

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	IA OPERATING, INC.	Job Number	T541
Contact	JONATHAN ALLEN	Representative	TIM VENTERS
Well Name	SPRING CREEK #18-1	Well Operator	IA OPERATING, INC.
Unique Well ID	DST #1, LKC "B-F", 3680-3742	Report Date	2016/07/11
Surface Location	SEC 18-6-25, GRAHAM CO. KS.	Prepared By	TIM VENTERS
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST #1, LKC "B-F", 3680-3742
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/07/11	Start Test Time	15:51:00
Final Test Date	2016/07/12	Final Test Time	03:08:00

Gauge Name	5504
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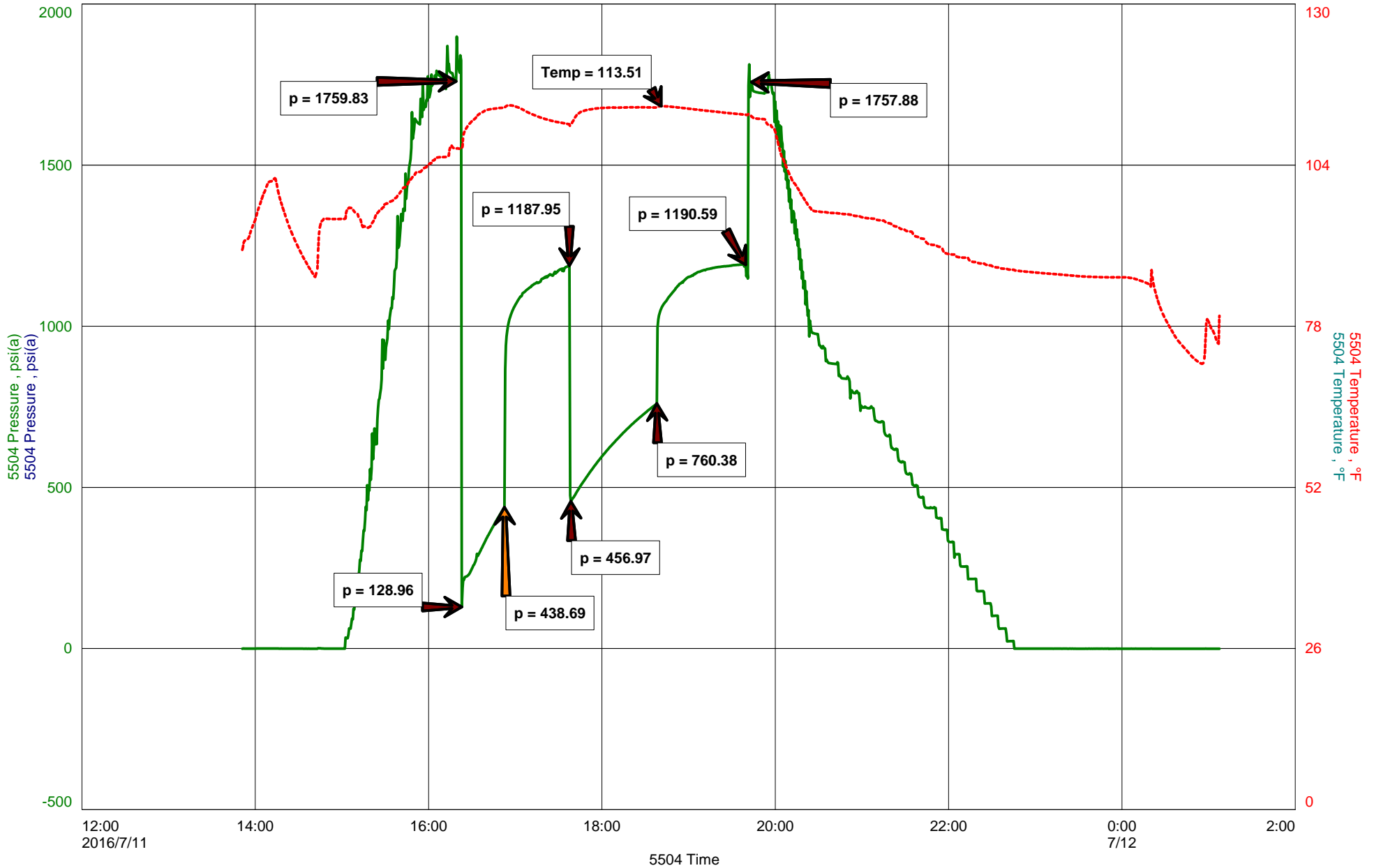
Test Results

RECOVERED: 780' GAS IN PIPE
650' GO, 6% GAS, 94% OIL, GRAVITY: 36
680' G,SMCO, 4% GAS, 91% OIL, 5% MUD
310' G,W&VHVCO, 8% GAS, 39% OIL, 16% WATER, 37% MUD
310' G,SO&MCW, 4% GAS, 19% OIL, 65% WATER, 12% MUD
1950' TOTAL FLUID

TOOL SAMPLE: 4% GAS, 94% OIL, 1% WATER, 1% MUD

CHLORIDES: 43,000 ppm
PH: 7.5
RW: .25 @ 55 deg.

SPRING CREEK #18-1





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 15:51 7-11-16
 TIME OFF: 03:08 7-12-16

DRILL-STEM TEST TICKET
 FILE: SPRINGCREEK18-1DST1

Company IA OPERATING, INC. Lease & Well No. SPRING CREEK #18-1
 Contractor DISCOVERY DRILLING CO., INC. RIG #2 Charge to IA OPERATING, INC.
 Elevation 2583 KB Formation LKC "B-F" Effective Pay _____ Ft. Ticket No. T541
 Date 7-11-16 Sec. 18 Twp. _____ 6 S Range _____ 25 W County GRAHAM State KANSAS
 Test Approved By JEFF LAWLER Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 3680 ft. to 3742 ft. Total Depth 3742 ft.
 Packer Depth 3675 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3680 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3668 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3739 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 6.0 cc. Weight Pipe Length 311 ft. I.D. 2 7/8 in.
 Chlorides 1,000 P.P.M. Drill Pipe Length 3343 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 4 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 31 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GOOD 2 INCH BLOW, BUILDING, REACHING BOB 2 MIN. (BOB BB)
 2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 6 1/2 MIN. (NO BB)

Recovered <u>780</u> ft. of <u>GIP</u>	
Recovered <u>650</u> ft. of <u>GO, 6% GAS, 94% OIL, GRAVITY: 36</u>	
Recovered <u>680</u> ft. of <u>G,SMCO, 4% GAS, 91% OIL, 5% MUD</u>	
Recovered <u>310</u> ft. of <u>G,W&VHMCO, 8% GAS, 39% OIL, 16% WATER, 37% MUD</u>	
Recovered <u>310</u> ft. of <u>G,SO&MCW, 4% GAS, 19% OIL, 65% WATER, 12% MUD</u>	Price Job
Recovered <u>1950</u> ft. of <u>TOTAL FLUID CHLORIDES: 43,000 ppm</u>	Other Charges
Remarks: <u>PH: 7.5</u>	Insurance
<u>RW: .25 @ 55 deg.</u>	
<u>TOOL SAMPLE: 4% GAS, 94% OIL, 1% WATER, 1% MUD</u>	Total

Time Set Packer(s) 6:22 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 9:37 PM ^{A.M.}/_{P.M.} Maximum Temperature 114 deg.
 Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 129 P.S.I. to (C) 439 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1188 P.S.I.
 Final Flow Period..... Minutes 60 (E) 457 P.S.I. to (F) 760 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1191 P.S.I.
 Final Hydrostatic Pressure..... (H) 1756 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.