

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

DRILL-STEM TEST TICKET

STC/Earlsmith1dst1

ON 9:00 03/25/12

OFF 16:30 03/25/12

Company RITCHIE EXPLORATION Lease & Well No. EARL SMITH #1
Contractor MURFIN RIG 2 Charge to RITCHIE EXPLORATION
Elevation 3176 K.B Formation LANSING "I" Effective Pay _____ Ft. Ticket No. D1109
Date 3/25/12 Sec. 36 Twp. 17 S Range 35 W County WICHITA State KS
Test Approved By MAX LOVELY Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 4288 ft. to 4363 ft. Total Depth 4363 ft.

Packer Depth 4283 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4288 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4291 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4360 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 43 Drill Collar Length 270 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 16 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 9,500 P.P.M. Drill Pipe Length 3992 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number #5 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 75 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: STRONG (B.O.B 12 MINUTES) NO BB

2nd Open: STRONG (B.O.B 17 MINUTES) NO BB

Recovered 280 ft. of M+GC0 (20%MUD 25%GAS 55%OIL)

Recovered 250 ft. of SLOC GM (10%OIL 30%GAS 60%MUD)

Recovered 270 ft. of VSLOC GW (1%OIL 10%GAS 89%WATER) CHORIDES 42,000Ppm

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 800' (560' IN DRILL PIPE, 240' IN DRILL COLLARS)</u>	Insurance
<u>TOOL SAMPLE GRINDOUT: 5%OIL 95%WATER)</u>	
	Total

Time Set Packer(s) 11:30 A.M. A.M. P.M. Time Started Off Bottom 2:00 P.M. A.M. P.M. Maximum Temperature 118

Initial Hydrostatic Pressure _____ (A) 2049 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 59 P.S.I. to (C) 245 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1179 P.S.I.

Final Flow Period _____ Minutes 30 (E) 261 P.S.I. to (F) 368 P.S.I.

Final Closed In Period _____ Minutes 45 (G) 1161 P.S.I.

Final Hydrostatic Pressure _____ (H) 2016 P.S.I.

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GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION

Contact:

Phone: Fax: e-mail:

Site Information:

Contact: MAX LOVELY

Phone: Fax: e-mail:

Well Information:

Name: EARL SMITH #1

Operator: RITCHIE EXPLORATION

Location-Downhole:

Location-Surface: S36/17S/35W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAX LOVELY

Test Type: CONVENTIONAL Job Number: D1080

Test Unit:

Start Date: 2012/03/25 Start Time: 09:00:00

End Date: 2012/03/25 End Time: 16:30:00

Report Date: 2012/03/25 Prepared By: JOHN RIEDL

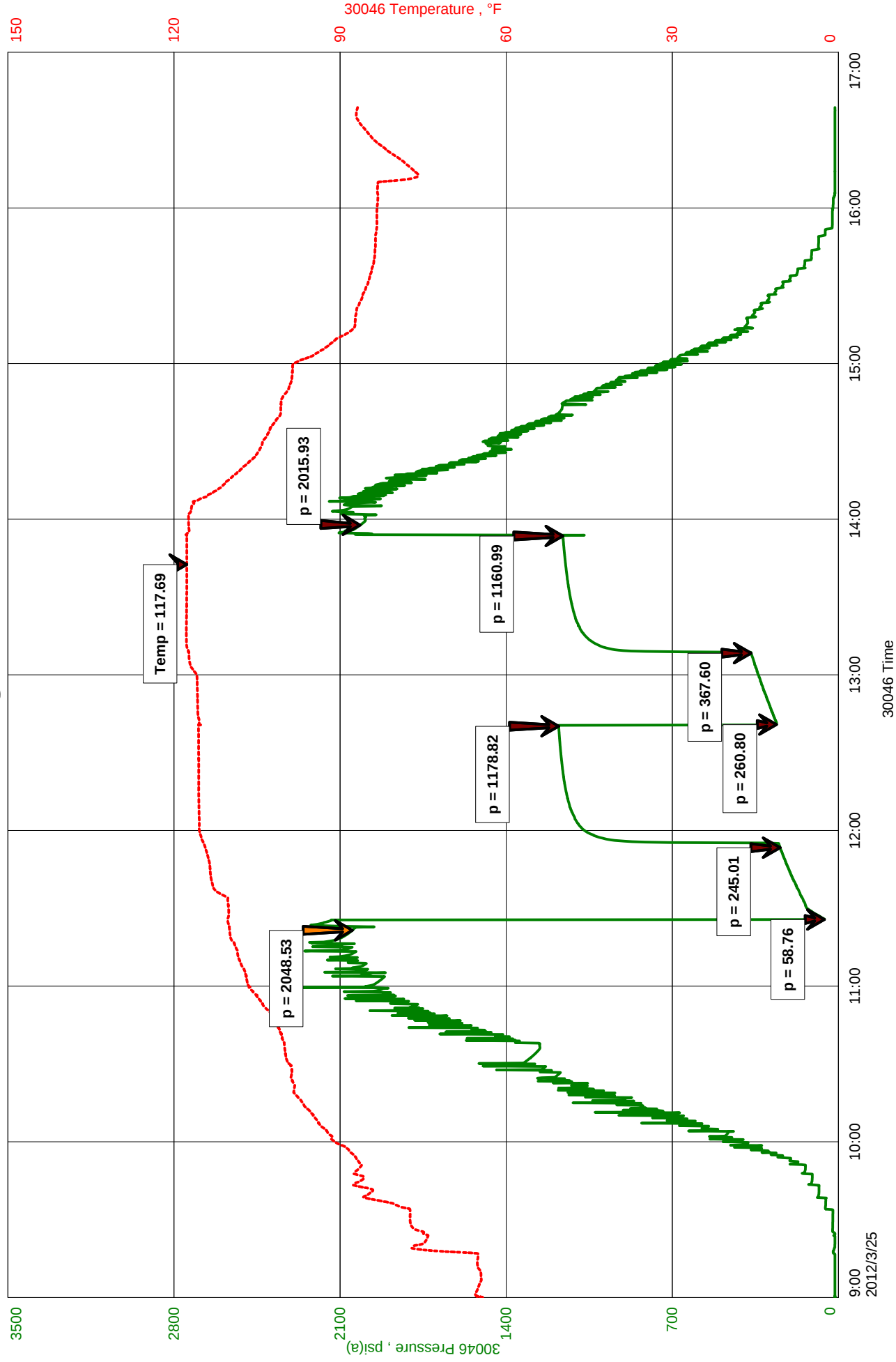
Remarks: Qualified By: MAX LOVELY

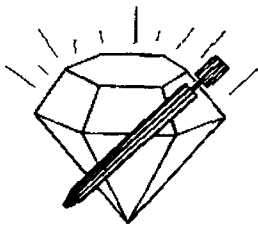
RECOVERY: 280' MUD+GAS CUT OIL, 250' SLIGHTLY OIL CUT GASSY MUD, 270' GASSY WATER

RITCHIE EXPLORATION
Start Test Date: 2012/03/25
Final Test Date: 2012/03/25

EARL SMITH #1
Formation: LANSING "I"
Job Number: D1080

EARL SMITH #1





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON 3:00 03/26/12

OFF 10:00 03/26/12

DRILL-STEM TEST TICKET

STC/Earlsmith1dst2

Company RITCHIE EXPLORATION Lease & Well No. EARL SMITH #1
Contractor MURFIN RIG 2 Charge to RITCHIE EXPLORATION
Elevation 3176 K.B Formation LANSING "K" Effective Pay _____ Ft. Ticket No. D1110
Date 3/26/12 Sec. 36 Twp. 17 S Range 35 W County WICHITA State KS
Test Approved By MAX LOVELY Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 4375 ft. to 4402 ft. Total Depth 4402 ft.

Packer Depth 4370 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4375 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4378 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4399 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 210 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 16 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 9,500 P.P.M. Drill Pipe Length 4139 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number #5 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 27 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: STRONG (B.O.B 10 MINUTES) NO BB

2nd Open: STRONG (B.O.B 17 MINUTES) NO BB

Recovered 50 ft. of SLOCMW (2%OIL 20%MUD 78%WATER)

Recovered 720 ft. of WATER (CHLORIDES 30,000 Ppm)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC: 770' (660' IN DRILL PIPE, 210' IN DRILL COLLARS)

TOOLSAMPLE GRINDOUT (100% WATER)

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 4:45 A.M. A.M. P.M. Time Started Off Bottom 7:45 A.M. A.M. P.M. Maximum Temperature 122

Initial Hydrostatic Pressure _____ (A) 2057 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 51 P.S.I. to (C) 248 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1220 P.S.I.

Final Flow Period _____ Minutes 30 (E) 260 P.S.I. to (F) 390 P.S.I.

Final Closed In Period _____ Minutes 45 (G) 1213 P.S.I.

Final Hydrostatic Pressure _____ (H) 2010 P.S.I.

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GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION

Contact: MIKE ENGELBRECHT

Phone: Fax: e-mail:

Site Information:

Contact: MAX LOVELY

Phone: Fax: e-mail:

Well Information:

Name: EARL SMITH #1

Operator: RITCHIE EXPLORATION

Location-Downhole:

Location-Surface: S36/17S/35W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAX LOVELY

Test Type: CONVENTIONAL Job Number: D1110

Test Unit:

Start Date: 2012/03/26 Start Time: 03:00:00

End Date: 2012/03/26 End Time: 10:00:00

Report Date: 2012/03/26 Prepared By: JOHN RIEDL

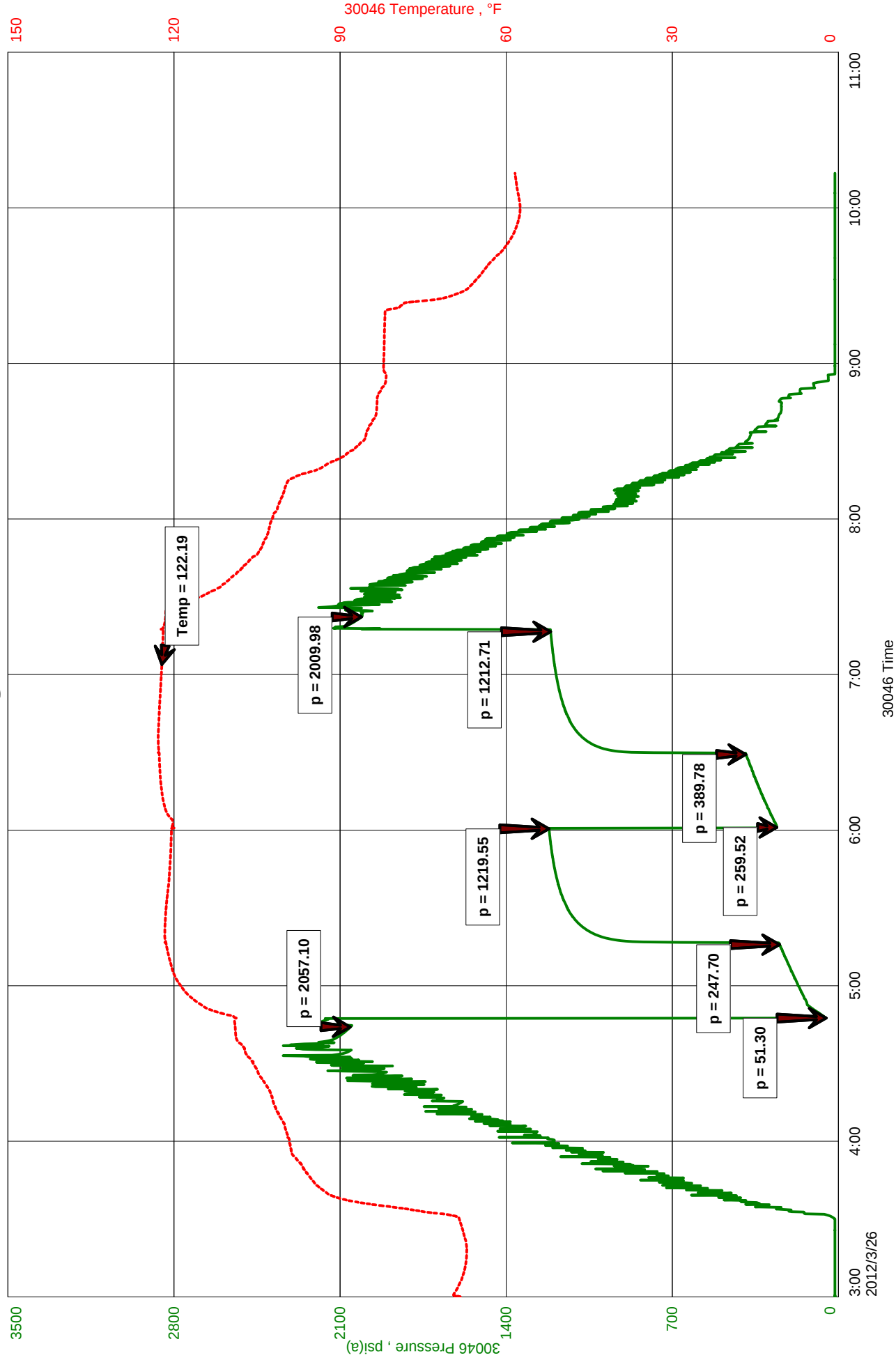
Remarks: Qualified By: MAX LOVELY

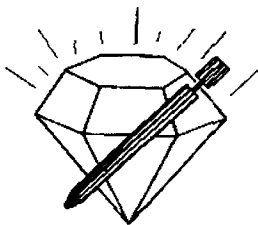
RECOVERY: 50' VERY SLIGHTLY OIL CUT MUDDY WATER, 720' WATER

RITCHIE EXPLORATION
Start Test Date: 2012/03/26
Final Test Date: 2012/03/26

EARL SMITH #1
Formation: LANSNG "K"
Job Number: D1110

EARL SMITH #1





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON 8:00 03/27/12

OFF 15:00 03/27/12

DRILL-STEM TEST TICKET

STC/Earlsmith1dst3

Company RITCHIE EXPLORATION Lease & Well No. EARL SMITH #1
Contractor MURFIN RIG 2 Charge to RITCHIE EXPLORATION
Elevation 3176 K.B Formation PLEASATON Effective Pay _____ Ft. Ticket No. D1111
Date 3/26/12 Sec. 36 Twp. 17 S Range 35 W County WICHITA State KS
Test Approved By MAX LOVELY Diamond Representative JOHN C. RIEDL

Formation Test No. 3 Interval Tested from 4467 ft. to 4521 ft. Total Depth 4521 ft.

Packer Depth 4462 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4467 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4470 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4518 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 67 Drill Collar Length 210 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 9,100 P.P.M. Drill Pipe Length 4231 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number _____ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 54 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: STRONG (B.O.B 18 MINUTES) NO BB

2nd Open: STRONG (B.O.B 17 MINUTES) NO BB

Recovered 620 ft. of SLMCW (5%MUD 95%WATER) CHLORIDES 26,000 Ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC: 620' (410' IN DRILL PIPE, 210' IN DRILL COLLARS)

TOOL SAMPLE GRINDOUT (100 % WATER)

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 10:05 A.M. A.M. P.M. Time Started Off Bottom 12:35 P.M. A.M. P.M. Maximum Temperature 121

Initial Hydrostatic Pressure (A) 2131 P.S.I.

Initial Flow Period Minutes 30 (B) 42 P.S.I. to (C) 197 P.S.I.

Initial Closed In Period Minutes 45 (D) 1211 P.S.I.

Final Flow Period Minutes 30 (E) 208 P.S.I. to (F) 288 P.S.I.

Final Closed In Period Minutes 45 (G) 1193 P.S.I.

Final Hydrostatic Pressure (H) 2119 P.S.I.

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GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION

Contact: MIKE ENGELBRECHT

Phone: Fax: e-mail:

Site Information:

Contact: MAX LOVELY

Phone: Fax: e-mail:

Well Information:

Name: EARL SMITH #1

Operator: RITCHIE EXPLORATION

Location-Downhole:

Location-Surface: S36/17S/35W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAX LOVELY

Test Type: CONVENTIONAL Job Number: D111

Test Unit:

Start Date: 2012/03/27 Start Time: 08:00:00

End Date: 2012/03/27 End Time: 15:00:00

Report Date: 2012/03/27 Prepared By: JOHN RIEDL

Qualified By: MAX LOVELY

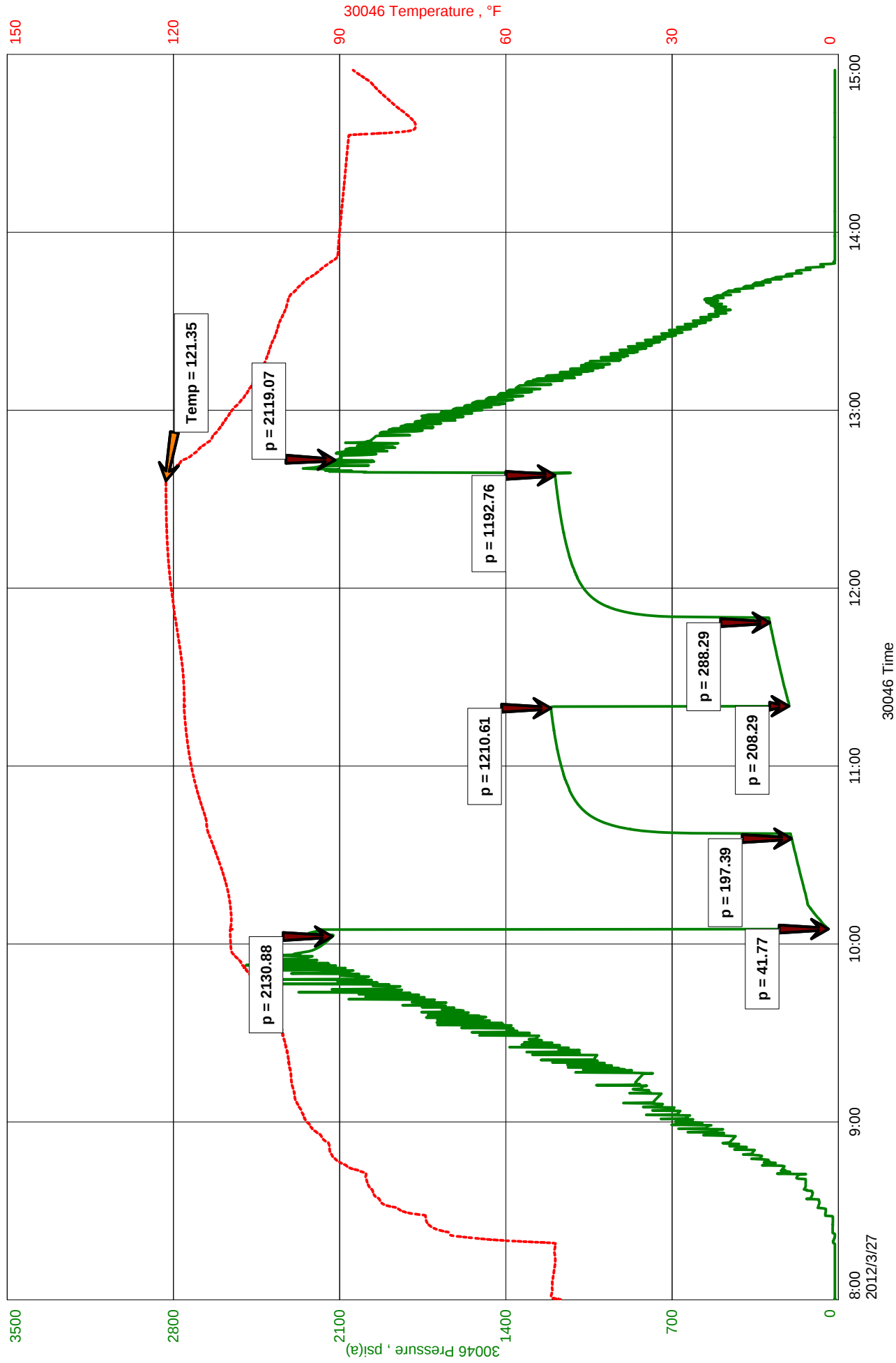
Remarks:

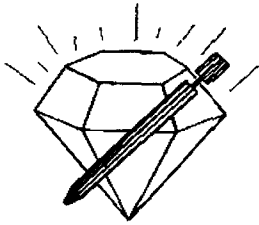
RECOVERY: 620' SLIGHTLY MUD CUT WATER

RITCHIE EXPLORATION
Start Test Date: 2012/03/27
Final Test Date: 2012/03/27

EARL SMITH #1
Formation: PLEASANTON
Job Number: D111

EARL SMITH #1





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON 08:00 03/28/12

OFF 15:30 03/28/12

DRILL-STEM TEST TICKET

STC/Earlsmith1dst4

Company RITCHIE EXPLORATION Lease & Well No. EARL SMITH #1
Contractor MURFIN RIG 2 Charge to RITCHIE EXPLORATION
Elevation 3176 K.B Formation ALTAMONT "B" Effective Pay _____ Ft. Ticket No. D1112
Date 3/28/12 Sec. 36 Twp. 17 S Range 35 W County WICHITA State KS
Test Approved By MAX LOVELY Diamond Representative JOHN C. RIEDL

Formation Test No. 4 Interval Tested from 4557 ft. to 4584 ft. Total Depth 4584 ft.

Packer Depth 4552 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4557 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4560 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4581 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 210 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 8,100 P.P.M. Drill Pipe Length 4321 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number #5 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 27 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: STRONG (11") NO BB

2nd Open: STRONG (B.O.B 42 MINUTES) NO BB

Recovered 200 ft. of GAS IN PIPE

Recovered 250 ft. of M+GCO (10%MUD 25%GAS 65%OIL) GRAVITY 28 @ 60 DEGREES

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC:250 ' (40' IN DRILL PIPE, 210' IN DRILL COLLARS)

TOOL SAMPLE GRINDOUT (200% OIL)

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 10:10 A.M. A.M. P.M. Time Started Off Bottom 1:10 P.M. A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 2138 P.S.I.

Initial Flow Period Minutes 30 (B) 35 P.S.I. to (C) 65 P.S.I.

Initial Closed In Period Minutes 45 (D) 1306 P.S.I.

Final Flow Period Minutes 45 (E) 74 P.S.I. to (F) 110 P.S.I.

Final Closed In Period Minutes 60 (G) 1285 P.S.I.

Final Hydrostatic Pressure (H) 2113 P.S.I.

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GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION

Contact: MIKE ENGELBRECHT

Phone: Fax: e-mail:

Site Information:

Contact: MAX LOVELY

Phone: Fax: e-mail:

Well Information:

Name: EARL SMITH #1

Operator: RITCHIE EXPLORATION

Location-Downhole:

Location-Surface: S36/17S/35W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAX LOVELY

Test Type: CONVENTIONAL Job Number: D1112

Test Unit:

Start Date: 2012/03/28 Start Time: 08:00:00

End Date: 2012/03/28 End Time: 15:30:00

Report Date: 2012/03/28 Prepared By: JOHN RIEDL

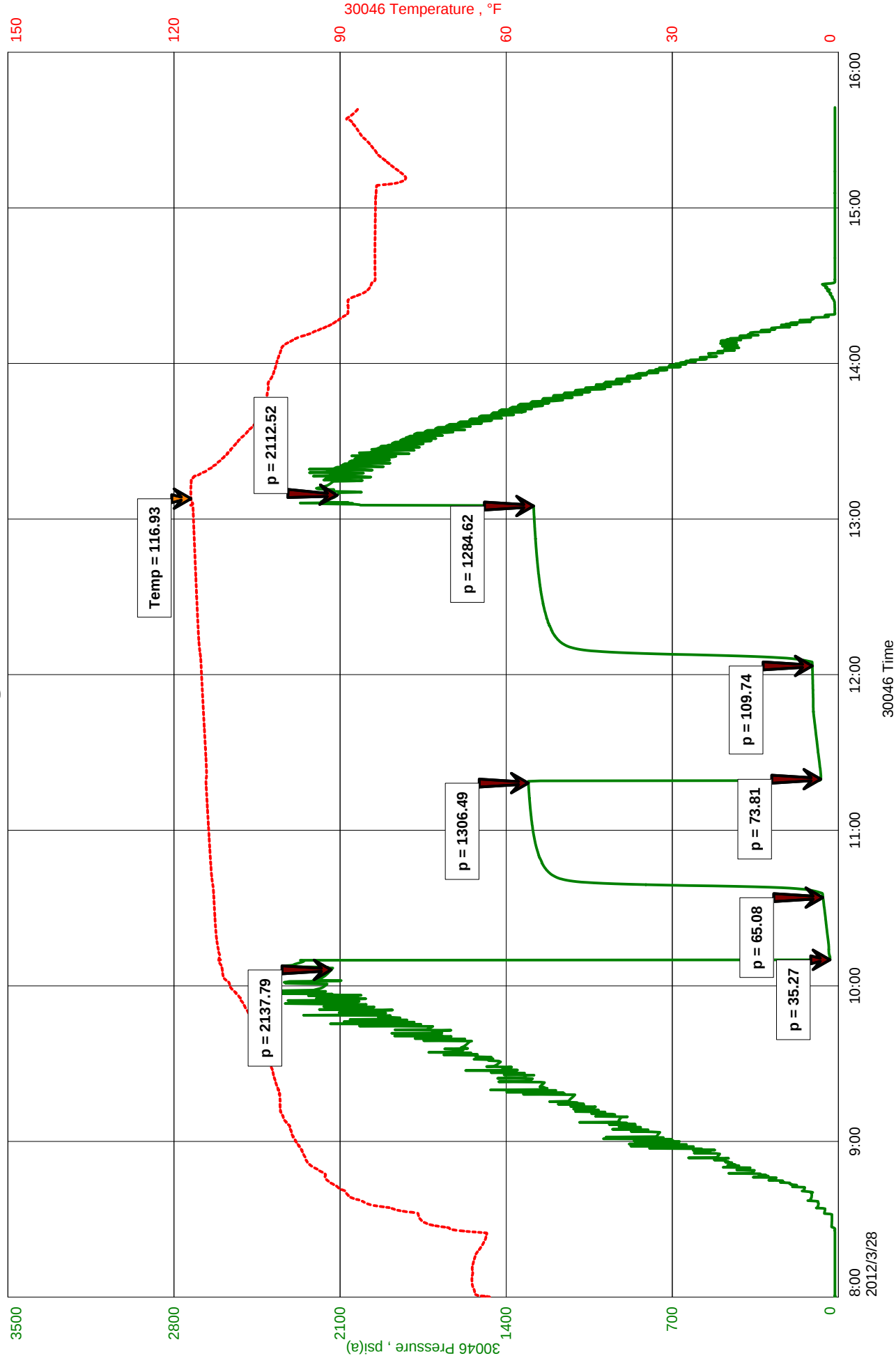
Remarks: Qualified By: MAX LOVELY

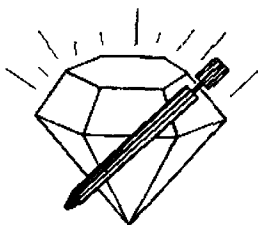
RECOVERY: 200' GAS IN PIPE, 250' GASSY OIL WITH SOME MUD CUT

RITCHIE EXPLORATION
Start Test Date: 2012/03/28
Final Test Date: 2012/03/28

EARL SMITH #1
Formation: ALTAMONT "B"
Job Number: D1112

EARL SMITH #1





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON 05:45 03/29/12

OFF 13:10 03/29/12

DRILL-STEM TEST TICKET

STC/Earlsmith1dst5

Company RITCHIE EXPLORATION Lease & Well No. EARL SMITH #1
Contractor MURFIN RIG 2 Charge to RITCHIE EXPLORATION
Elevation 3176 K.B Formation PAWNEE Effective Pay _____ Ft. Ticket No. D1113
Date 3/29/12 Sec. 36 Twp. 17 S Range 35 W County WICHITA State KS
Test Approved By MAX LOVELY Diamond Representative JOHN C. RIEDL

Formation Test No. 5 Interval Tested from 4596 ft. to 4640 ft. Total Depth 4640 ft.

Packer Depth 4591 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4596 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4599 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 4637 ft. Recorder Number 11073 Cap. 4000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 68 Drill Collar Length 210 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 8,100 P.P.M. Drill Pipe Length 4321 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 44 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: STRONG (B.O.B 14 MINUTES) STRONG BB 11"

2nd Open: STRONG (B.O.B 14 MINUTES) STRONG BB (B.O.B 25 MIN.)

Recovered 400 ft. of GAS IN PIPE

Recovered 260 ft. of GO (15%GAS 85%OIL)

Recovered 150 ft. of MGO (15%MUD 15%GAS 70%OIL) 28 GRAVITY @ 60 DEGREES

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: TOTAL FLUID REC:510' (300' IN DRILL PIPE, 210' IN DRILL COLLARS) Insurance _____

TOOL SAMPLE GRINDOUT (100% OIL)) _____

_____ Total _____

Time Set Packer(s) 7:35 A.M. A.M. Time Started Off Bottom 10:35 A.M. P.M. Maximum Temperature 121

Initial Hydrostatic Pressure _____ (A) 2210 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 40 P.S.I. to (C) 126 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1173 P.S.I.

Final Flow Period _____ Minutes 45 (E) 152 P.S.I. to (F) 216 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1165 P.S.I.

Final Hydrostatic Pressure _____ (H) 2150 P.S.I.

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GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION

Contact: MIKE ENGELBRECHT

Phone: Fax: e-mail:

Site Information:

Contact: MAX LOVELY

Phone: Fax: e-mail:

Well Information:

Name: EARL SMITH #1

Operator: RITCHIE OPERATIONS

Location-Downhole:

Location-Surface: S336/17S/35W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAX LOVELY

Test Type: CONVENTIONAL Job Number: D1113

Test Unit:

Start Date: 2012/03/29 Start Time: 05:45:00

End Date: 2012/03/29 End Time: 23:10:00

Report Date: 2012/03/29 Prepared By: JOHN RIEDL

Remarks: Qualified By: MAX LOVELY

RECOVERY: 400' GAS IN PIPE, 360' GASSY OIL, 150' MUD CUT GASSY OIL

RITCHIE EXPLORATION
Start Test Date: 2012/03/29
Final Test Date: 2012/03/29

EARL SMITH #1
Formation: PAWNEE
Job Number: D1113

EARL SMITH #1

