

Diamond Testing

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 LKC 3,087' - 3,153'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/29
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #1 LKC 3,087' - 3,153'		
Well Fluid Type	01 Oil	Start Test Time	18:37:00
		Final Test Time	00:45:00
Start Test Date	2011/03/28		
Final Test Date	2011/03/29		
Gauge Name	1150		
Gauge Serial Number			

Test Results

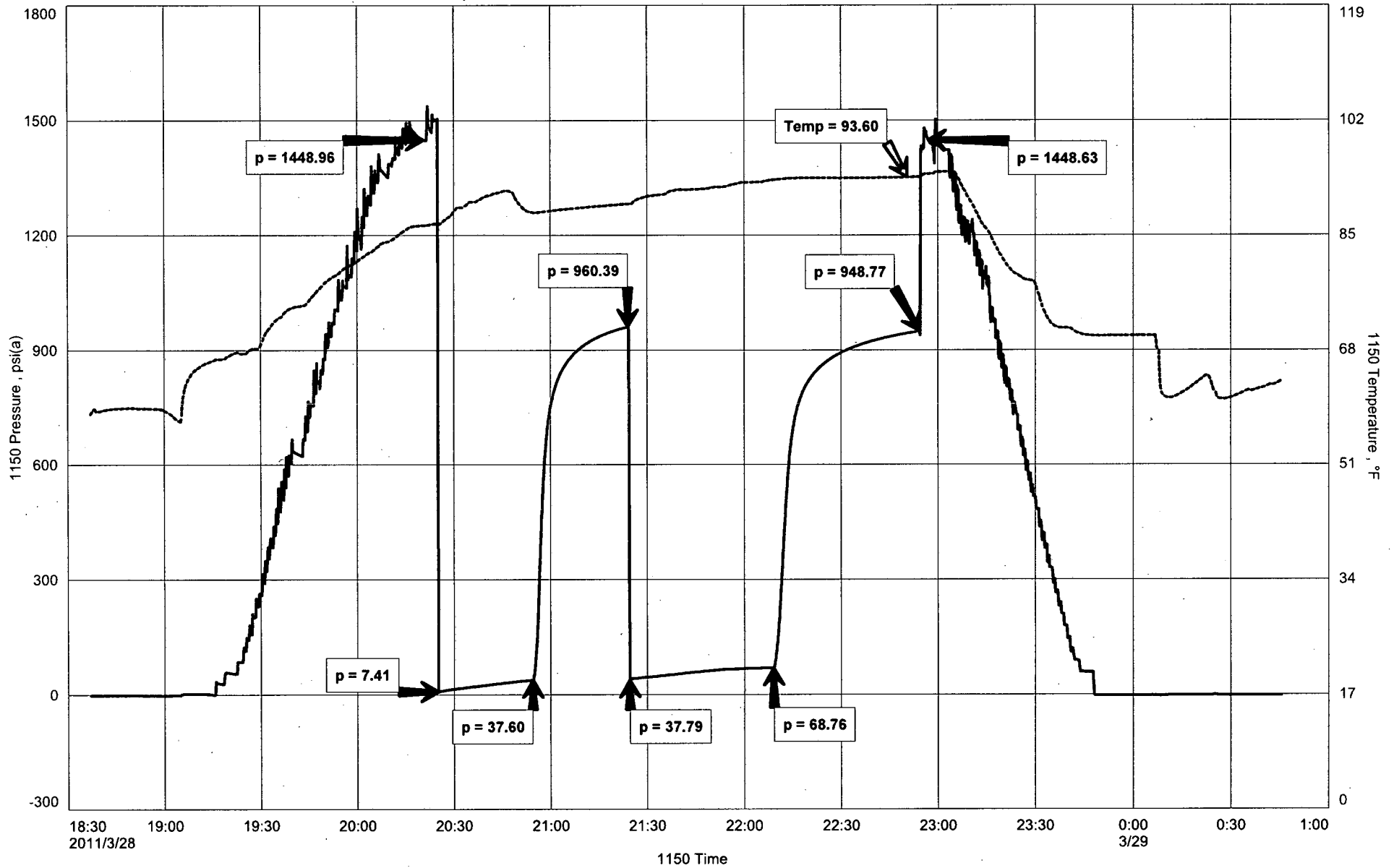
RECOVERED: 10' DM 100% MUD - GOOD OIL SCUM
121' DM 100% MUD - FEW OIL SPECKS
131' TOTAL FLUID

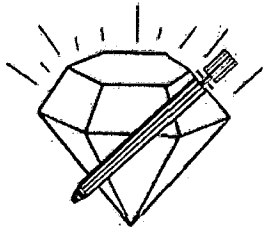
TOOL SAMPLE: 5% GAS, 2% OIL, 93% MUD

L.D. DRILLING, INC.
DST #1 LKC 3,087' - 3,153'
Start Test Date: 2011/03/28
Final Test Date: 2011/03/29

JACK #2-6
Formation: DST #1 LKC 3,087' - 3,153'

JACK #2-6





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

CLOCK ON: 18:37

CLOCK OFF: 00:45

DRILL-STEM TEST TICKET

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.
Elevation 1831 EGL Formation LKC Effective Pay _____ Ft. Ticket No. _____
Date 2.28.11 Sec. 6 Twp. 18 S Range 11 W. County BARTON State KANSAS

Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 1 Interval Tested from 3,087 ft. to 3,153 ft. Total Depth 3,153 ft.
Packer Depth 3,082 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,087 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3,175 ft. Recorder Number 1150 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3,150 ft. Recorder Number 3851 Cap. 5,700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 121 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 2,940 ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 66 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: WEAK 1/8" BLOW INCREASING TO 4" (NObb)
2nd Open: WEAK SURFACE BLOW INCREASING TO 4 1/4" (NObb)

Recovered 10 ft. of DM 100% MUD - GOOD OIL SCUM
Recovered 121 ft. of DM 100% MUD - FEW OIL SPECKS
Recovered 131 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 5% GAS, 2% OIL, 93% MUD	Total

Time Set Packer(s) 8:27 P.M. A.M. P.M. Time Started Off Bottom 10:57 P.M. A.M. P.M. Maximum Temperature 94
Initial Hydrostatic Pressure (A) 1,449 P.S.I.
Initial Flow Period Minutes 30 (B) 7 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period Minutes 30 (D) 960 P.S.I.
Final Flow Period Minutes 45 (E) 38 P.S.I. to (F) 69 P.S.I.
Final Closed In Period Minutes 45 (G) 949 P.S.I.
Final Hydrostatic Pressure (H) 1,449 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.

Diamond Testing

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIE	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #2 LKC 3,197' - 3,320'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/29
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILLOL-STEM TEST		
Formation	DST #2 LKC 3,197' - 3,320'		
Well Fluid Type	01 Oil	Start Test Time	14:31:00
		Final Test Time	20:53:00
Start Test Date	2011/03/29		
Final Test Date	2011/03/29		
Gauge Name	1150		
Gauge Serial Number			

Test Results

RECOVERED: 144' WM 10% WTR, 90% MUD
124' WM 42% WTR, 58% MUD
121' SW 100% WTR
389' TOTAL FLUID

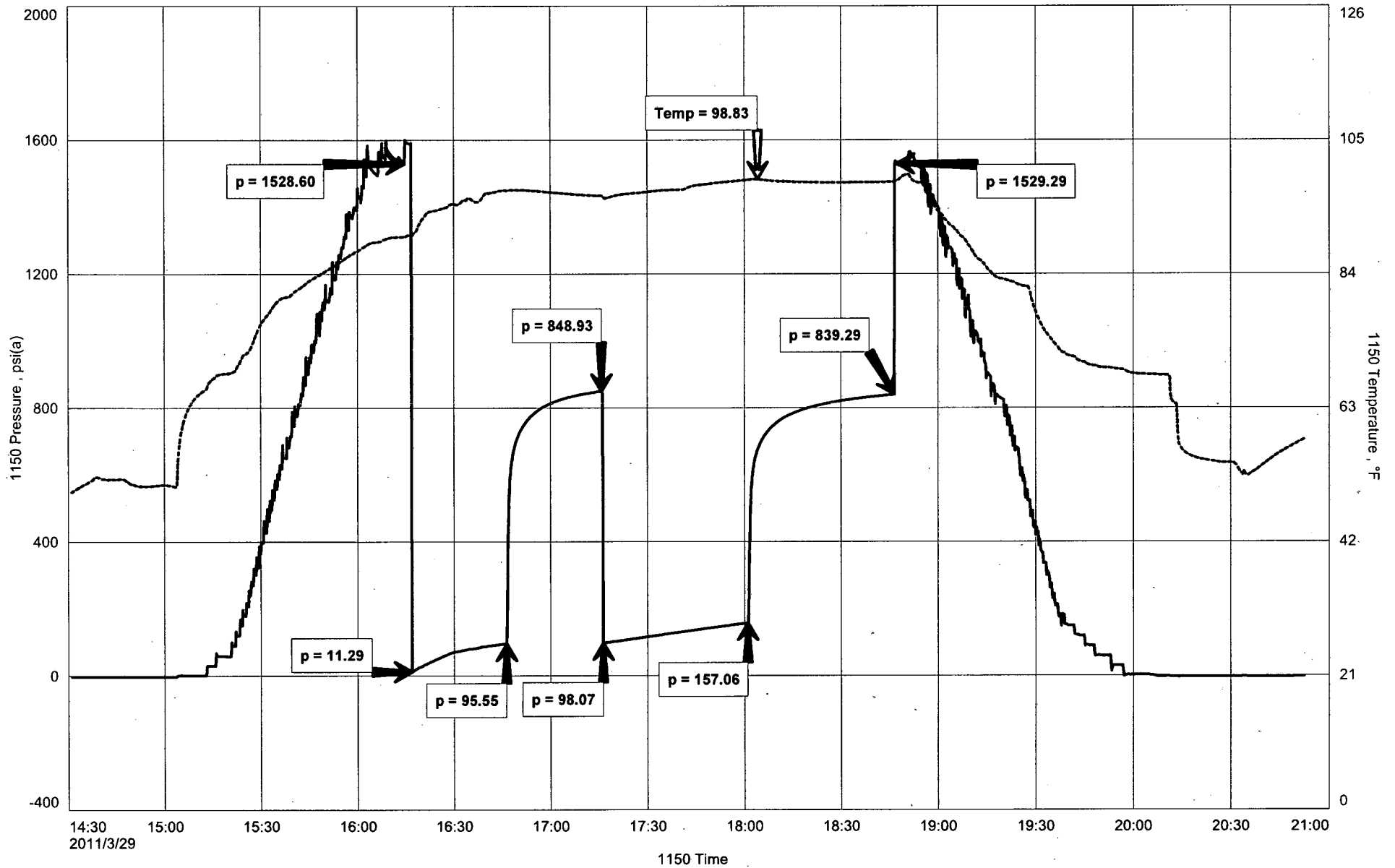
CHLORIDES 24,000 Ppm

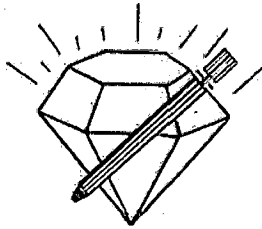
TOOL SAMPLE: 20% MUD, 80% WTR - GOOD SCUM OF OIL

L.D. DRILLING, INC.
DST #2 LKC 3,197' - 3,320'
Start Test Date: 2011/03/29
Final Test Date: 2011/03/29

JACK #2-6
Formation: DST #2 LKC 3,197' - 3,320'

JACK #2-6





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

CLOCK ON: 14:31

CLOCK OFF: 20:53

DRILL-STEM TEST TICKET

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.
Elevation 1831 EGL Formation LKC Effective Pay _____ Ft. Ticket No. _____
Date 3.29.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 2 Interval Tested from 3,197 ft. to 3,320 ft. Total Depth 3,320 ft.
Packer Depth 3,192 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,197 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3,185 ft. Recorder Number 1150 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3,317 ft. Recorder Number 3851 Cap. 5,700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 121 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 3,050 ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 123 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: WEAK 1/2" BLOW INCREASING TO BOTTOM OF BUCKET 24 1/2 MIN (NObb)
2nd Open: WEAK 1/8" BLOW INCREASING TO BOTTOM OF BUCKET 27 1/2 MIN (NObb)

Recovered 144 ft. of WM 10% WTR, 90% MUD
Recovered 124 ft. of WM 42% WTR, 58% MUD
Recovered 121 ft. of SW 100% WTR CHLORIDES 24,000 Ppm

Recovered <u>389</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 20% MUD, 80% WTR - GOOD SCUM OF OIL	Total

Time Set Packer(s) 4:17 P.M. A.M. P.M. Time Started Off Bottom 6:47 P.M. A.M. P.M. Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1,529 P.S.I.
Initial Flow Period Minutes 30 (B) 12 P.S.I. to (C) 96 P.S.I.
Initial Closed In Period Minutes 30 (D) 849 P.S.I.
Final Flow Period Minutes 45 (E) 98 P.S.I. to (F) 157 P.S.I.
Final Closed In Period Minutes 45 (G) 839 P.S.I.
Final Hydrostatic Pressure (H) 1,529 P.S.I.

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Diamond Testing

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #3 ARBUCKLE 3,315' - 3,366'	Well Operator	L.D. DRILLNG, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/30
Well License Number		Prepared By	ROGER D. FRIEDLU
Field	WILDCAT		
Well Type	Vertical		

Test Type	DONVENTIONAL DRILL-STEM TEST		
Formation	DST #3 ARBUCKLE 3,315' - 3,366'		
Well Fluid Type	01 Oil	Start Test Time	04:35:00
		Final Test Time	11:22:00
Start Test Date	2011/03/30		
Final Test Date	2011/03/30		
Gauge Name	1150		
Gauge Serial Number			

Test Results

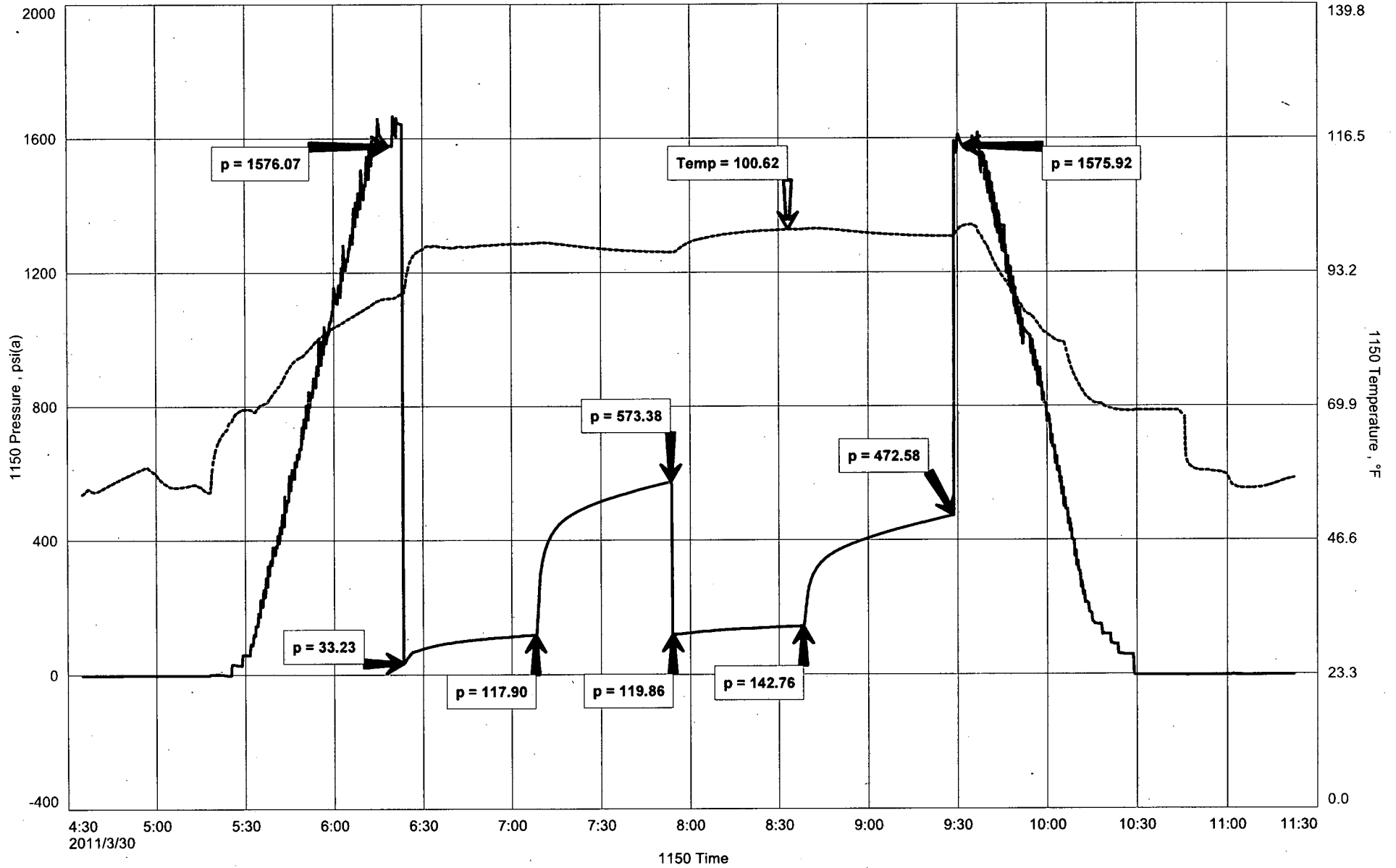
RECOVERED: 90' GAS IN PIPE
138' CO 40 GRAVITY @ 60 deg.
276' HG&COM 10% GAS, 38% OIL, 52% MUD
414' TOTAL FLUID

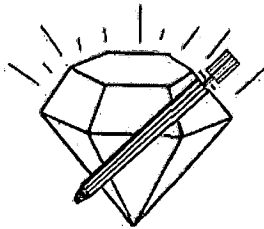
TOOL SAMPLE: 2% GAS, 65% OIL, 33% MUD

L.D. DRILLING, INC.
DST #3 ARBUCKLE 3,315' - 3,366'
Start Test Date: 2011/03/30
Final Test Date: 2011/03/30

JACK #2-6
Formation: DST #3 ARBUCKLE 3,315' - 3,366'

JACK #2-6





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

CLOCK ON: 04:35

CLOCK OFF: 11:22

DRILL-STEM TEST TICKET

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.
Elevation 1831 EGL Formation ARB Effective Pay _____ Ft. Ticket No. _____
Date 3.30.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS

Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 3 Interval Tested from 3,315 ft. to 3,366 ft. Total Depth 3,366 ft.
Packer Depth 3,310 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,315 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3,303 ft. Recorder Number 1150 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3,363 ft. Recorder Number 3851 Cap. 5,700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 121 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 3,800 P.P.M. Drill Pipe Length 3,168 ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-1F in.
Did Well Flow? NO Reversed Out NO Anchor Length 51 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: GOOD 2" BLOW INCREASING TO BOTTOM OF BUCKET 8 MIN (F1"bb)
2nd Open: WEAK SURFACE BLOW INCREASING TO 7 1/4" (W 1/4" bb)

Recovered 90 ft. of GAS IN PIPE
Recovered 138 ft. of CLEA OIL 40 GRAVITY @ 60 deg
Recovered 276 ft. of HG&OCM 10% GAS, 38% OIL, 52% MUD
Recovered 414 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Remarks: _____	Other Charges
TOOL SAMPLE: 2% GAS, 65% OIL, 33% MUD	Insurance
	Total

Time Set Packer(s) 6:23 A.M. A.M. P.M. Time Started Off Bottom 9:23 A.M. A.M. P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1,576 P.S.I.
Initial Flow Period Minutes 45 (B) 33 P.S.I. to (C) 118 P.S.I.
Initial Closed In Period Minutes 45 (D) 573 P.S.I.
Final Flow Period Minutes 45 (E) 120 P.S.I. to (F) 143 P.S.I.
Final Closed In Period Minutes 45 (G) 473 P.S.I.
Final Hydrostatic Pressure (H) 1,576 P.S.I.

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Diamond Testing

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #4 ARBUCKLE 3,364' - 3,378'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/30
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #4 ARBUCKLE 3,364' - 3,378'		
Well Fluid Type	01 Oil	Start Test Time	16:16:00
		Final Test Time	22:49:00
Start Test Date	2011/03/30		
Final Test Date	2011/03/30		
Gauge Name	1150		
Gauge Serial Number			

Test Results

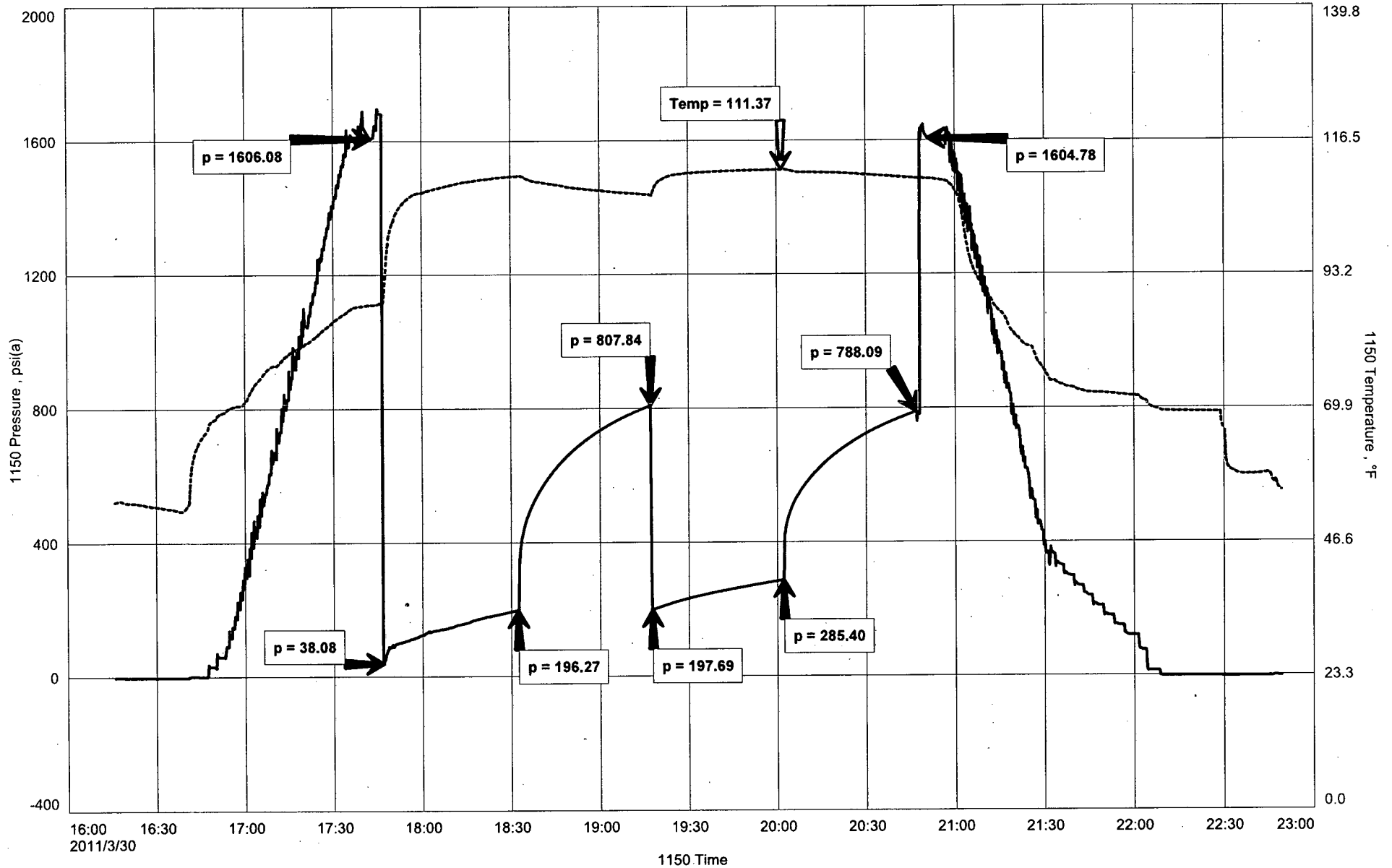
RECOVERED: 40' GAS IN PIPE
183' CLEAN OIL 40 GRAVITY @ 60 deg.
124' GCMO 10% GAS, 45% OIL, 45% MUD
124' OCMW 10% OIL, 70% WTR, 20% MUD
245' SW 100% WTR CHLORIDES 15,000 Ppm.
682' TOTAL FLUID

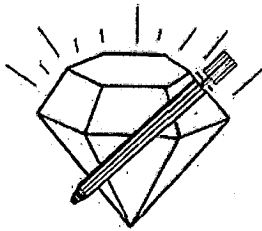
TOOL SAMPLE: 15% OIL, 70% WTR, 15% MUD

L.D. DRILLING, INC.
DST #4 ARBUCKLE 3,364' - 3,378'
Start Test Date: 2011/03/30
Final Test Date: 2011/03/30

JACK #2-6
Formation: DST #4 ARBUCKLE 3,364' - 3,378'

JACK #2-6





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

CLOCK ON: 16:16

CLOCK OFF: 22:49

DRILL-STEM TEST TICKET

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.
Elevation 1831 EGL Formation ARB Effective Pay _____ Ft. Ticket No. _____
Date 3.30.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 4 Interval Tested from 3,364 ft. to 3,378 ft. Total Depth 3,378 ft.
Packer Depth 3,359 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,364 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 3,352 ft. Recorder Number 1150 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) _____ 3,375 ft. Recorder Number 3851 Cap. 5,700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 121 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 3,800 P.P.M. Drill Pipe Length 3,217 ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 14 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: GOOD 2" BLOW INCREASING TO BOTTOM OF BUCKET 5 MIN (W 1/2"bb)
2nd Open: fair 1" BLOW INCREASING TO BOTTOM OF BUCKET 10 MIN (bb)

Recovered 40 ft. of GAS IN PIPE
Recovered 189 ft. of CLEAN OIL 40 GRAVITY @ 60 deg
Recovered 124 ft. of GCMO 10% GAS, 45% OIL, 45% MUD
Recovered 124 ft. of OCMW 10% OIL, 70% WTR, 20% MUD
Recovered 245 ft. of SW 100% WTR CHLORIDES 15,000 Ppm
Remarks: 682 TOTAL FLUID

Price Job	
Other Charges	
Insurance	
Total	

TOOL SAMPLE: 15% OIL, 70% WTR, 15% MUD

Time Set Packer(s) 5:47 P.M. A.M. P.M. Time Started Off Bottom 8:47 P.M. A.M. P.M. Maximum Temperature 111

Initial Hydrostatic Pressure (A) 1,606 P.S.I.
Initial Flow Period Minutes 45 (B) 38 P.S.I. to (C) 196 P.S.I.
Initial Closed In Period Minutes 45 (D) 808 P.S.I.
Final Flow Period Minutes 45 (E) 198 P.S.I. to (F) 285 P.S.I.
Final Closed In Period Minutes 45 (G) 788 P.S.I.
Final Hydrostatic Pressure (H) 1,605 P.S.I.

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