

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	KISTLER KHS 1-29
Doc ID	1360383

Tops

Name	Top	Datum
B/ANH	2809	438
Stot	3777	-530
Heeb	4112	-865
Muncie	4294	-1047
Stark	4380	-1133
Marm	4472	-1225
LCher	4667	-1420
Miss	4800	-1553



PO BOX 604, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 51789
LOCATION Oakley KS
FOREMAN Jerry Yates

**WELD TICKET & TREATMENT REPORT
CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-29-17	7158	Kistler K H5 1-29	29	9s	34w	Thomas
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER		TRUCK #	
CITY			DRIVER		TRUCK #	
STATE			DRIVER		TRUCK #	
ZIP CODE			DRIVER		TRUCK #	

JOB TYPE Surface HOLE SIZE 17 1/2 HOLE DEPTH 306 CASING SIZE & WEIGHT 13 3/8 48"
 CASING DEPTH 303 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 44 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting - rig up on LD break circulation with rig tree mix
300 sks surface blend II (com 3% calcium chloride 20% coal) wash & padislate
with 44 1/2 bbl fresh water - shut in. Circulated approx 4 bbl to port

Cement did
circulate

Thank you
- Jerry Yates

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CEO 451	1	PUMP CHARGE	1150.00	1150.00
CE0002	20	MILEAGE	7.15	143.00
CE0711	14.1	ton mileage delivery (min)	660.00	660.00
CE5871	300 sks	surface blend II	23.00	6900.00
			Subtotal	8853.00
			-35%	3098.55
			Subtotal	5754.45
			SALES TAX	
			ESTIMATED TOTAL	

RAVIN 3737 AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



8372
8270

TICKET NUMBER 51848
LOCATION Oakley, KS
FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

WELD TICKET & TREATMENT REPORT
CEMENT

810510 vis

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-16-17	7158	Kistler KHS 1-29	29	95	34W	Thomas	
CUSTOMER <u>Raymond Oil</u>		Mailing Address <u>4074 W 10th St J.N Sinto</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				753	Trevis W		
CITY		STATE		566	Seth O		
ZIP CODE					Steven O		

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 4900' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig upon to D drilling plus as ordered
1st plug 50 sx @ 2800'
2nd plug 100 sx @ 1825'
3rd plug 75 sx @ 358'
4th plug 20 sx @ 40' 275 sx 60/40 408 1/4" # Muscal
RH 30 sx

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451 ✓	1	✓ PUMP CHARGE	1900.00	1900.00
CE0002 ✓	20	✓ MILEAGE	7.15	143.00
CE0711 ✓	11.96 TONS	✓ Ton mix per delivery	660.00	660.00
CC5824 ✓	275 sx	✓ White-Weight blend	16.00	4400.00
			Subtotal	7103.00
			Subtotal	7103.00
		less 35% discount		2486.05
			Subtotal	4616.95
			SALES TAX	228.80
			ESTIMATED TOTAL	4845.75

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **RAYMOND OIL COMPANY, INC.**

ELEVATIONS

LEASE # **1-29** KISTLER KHS

KB **3247**

FIELD **Wildcat**

DF

LOCATION **129' FNL & 2596' FWL**

GI **3242**

SEC **29** TWP **9s** RGE **34W**

COUNTY **THOMAS** STATE **KANSAS**

Measurements Are All
From **3247 KB**

CONTRACTOR **L. D. DRILLING, INC.**

CASING
SURFACE 13 3/8" @ 303'

SPUD **5-29-17** CONDP **6-16-17**

PRODUCTION

RTD **4900** LTD **4900**

ELECTRICAL SURVEYS
DUAL IND, DEN-S-N.

MUD UP **3503** TYPE MUD **CHEMICAL**

SAMPLES SAVED FROM

3500 TO 4900

DRILLING TIME KEPT FROM

3500 TO 4900

SAMPLES EXAMINED FROM

3500 TO 4900

GEOLOGICAL SUPERVISION FROM

3700 TO 4900

GEOLOGIST ON WELL

Kim B. Shoemaker

FORMATION TOPS

LOG

SAMPLES

ANHYDRITE

2780+467

2784+463

B/ANH.

2809+438

2813+434

STOTLER

3778-531

3780-533

HEEBNER

4112-865

4114-867

LANSING

4153-906

4155-908

STARK

4380-1133

4381-1134

MARMATON

4472-1225

4472-1225

FORT SCOTT

4637-1390

4634-1387

CHEROKEE

4666-1419

4664-1417

MISSISSIPPI

4800-1553

4794-1547

29

REMARKS

5-29-17 SPUD 6-12 @ 4430'
 5-30 @ 306' 6-13 @ 4630'
 5-31 @ 1055' 6-14 @ 4715'
 Down Rain 6-15 @ 4810'
 6-4 @ 1558' 6-16 @ 4900'
 6-5 @ 2131'
 6-6 @ 3030'
 6-7 @ 3540'
 6-8 @ 3820'
 6-9 @ 4251' stuck
 6-10 @ 4251'
 6-11 @ 4375'

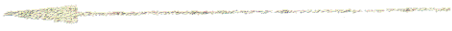
API: 15-193-20924

LEGEND



DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Increases



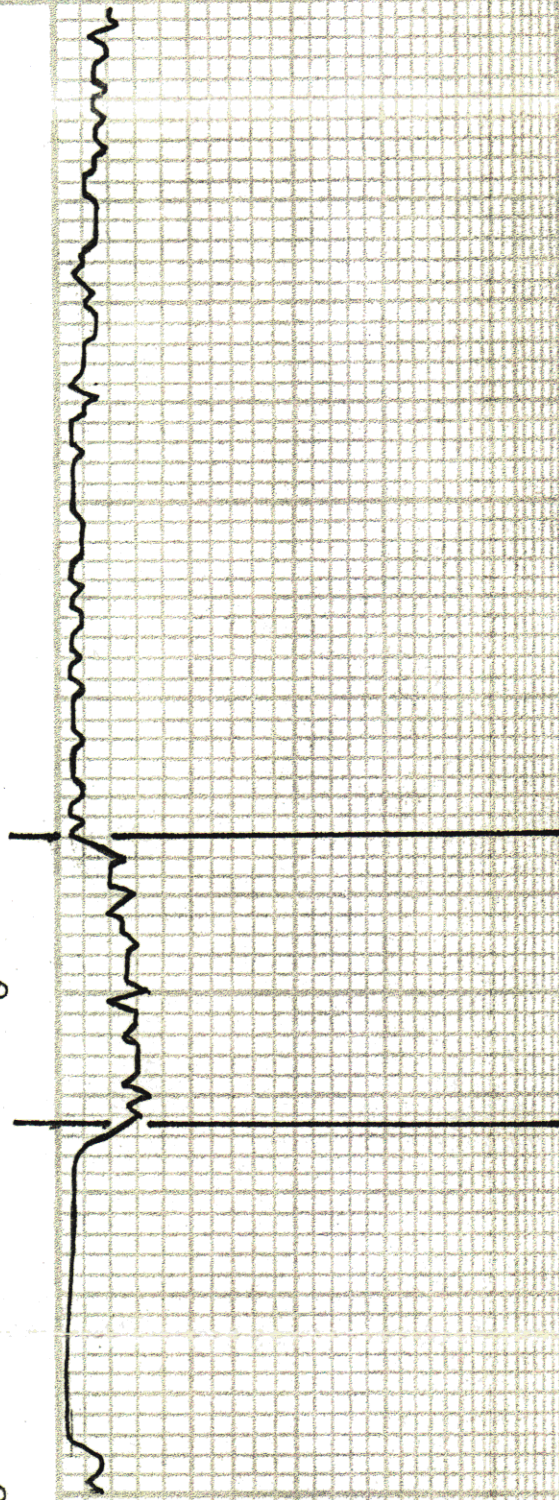
5" 10" 15" 20" 25"

LITHOLOGY

DEPTH
2700

SAMPLE DESCRIPTIONS

REMARKS



ANHYDRITE 2784+463

2800

S/ ANK. 2813+434

2850

3500

SAMPLES ARE LAGGED

Rd Sdy sh.

ls. wt. Pak St. Foss. S. A

sh. Rd Silty.

Rd. LG. Sdy sh.

sh. Rd Silty.

3600

Dol. In Fxla Svc.

A LG.

ls. LG. Vsh chly.

ls. wt. V Fxla Svc.

ls. LG. Vsh Foss.

VIS: 46

WT: 8.7

WL: 8.8

CWL: 6300

sh. Rd Sdy.

sh. LG.

WABAUNSEE 3691-444

3700

ls. Bl. Sl. Foss.

sh. Bl.

ls. G. In Sl. Foss Sl. Calcitic.

ls. In G. Sl. Foss.

ls. In G. VSl. A

ls. L.G. Sl. Foss.

sh. L. Blue. G.

STOTLER 3780-533

3800

ls. In G. Sl. Foss Sl. Calcitic

ls. G. Sl. Foss.

ls. wt. Sl. Foss Sl. Ch. H.

ls. wt. Sl. Foss.

sh. G.

ls. In Sl. Foss.

ls. In G. VSl. Foss.

sh. Bl.

HOWARD 3857-610

3900

ls. wh. G. Foss Sl. Ch. H.

sh. G. G.

ls. In wt. Sl. Foss Sl. A

sh. Blue. G.

LS. wt. Foss. Sil. Chlg.

LS. T. wt. Sil. Foss. Sil. A

LS. wt. Foss. V. Sil. Chlg.

LS. T. wt. Sil. Foss. Sil. G. leitic

Sh. Rd. Sil.

LS. wt. Foss. Sil. A

9

LS. wt. Sil. Foss. Foss. 'Vuggy'

4000

LS. wt. Sil. Foss. Sil. Chlg.

Sh. Dk. Sil. Foss.

Sh. Sil. Rd.

LS. wt. Foss. Sil. 'Vuggy'

LS. Sil. Rd.

Sh. Rd. Pat.

LS. wt. Sil. Foss. Sil. A

Sh. Dk. Sil. Blk.

VIS: 48
WT: 9.1
WG: 9.6
CHL: 7600

LS. Sil. V. Sil. Chlg.

LS. wt. Foss. Sil. Foss.

4100

LS. wt. Foss. V. Sil. Chlg.

Sh. Blue Gr.

Sh. Lt Blue Gr.

TORONTO 4138 - 891

LS. wt. Sh. Foss. Sh. A. P. No. of Blk. ad. Str. = Hvy. Fr. No Flour No odor

Sh. Rd

LANSING 4155-908

LS. Thwt. ooc. Sh. ooc. Sh. Chlly.

LS. wt. Lt. G. VSh. Foss. Sh. A

Sh. Lt Blue

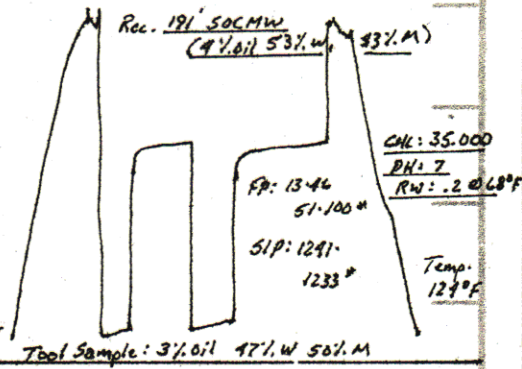
Sh. Rd

LS. wt. Sh. Foss. Foss. Sh. A

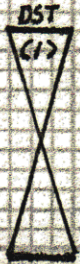
Stuck coming out for DST (1)
Spotted 80 Barrel oil, Freed up.

DST (1) 4228-4251

1st OPEN: Blow out to 7" BB: 1/2"
2nd OPEN: " " " 8" BB: 1/4"
30-60-45-90



4200



6-9-17	6-10-17
VIS: 51	VIS: 56
WT: 9.1	WT: 8.9
WL: 7.2	WL: 10.9
CHL: 5800	CHL: 9000

Sh. Rd. Lorange

LS. Th. Lt. G. Foss. ooc. VSh. Chlly.

LS. Thwt. Sh. Foss. Dol. wt. Frsh. Suc.

LS. G. VSh. Foss.

Sh. Chlly.

LS. wt. Foss. Fr. P. No. of Dr. Bl. Blk. Solid Str. SSFO No Flour No odor

Sh. G. y.

LS. wt. Lt. G. Sh. Foss. ooc.

LS. Thwt. Sh. Foss. Sh. A

LS. wt. Foss. Sh. ooc. Sh. A

LS. wt. Frsh. Cut

LS. Th. wt. VSh. Foss. VSh. Chlly.

MUNCIE CREEK 4296-1049

Sh. Blk. Carb. LS. Bl. VSh. Foss.

Sh. Blue G.

LS. wt. Sh. Foss. Sh. A

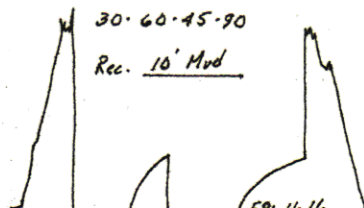
LS. G. Th.

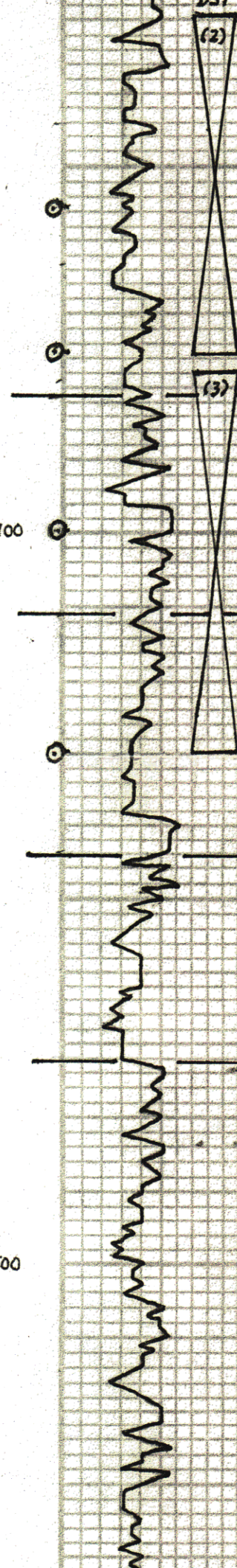
LS. wt. Sh. Foss. Sh. Chlly. VSh. Calcitic

4300

DST (2) 4329-4375

1st OPEN: Built to 3/4" BB: None
2nd OPEN: Surface Blow BB: "





(2)

(3)

Sh dk G. Blk
 LS. Bl. DK Bl. VSh. Foss
 Sh. Blue G.
 LS. wt. Th. Sil. ool. ool. VSh. Δ Fr. P. V. sil
 Bl. Lt. Bl. Sil. SSp. Dull Flow
 No odor
 Sh. Lt. G.
 LS. wt. ool. Sil. ool. P. V. sil
 DK Bl. Bl. Sil. SSp. Dull Flow No odor
 VIS: 53 WT: 8.9
 NL: 7.2 CML: 10200
 LS. Th. G. Dk.

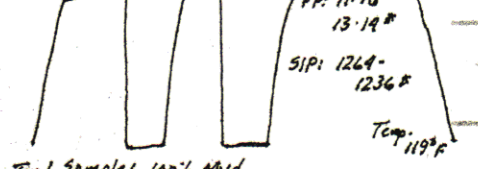
STARK 4381-1134
 Sh. dk G.
 Sh.
 LS. wt. Th. ool. Foss Fr. P. V. sil
 Lt. Bl. Sil. SSp. Fr. Flow Feeder
 Δ G.
 LS. Th. G. VSh. Foss.

HUSHPUCKNEY 4411-1161
 Sh. dk G.
 Sh. G.
 LS. Th. wt. VSh. Foss Sil. Chk.
 LS. Th. Bl. Sil. Foss Sil. Δ
 LS. Lt. G. VSh. Δ VSh. Chk.

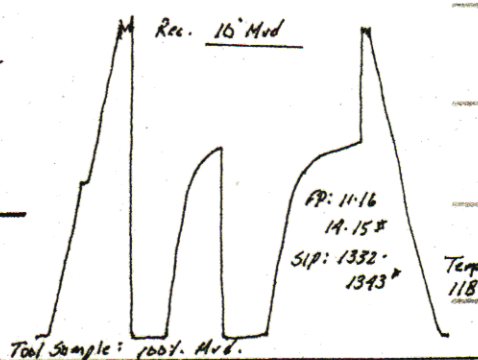
B/KC 4444-1197
 Sh. Rd. silty.
 Sh. Lt. G. Silty. Sdy
 Lt. Lt. G. silty.
 Sh. silty. silty. Lt. G.

MARMATON 4472-1225
 LS. Th. G. VSh. Foss Sil. Δ
 Δ Orange
 LS. Th. Sil. Foss Sil. Δ
 Sh. Rd. Lt. G.
 LS. Lt. G. w/ sh. Incl.

LS. wt. Orange w/ Rd. sh. Sil. Foss.
 LS. wt. Lt. G. VSh. Foss Sil. Δ
 Sh. Rd. Lt. G. Sdy. LS. silty. Rd. Orange



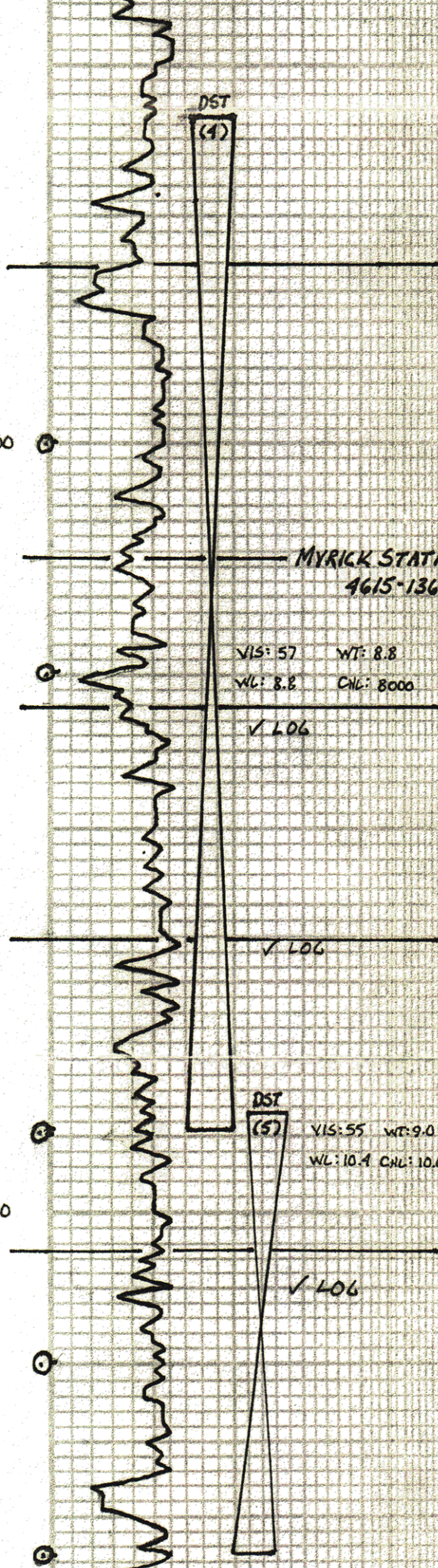
Tool Sample: 100% Mud
DST (3) 4378-4430
 1st OPEN: Blow built to 1" BB: None
 2nd OPEN: Surface Blow DB: "
 30.60-45.90



Tool Sample: 100% Mud.

4400

4500



LS. Tan wt. Sli. Foss. Sli. A
 Δ wt. Ltg.
 LS. Tan wt. Sli. Foss. Sli. Chlly.
 Sh. DEg. Blk
 Sh. Ltg.
PAWNEE 4576-1329

LS. Tan wt. ool. V. Sli. ool. chlly.
 LS. wt. Sli. Foss. Sli. A
 Δ wt. Ltg.
 LS. Tan V. Sli. Foss. V. Sli. A
 Sh. Blk Carb.
 LS. DE Bl. Dns.
 Sh.

**MYRICK STATION
 4615-1368**

VIS: 57 WT: 8.8
 WL: 8.8 CML: 8000

LS. Gy. Foss. Calcitic Dns.
 Δ DE Bl. Gy. LS. Tan V. Sli. Foss. V. Sli. Chlly
 Sh. Blk Carb.
FORT SCOTT 4634-1387

✓ LOG

LS. wt. Sli. Foss. Sli. Chlly. V. Sli. A
 LS. Gy. V. Sli. Foss. V. Sli. A V. Sli. Calcitic.

CHEROKEE 4664-1917

✓ LOG

Sh. Blk Carb.
 LS. Tan gy. ool. Sli. A Dns.
 LS. Tan gy. ool. Sli. A

DST
 (5)

VIS: 55 WT: 9.0
 WL: 10.1 CML: 10,000

LS. Gy. Bl. V. Sli. Foss.
 Sh. DEg.
 Sh. Gy. DEg.

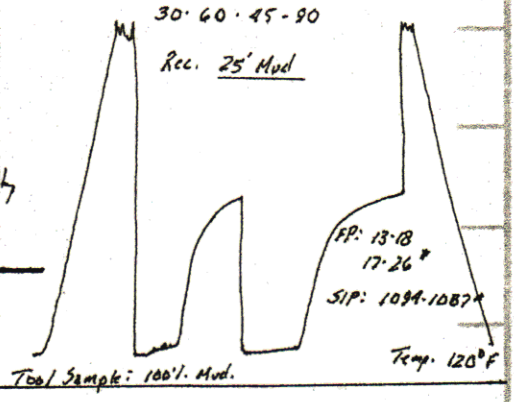
JOHNSON 4705-1958

✓ LOG

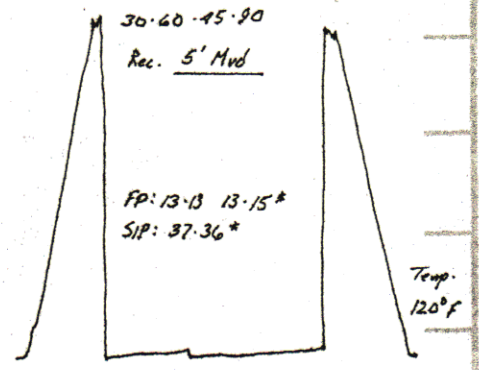
LS. Tan Gy. Sli. Foss. Sli. A V. Sli. Calcitic
 Pl. V. gy. Bl. DE Bl. Str. FSD. No Flow
 No Ool.
 LS. Tan Ltg. V. Sli. Foss. V. Sli. A
 Δ Bl. Gy.
 LS. wt. V. Sli. Foss. Sli. Chlly. V. Sli. Calcitic
 LS. Ltg. Sli. Foss. Sli. A Pl. V. gy.
 Hvy. DE Bl. Str. Hvy. Fd. No Flow No Ool.
 Sh. Blue-Gy. Sdy.
 LS. LS. Ltg. wt. Sdy.

Sh. Yellow Gr.

DST (4) 4557-4689
 1ST OPEN: Blow built to 1/2"
 2ND OPEN: No Blow



DST (5) 4687-4715
 1ST OPEN: Blow built to 1/4"
 2ND OPEN: No Blow



VIS: 57 WT: 9.1
WL: 8.0 CHL: 8500

Sh. Tng. Yellow Gr.

Δ Yellow weathered Sdy sh. Ltl. Fr. Hd. w. Sd. Rd

Sh. Tng. Yellow Gr.

Δ wt. sil. Foss. Fresh Lut

MISSISSIPPI 4799

-1547

LS. G. Br. Fresh Dns. w/ Tr. Glau.

Sd. Sdy sh. Blue Gr. Fr. Hd. Gr. Sub. Rd

LS. Tn. G. Sdy w/ Co. Gr. Rd. Sub. Rd. Sd

LS. Tn. ool. Sil. Chalky.

LS. Tn. wt. Sdy. w/ Co. Gr. Rd. Sub. Rd.

LS. wt. Tn. ool. Sdy.

Δ wt.

LS. Tn. Lt. Br. Sil. Δ

Δ wt. Ltl.

DOLOMITE SPERGEN 4870-1623

Dol. Br. Fresh Svc. w/ Tr. Glau.

Dol. Tn. G. Fresh Svc.

Δ wt. Orange

Dol. Tn. G. Fresh Svc.

4800

V LOG

4900

RTD 4900-1653



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Kistler KHS 1-28 Dst 1

TIME ON: 22:49 June 9
TIME OFF: 08:08 June 10

Company Raymond Oil Company Inc Lease & Well No. Kistler KHS 1-28
Contractor LD Drilling Inc Charge to Raymond Oil Company Inc
Elevation 3247 KB Formation _____ Lan 90 zone Effective Pay _____ Ft. Ticket No. RR281
Date June-9-2017 Sec. 29 Twp. _____ 9 S Range _____ 34 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Ricky Ray

Formation Test No. 1 Interval Tested from 4228 ft. to 4251 ft. Total Depth 4251 ft.
Packer Depth 4223 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4228 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4216 ft. Recorder Number _____ 0062 Cap. _____ 5000 P.S.I.
Bottom Recorder Depth (Outside) 4232 ft. Recorder Number _____ 8471 Cap. _____ 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 51 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 5800 P.P.M. Drill Pipe Length 4196 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? na Reversed Out na Anchor Length 23 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: WSB (Built to 7 inches in 30 mins) 1/2 BB
2nd Open: WSB (Built to 8 inches in 45 mins) 1/4 BB

Recovered 191 ft. of SLOWW 4% O 53 % W 43% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____ PH: 7
Recovered _____ ft. of _____ Chlorides: 35,000 PPM Price Job _____
Recovered _____ ft. of _____ RW .2 @ 68 Deg Other Charges _____
Remarks: Tool Sample: 3% O 47 % W 50% M Insurance _____
Oil Found in Fluid Samples may be caused by oil spot on short trip. Total _____

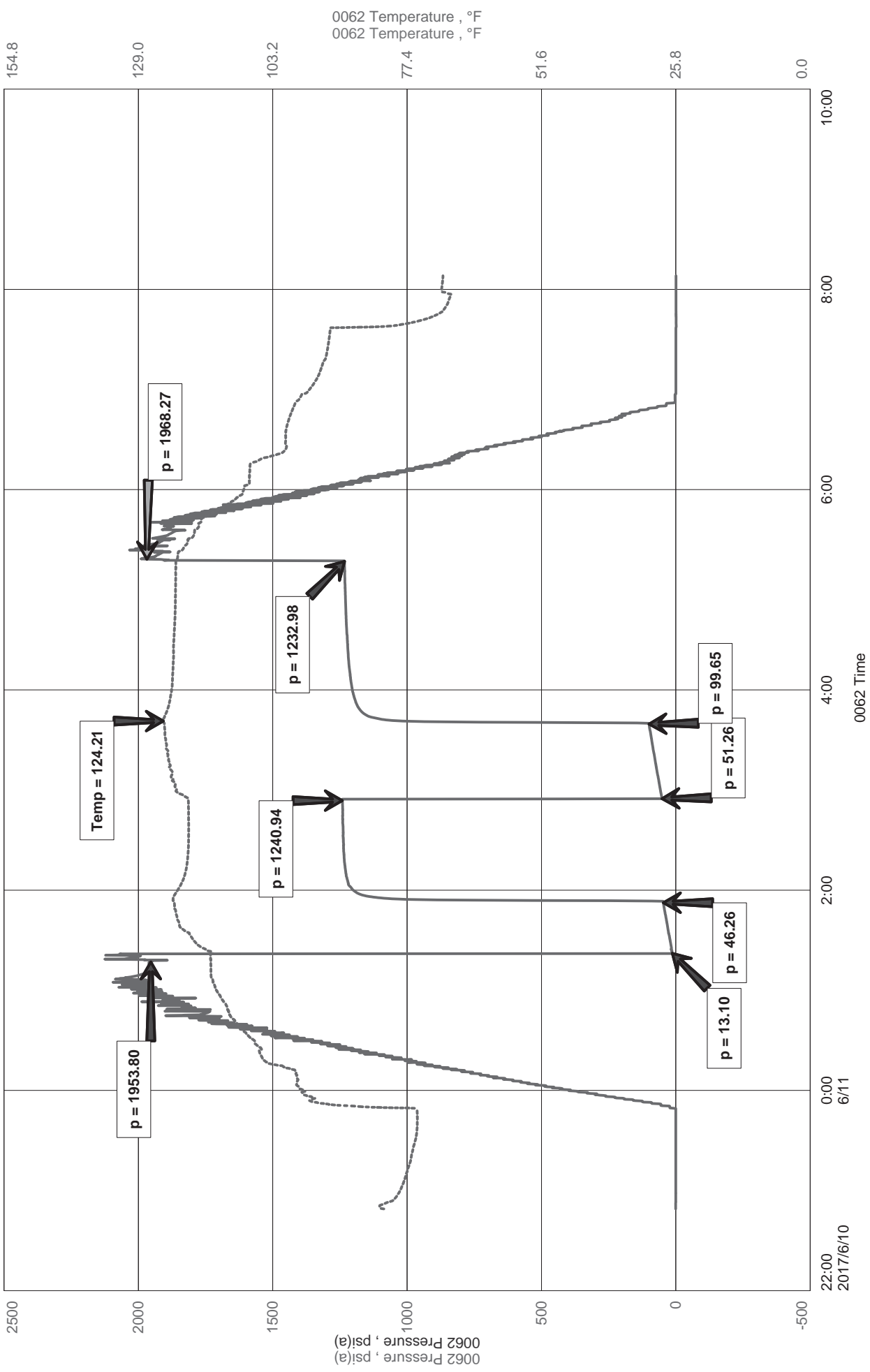
Time Set Packer(s) 1:23 June 10 AM A.M. Time Started Off Bottom 5:08 June 10 AM P.M. Maximum Temperature 124
Initial Hydrostatic Pressure..... (A) 1954 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1241 P.S.I.
Final Flow Period..... Minutes 45 (E) 51 P.S.I. to (F) 100 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1233 P.S.I.
Final Hydrostatic Pressure..... (H) 1968 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.

Raymond Oil Company Inc
 DST 1 Lans 90 zone (4228-4251)
 Start Test Date: 2017/06/09
 Final Test Date: 2017/06/10

Kistler KHS 1-29
 Formation: DST 1 Lans 90 zone (4228-4251)
 Pool: Wildcat
 Job Number: RR281

Kistler KHS 1-29





Diamond Testing LLC
 P.O. Box 157
 HoisingtonKS 67544

Ricky Ray - Tester
(620) 617-7261

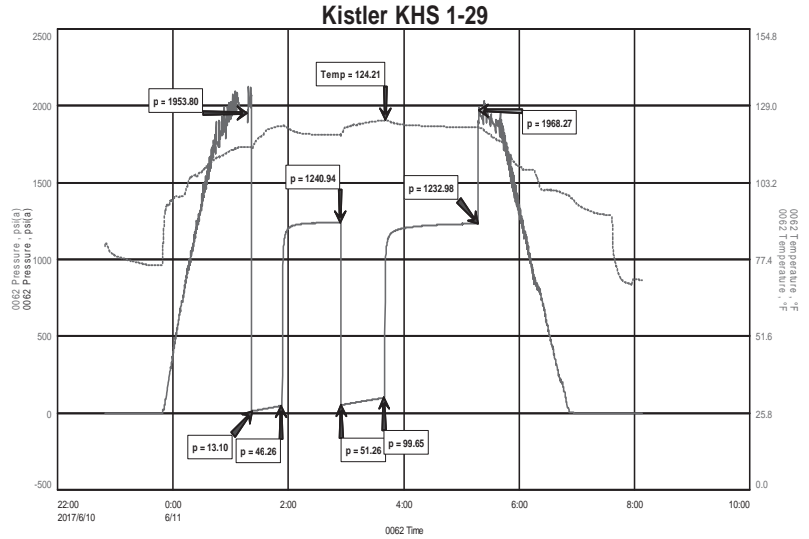
Wellsite Report

General Information

Company Name	Raymond Oil Company Inc
Contact	Ted Mchenry
Well Operator	Raymond Oil Company Inc
Well Name	Kistler KHS 1-29
Surface Location	Sec: 29-9s-34w (Thomas County)
Field	wildcat
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

Test Information

Job Number	RR281
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	DST 1 Lans 90 zone (4228-4251)
Start Test Date	2017/06/09 YYYY/MM/DD
Start Test Time	22:49:00 HH:mm:ss
Final Test Date	2017/06/10 YYYY/MM/DD
Final Test Time	08:08:00 HH:mm:ss



Test Results

Recovery:

191' SLOWW 4% O 53% W 43% M

Tool Sample: 3% O 47% W 50% M

PH: 7
 Chlorides: 35,000 PPM
 RW: .2 @ 68 Deg

Remarks: Oil Found in Fluid Samples may be cause by the Oil Spot on Short Trip.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Kistler KHS 1-28 Dst 2

TIME ON: 03:37
TIME OFF: 13:17

Company Raymond Oil Company Inc Lease & Well No. Kistler KHS 1-28
Contractor LD Drilling Inc Charge to Raymond Oil Company Inc
Elevation 3247 KB Formation L/KC 160-180 "I-J" Effective Pay _____ Ft. Ticket No. RR282
Date June-11-2017 Sec. 29 Twp. _____ 9 S Range _____ 34 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Ricky Ray

Formation Test No. 2 Interval Tested from 4329 ft. to 4375 ft. Total Depth 4375 ft.
Packer Depth 4324 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4329 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4322 ft. Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4366 ft. Recorder Number 8471 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 10,200 P.P.M. Drill Pipe Length 4297 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? na Reversed Out na Anchor Length 46A (15P) 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: WSB (Built to 3/4" in 30 mins) NOBB
2nd Open: WSB (Blow Didnt Build) NOBB

Recovered <u>10</u> ft. of <u>M</u>	<u>100% M</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>Tool Sample: 100% M</u>	
	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 7:05 AM A.M. P.M. Time Started Off Bottom 10:50 AM A.M. P.M. Maximum Temperature 119

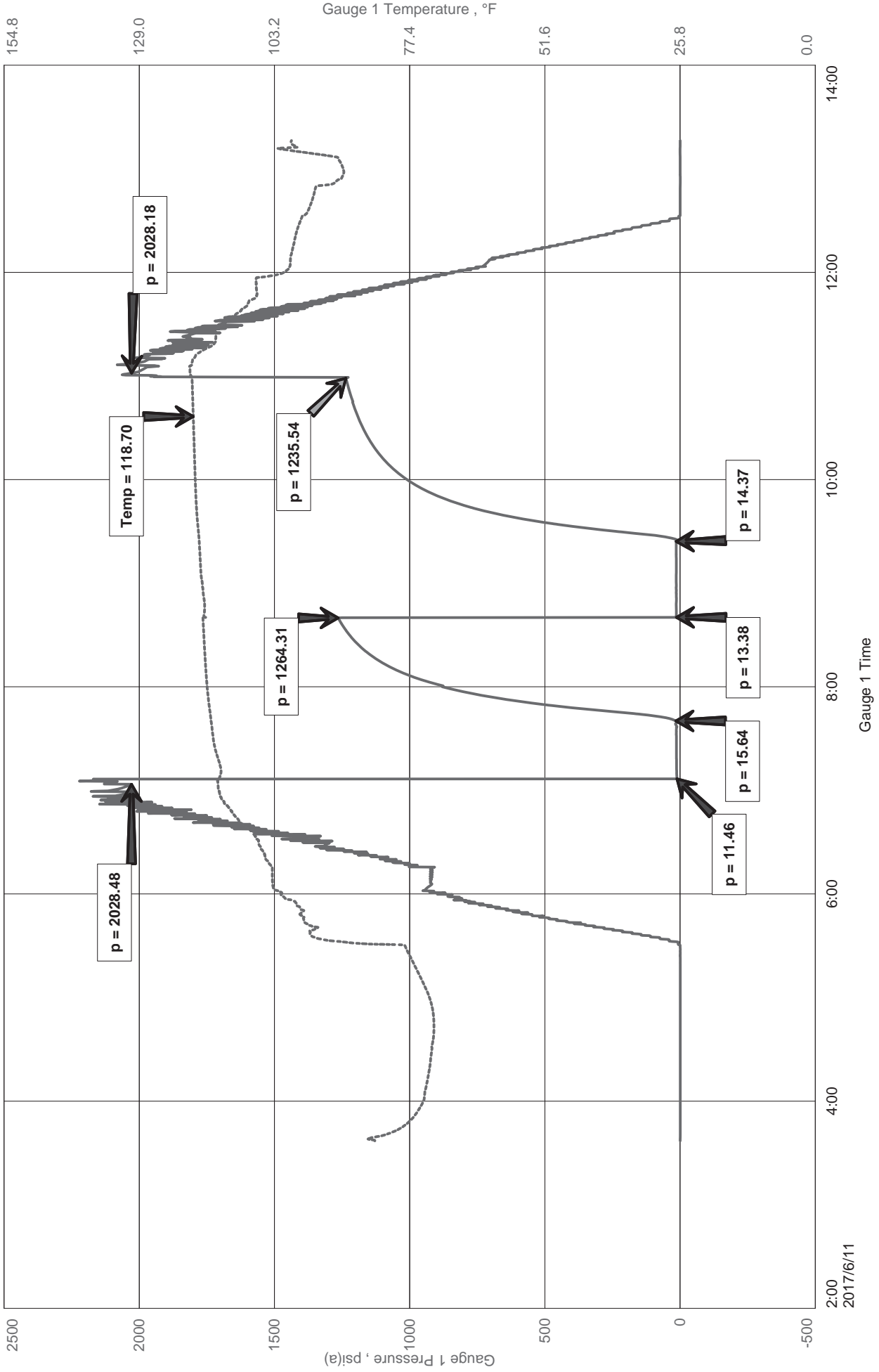
Initial Hydrostatic Pressure..... (A) 2028 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1264 P.S.I.
Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 14 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1236 P.S.I.
Final Hydrostatic Pressure..... (H) 2028 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.

Raymond Oil Company Inc
Dst 2 L/KC 160-180 I'J (4329-4375)
Start Test Date: 2017/06/11
Final Test Date: 2017/06/11

Kistler KHS 1-28
Formation: Dst 2 L/KC 160-180 I'J (4329-4375)
Pool: Wildcat
Job Number: RR282

Kistler KHS 1-28





Diamond Testing LLC
 P.O. Box 157
 Hoisington KS 67544

Ricky Ray - Tester
(620) 617-7261

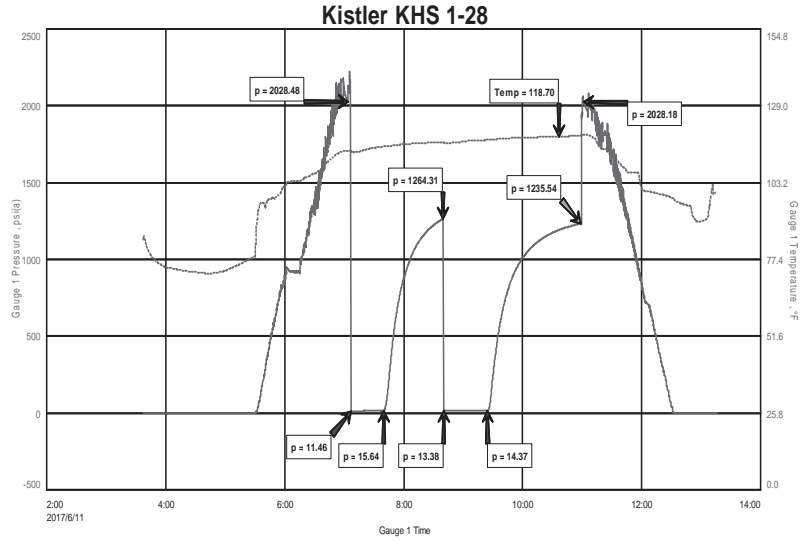
Wellsite Report

General Information

Company Name	Raymond Oil Company Inc
Contact	Ted Mchenry
Well Operator	Raymond Oil Company Inc
Well Name	Kistler KHS 1-28
Surface Location	Sec: 29-9s-34w (Thomas County)
Field	Wildcat
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	Gauge 1

Test Information

Job Number	RR282
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 L/KC 160-180 I'J (4329-4375)
Start Test Date	2017/06/11 YYYY/MM/DD
Start Test Time	03:37:00 HH:mm:ss
Final Test Date	2017/06/11 YYYY/MM/DD
Final Test Time	13:17:00 HH:mm:ss



Test Results

Recovery:

10' M 100% M

Tool Sample: 100% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Kistler KHS 1-28 Dst 3

TIME ON: 01:10
TIME OFF: 10:28

Company Raymond Oil Company Inc Lease & Well No. Kistler KHS 1-28
Contractor LD Drilling Inc Charge to Raymond Oil Company Inc
Elevation 3247 KB Formation L/KC 200-220 "K'L" Effective Pay _____ Ft. Ticket No. RR283
Date June-12-2017 Sec. 29 Twp. _____ 9 S Range _____ 34 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Ricky Ray

Formation Test No. 3 Interval Tested from 4378 ft. to 4430 ft. Total Depth 4430 ft.
Packer Depth 4373 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4378 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4366 ft. Recorder Number _____ 0062 Cap. _____ 5000 P.S.I.
Bottom Recorder Depth (Outside) 4415 ft. Recorder Number _____ 8471 Cap. _____ 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 10,200 P.P.M. Drill Pipe Length 4346 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? na Reversed Out na Anchor Length 52 (21P) 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: WSB (Built to 1" in 30 mins) WBB
2nd Open: WSB (Blow Didnt Build) NOBB

Recovered 10 ft. of M 100% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample: 100% M</u>	Insurance
	Total

Time Set Packer(s) 4:29 AM A.M. P.M. Time Started Off Bottom 8:14 AM A.M. P.M. Maximum Temperature 118

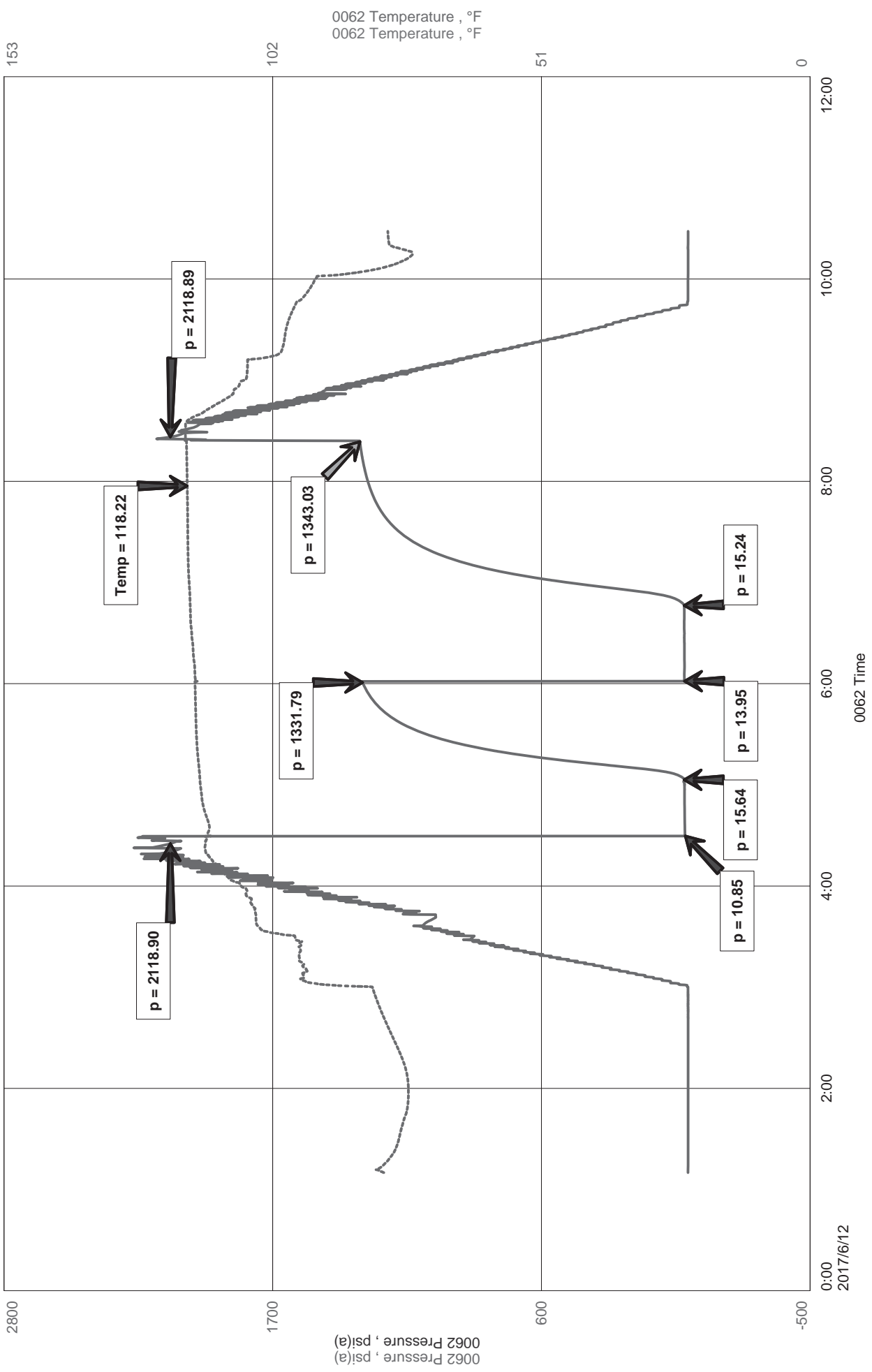
Initial Hydrostatic Pressure..... (A) 2119 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1332 P.S.I.
Final Flow Period..... Minutes 45 (E) 14 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1343 P.S.I.
Final Hydrostatic Pressure..... (H) 2119 P.S.I.

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Raymond Oil Company Inc
Dst 3 200-220 "K-L" (4378-4430)
Start Test Date: 2017/06/12
Final Test Date: 2017/06/12

Kistler KHS 1-28
Formation: Dst 3 200-220 "K-L" (4378-4430)
Pool: wildcat
Job Number: RR283

Kistler KHS 1-28





Diamond Testing LLC
 P.O. Box 157
 HoisingtonKS 67544

Ricky Ray - Tester
 (620) 617-7261

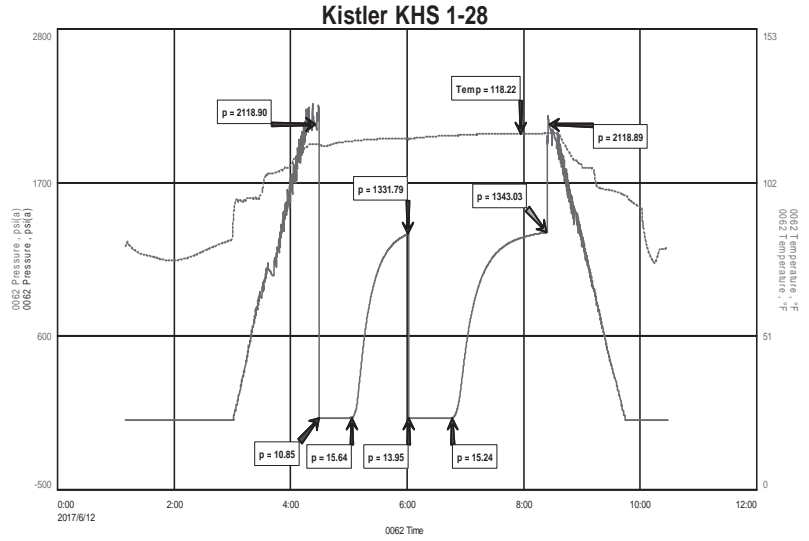
Wellsite Report

General Information

Company Name	Raymond Oil Company Inc
Contact	Ted Mcheryn
Well Operator	Raymond Oil Company Inc
Well Name	Kistler KHS 1-28
Surface Location	Sec: 29-9s-34w (Stafford County)
Field	Wildcat
Well Type	Vertical
Pool	wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

Test Information

Job Number	RR283
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 3 200-220 "K-L" (4378-4430)
Start Test Date	2017/06/12 YYYY/MM/DD
Start Test Time	01:10:00 HH:mm:ss
Final Test Date	2017/06/12 YYYY/MM/DD
Final Test Time	10:28:00 HH:mm:ss



Test Results

Recovery:

10' M 100% M

Tool Sample: 100% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Kistler KHS 1-28 Dst 4

TIME ON: 17:40 June 13
TIME OFF: 01:48 June 14

Company Raymond Oil Company Inc Lease & Well No. Kistler KHS 1-28
Contractor LD Drilling Inc Charge to Raymond Oil Company Inc
Elevation 3247 KB Formation Pawnee/Chero Effective Pay _____ Ft. Ticket No. RR284
Date June-13-2017 Sec. 29 Twp. 9 S Range 34 W County Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Ricky Ray

Formation Test No. 4 Interval Tested from 4557 ft. to 4689 ft. Total Depth 4689 ft.
Packer Depth 4552 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4557 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4545 ft. Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4657 ft. Recorder Number 8471 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8000 P.P.M. Drill Pipe Length 4525 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? na Reversed Out na Anchor Length 132 (38P) 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: WSB (Built to 1/2" in 30 mins) WBB
2nd Open: NO BLOW

Recovered <u>25</u> ft. of <u>M</u>	<u>100%</u>	<u>M</u>
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Remarks: <u>Tool Sample: 100% M</u>		
		Price Job
		Other Charges
		Insurance
		Total

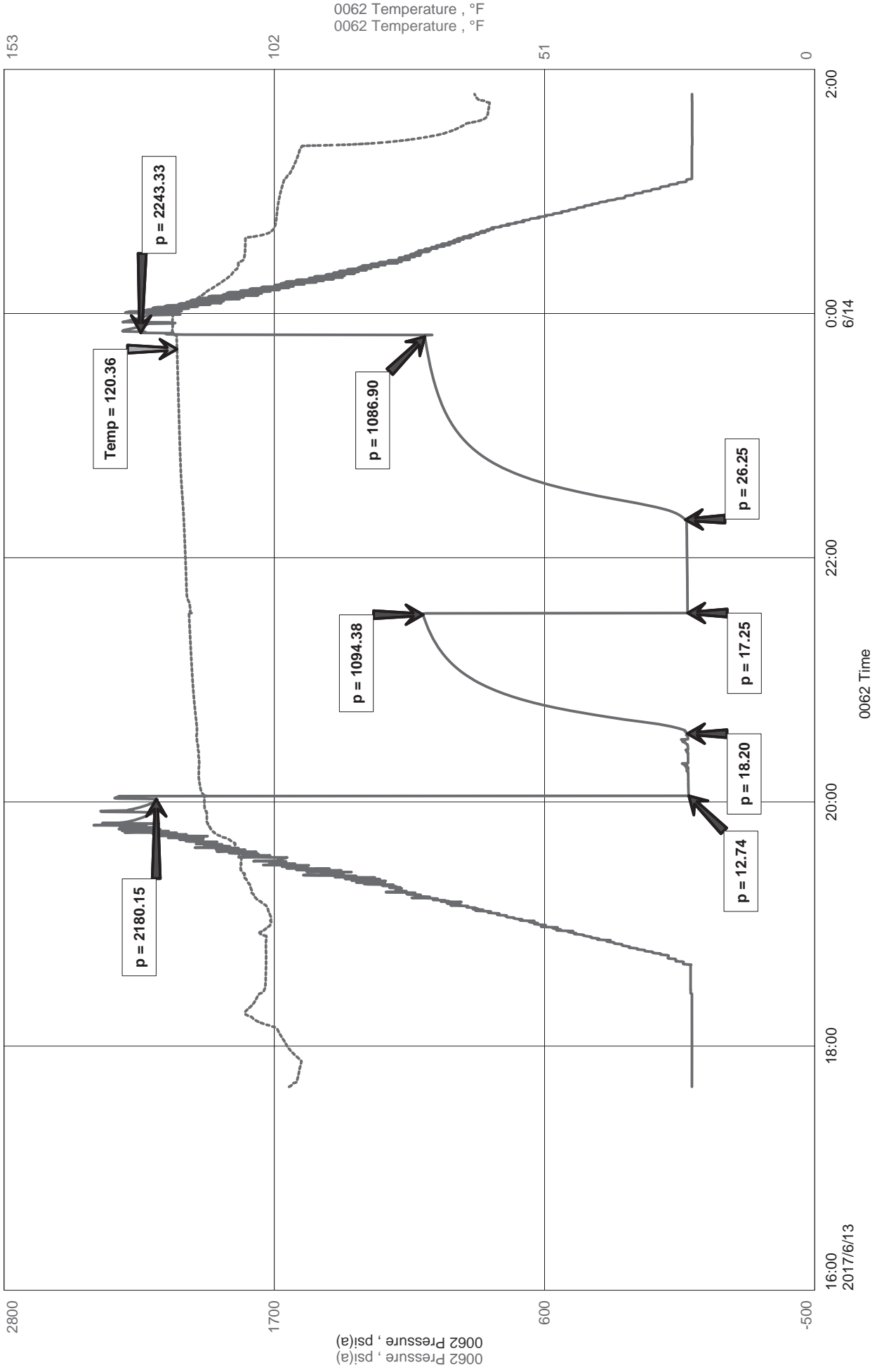
Time Set Packer(s) 8:02 PM A.M. P.M. Time Started Off Bottom 11:47 PM A.M. P.M. Maximum Temperature 120
Initial Hydrostatic Pressure..... (A) 2180 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 18 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1094 P.S.I.
Final Flow Period..... Minutes 45 (E) 17 P.S.I. to (F) 26 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1087 P.S.I.
Final Hydrostatic Pressure..... (H) 2243 P.S.I.

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Raymond Oil Company Inc
Dst 4 Pawnee/ Chero (4557-4689)
Start Test Date: 2017/06/13
Final Test Date: 2017/06/14

Kistler KHS 1-28
Formation: Dst 4 Pawnee/ Chero (4557-4689)
Pool: Wildcat
Job Number: RR284

Kistler KHS 1-28





Diamond Testing LLC
 P.O. Box 157
 HoisingtonKS 67544

Ricky Ray - Tester
(620) 617-7261

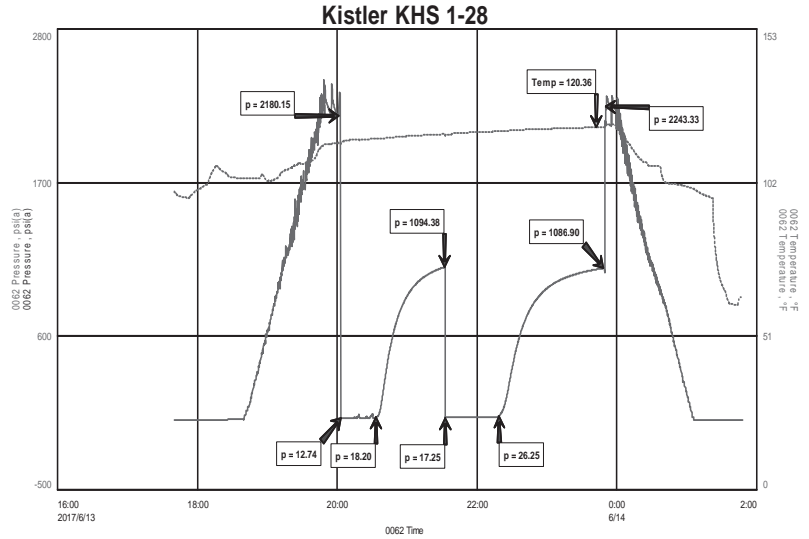
Wellsite Report

General Information

Company Name	Raymond Oil Company Inc
Contact	Ted McHenry
Well Operator	Raymond Oil Company Inc
Well Name	Kistler KHS 1-28
Surface Location	Sec: 29-9s-34w (Thomas County)
Field	Wildcat
Well Type	Vertical
Pool	Wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

Test Information

Job Number	RR284
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 4 Pawnee/ Chero (4557-4689)
Start Test Date	2017/06/13 YYYY/MM/DD
Start Test Time	17:40:00 HH:mm:ss
Final Test Date	2017/06/14 YYYY/MM/DD
Final Test Time	01:48:00 HH:mm:ss



Test Results

Recovery:

25' M 100% M

Tool Sample: 100% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Kistler KHS 1-29 Dst 5

TIME ON: 13:56
TIME OFF: 22:20

Company Raymond Oil Company Inc Lease & Well No. Kistler KHS 1-29
Contractor LD Drilling Inc Charge to Raymond Oil Company Inc
Elevation 3247 KB Formation Johnson Effective Pay _____ Ft. Ticket No. RR286
Date June-14-2017 Sec. 29 Twp. 9 S Range 34 W County Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Ricky Ray

Formation Test No. 5 Interval Tested from 4687 ft. to 4745 ft. Total Depth 4745 ft.
Packer Depth 4683 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4687 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4676 ft. Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4724 ft. Recorder Number 8471 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9 Water Loss 10 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 10000 P.P.M. Drill Pipe Length 4655 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? na Reversed Out na Anchor Length 58A (28P) 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: WSB (Built to 1/2" in 30 mins) NOBB
2nd Open: NO BLOW NOBB

Recovered <u>5</u> ft. of <u>M</u>	<u>100%</u> M	
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>Tool Sample: 3% O 97% M</u>		Insurance
		Total

Time Set Packer(s) 4:25 PM A.M. P.M. Time Started Off Bottom 8:10 PM A.M. P.M. Maximum Temperature 120

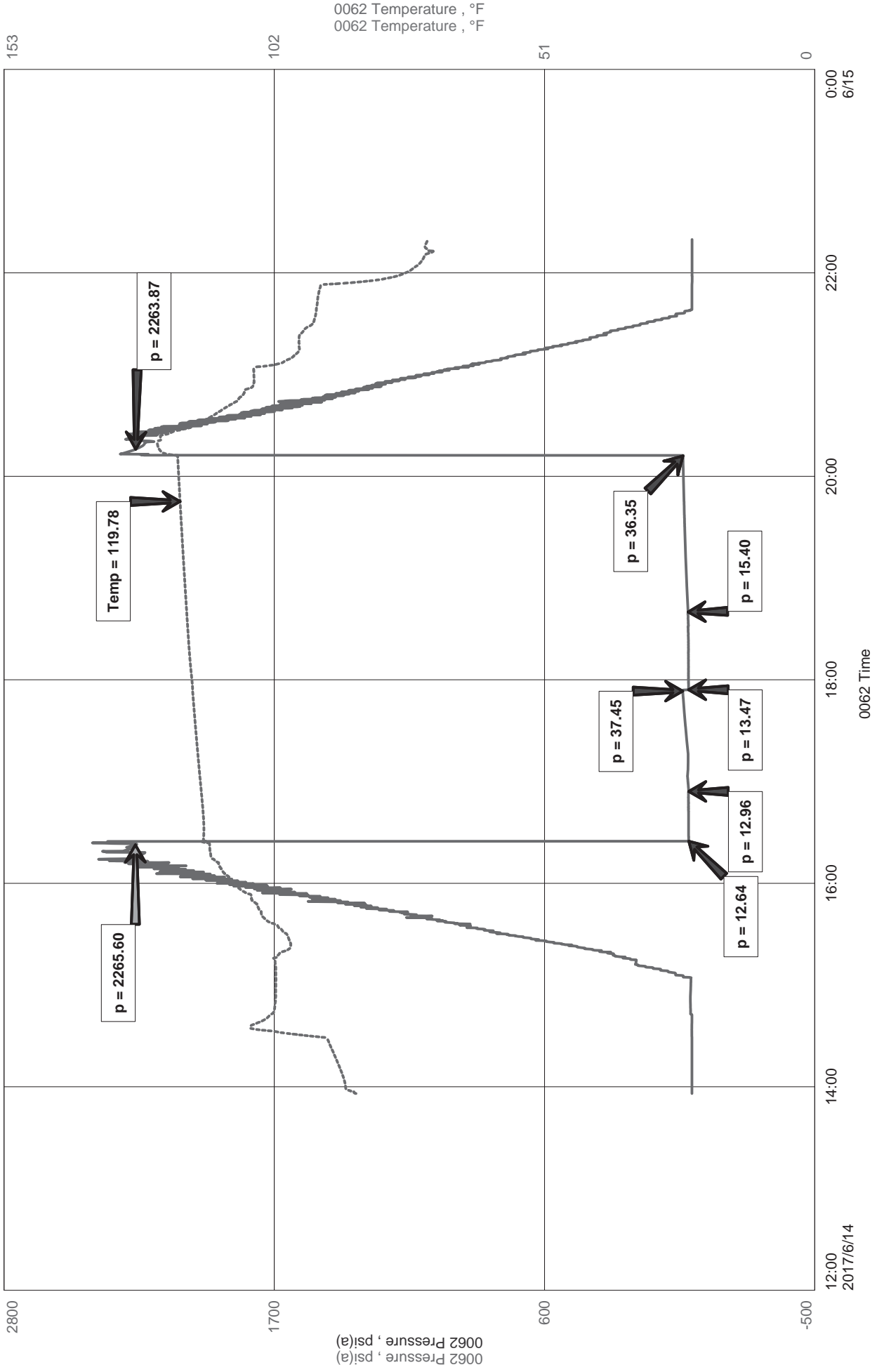
Initial Hydrostatic Pressure..... (A) 2267 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 37 P.S.I.
Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 90 (G) 36 P.S.I.
Final Hydrostatic Pressure..... (H) 2264 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.

Raymond Oil Company Inc
Dst 5 Johnson (4687-4745)
Start Test Date: 2017/06/14
Final Test Date: 2017/06/14

Kistler KHS 1-29
Formation: Dst 5 Johnson (4687-4745)
Pool: wildcat
Job Number: RR286

Kistler KHS 1-29





Diamond Testing LLC
 P.O. Box 157
 Hoisington KS 67544

Ricky Ray - Tester
(620) 617-7261

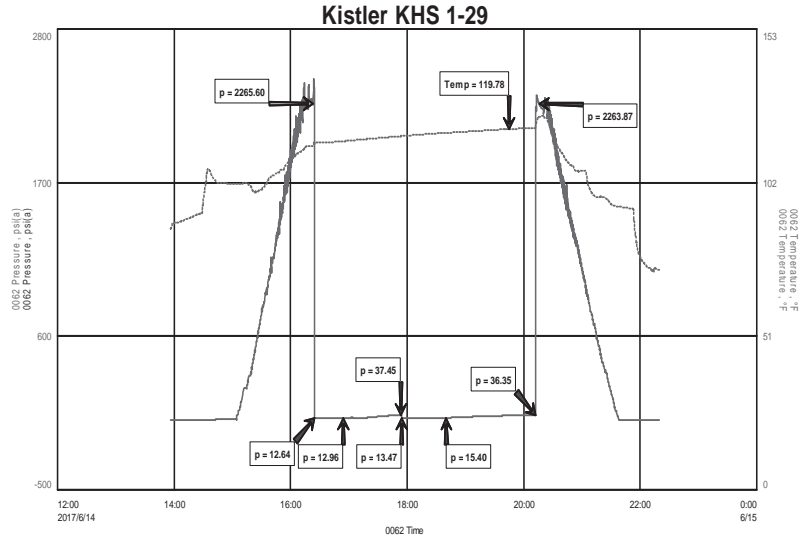
Wellsite Report

General Information

Company Name	Raymond Oil Company Inc
Contact	Ted McHerny
Well Operator	Raymond Oil Company Inc
Well Name	Kistler KHS 1-29
Surface Location	Sec: 29-9s-34w (Stafford County)
Field	Wildcat
Well Type	Vertical
Pool	wildcat
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

Test Information

Job Number	RR286
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 5 Johnson (4687-4745)
Start Test Date	2017/06/14 YYYY/MM/DD
Start Test Time	13:56:00 HH:mm:ss
Final Test Date	2017/06/14 YYYY/MM/DD
Final Test Time	22:20:00 HH:mm:ss



Test Results

Recovery:

5' M 100% M

Tool Sample: 3% O 97% M