



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DUHLER-SCHMIDT1DST1

TIME ON: 05:42
TIME OFF: 14:42

Company RITCHIE EXPLORATION, INC. Lease & Well No. DUHLER-SCHMIDT #1
Contractor DUKE DRILLING CO., INC. RIG #10 Charge to RITCHIE EXPLORATION, INC.
Elevation 2439 KB Formation ALTAMONT/PAWNEE Effective Pay _____ Ft. Ticket No. T116
Date 10-30-12 Sec. 14 Twp. _____ 26 S Range _____ 23 W County FORD State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4664 ft. to 4740 ft. Total Depth 4740 ft.
Packer Depth 4659 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4664 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside)	<u>4645 ft.</u>	Recorder Number	<u>8457</u>	Cap.	<u>10,000 P.S.I.</u>
Bottom Recorder Depth (Outside)	<u>4737 ft.</u>	Recorder Number	<u>11030</u>	Cap.	<u>5,025 P.S.I.</u>
Below Straddle Recorder Depth	_____ ft.	Recorder Number	_____	Cap.	_____ P.S.I.
Mud Type	<u>CHEMICAL</u>	Viscosity	<u>55</u>	Drill Collar Length	<u>0 ft.</u> I.D. <u>2 1/4</u> in.
Weight	<u>9.15</u>	Water Loss	<u>8.4</u> cc.	Weight Pipe Length	<u>0 ft.</u> I.D. <u>2 7/8</u> in.
Chlorides	<u>3,900 P.P.M.</u>	Drill Pipe Length	<u>4631 ft.</u>	I.D.	<u>3 1/2</u> in.
Jars: Make	<u>STERLING</u>	Serial Number	<u>4</u>	Test Tool Length	<u>33 ft.</u> Tool Size <u>3 1/2-IF</u> in.
Did Well Flow?	<u>NO</u>	Reversed Out	<u>NO</u>	Anchor Length	<u>44 ft.</u> Size <u>4 1/2-FH</u> in.
Main Hole Size	<u>7 7/8</u>	Tool Joint Size	<u>4 1/2 XH</u> in.	32' DP IN ANCHOR	
		Surface Choke Size	<u>1</u> in.	Bottom Choke Size	<u>5/8</u> in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 1/2 INCH. (NOBB)
2nd Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NOBB)

Recovered <u>15 ft.</u> of <u>MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>SPOTTY OIL, 100% MUD</u>	Total

Time Set Packer(s)	<u>9:28 AM</u>	A.M. P.M.	Time Started Off Bottom	<u>12:28 PM</u>	A.M. P.M.	Maximum Temperature	<u>115 deg.</u>
Initial Hydrostatic Pressure	_____ (A)			<u>2263 P.S.I.</u>			
Initial Flow Period	_____ Minutes	<u>30</u> (B)		<u>8 P.S.I.</u> to (C)		<u>13 P.S.I.</u>	
Initial Closed In Period	_____ Minutes	<u>45</u> (D)		<u>31 P.S.I.</u>			
Final Flow Period	_____ Minutes	<u>45</u> (E)		<u>11 P.S.I.</u> to (F)		<u>11 P.S.I.</u>	
Final Closed In Period	_____ Minutes	<u>60</u> (G)		<u>20 P.S.I.</u>			
Final Hydrostatic Pressure	_____ (H)			<u>2261 P.S.I.</u>			

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 RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name DUHLER-SCHMIDT #1
Unique Well ID DST #1, ALT./PAWN., 4664-4770
Surface Location SEC 14-26S-23W, FORD CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTTIONAL
Formation DST #1, ALT./PAWN., 4664-4740
Well Fluid Type 01 Oil

Start Test Date 2012/10/30
Final Test Date 2012/10/30

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2012/10/30
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 05:42:00
Final Test Time 14:42:00

Test Recovery:

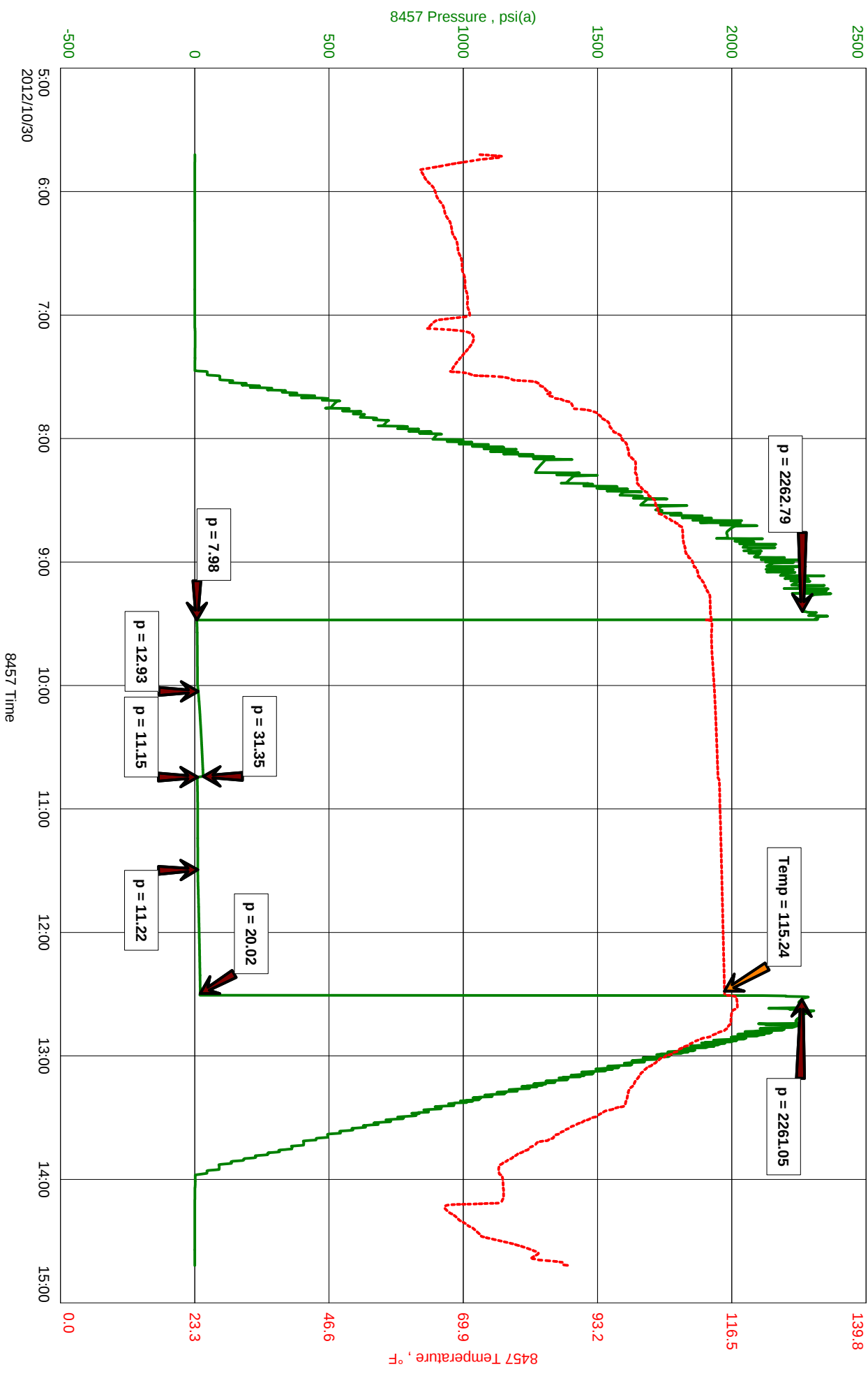
RECOVERED: 15' MUD

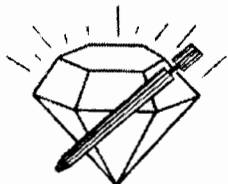
TOOL SAMPLE: SPOTTY OIL, 100% MUD

RITCHIE EXPLORATION, INC.
DST #1, ALT./PAWN, 4664-4770
Start Test Date: 2012/10/30
Final Test Date: 2012/10/30

DUHLER-SCHMIDT #1

DUHLER-SCHMIDT #1
Formation: DST #1, ALT./PAWN, 4664-4740
Pool: WILDCAT
Job Number: T116





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DUHLER-SCHMIDT1DST2

TIME ON: 11:05

TIME OFF: 21:32

Company RITCHIE EXPLORATION, INC. Lease & Well No. DUHLER-SCHMIDT #1
Contractor DUKE DRILLING CO., INC. RIG #10 Charge to RITCHIE EXPLORATION, INC.
Elevation 2439 KB Formation CK-HUCK Effective Pay _____ Ft. Ticket No. T117
Date 10-31-12 Sec. 14 Twp. 26 S Range 23 W County FORD State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4805 ft. to 4870 ft. Total Depth 4870 ft.
Packer Depth 4800 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4805 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4786 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4802 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 4,600 P.P.M. Drill Pipe Length 4772 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 34 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: VERY STRONG BLOW HITTING BOB INSTANTANEOUSLY. (WSBB)
2nd Open: VERY STRONG BLOW HITTING BOB INSTANTANEOUSLY. (NOBB)

Recovered 4625 ft. of GAS IN PIPE
Recovered 140 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

TOOL SAMPLE: 1% OIL, 99% MUD

Time Set Packer(s) 1:55 PM A.M. P.M. Time Started Off Bottom 7:10 PM A.M. P.M. Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 2302 P.S.I.
Initial Flow Period..... Minutes 30 (B) 347 P.S.I. to (C) 240 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1320 P.S.I.
Final Flow Period..... Minutes 120 (E) 291 P.S.I. to (F) 156 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1444 P.S.I.
Final Hydrostatic Pressure..... (H) 2302 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name DUHLER-SCHMIDT #1
Unique Well ID DST #2, CK-HUCK, 4805-4870
Surface Location SEC 14-26S-23W, FORD CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, CK-HUCK, 4805-4870
Well Fluid Type 02 Gas

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2012/10/31
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/10/31
Final Test Date 2012/10/31

Start Test Time 11:05:00
Final Test Time 21:32:00

Test Recovery:

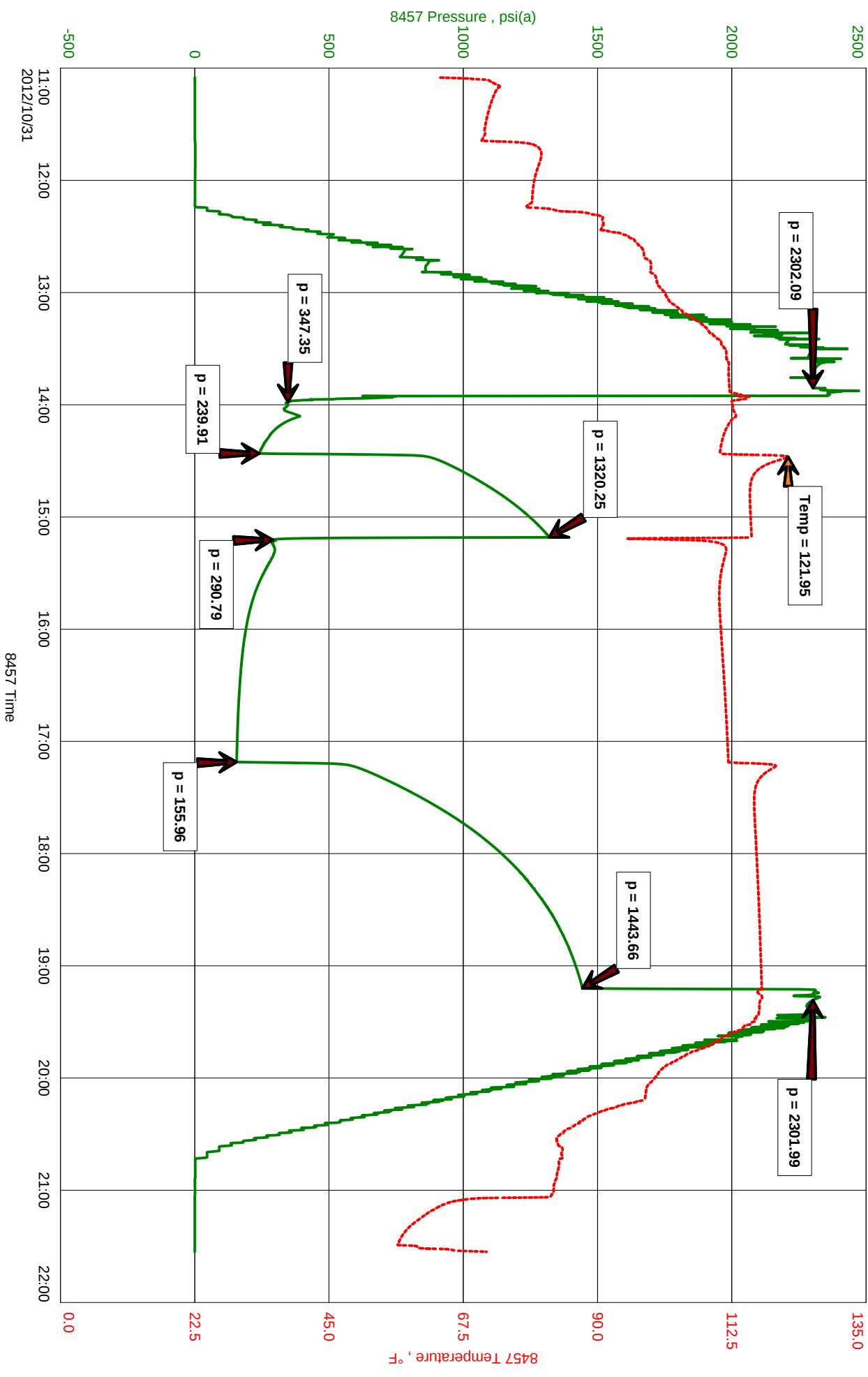
RECOVERED: 4625' GAS IN PIPE
140' MUD

TOOL SAMPLE: 1% OIL, 99% MUD

RITCHIE EXPLORATION, INC.
DST #2, CK-HUCK, 4805-4870
Start Test Date: 2012/10/31
Final Test Date: 2012/10/31

DUHLER-SCHMIDT #1
Formation: DST #2, CK-HUCK, 4805-4870
Pool: WILDCAT
Job Number: T117

DUHLER-SCHMIDT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DUHLER-SCHMIDT1DST3

TIME ON: 20:47 11-1-12
TIME OFF: 05:30 11-2-12

Company RITCHIE EXPLORATION, INC. Lease & Well No. DUHLER-SCHMIDT #1
Contractor DUKE DRILLING CO., INC. RIG #10 Charge to RITCHIE EXPLORATION, INC.
Elevation 2439 KB Formation MISS.-SALEM Effective Pay _____ Ft. Ticket No. T118
Date 11-1-12 Sec. 14 Twp. 26 S Range 23 W County FORD State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4904 ft. to 4990 ft. Total Depth 4990 ft.
Packer Depth 4899 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4904 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4885 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4987 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 53 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.15 Water Loss 10.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 5,300 P.P.M. Drill Pipe Length 4871 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 23 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 INCH BLOW, BUILDING, REACHING BOB 5 MIN. (NOBB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 6 1/2 MIN. (NOBB)

Recovered 90 ft. of HWCM, 46% WATER, 54% MUD

Recovered 1220 ft. of MCW, 73% WATER, 27% MUD

Recovered 95 ft. of SMCW, 97% WATER, 3% MUD

Recovered 1405 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 58,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .20 @ 76 deg.	Insurance
TOOL SAMPLE: 95% WATER, 5% MUD		Total

Time Set Packer(s) 11:36 PM A.M. P.M. Time Started Off Bottom 2:21 AM A.M. P.M. Maximum Temperature 127 deg.

Initial Hydrostatic Pressure _____ (A) 2334 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 36 P.S.I. to (C) 388 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 1490 P.S.I.
Final Flow Period _____ Minutes 30 (E) 392 P.S.I. to (F) 649 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 1487 P.S.I.
Final Hydrostatic Pressure _____ (H) 2314 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name DUHLER-SCHMIDT #1
Unique Well ID DST #3, MISS.-SALEM, 4904-4990
Surface Location SEC 14-26S-23W, FORD CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, MISS.-SALEM, 4904-4990
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2012/11/02
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2012/11/01
Final Test Date 2012/11/02

Start Test Time 20:47:00
Final Test Time 05:30:00

Test Recovery:

RECOVERED: 90' HWCM, 46% WATER, 54% MUD
1220' MCW, 73% WATER, 27% MUD
95' SMCW, 97% WATER, 3% MUD
1405' TOTAL FLUID

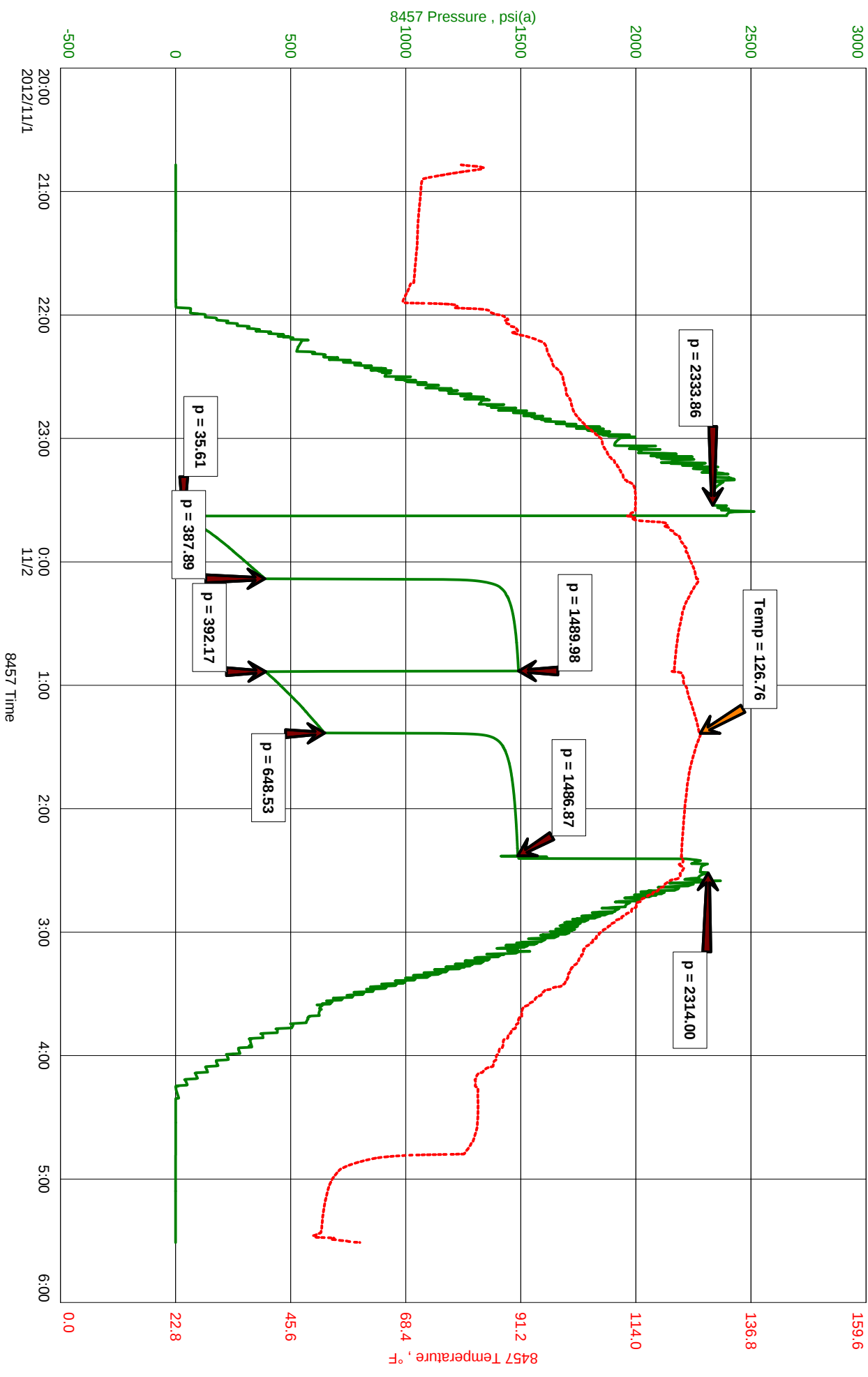
TOOL SAMPLE: 95% WATER, 5% MUD

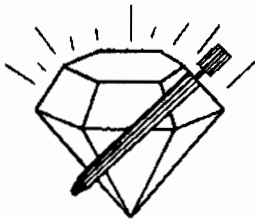
CHLORIDES: 58,000 ppm
PH: 7.0
RW: .20 @ 76 deg.

RITCHIE EXPLORATION, INC.
DST #3, MISS.-SALEM, 4904-4990
Start Test Date: 2012/11/01
Final Test Date: 2012/11/02

DUHLER-SCHMIDT #1
Formation: DST #3, MISS.-SALEM, 4904-4990
Pool: WILDCAT
Job Number: T118

DUHLER-SCHMIDT #1





DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550
GAS VOLUME REPORT

Company RITCHIE EXPLORATION, INC. Lease & Well No. DUHLER-SCHMIDT #1
Date 10-31-12 Sec. 14 Twp. 26S Rge. 23W Location _____ County FORD State KS
Drilling Contractor DUKE DRILLING, CO. RIG #10 Formation CK-HUCK DST No. 2
Remarks: GAS TO SURFACE 10 MIN. INTO INITIAL FLOW PERIOD.

INITIAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
10	1 1/2 in.	32 in.	2,675,000
15	1 1/2 in.	22 in.	2,075,000
20	1 1/2 in.	18 in.	1,824,000
*25	1 1/2 in.	16 in.	1,694,000
30	1 1/2 in.	13 in.	1,490,000
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
10	1 1/4 in.	30 in.	1,579,000
20	1 1/4 in.	25 in.	1,421,000
30	1 1/4 in.	21 in.	1,270,000
40	1 1/4 in.	18 in.	1,146,000
50	1 1/4 in.	16 in.	1,064,000
60	1 1/4 in.	15 in.	1,023,000
70	1 1/4 in.	14 in.	980,000
80	1 1/4 in.	12 in.	893,000
90	1 1/4 in.	12 in.	893,000
100	1 1/4 in.	11 in.	847,000
*110	1 1/4	11	847,000
120	1 1/4	11	847,000

* TOOK SAMPLE