CORRECTION #1 [redacted]

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1257885

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3581
Name: Red Oak Energy, Inc.
Address 1: 7701 E KELLOGG DR STE 710
Address 2:
City: WICHITA State: KS Zip: 67207 + 1738
Contact Person: Sean Deenihan
Phone: (316) 652-7373
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Sean Deenihan
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

01/22/2015	01/29/2015	01/30/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-109-21385-00-00
Spot Description:
NE - SE - SW - NE Sec. 2 Twp. 12 S. R. 32 ☐ East ☑ West
2023 Feet from ☑ North / ☐ South Line of Section
1365 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: Mathers Well #: 1-2
Field Name: wildcat
Producing Formation: Johnson, Cherokee
Elevation: Ground: 2989 Kelly Bushing: 3000
Total Vertical Depth: 4834 Plug Back Total Depth: 4646
Amount of Surface Pipe Set and Cemented at: 224 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2540 Feet
If Alternate II completion, cement circulated from: 2540
feet depth to: 0 w/ 250 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 18000 ppm Fluid volume: 160 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 04/13/2015
☑ **Confidential Release Date:** 04/12/2017
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 07/14/2015

CORRECTION #1

Page Two

[redacted]

1257885

Operator Name: Red Oak Energy, Inc. Lease Name: Mathers Well #: 1-2

Sec. 2 Twp. 12 S. R. 32 ☐ East ☑ West County: Logan

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CND
DIL
MIC

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
B/Anhy	2561	439
Heebner	4001	-1001
Stark	4264	-1264
Cherokee	4542	-1542
Johnson	4575	-1575
Miss	4618	-1618

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.63	23	224	common	170	3%cc, 2%gel
Production	7.88	5.5	14	4657	EA2	175	.25 flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4		shot	4583-4598
4		shot	4575-4578
4		shot	4552-4555

TUBING RECORD: Size: 2.0625 Set At: 4559 Packer At: 4635

Liner Run: ☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 03/24/2015

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	45							

DISPOSITION OF GAS:

☐ Vented ☐ Sold ☐ Used on Lease

(If vented, Submit ACO-18.)

METHOD OF COMPLETION:

☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

☐ Other *(Specify)*

PRODUCTION INTERVAL:

4583-98

4552-55, 4575-78

Form	ACO1 - Well Completion
Operator	Red Oak Energy, Inc.
Well Name	Mathers 1-2
Doc ID	1257885

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.63	23	224	common	170	3%cc, 2%gel
Production	7.88	5.5	14	4657	EA2	175	.25 flocele

Summary of Changes

Lease Name and Number: Mathers 1-2

API/Permit #: 15-109-21385-00-00

Doc ID: 1257885

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/14/2015	07/14/2015
Field Name		wildcat
Liner Run?		Yes
Plug Back Total Depth		4646
Producing Formation	Johnson	Johnson, Cherokee
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1249405	../../kcc/detail/operatorEditDetail.cfm?docID=1257885
Tubing Set At		4559
Tubing Size		2.0625

Confidentiality Requested:
☑ Yes ☐ No

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1249405

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3581
Name: Red Oak Energy, Inc.
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Address 2:
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Phone: (316) 652-7373
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Wellsite Geologist: Sean Deenihan
Purchaser:

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☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

01/22/2015	01/29/2015	01/30/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
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County: Logan
Lease Name: Mathers Well #: 1-2
Field Name:
Producing Formation: Johnson
Elevation: Ground: 2989 Kelly Bushing: 3000
Total Vertical Depth: 4834 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 224 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2540 Feet
If Alternate II completion, cement circulated from: 2540
feet depth to: 0 w/ 250 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 18000 ppm Fluid volume: 160 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 04/13/2015
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/14/2015

Page Two

Operator Name: Red Oak Energy, Inc. Lease Name: Mathers Well #: 1-2

Sec. 2 Twp. 12 S. R. 32 ☐ East ☑ West County: Logan

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sheets)	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

CND
DIL
MIC

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
B/Anhy	2561	439
Heebner	4001	-1001
Stark	4264	-1264
Cherokee	4542	-1542
Johnson	4575	-1575
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CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

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Production	7.88	5.5	14	4657	EA2	175	.25 flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection: 03/24/2015	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	45					

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4583-98	
		4552-55, 4575-78	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4					shot
4					shot
4					shot

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.0625	4559	4635	

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Red Oak Energy, Inc.
Well Name	Mathers 1-2
Doc ID	1249405

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4		shot	4583-4598
4		shot	4575-4578
4		shot	4552-4555

Form	ACO1 - Well Completion
Operator	Red Oak Energy, Inc.
Well Name	Mathers 1-2
Doc ID	1249405

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.63	23	224	common	170	3%cc, 2%gel
Production	7.88	5.5	14	4657	EA2	175	.25 flocele

ALLIED OIL & GAS SERVICES, LLC 064644

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, Ks

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1-22-15	23	10	34		6:00pm	8:30pm	7:30pm
LEASE Jaenas "B"	WELL # 1-23		LOCATION Oakley, 55, 1E, 1/2S, W into			COUNTY Logan	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 22
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 225
CASING SIZE 8 5/8 DEPTH 224.57'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13.44 bbl

OWNER Same

CEMENT
AMOUNT ORDERED 170 sk Com 3% CC

EQUIPMENT

PUMP TRUCK # 422 CEMENTER Lakan Edwards
HELPER Wayne McGuire
BULK TRUCK # 318/287 DRIVER George Grant
BULK TRUCK # DRIVER

COMMON	170 sk	@ 17.90	3043.00
POZMIX		@	
GEL		@	
CHLORIDE	480 #	@ 1.10	528.00
ASC		@	
		@	
Material Total		@	3571.00
(1049.85 / 358)		@	
		@	
		@	
		@	
		@	
HANDLING	178.5 sk	@ 2.58	442.68
MILEAGE	8.23 tm x 7 x	2.75	155.43
		TOTAL	

REMARKS:
Mix 170 sk cement
Displace with water
Cement did circulate
36 bbls to pit

SERVICE

DEPTH OF JOB	224.57'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	MI FD	7 @ 7.70	53.90
MANIFOLD	Salaya	@	225.00
MILD		7 @ 4.40	30.80
		@	
(865.57 / 358)		TOTAL	2473.06

CHARGE TO: Red Oak Energy
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 6,044.06
DISCOUNT 2115.42 (35%) IF PAID IN 30 DAYS
3,928.63 Net

PRINTED NAME
SIGNATURE

SWIFT Services, Inc.

CHARGE TO: RED OAK ENERGY
ADDRESS
CITY, STATE, ZIP CODE

TICKET 28277

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. NESS CITY, KS		MATHERS 1-2	LOGAN	KS	OAKLEY, KS	29 JAN 15	
2.	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR MURFIN DRLG #22	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
4.	OIL	DEVELOPMENT	5½ LONGSTRING			5S, 1E, ½S, W½	
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575					MILEAGE # 114	80	MI			6 00	480 00
579					PUMP CHARGE	1	JOB			2000 00	2000 00
402					CENTRALIZERS	10	EA			70 00	700 00
403					CEMENT BASKETS	3	EA			300 00	900 00
407					INSERT FLOAT SHOE W/FILL	1	EA			375 00	375 00
408					DV TOOL & PLUG SET	1	EA			3550 00	3550 00
417					DV LATCH DOWN PLUG & BAFFLE	1	EA			200 00	200 00
419					ROTATING HEAD RENTAL	1	JOB			200 00	200 00
281					MUD FLUSH	500	GAL			1 25	625 00
221					LIQUID KCL	4	GAL			25 00	100 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED | TIME SIGNED ☐ A.M. ☒ P.M. 2320

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1 2	9130 00 / 12397 00
Subtotal	21527 00
Logan TAX 7.65%	1,237 01
TOTAL	22,764 01

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR RBG/1 | APPROVAL

Thank You!

JOB LOG — **SWIFT Services, Inc.** — DATE 22 JAN 15 — PAGE NO.

CUSTOMER: RED OAK ENERGY | WELL NO. | LEASE: MATHERS 1-2 | JOB TYPE: 5½ LONGSTRING | TICKET NO.: 28277

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1400							ON LOCATION
	1525							START PIPE 5½ - 14#
								RID @ 4832 SET @ 4670
								SHOE JT. 10'
								CENTRALIZERS 1,3,5,7,9,11,13,15,49,51
								BSK. 2,5,50
								DV # 50 @ 2540
								TRK 114
	1735							DROP BALL - CIRCULATE
	1832	6	12		↘		300	Pump 500 gal MUD FLUSH
		6	20		↘		300	Pump 20 BBL KCL SPACER
	1841	4	42		↘			mix 175 sx EA-2
								WASH OUT Pump & LINES
1915	~~1942~~	6						START DISPLACING PLUG
1936	~~1942~~	Ø	114		↘		1500	PLUG DOWN - LATCH PLUG IN. 1st stage
								RELEASE PSI - DRY
								DROP DV OPENING TOOL
	2000							OPEN DV TOOL - CIRCULATE
	2130	6	20		↘			Pump 20 BBL KCL SPACER
			75					PLUG RH - 30 sx - MH - 20 sx
		4	139		↘		300	mix 250 sx SMD
								WASH OUT Pump & LINES.
	2218	6			↘			START DISPLACING CLOSING PLUG
	2230	Ø	62		↘		1500	PLUG DOWN - CLOSE DV TOOL. 2nd stage
								RELEASE PSI - DRY
								CIRCULATE 5 sx to PIT
	2240							WASH TRUCK → cement to surface (250 sk mixed, 30 sk to pit)
	2320							JOB COMPLETE
								THANKS # 114
								BLAINE FLINT TYLER PRESTON & JASON

DRILL STEM TEST REPORT

Red Oak Energy, Inc.

7701 E Kellog Dr.
STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61556 **DST#: 1**

Test Start: 2015.01.26 @ 06:52:00

GENERAL INFORMATION:

Formation: **Lansing 'H,I'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:58:10
Time Test Ended: 12:52:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 61

Interval: 4190.00 ft (KB) To 4252.00 ft (KB) (TVD)
Total Depth: 4252.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

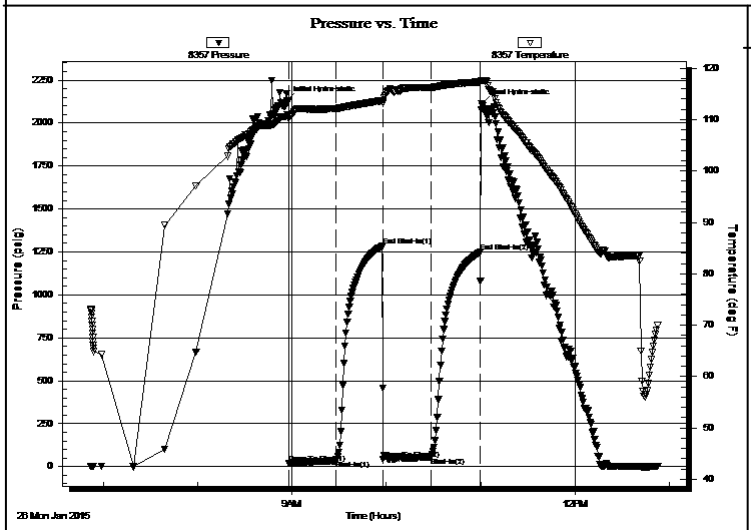
Reference Elevations: 3000.00 ft (KB)
2989.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8357 **Inside**

Press@RunDepth: 55.85 psig @ 4192.00 ft (KB)
Start Date: 2015.01.26 End Date: 2015.01.26
Start Time: 06:52:02 End Time: 12:52:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.26
Time On Btm: 2015.01.26 @ 08:56:40
Time Off Btm: 2015.01.26 @ 11:00:30

TEST COMMENT: 30- 3/4" Blow .
30- No return.
30- Surface blow .
30- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.69	110.65	Initial Hydro-static
2	20.31	110.16	Open To Flow (1)
32	35.87	112.16	Shut-In(1)
61	1284.02	113.68	End Shut-In(1)
62	44.57	113.41	Open To Flow (2)
92	55.85	116.26	Shut-In(2)
123	1248.10	117.33	End Shut-In(2)
124	2110.68	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OSM 100m	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

7701 E Kellog Dr.
STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61556 **DST#: 1**

Test Start: 2015.01.26 @ 06:52:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

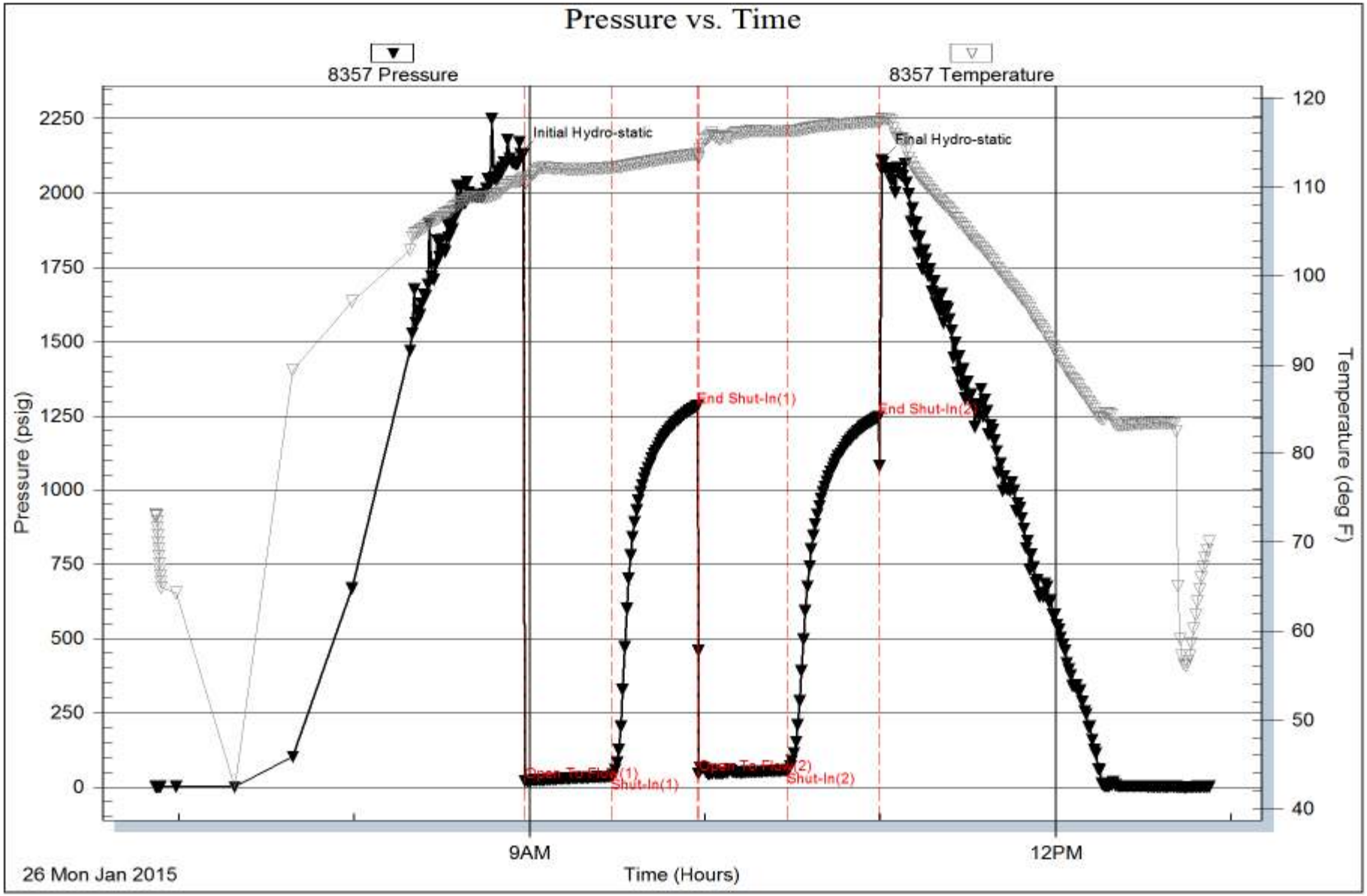
Recovery Table

Length ft	Description	Volume bbl
90.00	OSM 100m	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8357 **Inside** Red Oak Energy, Inc. Mathers #1-2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61556 Printed: 2015.01.26 @ 14:07:12

DRILL STEM TEST REPORT

Red Oak Energy, Inc.

7701 E Kellog Dr.
STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61557 **DST#: 2**

Test Start: 2015.01.26 @ 22:23:00

GENERAL INFORMATION:

Formation: **Lansing 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:10:30
Time Test Ended: 03:29:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 61

Interval: 4256.00 ft (KB) To 4288.00 ft (KB) (TVD)
Total Depth: 4288.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

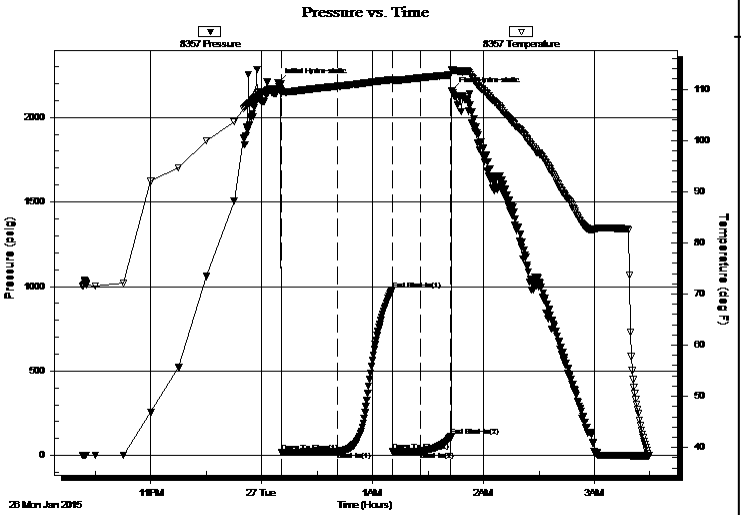
Reference Elevations: 3000.00 ft (KB)
2989.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8357 **Inside**

Press@RunDepth: 26.74 psig @ 4260.00 ft (KB)
Start Date: 2015.01.26 End Date: 2015.01.27
Start Time: 22:23:02 End Time: 03:29:40

Capacity: 8000.00 psig
Last Calib.: 2015.01.27
Time On Btm: 2015.01.27 @ 00:08:50
Time Off Btm: 2015.01.27 @ 01:42:50

TEST COMMENT: 30- 1/2" Blow .
30- No return.
15- No blow .
15- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.56	110.14	Initial Hydro-static
2	20.95	109.13	Open To Flow (1)
33	25.48	110.59	Shut-In(1)
62	978.89	111.87	End Shut-In(1)
62	26.25	111.64	Open To Flow (2)
78	26.74	112.24	Shut-In(2)
94	113.82	112.82	End Shut-In(2)
94	2155.50	113.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F =	0.00
0.00	RW: @ Degrees F = PPM	0.00
15.00	VSOCM 1o 99m	0.07

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy, Inc.

7701 E Kellog Dr.
STE 710
Wichita, KS 67207
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S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61557 **DST#: 2**

Test Start: 2015.01.26 @ 22:23:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

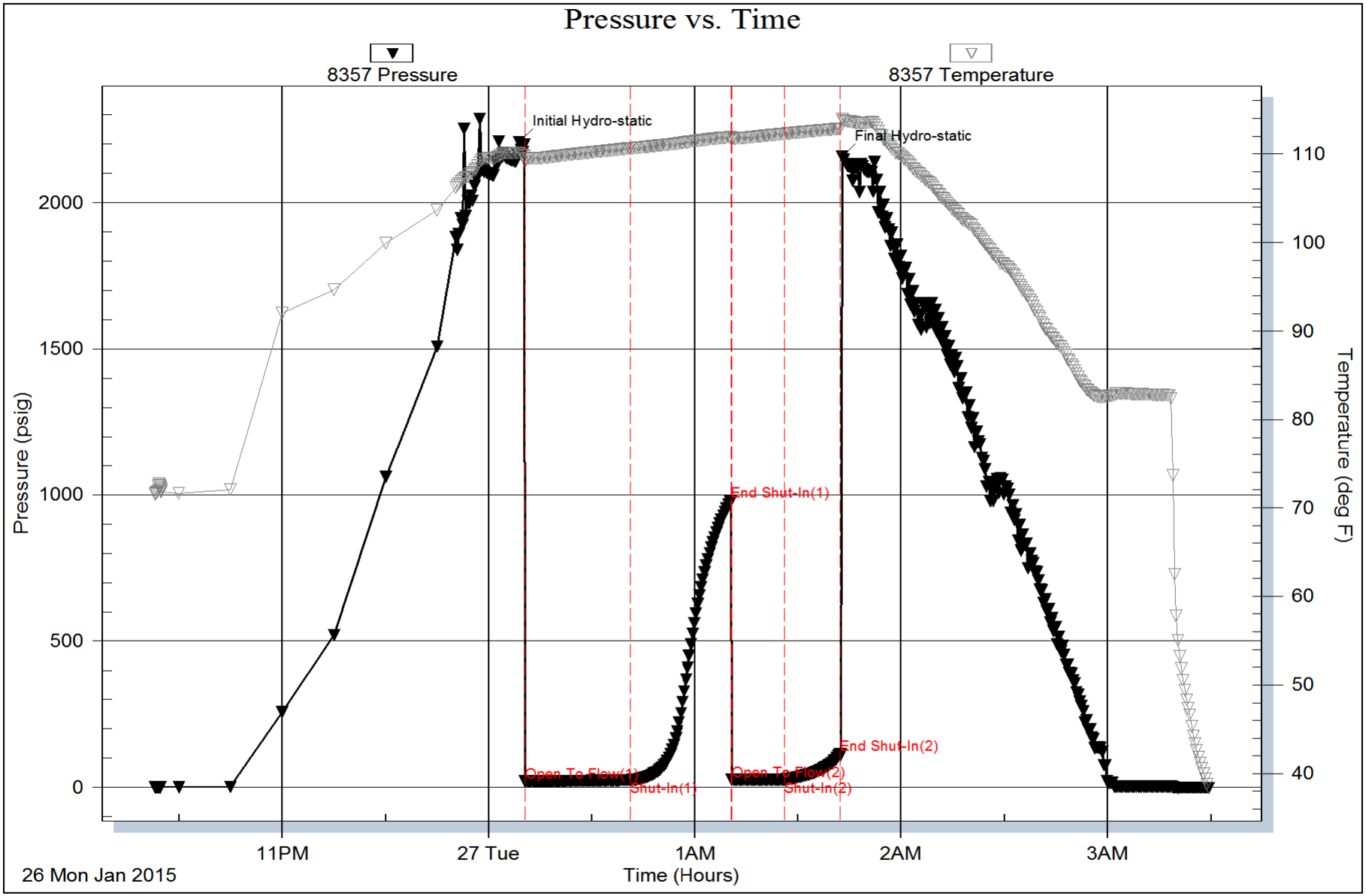
Recovery Table

Length ft	Description	Volume bbl
0.00	API: @ Degrees F =	0.000
0.00	RW: @ Degrees F = PPM	0.000
15.00	VSOCM 1o 99m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8357 **Inside** Red Oak Energy, Inc. Mathers #1-2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61557 Printed: 2015.01.27 @ 04:17:25

DRILL STEM TEST REPORT

Red Oak Energy, Inc.

7701 E Kellog Dr.
STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61558 **DST#: 3**

Test Start: 2015.01.28 @ 00:18:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:41:40
Time Test Ended: 08:47:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 61

Interval: 4538.00 ft (KB) To 4596.00 ft (KB) (TVD)
Total Depth: 4596.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

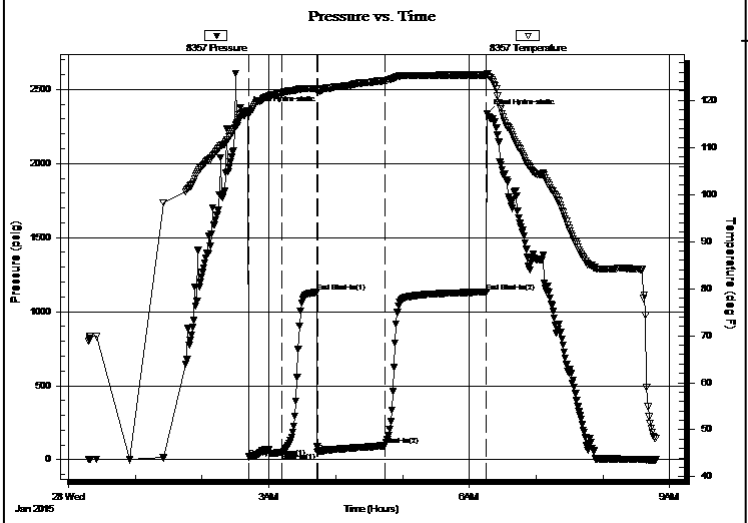
Reference Elevations: 3000.00 ft (KB)
2989.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8357 **Inside**

Press@RunDepth: 95.73 psig @ 4540.00 ft (KB)
Start Date: 2015.01.28 End Date: 2015.01.28
Start Time: 00:18:02 End Time: 08:47:50

Capacity: 8000.00 psig
Last Calib.: 2015.01.28
Time On Btm: 2015.01.28 @ 02:39:50
Time Off Btm: 2015.01.28 @ 06:16:10

TEST COMMENT: 30- 4 1/2" Blow .
30- No return.
60- B.O.B. @ 48 min.
90- 1/4" Return died @ 25 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.65	117.67	Initial Hydro-static
2	19.90	117.00	Open To Flow (1)
32	50.39	121.62	Shut-In(1)
64	1132.32	122.49	End Shut-In(1)
64	52.63	122.17	Open To Flow (2)
125	95.73	124.19	Shut-In(2)
216	1133.20	125.42	End Shut-In(2)
217	2334.67	125.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 20g 40m 40o	0.59
60.00	GMCO 10g 30m 60o	0.30
20.00	GO 5g 95o	0.10
0.00	100' Weak GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

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STE 710
Wichita, KS 67207
ATTN: Sean Deenihan

S2-12s-32w Logan/KS

Mathers #1-2

Job Ticket: 61558 **DST#: 3**

Test Start: 2015.01.28 @ 00:18:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	26 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

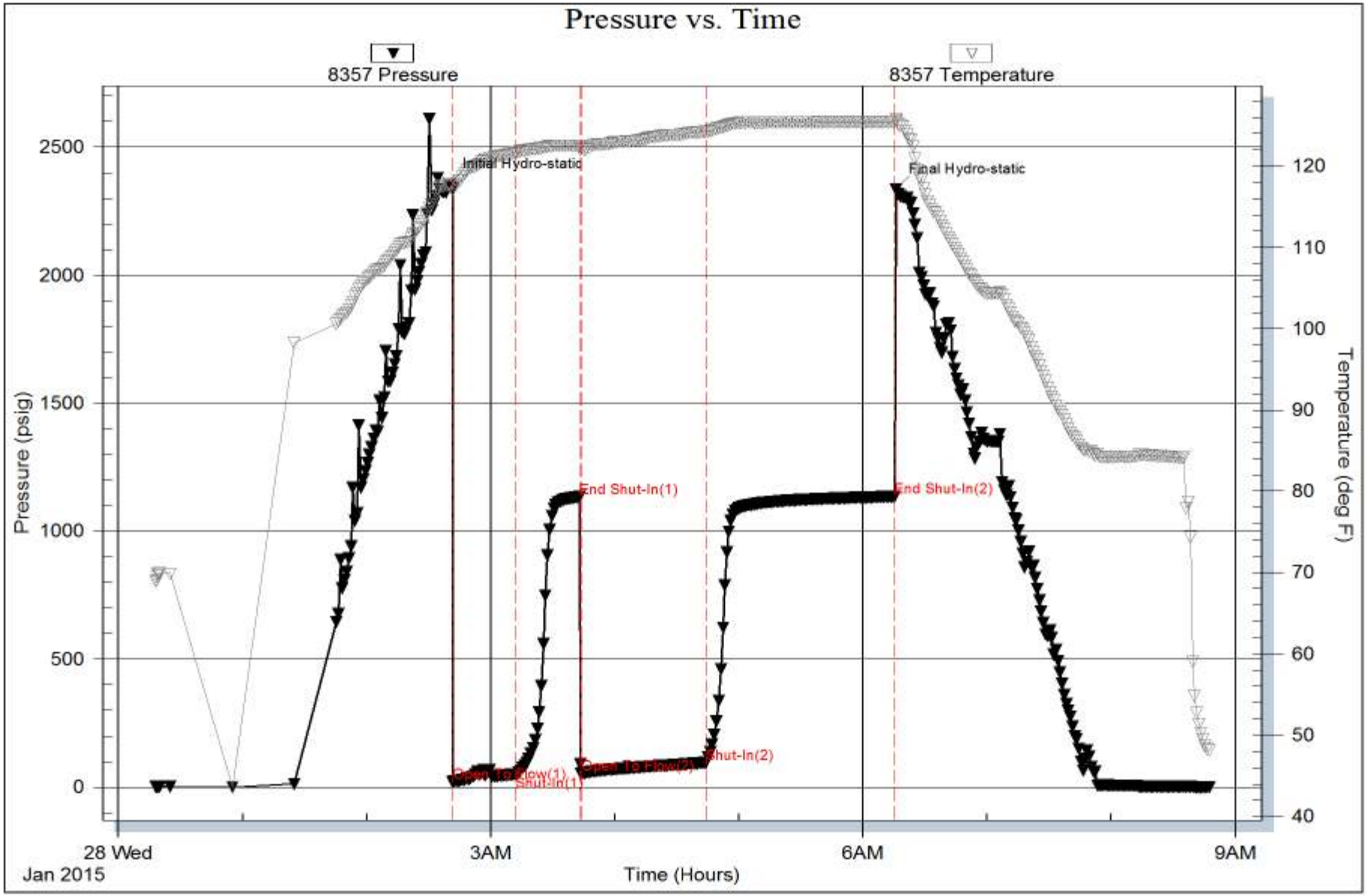
Recovery Table

Length ft	Description	Volume bbl
120.00	GMCO 20g 40m 40o	0.590
60.00	GMCO 10g 30m 60o	0.295
20.00	GO 5g 95o	0.098
0.00	100' Weak GIP	0.000

Total Length: 200.00 ft Total Volume: 0.983 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: API: 25 @ 50 Degrees F = 26.

Serial #: 8357 **Inside** Red Oak Energy, Inc. Mathers #1-2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61558 Printed: 2015.01.28 @ 09:28:02