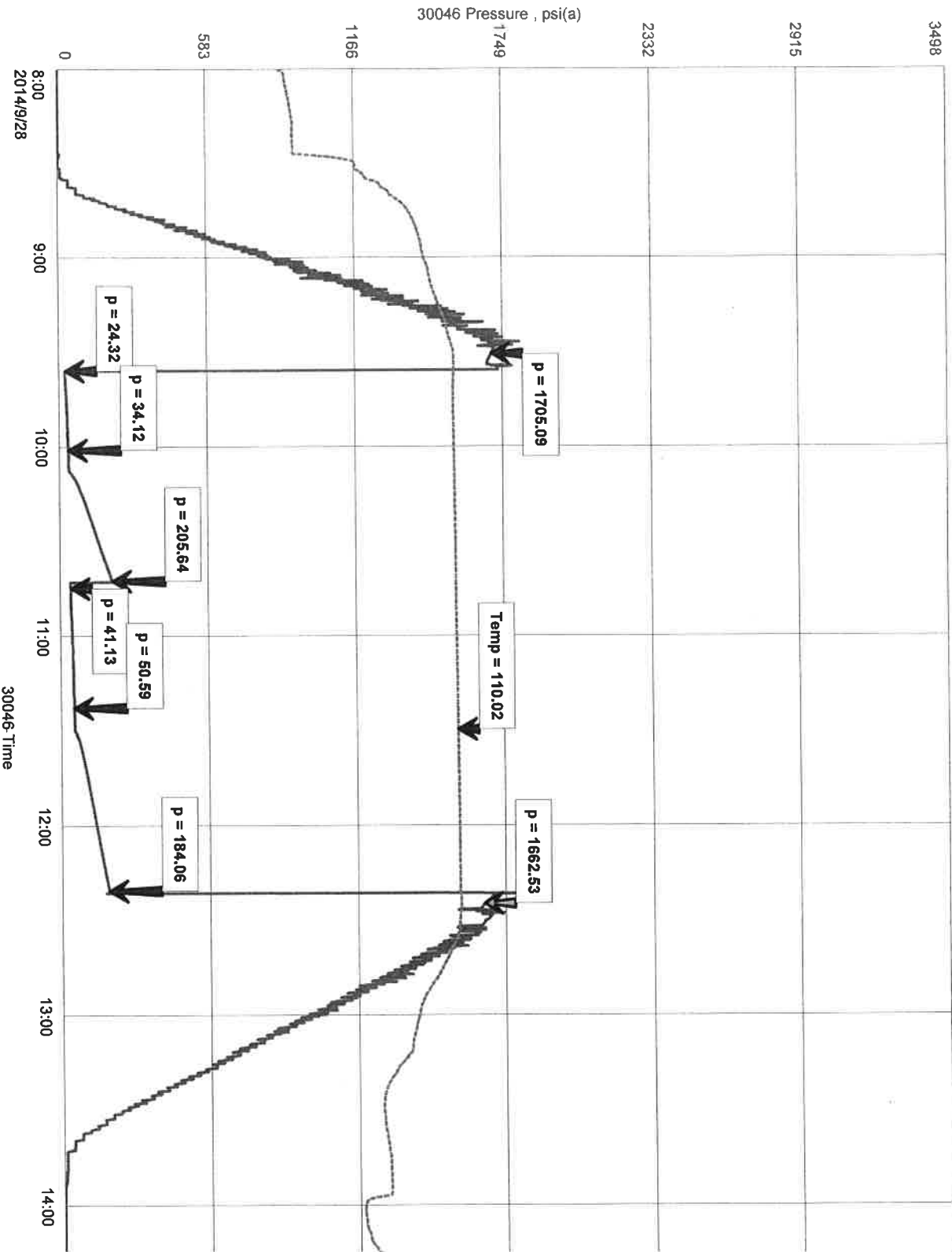
Start Test Date	2014/09/28	Start Test Time	08:00:00
Final Test Date	2014/09/28	Final Test Time	14:20:00

Test Recovery

RECOVERY: 35' GAS CUT OIL 15% GAS, 85% OIL
60' MUD+GAS CUT OIL 15% GAS, 55% OIL, 30% MUD
95' TOTAL FLUID

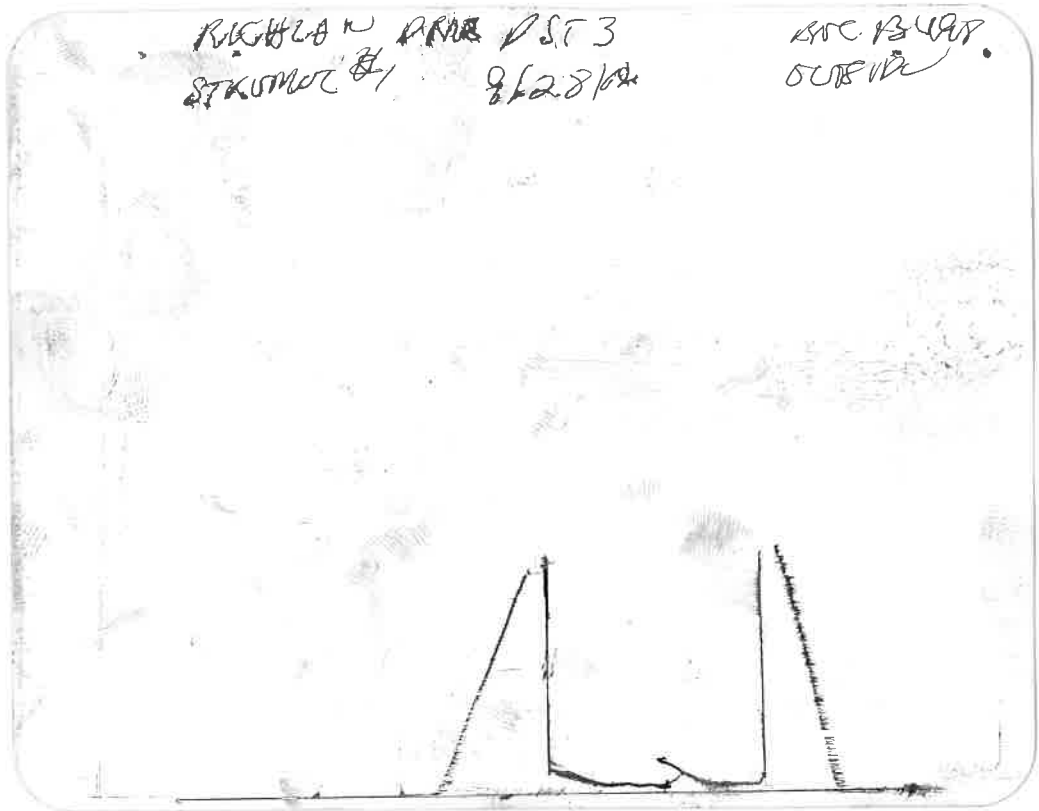
TOOL SAMPLE: 80% OIL, 20% MUD

STREMEL #1



RICKY LA W AREA DIST 3
ST. KUMOC #1 8/28/68

ASPC. B. 498.
OUBIA





DIAMOND TESTING, LLC
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (620) 653-7550 • (800) 542-7313
 STC/Stremel1dst2

Company Richlan Drilling Lease & Well No. Stremel No. 1
 Elevation 1964 KB Formation Lansing/Kansas City "I-K" Effective Pay Ft. Ticket No. J3296
 Date 9-27-14 Sec. 18 Twp. 16S Range 16W County Rush State Kansas
 Test Approved By Robert A. (Bob) Schreiber Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,388 ft. to 3,463 ft. Total Depth 3,463 ft
 Packer Depth 3,383 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 3,388 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,391 ft. Recorder Number 30046 Cap. 6,000 psi.
 Bottom Recorder Depth (Outside) 3,460 ft. Recorder Number 13498 Cap. 6,000 psi.
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length ft I.D. in.
 Mud Type Chemical Viscosity 55 Weight Pipe Length ft I.D. in.
 Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,362 ft I.D. 3 1/2 in.
 Chlorides 4,300 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 12' perf. w/63' drill pipe Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing to 11 ins. No blow back during shut-in.
 2nd Open: Strong blow increasing. Off bottom of bucket in 40 mins. No blow back during shut-in.

Recovered 150 ft. of gas in pipe
 Recovered 35 ft. of gas & oil cut mud = .498050 bbls. (Grind out: 10%-gas; 15%-oil; 75%-mud)
 Recovered 35 ft. of TOTAL FLUID = .498050 bbls.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks Tool Sample Grind Out: 75%-oil; 25%-mud

Time Set Packer(s) 2:00 P.M. Time Started off Bottom 4:30 P.M. Maximum Temperature 109°
 Initial Hydrostatic Pressure.....(A) 1649 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 19 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 217 P.S.I.
 Final Flow Period.....Minutes 45 (E) 20 P.S.I. to (F) 26 P.S.I.
 Final Closed In Period.....Minutes 45 (G) 291 P.S.I.
 Final Hydrostatic Pressure.....(H) 1626 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RICHLAN DRILLING	Job Number	J3296
Contact	RICK SCHREIBER	Representative	JOHN RIEDL
Well Name	STREMEL #1	Well Operator	RICHLAN DRILLING
Unique Well ID		Report Date	2014/09/27
Surface Location	S18/16S/16W	Prepared By	JOHN RIEDL
Field		Qualified By	BOB SCHREIBER

Test Information

Test Type	DST #2 CONVENTIONAL
Formation	LKC "I,J,K"
Well Fluid Type	
Test Purpose	

Start Test Date	2014/09/27	Start Test Time	13:00:00
Final Test Date	2014/09/27	Final Test Time	18:30:00

Test Recovery

RECOVERY: 150' GAS IN PIPE
35' GAS+OIL CUT MUD 10% GAS, 15% OIL, 75% MUD
35' TOTAL FLUID

TOOL SAMPLE: 75% OIL, 25% MUD

STREMEL #1

