



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TEEL71DST1

TIME ON: 14:17
TIME OFF: 21:28

Company IA Operatinng, Inc. Lease & Well No. Teel #7-1
Contractor Discovery Drilling Rig # 2 Charge to IA Operating, Inc.
Elevation 2526' KB Formation L/KC "A-F" Effective Pay _____ Ft. Ticket No. F457
Date 12/4/16 Sec. 7 Twp. _____ 6 S Range _____ 25 W County Graham State KANSAS
Test Approved By Jeff Lawler Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3604 ft. to 3700 ft. Total Depth 3700 ft.
Packer Depth 3599 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3604 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3610 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3611 ft. Recorder Number 5586 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 6.4 cc. Weight Pipe Length 247 ft. I.D. 2 7/8 in.
Chlorides 1,000 P.P.M. Drill Pipe Length 3,337 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length 96 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong blow, increased to BOB in 4 minutes. Surface blowback.
2nd Open: Strong blow, increased to BOB in 4.5 minutes. No blowback.

Recovered 360 ft. of MCW 75% wtr, 25% mud
Recovered 1,210 ft. of Water 100% wtr
Recovered _____ ft. of _____

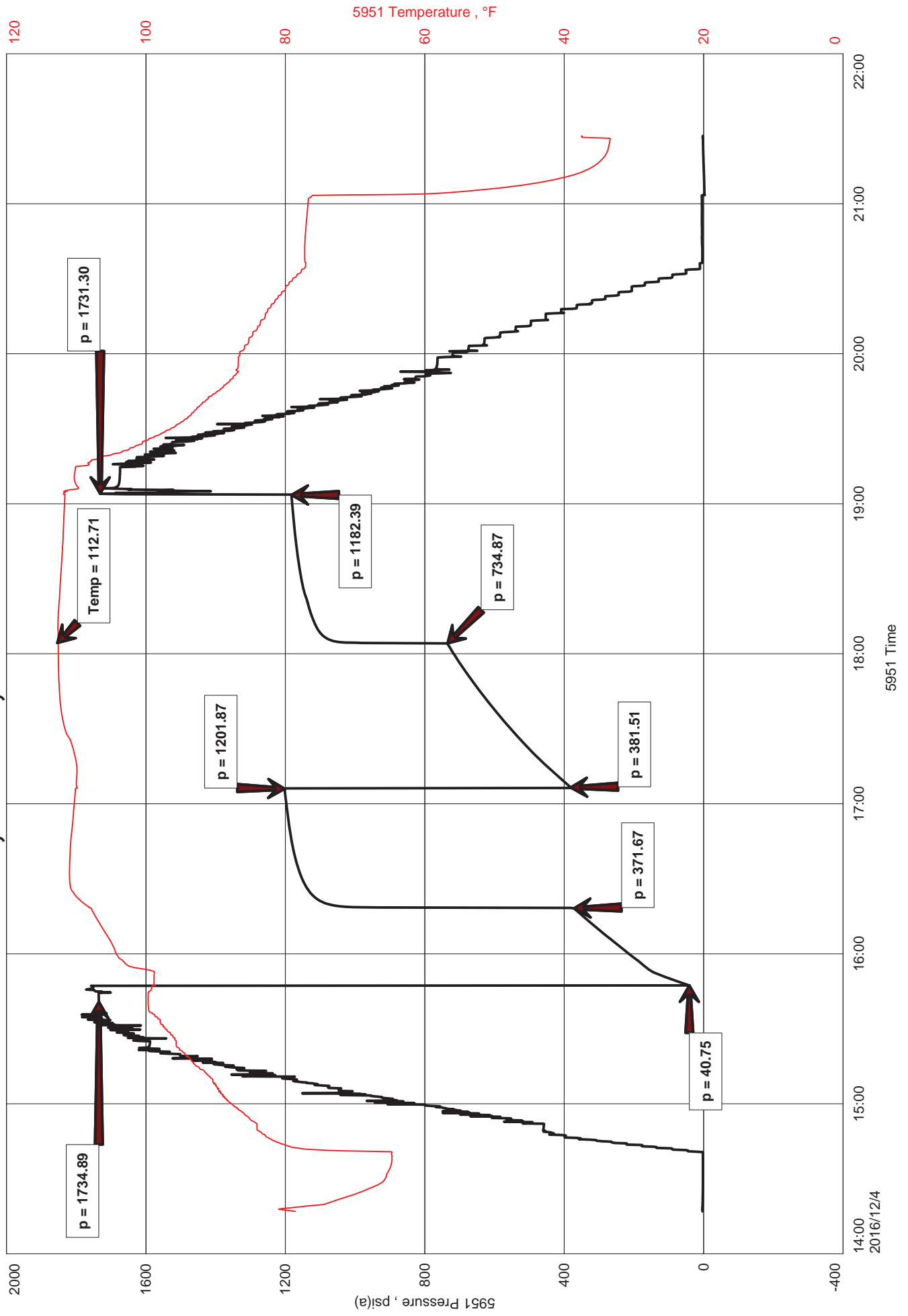
Recovered _____ ft. of No noticeable gas in pipe.
Recovered _____ ft. of (Tools had show of oil inside)
Recovered _____ ft. of _____
Remarks: TOTAL RECOVERED FLUID: 1570'
Chlorides: 93,000 PPM
RW: .18 ohm @ 33 F PH: 6.0

Time Set Packer(s) 15:50 A.M. P.M. Time Started Off Bottom 19:05 A.M. P.M. Maximum Temperature 113 F

Initial Hydrostatic Pressure..... (A) 1735 P.S.I.
Initial Flow Period..... Minutes 30 (B) 41 P.S.I. to (C) 372 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1202 P.S.I.
Final Flow Period..... Minutes 60 (E) 382 P.S.I. to (F) 735 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1182 P.S.I.
Final Hydrostatic Pressure..... (H) 1731 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.

TEEL #7-1, DST #1, L/KC "A-F" 3604'-3700'





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
 DRILL-STEM TEST TICKET
 FILE: TEEL7IDST1

ON LOCATION: 13:36
 START RECORDERS: 14:17
 STOP RECORDERS: 21:28

Company IA OPERATING INC Lease & Well No. TEEL #7-1
 Contractor DISCOVERY DRUG REG #2 Charge to IA OPERATING INC
 Elevation 2526' KB Formation L/KC "A-F" Effective Pay _____ Ft. Ticket No. F457
 Date 12-4-16 Sec. 7 Twp. 6S Range 25W County GRAHAM State KS
 Test Approved By _____ Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3604 ft. to 3700 ft. Total Depth 3700 ft.
 Packer Depth 3599 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3604 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3610 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3611 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (2" 2CM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 6.4 cc. Weight Pipe Length 247 ft. I.D. 2 7/8 in.
 Chlorides 1000 P.P.M. Drill Pipe Length 3337 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 96 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' PERF IN ANCHOR Surface Choke Size _____ in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW, INC TO BOB IN 4 MIN. SURFACE BLOWBACK.
 2nd Open: STRONG BLOW, INC TO BOB IN 4 1/2 MIN. NO BLOWBACK.

Recovered 360' ft. of MCW 75" WTR, 25" MUD
 Recovered 1210' ft. of WATER 100" WTR

Recovered _____ ft. of _____
 Recovered _____ ft. of NO NOTICEABLE GAS IN PIPE
 Recovered _____ ft. of (TOOLS HAD SHOW OF OIL INSIDE)
 Recovered _____ ft. of _____

Remarks: TOTAL RECOVERED FLUID: 1570'
CHLORIDES: 93,000 PPM 272 MRT (HOIS)
RW: .18 SL @ 33°F PH: 6.0
 Total _____

Time Set Packer(s) 15:50 A.M. P.M. Time Started Off Bottom 19:05 A.M. P.M. Maximum Temperature 113°F

Initial Hydrostatic Pressure _____ (A) 1735 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 41 P.S.I. to (C) 372 P.S.I.
 Initial Closed In Period _____ Minutes 45 (D) 1202 P.S.I.
 Final Flow Period _____ Minutes 60 (E) 382 P.S.I. to (F) 735 P.S.I.
 Final Closed In Period _____ Minutes 60 (G) 1182 P.S.I. Thanks!
 Final Hydrostatic Pressure _____ (H) 1731 P.S.I. Jacob J. Fahrenbruch

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Teel #7-1
Company Name	IA Operating, INC
Formation	DST #1, L/KC "A-F" 3604'-3700'
Test Type	Bottom-Hole
Surface Location	Sec 7-6s-25w-Graham Co.-KS
KB Elevation (SL)	2526.000
Gauge Name	5951
Start Test Date	2016/12/04
Start Test Time	14:17:00
Final Test Date	2016/12/04
Final Test Time	21:28:00
Job Number	F457
Contact	Jonathan Allen
Site Contact	Jeff Lawler

TEST RESULTS

Initial flow, strong blow, increased to BOB in 4 minutes. Surface blowback.
 Final flow, strong blow, increased to BOB in 4.5 minutes. No blowback.

TOTAL RECOVERED FLUID: 1570'

- 360' MCW 75% wtr, 25% mud
- 1210' Water 100% wtr
- No noticeable gas in pipe
- Chlorides: 93,000 PPM
- RW: .18 ohm @ 33 F
- PH: 6.0
- (Tools had show of oil inside)

TEEL #7-1, DST #1, L/KC "A-F" 3604'-3700'

