

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	COBALT ENERGY, LLC	Job Number	T565
Contact	NICHOLAS HESS	Representative	TIM VENTERS
Well Name	BROTHERS "A" #1-11	Well Operator	COBALT ENERGY, LLC
Unique Well ID	DST #1, KRIDOR, 2584-2625	Report Date	2016/10/14
Surface Location	SEC 11-20S-33W, SCOTT CO. KS.	Prepared By	TIM VENTERS
Well License Number			
Field	SHALLOW WATER		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL		
Formation	DST #1, KRIDOR, 2584-2625		
Well Fluid Type	02 Gas		
Test Purpose	Initial Test	Gauge Name	5504

Start Test Date	2016/10/13		
Final Test Date	2016/10/14	Start Test Time	23:22:00
		Final Test Time	08:27:00

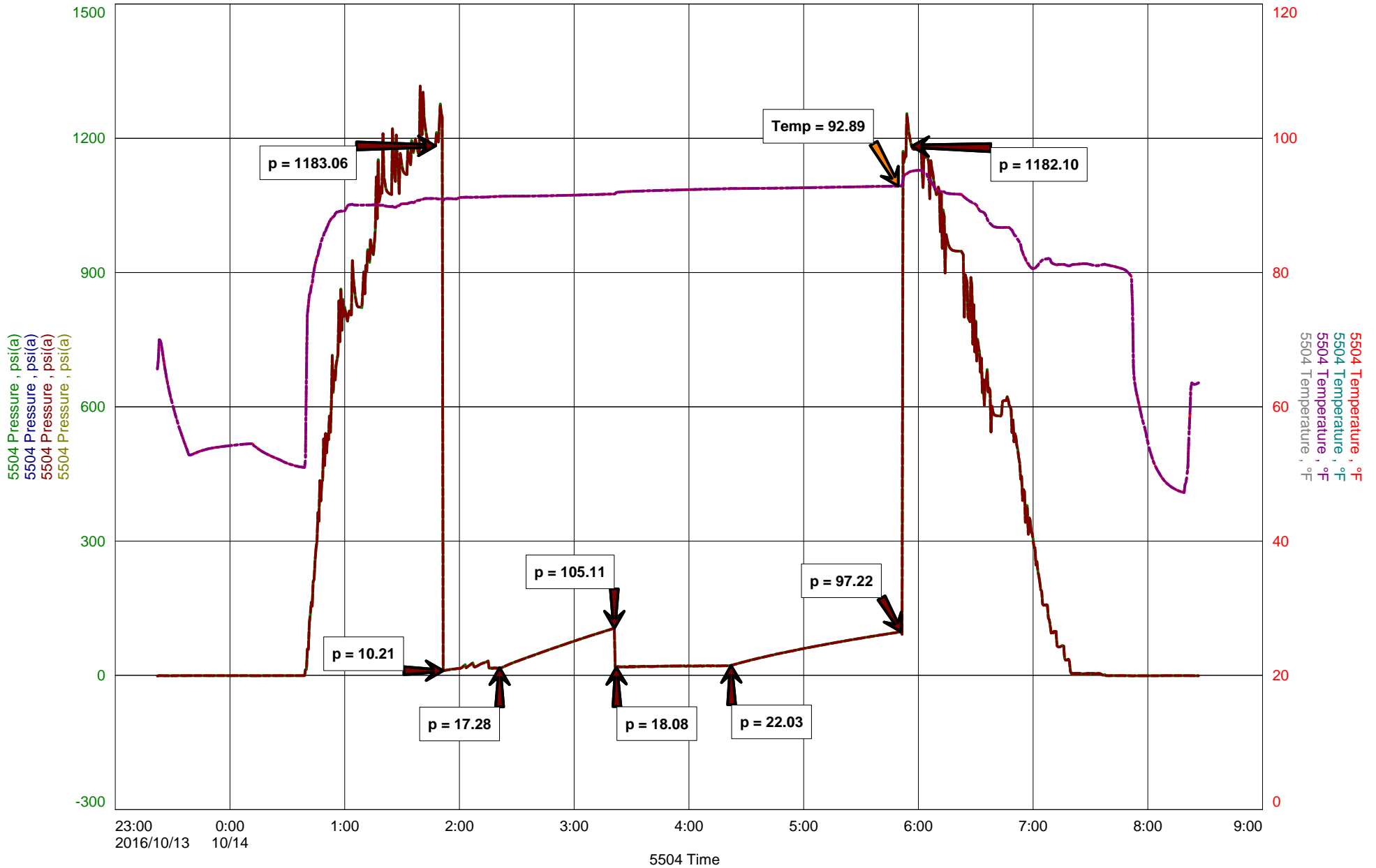
Gauge Name	5504
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Test Results

RECOVERED: 20' DRILLING MUD

TOOL SAMPLE: 100% DRILLING MUD

BROTHERS "A" #1-11





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BROTHERSA1-1DST1

TIME ON: 23:22 10-13-16
TIME OFF: 08:27 10-14-16

Company COBALT ENERGY, LLC Lease & Well No. BROTHERS "A" #1-11
Contractor MURFIN DRILLING CO., INC. RIG #22 Charge to COBALT ENERGY, LLC
Elevation 2961 KB Formation KRIDER Effective Pay _____ Ft. Ticket No. T565
Date 10-14-16 Sec. 11 Twp. 20 S Range 33 W County SCOTT State KANSAS
Test Approved By TERRY MCLEOD Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 2584 ft. to 2625 ft. Total Depth 2625 ft.
Packer Depth 2579 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 2584 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2570 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2622 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 33 Drill Collar Length 204 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss N/C cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 23,000 P.P.M. Drill Pipe Length 2352 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number STY JT. 1 SP Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 41 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 SURFACE BLOW, BUILDING TO 1 3/4 INCH. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING TO 1/14", DEPLETING BACK TO 1/2" (NO BB)

Recovered 20 ft. of DRILLING MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% DRILLING MUD	Total

Time Set Packer(s) 1:51 AM A.M. P.M. Time Started Off Bottom 5:51 AM A.M. P.M. Maximum Temperature 93 deg.

Initial Hydrostatic Pressure..... (A) 1183 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 105 P.S.I.
Final Flow Period..... Minutes 60 (E) 18 P.S.I. to (F) 22 P.S.I.
Final Closed In Period..... Minutes 90 (G) 97 P.S.I.
Final Hydrostatic Pressure..... (H) 1182 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, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	COBALT ENERGY, LLC	Job Number	T566
Contact	NICHOLAS HESS	Representative	TIM VENTERS
Well Name	BROTHERS "A" #1-11	Well Operator	COBALT ENERGY, LLC
Unique Well ID	DST #2, CHEROKEE, 4518-4590	Report Date	2016/10/21
Surface Location	SEC 11-20S-33W, SCOTT CO. KS.	Prepared By	TIM VENTERS
Well License Number			
Field	SHALLOW WATER		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST #2, CHEROKEE, 4518-4590
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/10/21	Start Test Time	00:26:00
Final Test Date	2016/10/21	Final Test Time	08:35:00

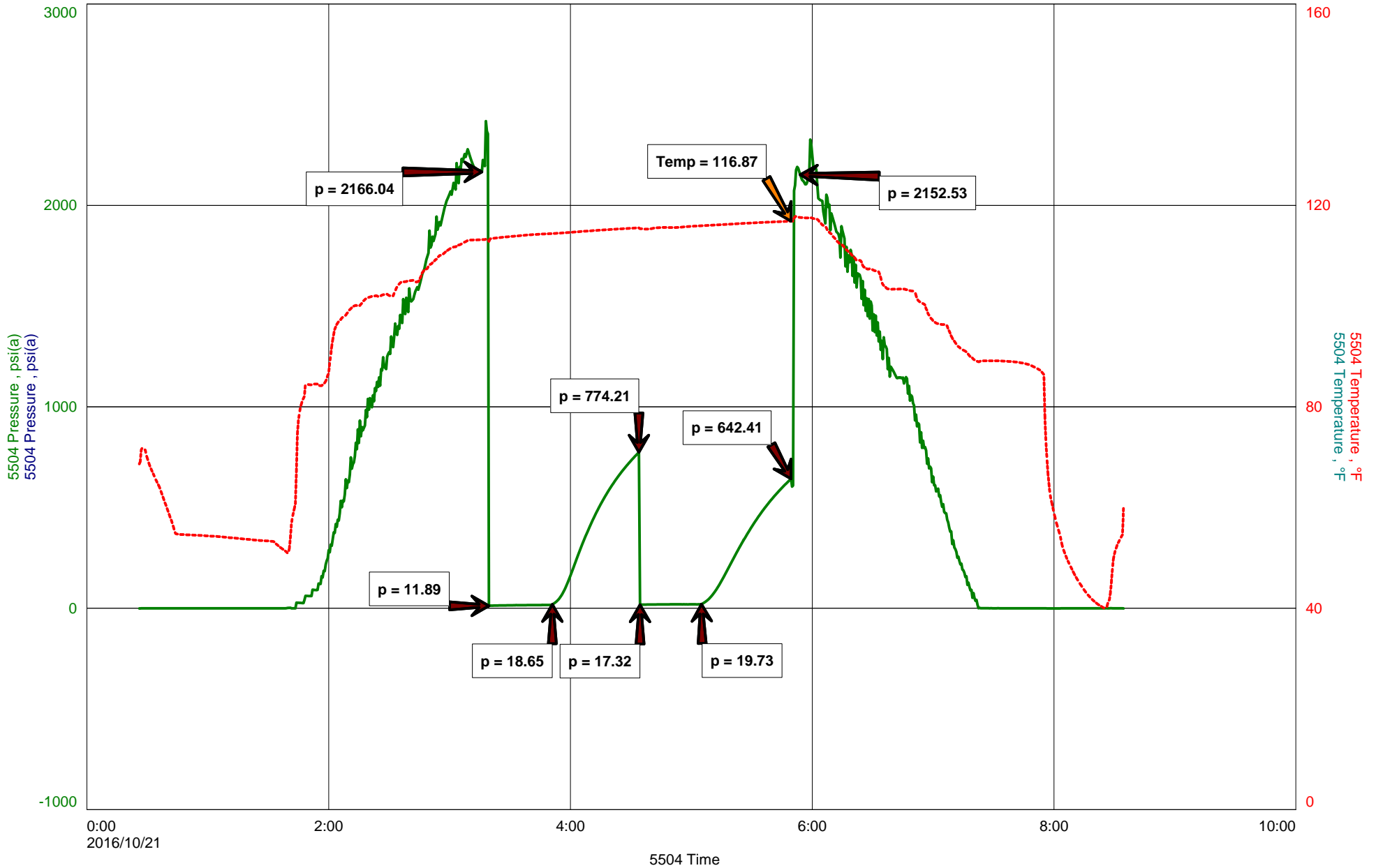
Gauge Name	5504
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Test Results

RECOVERED: 5' DRILLING MUD

TOOL SAMPLE: 100% DRILLING MUD

BROTHERS "A" #1-11





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BROTHERSA1-1DST2

TIME ON: 00:26
TIME OFF: 08:35

Company COBALT ENERGY, LLC Lease & Well No. BROTHERS "A" #1-11
Contractor MURFIN DRILLING CO., INC. RIG #22 Charge to COBALT ENERGY, LLC
Elevation 2961 KB Formation CHEROKEE Effective Pay _____ Ft. Ticket No. T566
Date 10-21-16 Sec. 11 Twp. 20 S Range 33 W County SCOTT State KANSAS
Test Approved By TERRY MCLEOD Diamond Representative TIM VENTERS

Formation Test No. 2 Interval Tested from 4518 ft. to 4590 ft. Total Depth 4590 ft.
Packer Depth 4513 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4518 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4499 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4587 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 57 Drill Collar Length 204 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,500 P.P.M. Drill Pipe Length 4281 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4, 1SP Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 41 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 SURFACE BLOW THROUGHOUT PERIOD. (NO BB)
2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 5 ft. of DRILLING MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% DRILLING MUD	Total

Time Set Packer(s) 3:19 AM ^{A.M.} P.M. Time Started Off Bottom 5:49 AM ^{A.M.} P.M. Maximum Temperature 117 deg.

Initial Hydrostatic Pressure..... (A) 2166 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 774 P.S.I.
Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 20 P.S.I.
Final Closed In Period..... Minutes 45 (G) 642 P.S.I.
Final Hydrostatic Pressure..... (H) 2153 P.S.I.

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DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	COBALT ENERGY, LLC	Job Number	T567
Contact	NICHOLAS HESS	Representative	TIM VENTERS
Well Name	BROTHERS "A" #1-11	Well Operator	COBALT ENERGY, LLC
Unique Well ID	DST #3, MORROW SD., 4581-4660	Report Date	2016/10/21
Surface Location	SEC 11-20S-33W, SCOTT CO. KS.	Prepared By	TIM VENTERS
Well License Number			
Field	SHALLOW WATER		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST #3, MORROW SD., 4581-4660
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/10/21	Start Test Time	17:45:00
Final Test Date	2016/10/21	Final Test Time	23:08:00

Test Results

RECOVERED: 290' DRILLING MUD

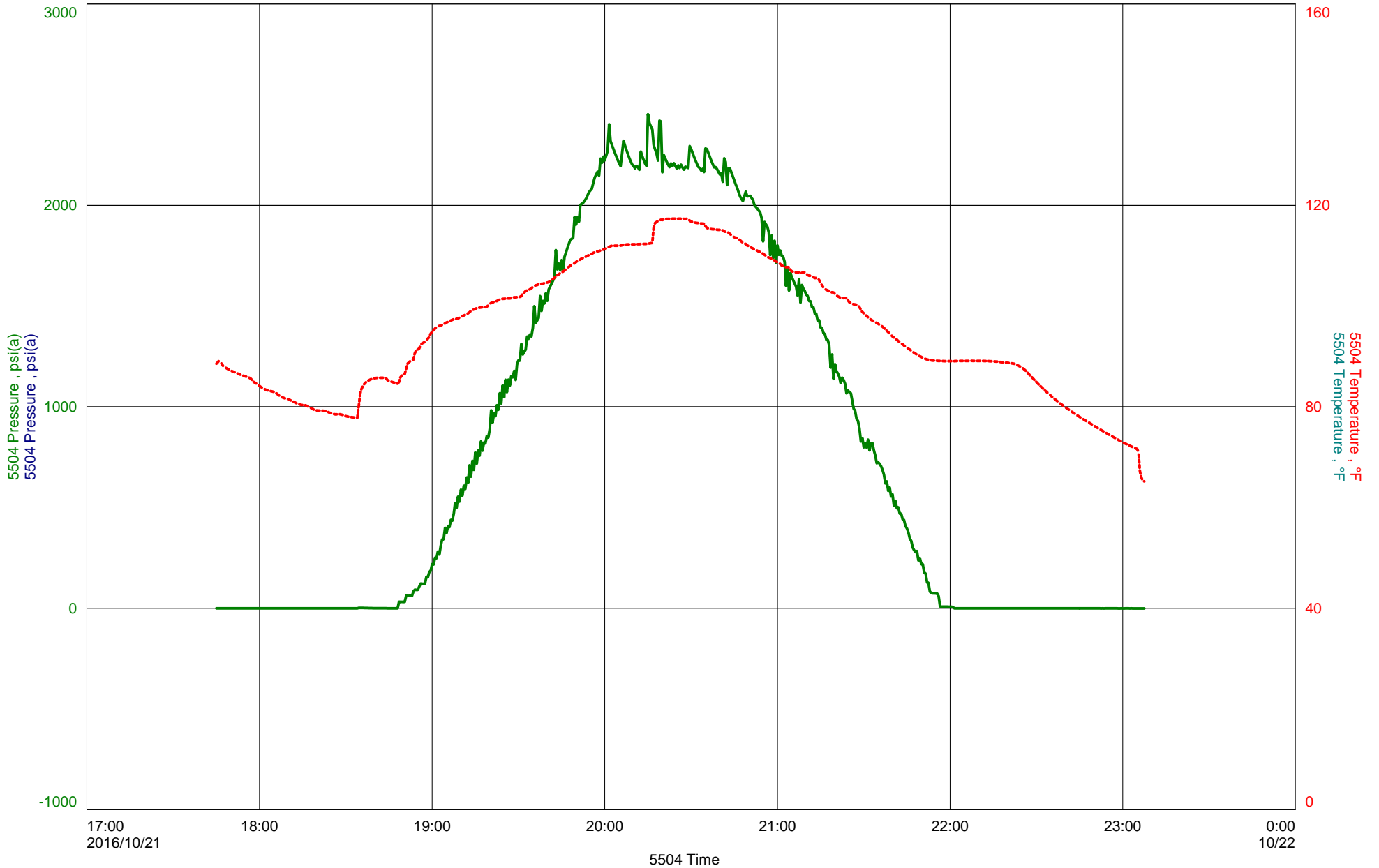
TOOL SAMPLE: 100% DRILLING MUD

PACKER FAILURE

COBALT ENERGY, LLC
DST #3, MORROW SD., 4581-4660
Start Test Date: 2016/10/21
Final Test Date: 2016/10/21

BROTHERS "A" #1-11
Formation: DST #3, MORROW SD., 4581-4660
Pool: SHALLOW WATER
Job Number: T567

BROTHERS "A" #1-11





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BROTHERSA1-1DST3

TIME ON: 17:45
TIME OFF: 23:08

Company COBALT ENERGY, LLC Lease & Well No. BROTHERS "A" #1-11
Contractor MURFIN DRILLING CO., INC. RIG #22 Charge to COBALT ENERGY, LLC
Elevation 2961 KB Formation MORROW SD. Effective Pay _____ Ft. Ticket No. T567
Date 10-21-16 Sec. 11 Twp. 20 S Range 33 W County SCOTT State KANSAS
Test Approved By TERRY MCLEOD Diamond Representative TIM VENTERS

Formation Test No. 3 Interval Tested from 4581 ft. to 4660 ft. Total Depth 4660 ft.
Packer Depth 4576 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4581 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4562 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4657 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 57 Drill Collar Length 176 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,700 P.P.M. Drill Pipe Length 4372 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4, 1SP Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 48 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: PACKER FAILURE
2nd Open: _____

Recovered <u>290</u> ft. of <u>DRILLING MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>PACKER FAILURE</u>	Insurance
TOOL SAMPLE: <u>100% DRILLING MUD</u>	Total

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes (D) _____ P.S.I.
Final Flow Period..... Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	COBALT ENERGY, LLC	Contact	NICHOLAS HESS	Job Number	T568
Well Name	BROTHERS "A" #1-11	Well Operator	COBALT ENERGY, LLC	Report Date	2016/10/22
Unique Well ID	DST #4, MORROW SD., 4549-4660	Well Operator	COBALT ENERGY, LLC	Report Date	2016/10/22
Surface Location	SEC 11-20S-33W, SCOTT CO. KS.	Report Date	2016/10/22	Prepared By	TIM VENTERS
Well License Number		Prepared By	TIM VENTERS		
Field	SHALLOW WATER				
Well Type	Vertical				

Test Information

Test Type	CONVENTIONAL
Formation	DST #4, MORROW SD., 4549-4660
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/10/21	Start Test Time	23:09:00
Final Test Date	2016/10/22	Final Test Time	10:15:00

Gauge Name	5504
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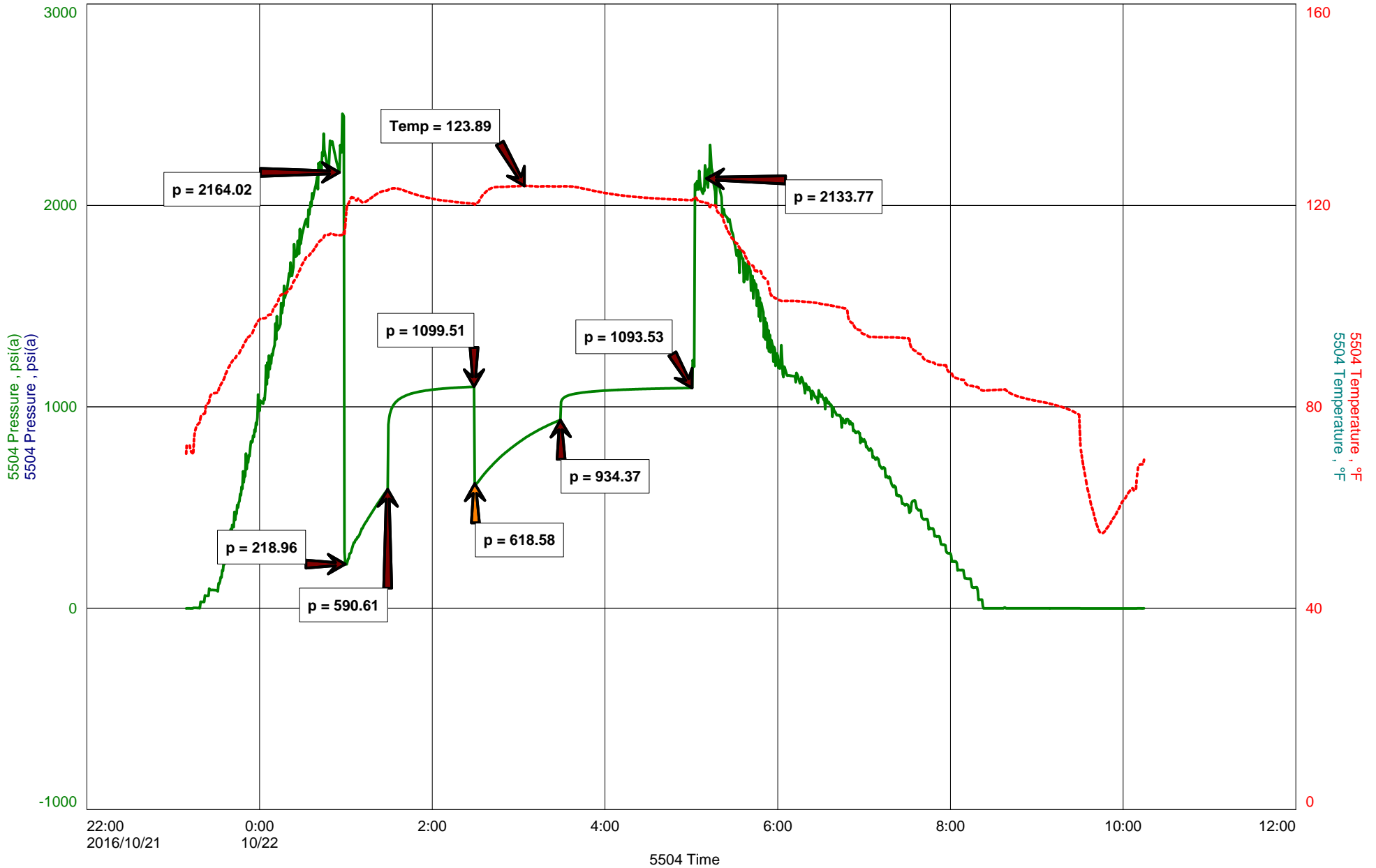
Test Results

RECOVERED: 475' GAS IN PIPE
95' G,MCO, 7% GAS, 66% OIL, 34% MUD
2015' G,SMCO, 9% GAS, 86% OIL, 3% MUD, GRAVITY: 26
180' G,SW&MCO, 6% GAS, 73% OIL, 4% WATER, 17% MUD
120' G,SWHMCO, 18% GAS, 44% OIL, 10% WATER, 28% MUD
2410' TOTAL FLUID

TOOL SAMPLE: 17% GAS, 27% OIL, 16% WATER, 40% MUD

CHLORIDES: 11,000 ppm
PH: 7.0
RW: .65 @ 59 deg.

BROTHERS "A" #1-11





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BROTHERSA1-1DST4

TIME ON: 23:09 10-21-16
TIME OFF: 10:15 10-22-16

Company COBALT ENERGY, LLC Lease & Well No. BROTHERS "A" #1-11
Contractor MURFIN DRILLING CO., INC. RIG #22 Charge to COBALT ENERGY, LLC
Elevation 2961 KB Formation MORROW SD. Effective Pay _____ Ft. Ticket No. T568
Date 10-22-16 Sec. 11 Twp. 20 S Range 33 W County SCOTT State KANSAS
Test Approved By TERRY MCLEOD Diamond Representative TIM VENTERS

Formation Test No. 4 Interval Tested from 4549 ft. to 4660 ft. Total Depth 4660 ft.
Packer Depth 4544 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4549 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4530 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4657 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 57 Drill Collar Length 176 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,700 P.P.M. Drill Pipe Length 4340 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4, 1SP Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 48 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG 4 INCH BLOW, BUILDING, REACHING BOB 2 MIN. (1" BB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)

Recovered <u>475</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>95</u> ft. of <u>G,MCO, 7% GAS, 66% OIL, 34% MUD</u>	
Recovered <u>2015</u> ft. of <u>G,SMCO, 9% GAS, 86% OIL, 3% MUD, GRAVITY: 26</u>	
Recovered <u>180</u> ft. of <u>G,SW&MCO, 6% GAS, 73% OIL, 4% WATER, 17% MUD</u>	
Recovered <u>120</u> ft. of <u>G,SWHMCO, 18% GAS, 44% OIL, 10% WATER, 28% MUD</u>	Price Job
Recovered <u>2410</u> ft. of <u>TOTAL FLUID CHLORIDES: 11,000 ppm</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
<u>RW: .65 @ 59 deg.</u>	
<u>TOOL SAMPLE: 17% GAS, 27% OIL, 16% WATER, 40% MUD</u>	Total

Time Set Packer(s) 12:59 AM ^{A.M.} P.M. Time Started Off Bottom 4:59 AM ^{A.M.} P.M. Maximum Temperature 124 deg.

Initial Hydrostatic Pressure..... (A) 2164 P.S.I.
Initial Flow Period..... Minutes 30 (B) 219 P.S.I. to (C) 591 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1100 P.S.I.
Final Flow Period..... Minutes 60 (E) 619 P.S.I. to (F) 934 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1094 P.S.I.
Final Hydrostatic Pressure..... (H) 2134 P.S.I.

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