



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 1

TIME ON: 12:27
TIME OFF: 19:56

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W281
Date 4/13/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 1 Interval Tested from 3771 ft. to 3847 ft. Total Depth 3847 ft.
Packer Depth 3766 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4771 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3757 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3772 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 6.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2000 P.P.M. Drill Pipe Length 3738 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 76 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: Built to 2 1/2" **No Return**
2nd Open: Built to 2" **No Return**

Recovered 440 ft. of MCW 30%M 70%W skim of oil
Recovered 440 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample= Plugged with cuttings</u>	Insurance
_____	Total

Time Set Packer(s) 14:45 A.M. P.M. Time Started Off Bottom 17:45 A.M. P.M. Maximum Temperature 120
Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 84 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1113 P.S.I.
Final Flow Period..... Minutes 45 (E) 91 P.S.I. to (F) 205 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1104 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.



Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W281
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/13
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Wabi
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/13	Start Test Time	12:27:00
Final Test Date	2017/04/13	Final Test Time	19:56:00

Test Recovery

RECOVERY:

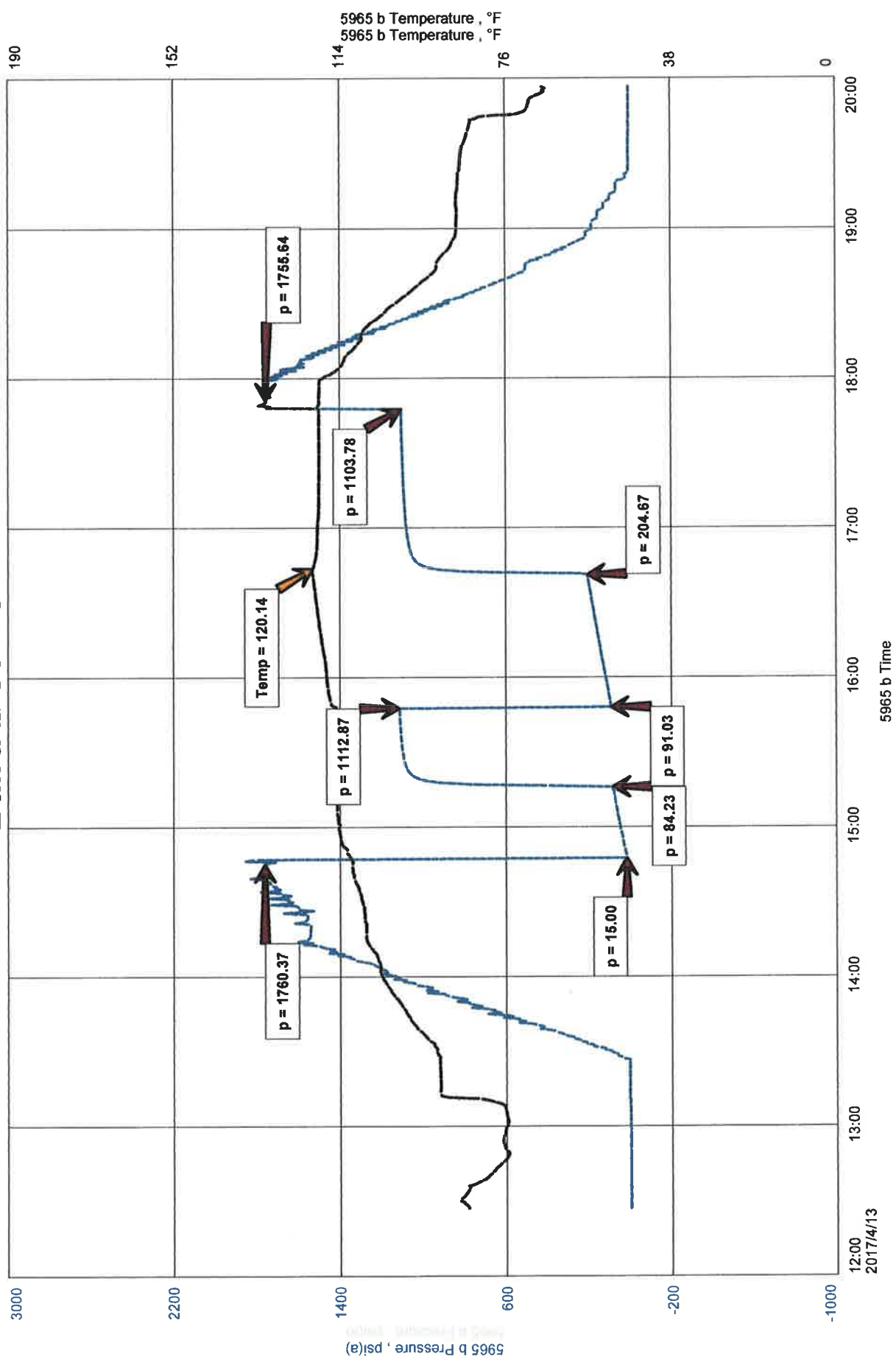
440' MCW 30%M 70%W Skim of oil
440' Total Fluid

Tool Sample=Plugged with cuttings

Baird 2-30
 Formation: Wabi
 Job Number: W281

Baird 2-30 DST 1

LD Drilling
 Start Test Date: 2017/04/13
 Final Test Date: 2017/04/13





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 2

TIME ON: 16:00
TIME OFF: 23:45

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W282
Date 4/15/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 2 Interval Tested from 4374 ft. to 4441 ft. Total Depth 4441 ft.
Packer Depth 4369 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4374 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4360 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4375 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 59 Drill Collar Length 0 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 4000 P.P.M. Drill Pipe Length 4341 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 67 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: Built to 4" No Return
2nd Open: Built to 2 1/2" No Return

Recovered 100 ft. of Mud
Recovered 100 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample= Mud</u>	Total

Time Set Packer(s) 18:35 A.M. P.M. Time Started Off Bottom 21:35 A.M. P.M. Maximum Temperature 125

Initial Hydrostatic Pressure..... (A) 2112 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1234 P.S.I.
Final Flow Period..... Minutes 45 (E) 33 P.S.I. to (F) 54 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1161 P.S.I.
Final Hydrostatic Pressure..... (H) 2094 P.S.I.

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Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W282
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/15
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Marm/Alta 'B'
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/15	Start Test Time	16:00:00
Final Test Date	2017/04/15	Final Test Time	23:43:00

Test Recovery

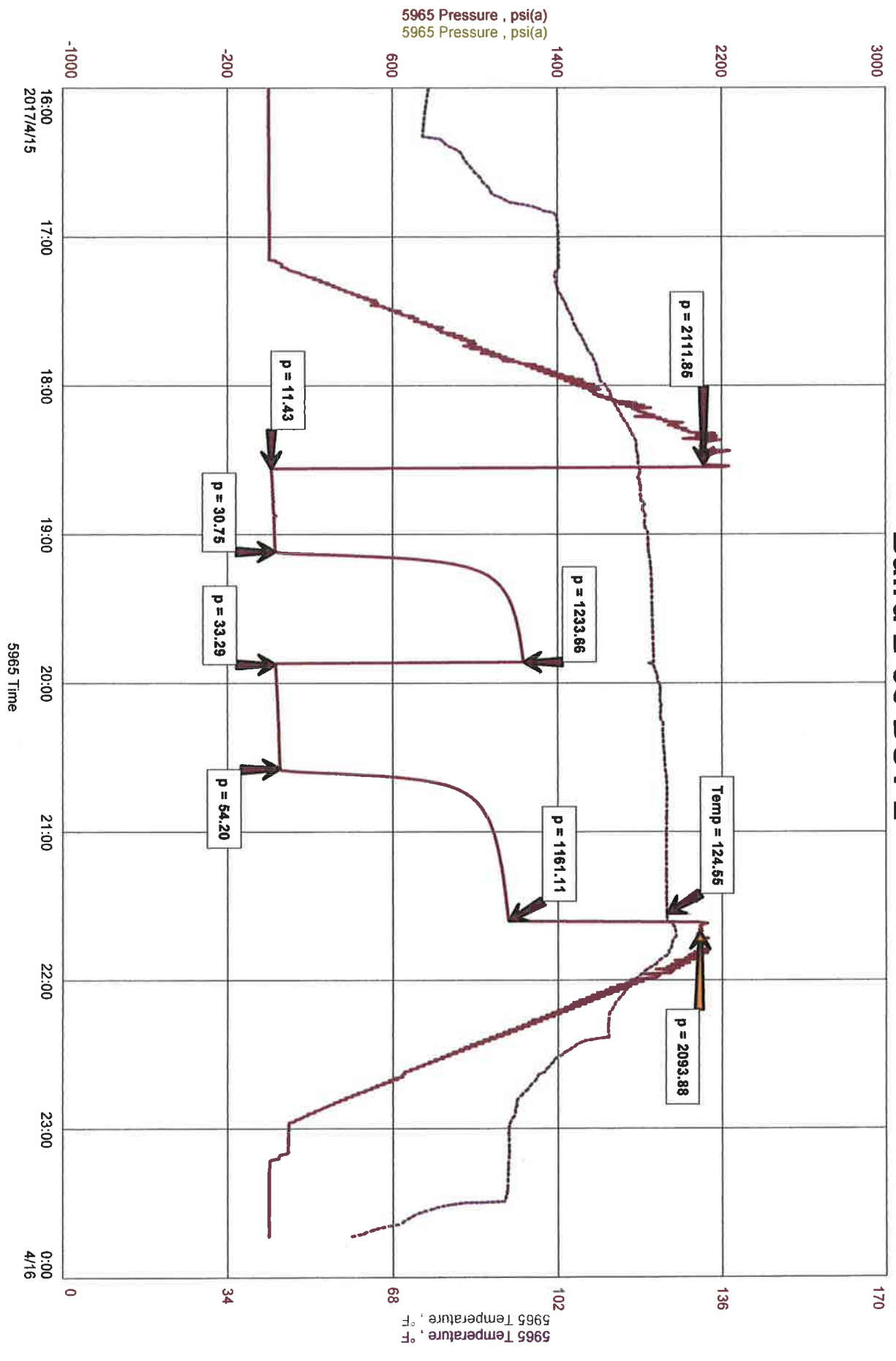
RECOVERY:
100' Mud
100' Total Fluid

Tool Sample=Mud

LD Drilling
 Start Test Date: 2017/04/15
 Final Test Date: 2017/04/15

Baird 2-30 DST 2

Baird 2-30
 Formation: Marm/Alta 'B'
 Job Number: W282





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 3

TIME ON: 7:08
TIME OFF: 14:25

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation _____ Wabi Effective Pay _____ Ft. Ticket No. W283
Date 4/16/2017 Sec. 30 Twp. _____ 6 S Range _____ 35 W County _____ Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 3 Interval Tested from 4372 ft. to 4465 ft. Total Depth 4465 ft.
Packer Depth 4367 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4372 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4358 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4373 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5200 P.P.M. Drill Pipe Length 4339 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 93 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: Built to 5 1/2" No Return
2nd Open: Built to 3 1/2" No Return

Recovered 110 ft. of Mud with oil spots
Recovered 110 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample= Mud with oil spots</u>	Total

Time Set Packer(s) 9:30 A.M. P.M. Time Started Off Bottom 12:30 A.M. P.M. Maximum Temperature 122
Initial Hydrostatic Pressure..... (A) 2107 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 34 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1178 P.S.I.
Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 59 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1101 P.S.I.
Final Hydrostatic Pressure..... (H) 2086 P.S.I.

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Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	LD Drilling	Job Number	W283
Contact	Kim Shoemaker	Representative	Wilbur Steinbeck
Well Name	Baird 2-30	Well Operator	LD
Unique Well ID		Report Date	2017/04/16
Surface Location	S30/6S/35WThomas/Kan	Prepared By	Wilbur Steinbeck
Field	Wildcat	Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Marm/Alta 'C'
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/16	Start Test Time	07:08:00
Final Test Date	2017/04/16	Final Test Time	14:25:00

Test Recovery

RECOVERY:

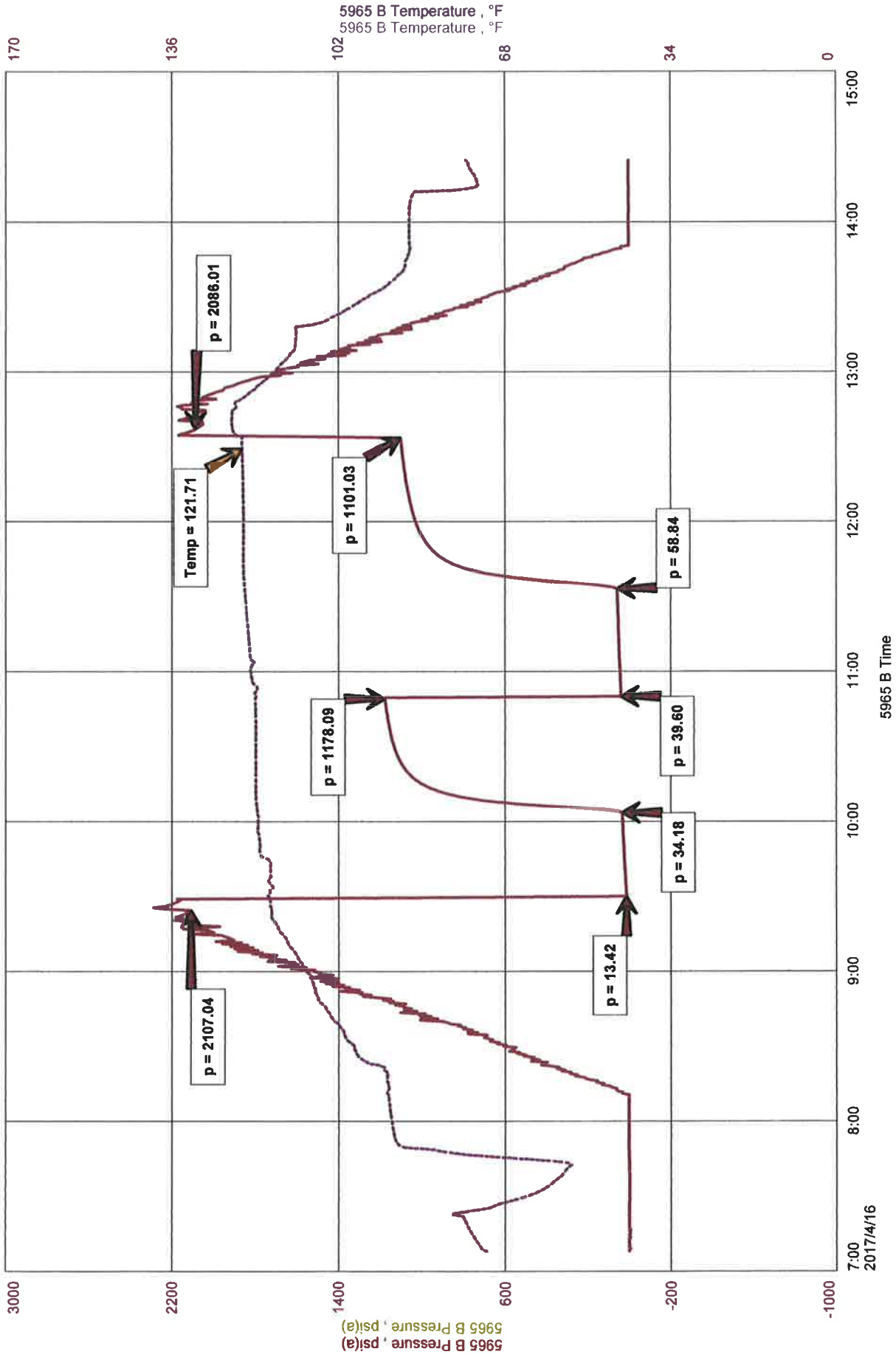
110' Mud with oil spots
110' Total Fluid

Tool Sample=Mud with oil spots

LD Drilling
 Start Test Date: 2017/04/16
 Final Test Date: 2017/04/16

Baird 2-30 DST 3

Baird 2-30
 Formation: Marm/Alta 'C'
 Job Number: W283





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Baird 2-30 DST 4

TIME ON: 2:54
TIME OFF: 11:16

Company LD Drilling Lease & Well No. Baird 2-30
Contractor LD Rig 1 Charge to LD
Elevation 3264 KB Formation Pawnee Effective Pay Ft. Ticket No. W284
Date 4/17/2017 Sec. 30 Twp. 6 S Range 35 W County Thomas State KANSAS
Test Approved By Kim Shoemaker Diamond Representative WIL STEINBECK

Formation Test No. 4 Interval Tested from 4474 ft. to 4534 ft. Total Depth 4534 ft.
Packer Depth 4469 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth 4474 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4460 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4475 ft. Recorder Number 5587 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5200 P.P.M. Drill Pipe Length 4435 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 60 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 8 min No Return
2nd Open: BOB in 14 min No Return

Recovered 550 ft. of MCW with oil spots 30%M 70%W
Recovered 550 ft. of Total Fluid Ruined Regular Packer

Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Recovered <u> </u> ft. of <u>180 Miles RT</u>	Insurance
Remarks: <u>Tool Sample= Plugged with cuttings</u>	Total
Chlorides= <u>36,000</u> ppm	

Time Set Packer(s) 5:50 A.M. Time Started Off Bottom 8:50 A.M. Maximum Temperature 137
P.M. P.M.
Initial Hydrostatic Pressure..... (A) 2143 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 121 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1284 P.S.I.
Final Flow Period..... Minutes 45 (E) 124 P.S.I. to (F) 247 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1260 P.S.I.
Final Hydrostatic Pressure..... (H) 2132 P.S.I.

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Diamond Testing General Report

Wil Steinbeck
TESTER
CELL: 620-282-9067

General Information

Company Name	Kim Shoemaker	Job Number	W284
Well Name	S30/6S/35W	Well Operator	LD
Unique Well ID	Thomas/Kan	Report Date	2017/04/17
Surface Location	Wildcat	Prepared By	Wilbur Steinbeck
Field		Qualified By	Kim Shoemaker

Test Information

Test Type	DST Conventional
Formation	Pawnee
Well Fluid Type	
Test Purpose	

Start Test Date	2017/04/17	Start Test Time	02:54:00
Final Test Date	2017/04/17	Final Test Time	11:16:00

Test Recovery

RECOVERY:
550' MCW with oil spots 300%M 70%W
110' Total Fluid

Tool Sample=Plugged with cuttings

Chlorides=36

LD Drilling
 Start Test Date: 2017/04/17
 Final Test Date: 2017/04/17

Baird 2-30 DST 4

Baird 2-30
 Formation: Pawnee
 Job Number: W284

