



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1200668
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1200668

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	New Gulf Operating LLC
Well Name	Boyd 1-3
Doc ID	1200668

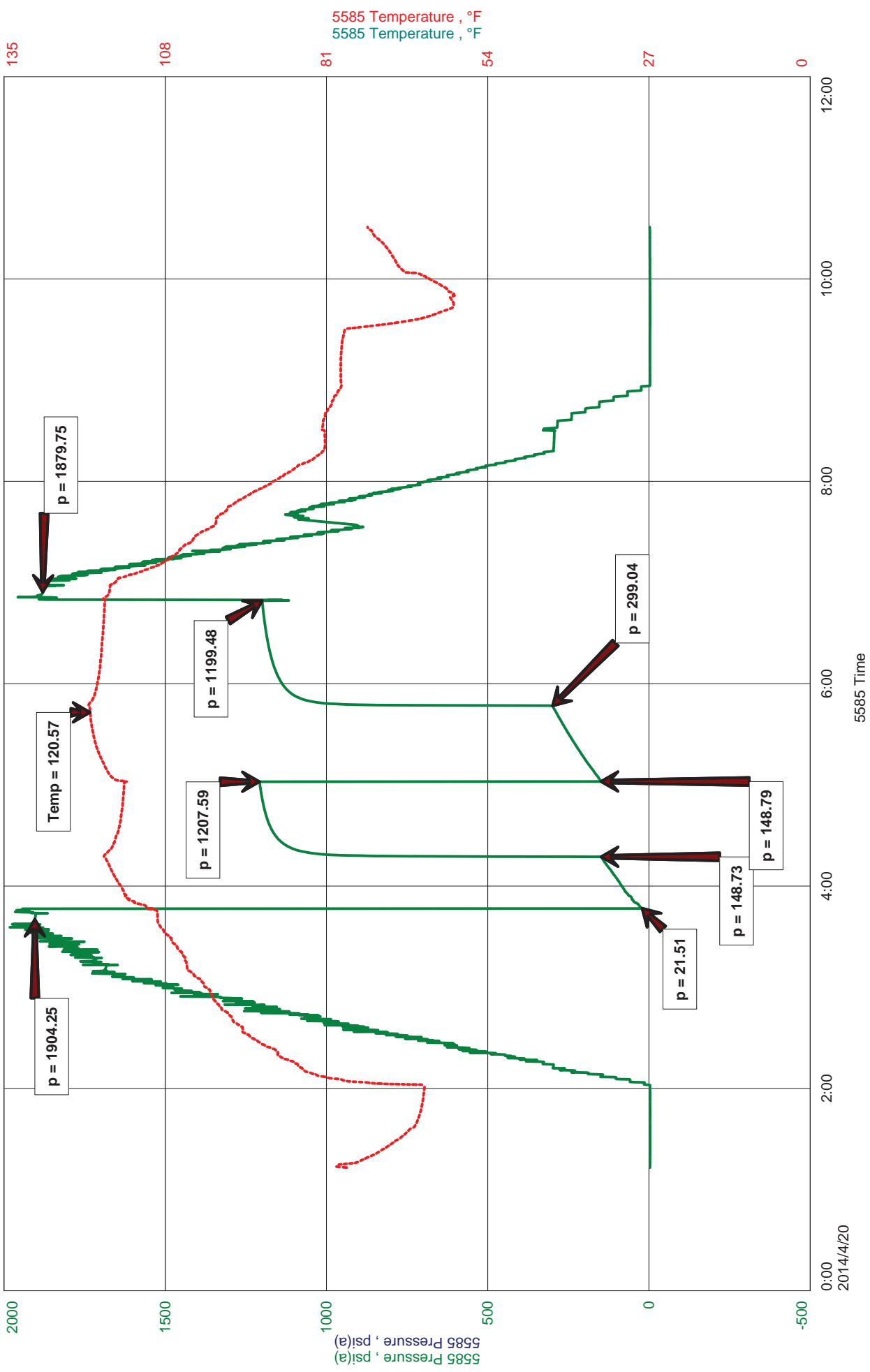
Tops

Name	Top	Datum
Anhydrite	471	2587
Base Anhydrite	446	2612
Heebner	-972	4030
Lansing	-1016	4074
Muncie Creek	-1154	4212
Stark	-1238	4296
Marmaton	-1334	4392
Pawnee	-1440	4498
Cherokee	-1524	4592
Johnson	-1566	4624
Atokan Sand		
Morrow Shale		
Miss		

NEW GULF OPERATING LLC
DST1 TORONTO 4024-4080
Start Test Date: 2014/04/20
Final Test Date: 2014/04/20

BOYD 1-3
Formation: DST1 TORONTO 4024-4080
Pool: WILDCAT
Job Number: A045

BOYD 1-3



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	NEW GULF OPERATING LLC	Job Number	A045
Contact	JIM HENKLE	Representative	ANDY CARREIRA
Well Name	BOYD 1-3	Well Operator	NEW GULF OPERATING LLC
Unique Well ID	DST1 TORONTO 4024-4080	Report Date	2014/04/20
Surface Location	SEC3-12S-32W LOGAN CNTY, KS	Prepared By	ANDY CARREIRA
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST1 TORONTO 4024-4080
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/20	Start Test Time	01:13:00
Final Test Date	2014/04/20	Final Test Time	10:31:00

Test Results

RECOVERY: 40' OIL GRAVITY: 21 @ 60 deg
63' HOCWM 40%O, 20%W, 40%M
189' OCMW 10%O, 70%W, 20%M
338' MW 95%W, 5%M
630' TOTAL FLUID

CHLORIDES: 63000
Ph: 7
RW: .16 @ 68 deg

TOOL SAMPLE: 4%OIL, 96%WATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BOYD 1-3 DST1

TIME ON: 01:13
TIME OFF: 10:31

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3
Contractor VAL 4 Charge to NEW GULF OPERATIG LLC
Elevation 3001 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. A045
Date 4-20-14 Sec. 3 Twp. 12 S Range 32 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 1 Interval Tested from 4024 ft. to 4080 ft. Total Depth 4080 ft.
Packer Depth 4019 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4024 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4005 ft. Recorder Number 5585 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4026 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 29 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 3991 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 56 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB IN 12 MIN. (NObb)
2nd Open: BOB IN 14 MIN. (NObb)

Recovered 40 ft. of OIL GRAVITY: 21 @ 60 deg
Recovered 63 ft. of HOCWM 40%O, 20%W, 40%M CHLORIDES: 63000
Recovered 189 ft. of OCMW 10%O, 70%W, 20%M Ph: 7
Recovered 338 ft. of MW 95%W, 5%M RW: .16 @ 68 deg

Recovered <u>630</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 4%OIL, 96%WATER</u>	Total

Time Set Packer(s) 3:47 AM A.M. P.M. Time Started Off Bottom 6:47 AM A.M. P.M. Maximum Temperature 121

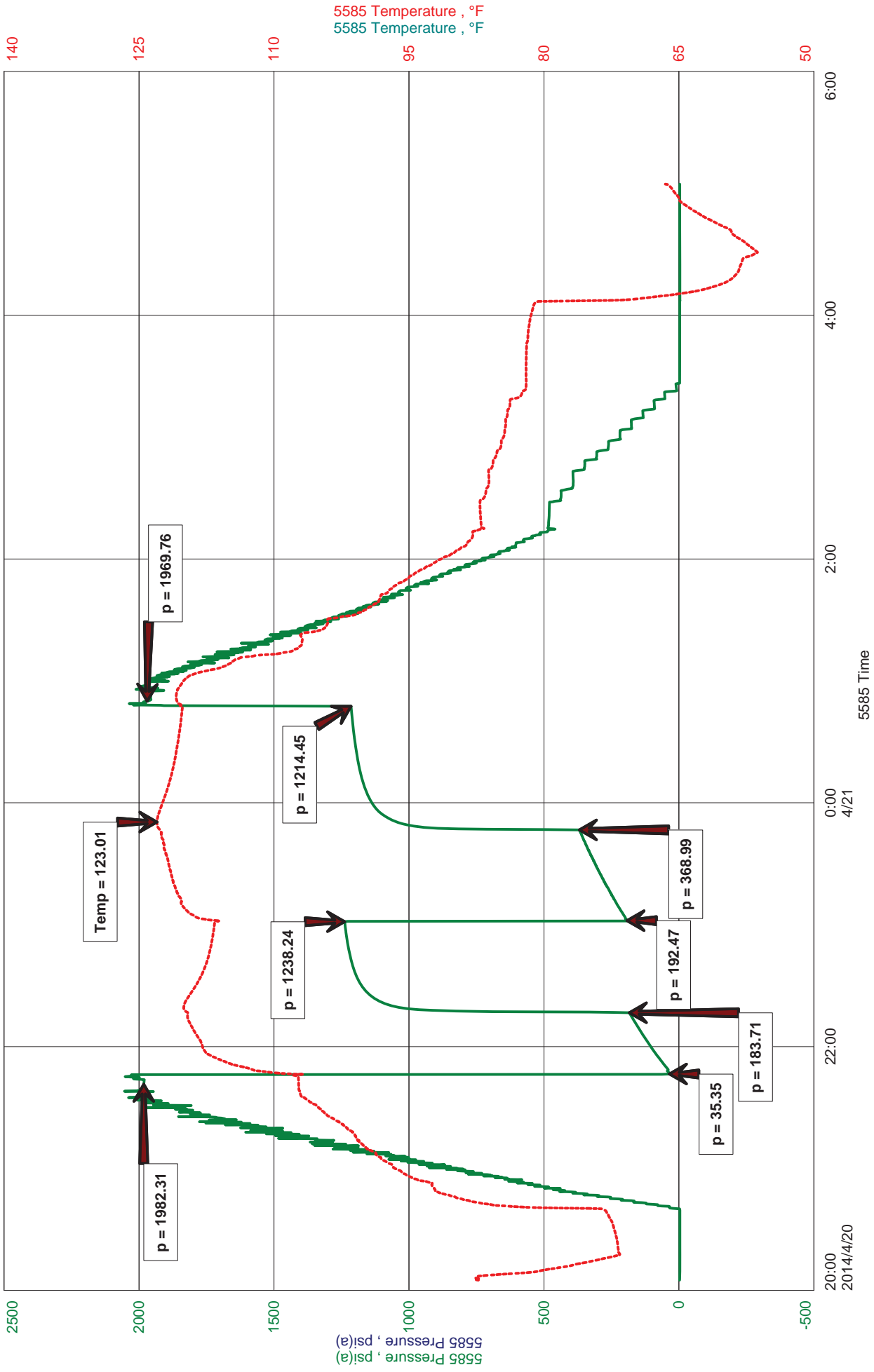
Initial Hydrostatic Pressure..... (A) 1904 P.S.I.
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 149 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1208 P.S.I.
Final Flow Period..... Minutes 45 (E) 149 P.S.I. to (F) 299 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1199 P.S.I.
Final Hydrostatic Pressure..... (H) 1880 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.

NEW GULF OPERATING LLC
DST2 LKC"E,F" 4136-4170
Start Test Date: 2014/04/20
Final Test Date: 2014/04/21

BOYD 1-3
Formation: DST2 LKC"E,F" 4136-4170
Pool: WILDCAT
Job Number: A046

BOYD 1-3



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	NEW GULF OPERATING LLC	Contact	JIM HENKLE	Job Number	A046
Well Name	BOYD 1-3	Representative	ANDY CARREIRA	Well ID	DST2 LKC"E,F" 4136-4170
Surface Location	SEC3-12S-32W LOGAN CNTY,KS	Well Operator	NEW GULF OPERATING LLC	Report Date	2014/04/20
Well License Number		Prepared By	ANDY CARREIRA	Field	WILDCAT
Well Type					Vertical

Test Information

Test Type	CONVENTIONAL
Formation	DST2 LKC"E,F" 4136-4170
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/20	Start Test Time	20:05:00
Final Test Date	2014/04/21	Final Test Time	05:05:00

Gauge Name	5585
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Test Results

RECOVERY:	1164' GIP	GRAVITY: 40 @ 60 deg
	912' CGO 15%G, 85%O	CHLORIDES: 48000
	126' OSMW 90%W, 10%M	RW: .11 @ 65 deg
	1038' TOTAL FLUID	Ph: 7

TOOL SAMPLE: 20% OIL, 80% WATER



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: BOYD 1-3 DST2

TIME ON: 20:05
 TIME OFF: 05:05

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3
 Contractor VAL 4 Charge to NEW GULF OPERATIG LLC
 Elevation 3058 KB Formation LKC"E,F" Effective Pay _____ Ft. Ticket No. A046
 Date 4-20-14 Sec. 3 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
 Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 2 Interval Tested from 4136 ft. to 4170 ft. Total Depth 4170 ft.
 Packer Depth 4131 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4136 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4117 ft. Recorder Number 5585 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4138 ft. Recorder Number 8471 Cap. 10000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 29 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3000 P.P.M. Drill Pipe Length 4103 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 34 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: BOB IN 2 MIN. (BOBbb)
 2nd Open: BOB IMMEDIATELY (6"bb)

Recovered <u>1164</u> ft. of <u>GIP</u>	
Recovered <u>912</u> ft. of <u>CGO 15%G, 85%O</u>	GRAVITY: <u>40 @ 60 deg</u>
Recovered <u>126</u> ft. of <u>OSMW 90%W, 10%M</u>	CHLORIDES: <u>48000</u>
Recovered <u>1038</u> ft. of <u>TOTAL FLUID</u>	RW: <u>.11 @ 65 deg</u>
Recovered _____ ft. of _____	Ph: <u>7</u>
Recovered _____ ft. of _____	Price Job
Remarks: _____	Other Charges
TOOL SAMPLE: <u>20%O, 80%W</u>	Insurance
	Total

Time Set Packer(s) 9:47 PM A.M. P.M. Time Started Off Bottom 12:47 AM A.M. P.M. Maximum Temperature 123

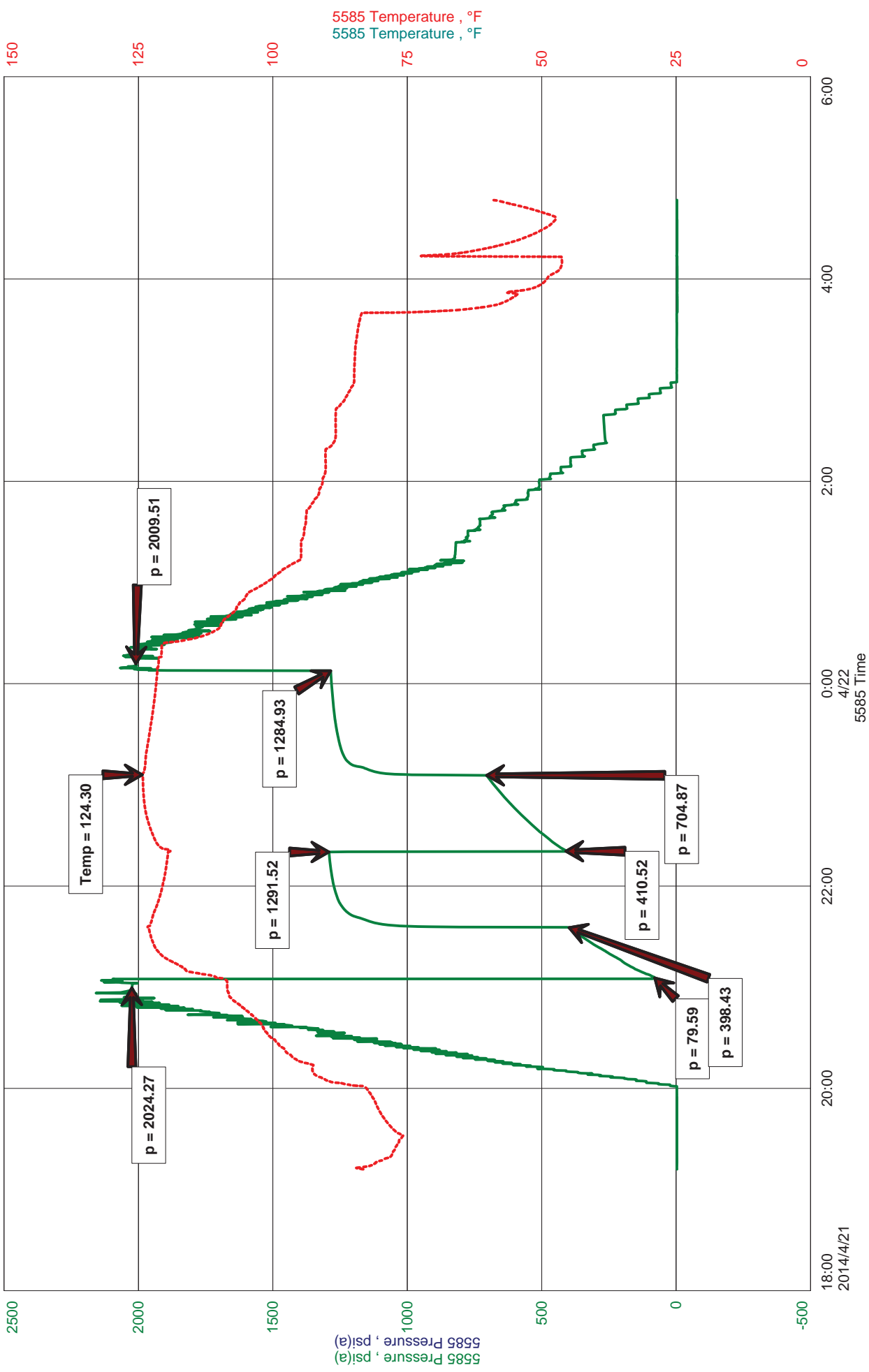
Initial Hydrostatic Pressure..... (A) 1982 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 35 P.S.I. to (C) 184 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1238 P.S.I.
 Final Flow Period..... Minutes 45 (E) 192 P.S.I. to (F) 369 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1214 P.S.I.
 Final Hydrostatic Pressure..... (H) 1970 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.

NEW GULF OPERATING LLC
DST3 LKC"H,I"4198-4272
Start Test Date: 2014/04/21
Final Test Date: 2014/04/22

BOYD 1-3
Formation: DST3 LKC"H,I"4198-4272
Pool: WILDCAT
Job Number: A047

BOYD 1-3



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	NEW GULF OPERATING LLC	Contact	JIM HENKLE	Job Number	A047
Well Name	BOYD 1-3	Representative	ANDY CARREIRA	Well Operator	NEW GULF OPERATING LLC
Unique Well ID	DST3 LKC"H,I"4198-4272	Report Date	2014/04/21	Prepared By	ANDY CARREIRA
Surface Location	SEC3-12S-32W LOGAN CNTY,KS	Field	WILDCAT	Well Type	Vertical

Test Information

Test Type	CONVENTIONAL
Formation	DST3 LKC"H,I"4198-4272
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/21	Start Test Time	19:12:00
Final Test Date	2014/04/22	Final Test Time	04:47:00

Gauge Name	5585
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Test Results

RECOVERY:	597' CGO 10%G, 90%O	GRAVITY: 40 @ 60 deg
	189' GOCWM 5%G, 10%O, 35%W, 50%M	CHLORIDES: 63000
	882' OSMW 95%W, 5%M	RW: .14 @ 60 deg
	1668' TOTAL FLUID	Ph: 7

TOOL SAMPLE: 6% OIL, 94% WATER



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BOYD 1-3 DST3

TIME ON: 19:12
TIME OFF: 04:47

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3
Contractor VAL 4 Charge to NEW GULF OPERATIG LLC
Elevation 3058 KB Formation LKC"H,I" Effective Pay _____ Ft. Ticket No. A047
Date 4-21-14 Sec. 3 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 3 Interval Tested from 4198 ft. to 4272 ft. Total Depth 4272 ft.
Packer Depth 4193 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4198 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4179 ft. Recorder Number 5585 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4200 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 29 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2900 P.P.M. Drill Pipe Length 4165 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 74 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: BOB IN 2 MIN. (8"bb)
2nd Open: BOB IN 30 SEC. (BOBbb)

Recovered 597 ft. of CGO 10%G, 90%O GRAVITY: 40 @ 60 deg
Recovered 189 ft. of GOCWM 5%G, 10%O, 35%W, 50%M CHLORIDES: 63000
Recovered 882 ft. of OSMW 95%W, 5%M RW: .14 @ 60 deg
Recovered 1668 ft. of TOTAL FLUID Ph; 7

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>6% OIL, 94% WATER</u>	Total

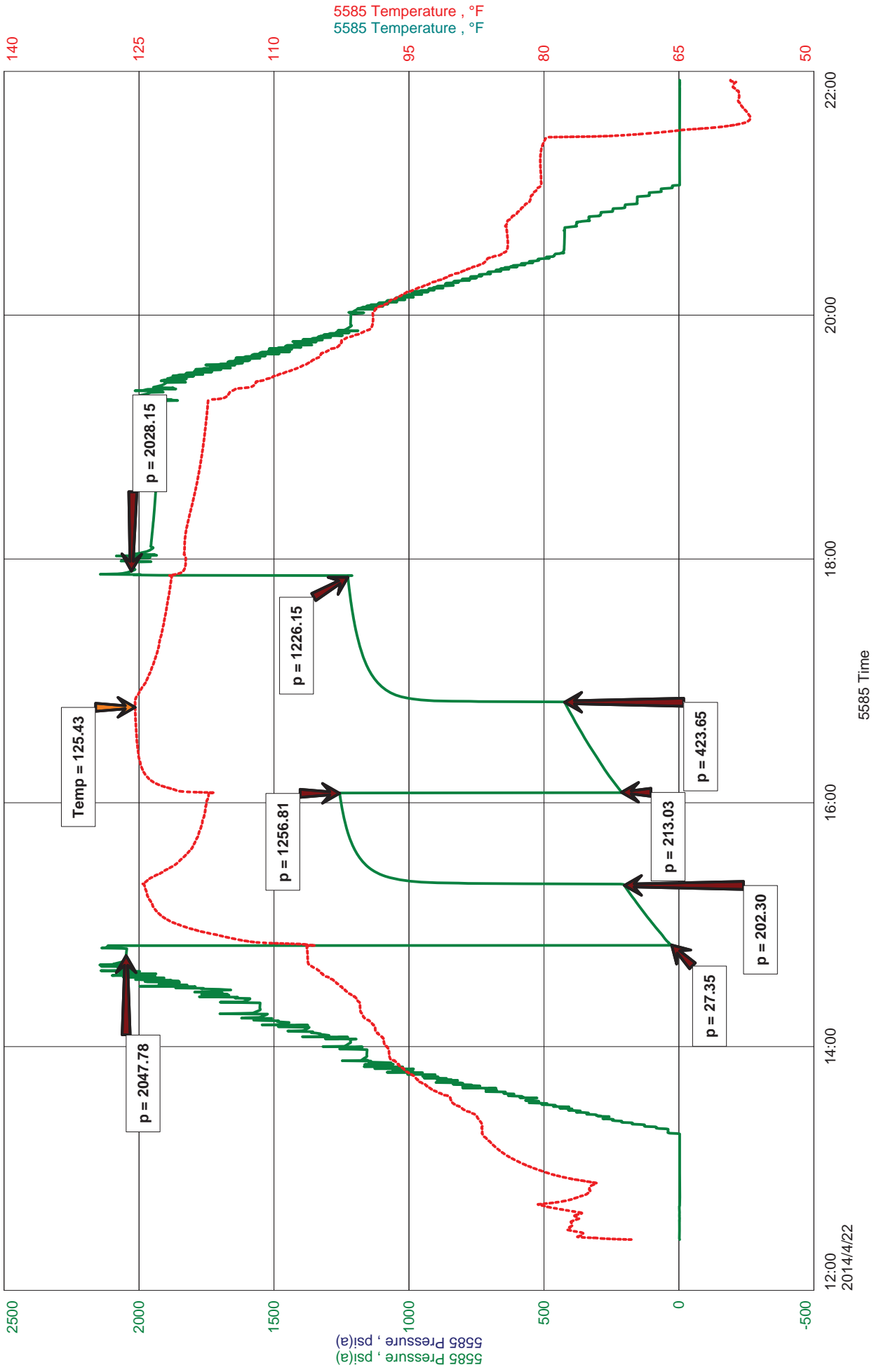
Time Set Packer(s) 9:05 PM A.M. P.M. Time Started Off Bottom 12:05 AM A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) 2024 P.S.I.
Initial Flow Period..... Minutes 30 (B) 80 P.S.I. to (C) 398 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1292 P.S.I.
Final Flow Period..... Minutes 45 (E) 411 P.S.I. to (F) 705 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1285 P.S.I.
Final Hydrostatic Pressure..... (H) 2010 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.

NEW GULF OPERATING LLC
DST4 LKC"J" 4253-4285
Start Test Date: 2014/04/22
Final Test Date: 2014/04/22

BOYD 1-3
Formation: DST4 LKC"J" 4253-4285
Pool: WILDCAT
Job Number: A048

BOYD 1-3



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	NEW GULF OPERATING LLC	Contact	JIM HENKLE	Job Number	A048
Well Name	BOYD 1-3	Representative	ANDY CARREIRA	Well Operator	NEW GULF OPERATING LLC
Unique Well ID	DST4 LKC"J" 4253-4285	Report Date	2014/04/22	Prepared By	ANDY CARREIRA
Surface Location	SEC3-12S-32W LOGAN CNTY,KS	Field	WILDCAT	Well Type	Vertical

Test Information

Test Type	CONVENTIONAL
Formation	DST4 LKC"J" 4253-4285
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/22	Start Test Time	12:25:00
Final Test Date	2014/04/22	Final Test Time	21:56:00

Gauge Name	5585
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Test Results

RECOVERY:	5' OIL	GRAVITY: 38 @ 60 deg
	970' GMW	CHLORIDES: 63000
	975' TOTAL	RW: .14 @ 60 deg
		Ph: 7

TOOL SAMPLE: TRACE OIL, WATER



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: BOYD 1-3 DST4

TIME ON: 12:25
 TIME OFF: 21:56

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3
 Contractor VAL 4 Charge to NEW GULF OPERATIG LLC
 Elevation 3058 KB Formation LKC"J" Effective Pay _____ Ft. Ticket No. A048
 Date 4-21-14 Sec. 3 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
 Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 4 Interval Tested from 4253 ft. to 4285 ft. Total Depth 4285 ft.
 Packer Depth 4248 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4253 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4234 ft. Recorder Number 5585 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4255 ft. Recorder Number 8471 Cap. 10000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 29 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3400 P.P.M. Drill Pipe Length 4220 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 32 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: BOBIN 7 MIN. (SURFACEbb)
 2nd Open: BOB IN 10 MIN. (SURFACEbb)

Recovered 5' ft. of OIL GRAVITY: 38 @ 60 deg
 Recovered 970 ft. of GMW CHLORIDES: 63000
 Recovered 975 ft. of TOTAL FLUID RW: .14 @ 60 deg
 Recovered _____ ft. of _____ Ph: 7

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>TRACE OIL, WATER</u>	Total

Time Set Packer(s) 2:50 PM A.M. P.M. Time Started Off Bottom 5:50 PM A.M. P.M. Maximum Temperature 125

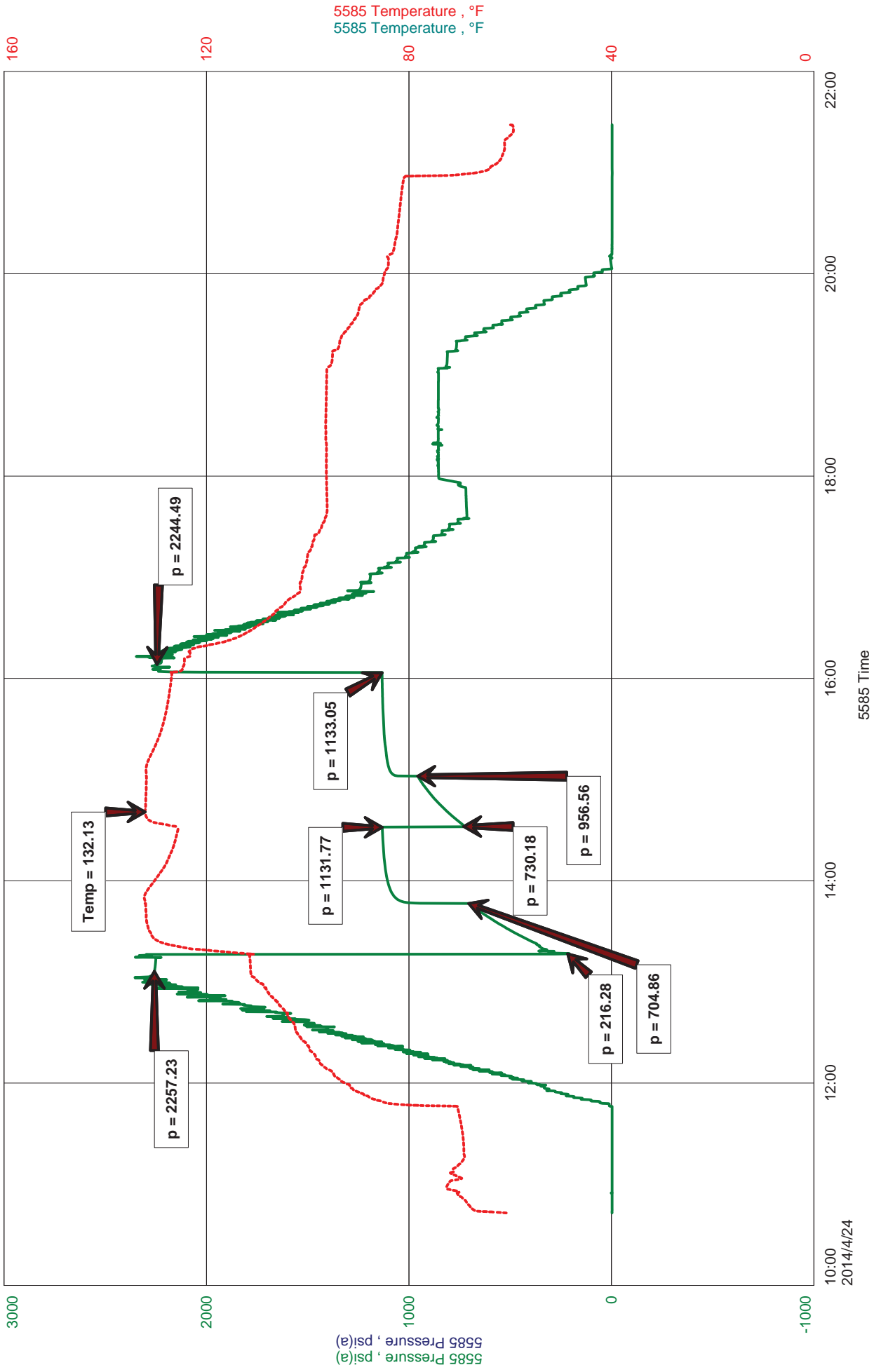
Initial Hydrostatic Pressure..... (A) 2048 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 27 P.S.I. to (C) 202 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1257 P.S.I.
 Final Flow Period..... Minutes 45 (E) 213 P.S.I. to (F) 424 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1226 P.S.I.
 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.

NEW GULF OPERATING LLC
DST5"JOHNSON"4601-4651
Start Test Date: 2014/04/24
Final Test Date: 2014/04/24

BOYD 1-3
Formation: DST5"JOHNSON"4601-4651
Pool: WILDCAT
Job Number: A049

BOYD 1-3



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	NEW GULF OPERATING LLC	Job Number	A049
Contact	JIM HENKLE	Representative	ANDY CARREIRA
Well Name	BOYD 1-3	Well Operator	NEW GULF OPERATING LLC
Unique Well ID	DST5" JOHNSON"4601-4651	Report Date	2014/04/24
Surface Location	SEC3-12S-32W LOGAN CNTY,KS	Prepared By	ANDY CARREIRA
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST5" JOHNSON"4601-4651
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/24	Start Test Time	10:43:00
Final Test Date	2014/04/24	Final Test Time	21:28:00

Gauge Name	5585
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Test Results

RECOVERY:	2414' CGO 5%G, 95%O 126' OCGM 5%G, 30%O,65%M 2540 TOTAL FLUID	GRAVITY: 25 @ 60 deg
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TOOL SAMPLE: 100% OIL



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BOYD 1-3 DST5

TIME ON: 10:43
TIME OFF: 21:28

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3
Contractor VAL 4 Charge to NEW GULF OPERATIG LLC
Elevation 3058 KB Formation JOHNSON Effective Pay _____ Ft. Ticket No. A049
Date 4-24-14 Sec. 3 Twp. 12 S Range 32 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 5 Interval Tested from 4601 ft. to 4651 ft. Total Depth 4651 ft.
Packer Depth 4596 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4601 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4582 ft. Recorder Number 5585 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4603 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 29 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 4568 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out YES Anchor Length 50 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: BOB IN 1 MIN (BOBbb)
2nd Open: BOB IMMEDIATELY (BOBbb)

Recovered 2414 ft. of CGO 5%G, 95%O GRAVITY: 25 @ 60 deg
Recovered 126 ft. of _____
Recovered 2540 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: <u>100% OIL</u>	Total

Time Set Packer(s) 1:17 PM A.M. P.M. Time Started Off Bottom 4:02 PM A.M. P.M. Maximum Temperature 132
Initial Hydrostatic Pressure..... (A) 2257 P.S.I.
Initial Flow Period..... Minutes 30 (B) 216 P.S.I. to (C) 705 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1132 P.S.I.
Final Flow Period..... Minutes 30 (E) 730 P.S.I. to (F) 957 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1133 P.S.I.
Final Hydrostatic Pressure..... (H) 2244 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.

May 19, 2014

New Gulf Operating
10441 S. Regal Blvd., Ste. 210
Tulsa, OK 74133

**RE: Exception to Alternate II Cementing Requirements
Boyd 1-3
SW SW NW NW section 3-12-32W
Logan County, Kansas
API #15-109-21258-00-00**

Dear Mr. Henkle,

The Kansas Corporation Commission (KCC) has received your request, dated May 5th, 2014 for an exception to Alternate II cementing requirements for the above referenced well. From this request, the KCC understands that subject well was not cemented to surface as required by the Alternate II option. Referenced well has 267 feet of surface casing set with 200 sacks of cement circulated to surface. A cement bond log indicates cement was circulated to 850 feet from a depth of 2,618 feet with 400 sacks of cement. The bottom of fresh water is reported at 150 feet with the bottom of usable water listed at 1,750 feet.

After review of this matter by technical staff it was determined that:

1. Surface casing was set deeper than fresh water source in the area with cement coverage to protect the shallow aquifers.
2. All fresh and usable water sources are adequately protected with cement coverage and any remaining intervals not covered by cement contain no fresh or usable water zones.
3. The Dakota appears to be adequately isolated with cement and any remaining intervals not cemented contain no fresh or usable water nor present any threat of contamination from the shales in the intervals.

Based on this information that the fresh and usable water zones are adequately protected with cement coverage and that any remaining intervals not cemented behind the production casing contain no threat of contamination from the shales in the intervals. Therefore, an exception is granted for the Alternate II cementing requirement.

Sincerely,



Ryan A. Hoffman
Director

cc: Steve Bond – Production Supervisor
Case Morris – District IV Supervisor

Work order # 61592197

P/N 2019527



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 46874
LOCATION Oakley 16
FOREMAN Miles Shaw

267711

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

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-26-14	5661	Boyd # 13	3	12S	32W	Logan
CUSTOMER New Gulf Operating			Oakley 16 55 1W 4 1/2 E. 10			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			52811P	Jordan L		
STATE			397	Jeff H		
ZIP CODE			5287A7	Stevan O		

JOB TYPE 2 Step HOLE SIZE 7 7/8 HOLE DEPTH 4760' CASING SIZE & WEIGHT 5 1/2 15.5 #
 CASING DEPTH 4760 DRILL PIPE _____ TUBING _____ OTHER Duck @ 2620.5'
 SLURRY WEIGHT 142/125 SLURRY VOL 1.42/1.9 WATER gal/sk _____ CEMENT LEFT in CASING 15.06'
 DISPLACEMENT 113 1/2 DISPLACEMENT PSI 90 MIX PSI 1400 RATE _____

REMARKS: Safety meeting and rig up on Val drilling rig #4 float equipment
 Centralizer on rents 1, 2, 3, 4, 9, 12, 15, 18, 50, 52 Basket on joint # 51 DV tool to 44 Juv
 #51 @ 2620.5'. Run casing to bottom. Circulate casing for pump mud. Push
 mix, 200SKS OWC with 5" Holsel shutdown. Clear pump lines released plug
 displace 50 bbls water with 1/2 bbls mud with 900 psi lift plug and hold @
 1400 psi. Circulate casing 3 hrs. After casing trail mixed 400SKS 60/40 mud
 8 gal 1/2 Holsel down casing. Shut down. Clear pump lines released plug displace 4 bbls
 water pressured to 2000 psi. Could not move cement from casing. Try pressured on. Tool released
 it did not help. Cement left in casing.
 Mix 30SKS RA 20SKS MH
 Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	31.75 ⁰⁰	31.75 ⁰⁰
5406	10	MILEAGE	5.25	52.50
5407A	28.75 Pms	Ton mileage delivered	1.75	503.20
1107	113 #	Holsel	2.97	335.61
1110A	1000 #	Holsel	.50	500.00
1118B	30%	Bentonite gel	.27	835.92
1126	200 SKS	OWC	23.70	4740.00
1131	450 SKS	60/40 mud	15.84	7137.00
11446	50 gal	Mud flush	1.00	50.00
4104	1	5 1/2" Basket	290.00	290.00
4130	10	5 1/2" Centralizers	60.00	600.00
4159	1	5 1/2" AFH float shoe	433.75	433.75
4283	1	5 1/2" Dilten/W	490.00	490.00
4454	1	5 1/2" Latchdown plug	562.00	562.00
			Subtotal	24639.99
			Loss 1081 account	2464.00
			Subtotal	22175.99
			SALES TAX	1439.60
			ESTIMATED TOTAL	23615.59

completed

Revin 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.

