



KANSAS CORPORATION COMMISSION 1082632
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6768
Name: Carrie Exploration & Development, a General Partnership
Address 1: 210 W 22ND
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: RON HEROLD
Phone: (913) 961-2760
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: HERB DEINES
Purchaser: NATIONAL COOPERATIVE REFINERY ASSOCIATION

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Cool 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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>09/08/2011</u>	<u>09/16/2011</u>	<u>09/17/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25605-00-00
Spot Description: 2066' FSL 1880' FWL
SE NW NE SW Sec. 34 Twp. 19 S. R. 11 East West
2066 Feet from North / South Line of Section
1880 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: JOHN ROTH Well #: C-2
Field Name: _____
Producing Formation: LANSING-KANSAS CITY
Elevation: Ground: 1772 Kelly Bushing: 1780
Total Depth: 3400 Plug Back Total Depth: 3370
Amount of Surface Pipe Set and Cemented at: 257 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1628 Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 60000 ppm Fluid volume: 500 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: BOB'S OIL SERVICE
Lease Name: SIEKER License #: 32408
Quarter NW Sec. 35 Twp. 19 S. R. 11 East West
County: BARTON Permit #: D26497

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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanne Garrick Date: 06/11/2012



1082632

Operator Name: Carrie Exploration & Development, a General Partnership Lease Name: JOHN ROTH Well #: C-2
 Sec. 34 Twp. 19 S. R. 11 East West County: Barton

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION LOG DUAL COMPENSATED POROSITY LOG MICRORESISTIVITY LOG	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>ANHYDRITE</td> <td>518</td> <td>+1262</td> </tr> <tr> <td>TOPEKA</td> <td>2638</td> <td>-858</td> </tr> <tr> <td>HEEBNER SHALE</td> <td>2902</td> <td>-1122</td> </tr> <tr> <td>LKC</td> <td>3048</td> <td>-1268</td> </tr> <tr> <td>BKC</td> <td>3296</td> <td>-1516</td> </tr> <tr> <td>ARBUCKLE</td> <td>3309</td> <td>-1529</td> </tr> <tr> <td>RTD</td> <td>3400</td> <td>-1620</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	518	+1262	TOPEKA	2638	-858	HEEBNER SHALE	2902	-1122	LKC	3048	-1268	BKC	3296	-1516	ARBUCKLE	3309	-1529	RTD	3400	-1620
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RTD	3400	-1620																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	8.625	24	257	COMMON	175	2%GEL,3%CC
PRODUCTION	7.875	5.5	14	3394	AA2	125	10%SALT

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1620	60/40 POZ	400	3%GEL

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
3	3336-39	150G 15%NEFE	3336-39
4	3330-34	GAS GUN TIGHT ZONE	3330-34
10	3312-22	GAS GUN TIGHT ZONE	3312-22
3	3226-29		3226-29
7	3113-20		3113-20

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3334</u>	Packer At: <u>NONE</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>09/27/2011</u>		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>435</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3113-3339</u>
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INVOICE

24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (817) 546-7282
 Fax: (817) 246-3361

Invoice Number: 128484
 Invoice Date: Sep 9, 2011
 Page: 1

Carrie Exploration & Development LLC
 210 West 22nd Street
 Hays, KS 67601

Customer ID	Well Name / # of Cusom	Payment Terms	
Carrie	John Roth #C-Z	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Sep 9, 2011	10/9/11

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
184.00	SER	Handling	2.25	414.00
10.00	SER	Mileage 184 sx @ .11 per sk per mi	20.24	202.40
1.00	SER	Surface	1,125.00	1,125.00
10.00	SER	Pump Truck Mileage	7.00	70.00
1.00	OPER ASSIST	Bobby Roler		
1.00	OPER ASSIST	Dustin Chambers		
1.00	OPER ASSIST	Kevin Weighous		
1.00	OPER ASSIST	Shane Konzen		

Subtotal	5,068.10
Sales Tax	237.74
Total Invoice Amount	5,305.84
Payment/Credit Applied	
TOTAL	5,305.84

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

ONLY IF PAID ON OR BEFORE

pd 4156.02
 # 2733
 9-19-11

ALLIED CEMENTING CO., LLC. 037360

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Creaton Bldg

DATE <u>9-9-11</u>	SEC <u>34</u>	TWP. <u>19</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30pm</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>John Roth</u>		WELL # <u>C-2</u>		LOCATION <u>Ellmwood drs 2 East Rd 130</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>1/2 north East into</u>			

CONTRACTOR Southward Rig #6
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 260
 CASING SIZE 8 3/8 DEPTH 257
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 260
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 16qt
 PERFS. _____
 DISPLACEMENT Freshwater

OWNER Carrie Exploration and development

CEMENT
AMOUNT ORDERED 175 ~~sq~~ Com 3% ace 290gel

COMMON <u>175</u>	@ <u>16.25</u>	<u>2,847.25</u>
POZMIX _____	@ _____	_____
GEL <u>3</u>	@ <u>21.25</u>	<u>63.25</u>
CHLORIDE <u>6</u>	@ <u>58.20</u>	<u>349.20</u>
ASC _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>184</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE <u>184 x 10 x .11</u>		<u>202.40</u>
TOTAL		<u>3,877.10</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bob R.
 # 366 HELPER Shane / Dustin
 BULK TRUCK
 # 341 DRIVER Steve W.
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Break circulation with Rig mud.
Hook up to cement Pump mix 175 ~~sq~~ com
3% ace 290gel shut down Release plug
change valves. Displace with 16.42 bbls
fresh water, shut in. Cement did
circulate.

SERVICE

DEPTH OF JOB <u>257</u>		
PUMP TRUCK CHARGE _____		<u>1125.00</u>
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>HUM 10</u>	@ <u>7.00</u>	<u>70.00</u>
MANIFOLD _____	@ _____	_____
_____	@ _____	_____
TOTAL		<u>1195.00</u>

CHARGE TO: Carrie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

To Allied Cementing Co., LLC.



PAGE 1 of 1	CUST NO 1005952	INVOICE DATE 09/21/2011
INVOICE NUMBER 1718 - 90704142		

Pratt (620) 672-1201
 B CARRIE EXPLORATION & DEVELOPMENT LLC
 I 210 W 22ND ST
 L HAYS
 L KS US 67601
 T
 O ATTN: HEROLD

J LEASE NAME John Roth C 2
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40371847	19905			Net - 30 days	10/21/2011
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/16/2011 to 09/16/2011</i>					
0040371847					
171804823A Cement-New Well Casing/Pi 09/16/2011 Longstring					
AA2 Cement		125.00	EA	17.00	1,593.75 T
60/40 POZ		30.00	EA	12.00	270.00 T
C-41P		30.00	EA	4.00	90.00 T
Salt		575.00	EA	0.50	215.63 T
C-44		89.00	EA	5.15	343.76 T
FLA-322		59.00	EA	7.50	331.88 T
Gilsonite		625.00	EA	0.67	314.06 T
Flow-Seal 21 (Sodium Silicate)		300.00	EA	8.00	1,800.00 T
Claymax KCL Substitute		1.00	EA	35.00	26.25 T
Top Rubber Cement Plug 5 1/2"		1.00	EA	105.00	78.75
Guide Shoe-Regular 5 1/2" (Blue)		1.00	EA	250.00	187.50
5 1/2" Port Collar		1.00	EA	3,500.00	2,825.00
Flapper Type Insert Float Valves 5 1/2"		1.00	EA	215.00	161.25
Turbolizer 5 1/2" (Blue)		6.00	EA	110.00	495.00
5 1/2" Basket (Blue)		1.00	EA	290.00	217.50
Unit Mileage Charge-Pickups, Vans & Cars		55.00	HR	4.25	175.31
Heavy Equipment Mileage		110.00	MI	7.00	577.50
Proppant and Bulk Delivery Charges		396.00	MI	1.60	475.20
Depth Charge; 3001-4000'		1.00	HR	2,160.00	1,620.00
Blending & Mixing Service Charge		155.00	MI	1.40	162.75
Casing Swivel Rental		1.00	EA	200.00	150.00
Plug Container Utilization Charge		1.00	EA	250.00	187.50
Supervisor		1.00	HR	175.00	131.25

*10-10-11
2758*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,229.84
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	363.93
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	12,593.77
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Carrie Exploration and Development LLC.	Lease No. Lease John Roth	Well # C" #2	Date 9-16-11
Field Order # 4823	Station Pratt, Kansas	Casing 5 1/2 15.5 lb./ft.	Depth 3,398 ft.
Type Job C.M.W. - Longstring	County Barton	State Kansas	Legal Description 34-195-11W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5 lb./ft.	Shots/Ft 125 sac	From 758	AA2 with 108 salt, 51 Gal. 5409 Gal.	RATE 58 FLT	PRESS 22, 258	ISIP Defoamer
Depth 3398 Feet	Volume 809 bbl	From 758	To 1531	Max 6.5 ft. Gills			5 Min.
Max Press 500 P.S.I.	Max Press	From	To	Min 1.36 CVT			10 Min.
Well Connection 1 1/2" container	Annulus Vol. 30 sacks	From 30 sacks	To 60/40 Poz to Plug	HBP Used Kaf Hole			Annulus Pressure
Plug Depth 3306 feet	Packer Depth	From	To	Flush 80 Bbl Fresh Water			Total Load

Customer Representative: Ron Herald Station Manager: David Scott Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	19,860	19,918				
Driver Names	Messick	Mattal	Phye						

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:30					Cement and Float Equipment on location.
1:15					Trucks on location and hold safely location.
4:50					Southwind Drilling start to run Regular Guide Shoe, Shoe Joint with Insert screwed into collar and total of 81 Joints used. Tapered 5 1/2 casing, 7 ft. h. was installed on top of Joint # 10. A Turbilizer was installed on collars # 2, 3, 4, 6, 8, and # 10. A Por Collar was installed on top of Joint # 4 for 1,628 feet down.
7:25					Casing in well Circulate and Retate for
8:00	2400				Shut in well Pressure Test. Open Well.
8:02	300			5	Start 2% HCl Pre Flush
			10	5	Start Flow-Seal 21 Solution
			17	5	Start 2% HCl Spacer
8:08	300		22	5	Start mixing 125 sacks AA2 cement
	-0-		52		Stop pumping Shut in well Wash pump and lines Release Top Rubber Plug Open Well.
8:18	100			6.5	Start Fresh Water Displacement
			65	5	Start to lift cement.
8:30	600		80		Plug down
	1,400				Pressure up
					Release pressure Insert held
	-0-		7	3	Plug Put Hole
					Wash up pump truck.
9:15					Job Complete



PAGE	CUST NO	INVOICE DATE
1 of 1	1005952	09/22/2011
INVOICE NUMBER		
1718 - 90706010		

Pratt (620) 672-1201
 B CARRIE EXPLORATION & DEVELOPMENT LLC
 I 210 W 22ND ST
 L HAYS
 L KS US 67601
 T
 O ATTN: HEROLD

J LEASE NAME John Roth C-2
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40372790	20920		Net - 30 days	10/22/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/21/2011 to 09/21/2011</i>				
0040372790				
171804453A Cement-New Well Casing/Pi 09/21/2011 5 1/2" Port Collar				
60/40 POZ	400.00	EA	12.00	3,600.00 T
Cement Gel	344.00	EA	0.25	64.50 T
Unit Mileage Charge-Pickups, Vans & Cars	55.00	HR	4.25	175.31
Heavy Equipment Mileage	110.00	MI	7.00	577.50
Proppant and Bulk Delivery Charges	946.00	MI	1.60	1,135.20
Depth Charge; 1001-2000'	1.00	HR	1,500.00	1,125.00
Blending & Mixing Service Charge	400.00	MI	1.40	420.00
Supervisor	1.00	HR	175.00	131.25

pd 10-10-11 #2758

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,228.76
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	267.51
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	7,496.27
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

5

BASIC

energy services, L.P.

TREATMENT REPORT

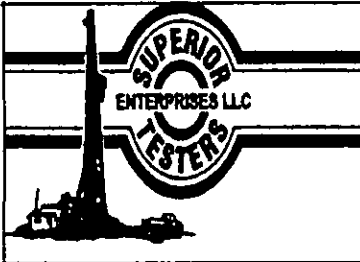
Customer <i>Carric Explor.</i>		Lease No.		Date <i>9-21-11</i>	
Lease <i>John Roth</i>		Well # <i>2 CA C-2</i>			
Field Order # <i>045531</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>	Depth <i>1628'</i>	County <i>Barton</i>	State <i>Ks</i>
Type Job <i>open Port Collar</i>			Formation <i>crn</i>	Legal Description <i>37-19-11</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>3 1/2</i>	<i>2 7/8</i>		<i>400sk</i>	<i>6 1/4 Pol</i>	<i>3 1/2 gal</i>		Max	5 Min.
Depth <i>1628'</i>	Depth <i>1628'</i>	From	To	Pre Pad			Min	10 Min.
Volume	Volume <i>7.5</i>	From	To	Pad			Avg	15 Min.
Max Press	Max Press # <i>300</i>	From	To	Frac			HHP Used	Annulus Pressure
Well Connection	Annulus Vol.	From	To				Gas Volume	Total Load
Plug Depth	Packer Depth	From	To	Flush <i>Disp N 20</i>				

Customer Representative <i>Tom H. Alon</i>	Station Manager <i>Scott H</i>	Treater <i>Allen</i>
---	-----------------------------------	-------------------------

Service Units	<i>78443</i>	<i>3370x</i>	<i>20920</i>	<i>19832</i>	<i>21210</i>				
Driver Names	<i>Allen</i>	<i>Joe</i>	<i>Melton</i>	<i>Jeff</i>	<i>McCaskey</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1245</i>					<i>on huc discuss safety & top P.C. test</i>
<i>140</i>	<i>200⁺</i>	<i>300⁺</i>			<i>Test casing, OK P.C. @ 1628'</i>
			<i>2</i>	<i>2 1/2</i>	<i>open Port collar take rate</i>
					<i>Blow on Braden Hand.</i>
				<i>3</i>	<i>Start mix 400sk 6 1/4 Pol</i>
					<i>30% gel</i>
			<i>96</i>		<i>Finish mix</i>
<i>226</i>	<i>250⁺</i>	<i>275⁺</i>	<i>4 1/2</i>	<i>2 1/2</i>	<i>close port collar & P.C. test OK</i>
<i>230</i>	<i>200⁺</i>	<i>200⁺</i>			<i>Run 4 JTs + air clean pump 200psi</i>
<i>245</i>	<i>300⁺</i>	<i>300⁺</i>	<i>20</i>	<i>3</i>	<i>wash up pump truck</i>
					<i>P.C. test</i>
<i>400</i>					<i>End of report</i>



DRILL STEM TEST REPORT

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17212 DST#: 1

ATTN: Herb Deines

Test Start: 2011.09.13 @ 08:15:00

GENERAL INFORMATION:

Formation: **Kansas City "A & B"**

Deviated: **No Whipstock** ft (KB)

Test Type: **Conventional Bottom Hole (Initial)**

Time Tool Opened: **09:49:30**

Tester: **Gene Budig**

Time Test Ended: **14:10:30**

Unit No: **3335-29**

Interval: **3048.00 ft (KB) To 3085.00 ft (KB) (TVD)**

Reference Elevations: **1780.00 ft (KB)**

Total Depth: **3085.00 ft (KB) (TVD)**

1772.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

Serial #: **6806**

Inside

Press@RunDepth: **53.88 psia @ 3081.00 ft (KB)**

Capacity: **5000.00 psia**

Start Date: **2011.09.13**

End Date:

2011.09.13

Last Calib.: **2011.09.13**

Start Time: **08:15:00**

End Time:

14:10:30

Time On Btm: **2011.09.13 @ 09:48:30**

Time Off Btm: **2011.09.13 @ 12:37:00**

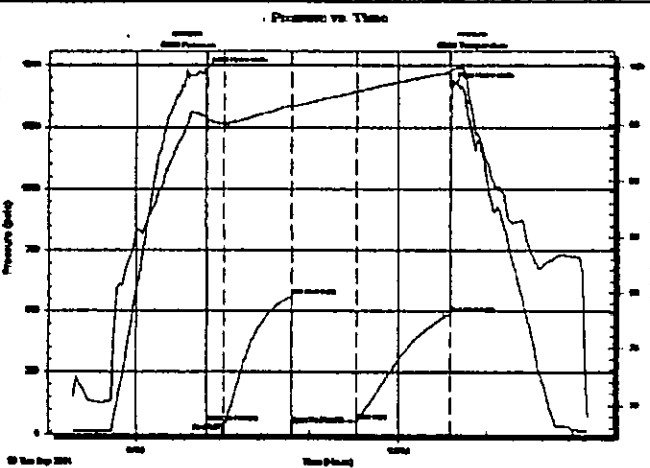
TEST COMMENT:

1st Opening 15 Minutes-Fair blow build to the bottom of a 5 gallon bucket in 10 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute and decreased to a fair blow

2ns Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

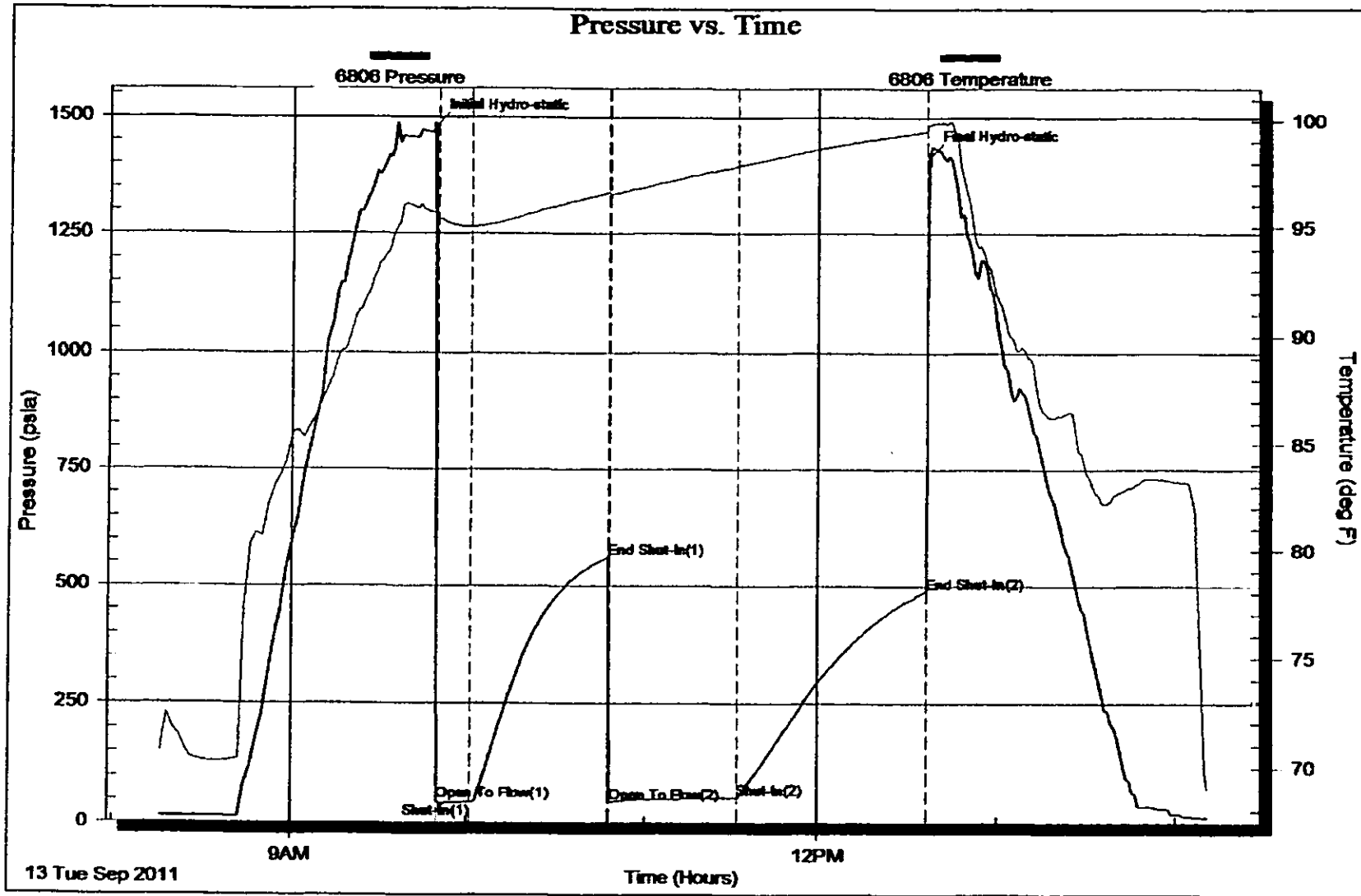
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1481.03	95.65	Initial Hydro-static
1	47.56	95.37	Open To Flow (1)
13	43.49	95.03	Shut-in(1)
59	561.55	96.64	End Shut-in(1)
80	43.87	96.54	Open To Flow (2)
104	53.88	97.86	Shut-in(2)
168	487.87	99.50	End Shut-in(2)
169	1416.00	99.80	Final Hydro-static

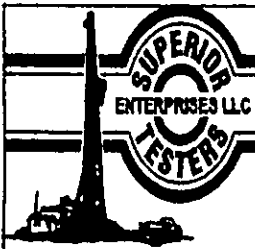
Recovery

Length (ft)	Description	Volume (bbl)
0.00	400 feet of gas in the pipe	0.00
40.00	slightly oil cut mud	0.56
0.00	11% Gas 1% Oil 78% Mud 10% Water	0.00
0.00	Chlorides 10000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/D)





DRILL STEM TEST REPORT

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17213

DST#: 2

ATTN: Herb Daines

Test Start: 2011.09.14 @ 10:00:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-29

Interval: 3292.00 ft (KB) To 3322.00 ft (KB) (TVD)

Total Depth: 3322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1780.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6806

Inside

Press@RunDepth: 53.30 psia @ 3318.00 ft (KB)

Start Date: 2011.09.14

End Date: 2011.09.14

Start Time: 10:15:00

End Time: 15:37:00

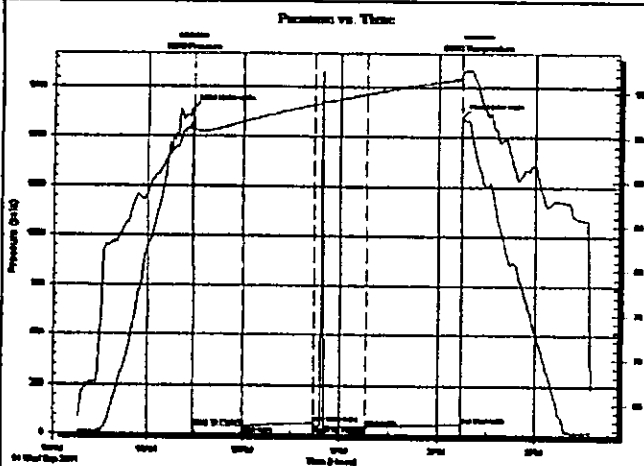
Capacity: 5000.00 psia

Last Calib.: 2011.09.14

Time On Btm: 2011.09.14 @ 11:28:30

Time Off Btm: 2011.09.14 @ 14:15:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow for 10 minutes and died
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-No blow flushed tool after 5 minutes good surge no help
2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

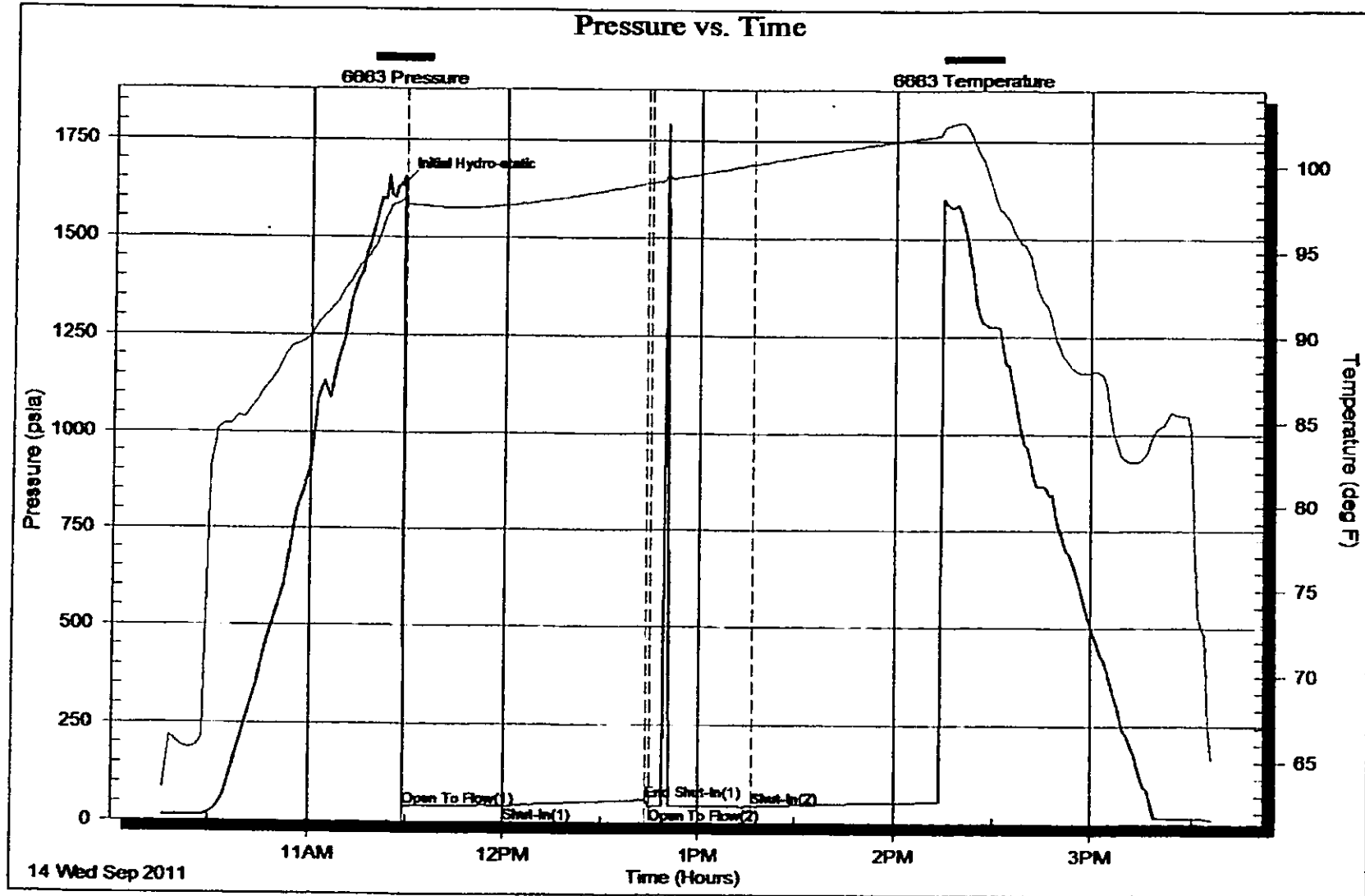
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1639.01	96.52	Initial Hydro-static
1	38.02	96.04	Open To Flow (1)
31	38.31	96.71	Shut-in(1)
76	57.19	98.70	End Shut-in(1)
76	39.07	98.72	Open To Flow (2)
108	40.89	99.89	Shut-in(2)
166	53.30	101.65	End Shut-in(2)
167	1602.60	102.33	Final Hydro-static

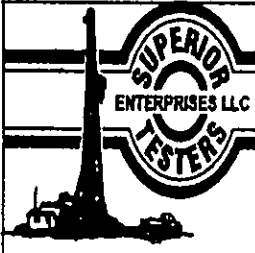
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Slightly oil spotted mud with a good	0.14
0.00	of oil between the tools	0.00

Gas Rates

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





DRILL STEM TEST REPORT

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17214

DST#: 3

ATTN: Herb Daines

Test Start: 2011.09.14 @ 08:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-30

Interval: 3320.00 ft (KB) To 3330.00 ft (KB) (TVD)

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1780.00 ft (KB)

1772.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6663

Outside

Press@RunDepth: 185.26 psia @ 3327.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.09.15

End Date:

2011.09.15

Last Calib.:

2011.09.15

Start Time: 08:30:00

End Time:

13:17:00

Time On Btm:

2011.09.15 @ 09:48:00

Time Off Btm:

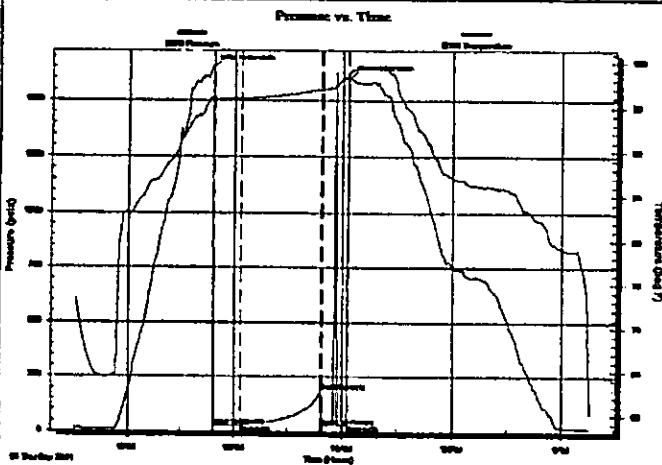
2011.09.15 @ 11:04:00

TEST COMMENT: 1st Opening 15 Minutes-Very weak surface blow for 10 minutes and died

1st Shut-in 45 Minutes-No blow back

2nd Opening 15 Minutes-No blow flushed tool after 5 minutes good surge no blow pulled tool after 10 minutes

2nd Shut-in NONE TAKEN



PRESSURE SUMMARY

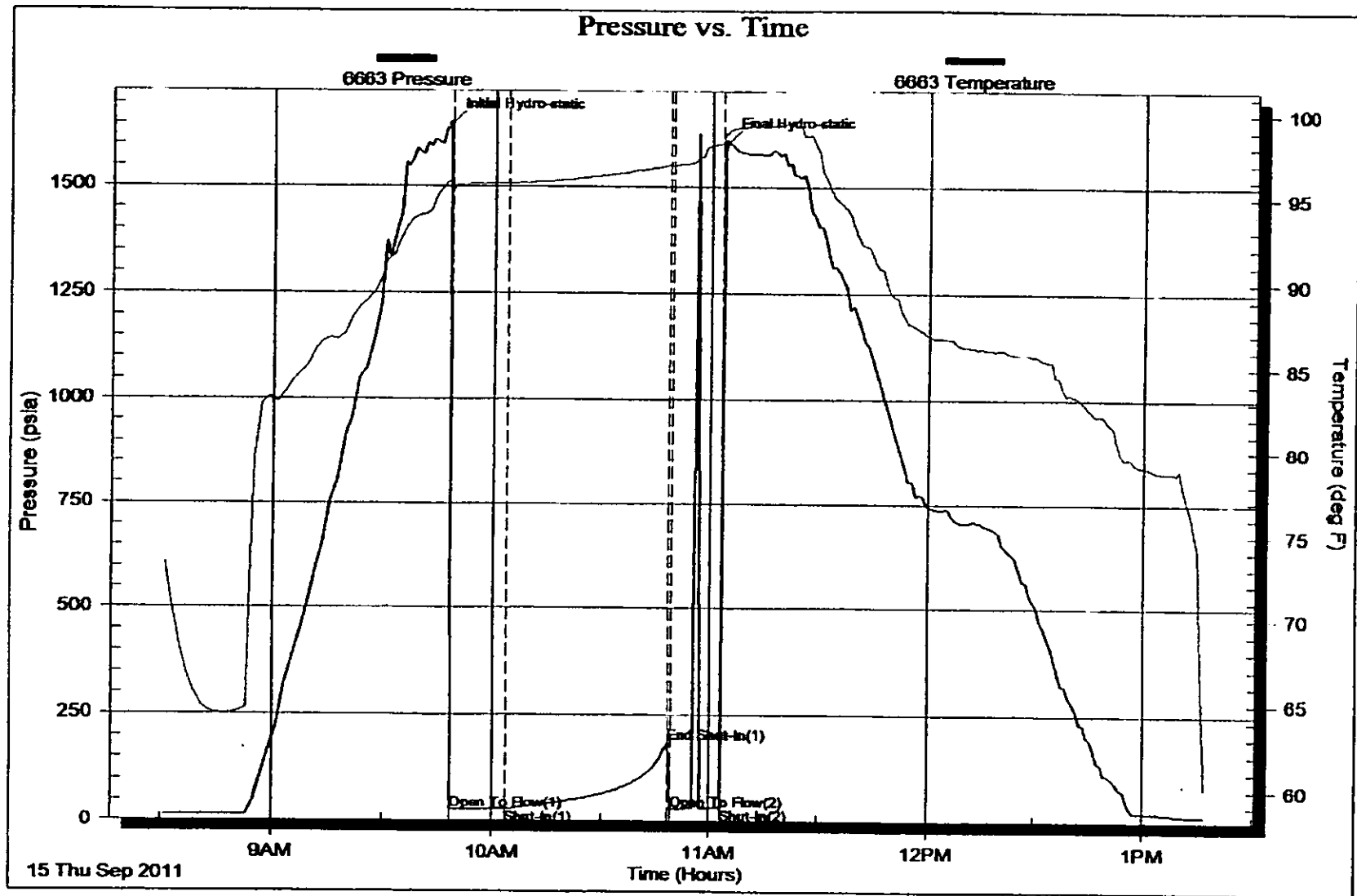
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1648.03	95.96	Initial Hydro-static
1	26.48	95.44	Open To Flow (1)
16	28.52	95.85	Shut-in(1)
61	185.26	96.94	End Shut-in(1)
62	28.26	96.92	Open To Flow (2)
75	31.50	98.23	Shut-in(2)
76	1603.30	98.80	Final Hydro-static

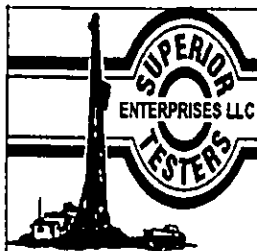
Recovery

Length (ft)	Description	Volume (bbl)
10.00	very slighty oil spotted mud	0.14
0.00	there was a good show of oil	0.00
0.00	between the tools	0.00

Gas Rates

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





DRILL STEM TEST REPORT

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17215

DST#: 4

ATTN: Herb Deines

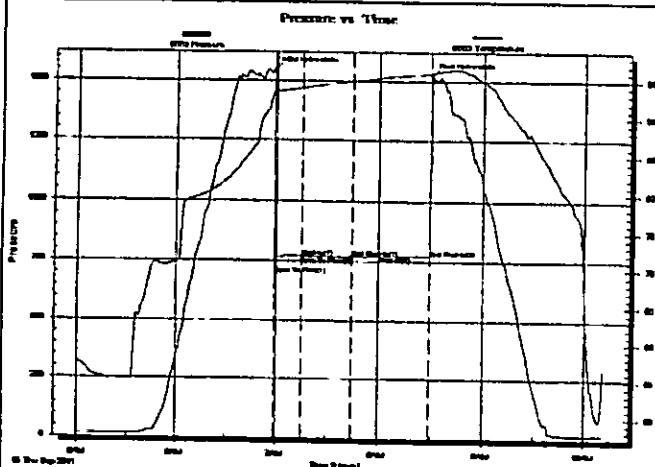
Test Start: 2011.09.15 @ 05:00:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: **06:59:00**
 Time Test Ended: **10:12:00**
 Interval: **3098.00 ft (KB) To 3126.00 ft (KB) (TVD)**
 Total Depth: **3399.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Gene Budig**
 Unit No: **3335-30**
 Reference Elevations: **1780.00 ft (KB)**
1772.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: **6663** Outside
 Press@RunDepth: **770.34 psia @ 3127.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.15** End Date: **2011.09.15** Last Calib.: **2011.09.15**
 Start Time: **05:00:00** End Time: **10:12:00** Time On Btm: **2011.09.15 @ 06:58:30**
 Time Off Btm: **2011.09.15 @ 08:29:30**

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 10 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 15 Minutes-No blow
 2nd Shut-In 30 Minutes- No blow back



PRESSURE SUMMARY

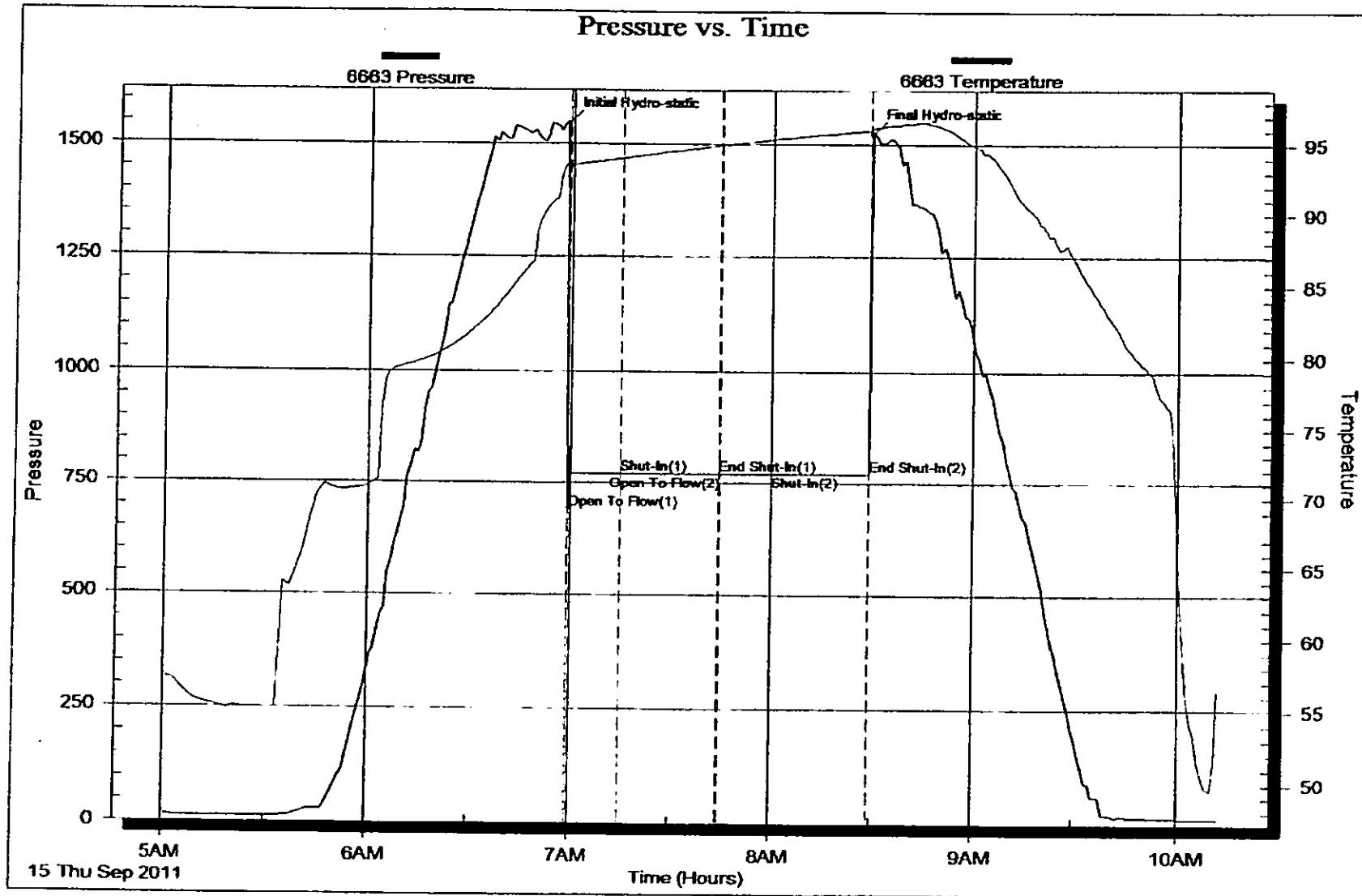
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1546.50	93.65	Initial Hydro-static
1	690.51	93.17	Open To Flow (1)
17	770.57	94.00	Shut-in (1)
46	770.50	94.95	End Shut-in (1)
47	769.03	94.96	Open To Flow (2)
62	770.34	95.36	Shut-in (2)
91	770.37	96.02	End Shut-in (2)
91	1523.85	96.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	drilling mud	1.54

Gas Rates

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

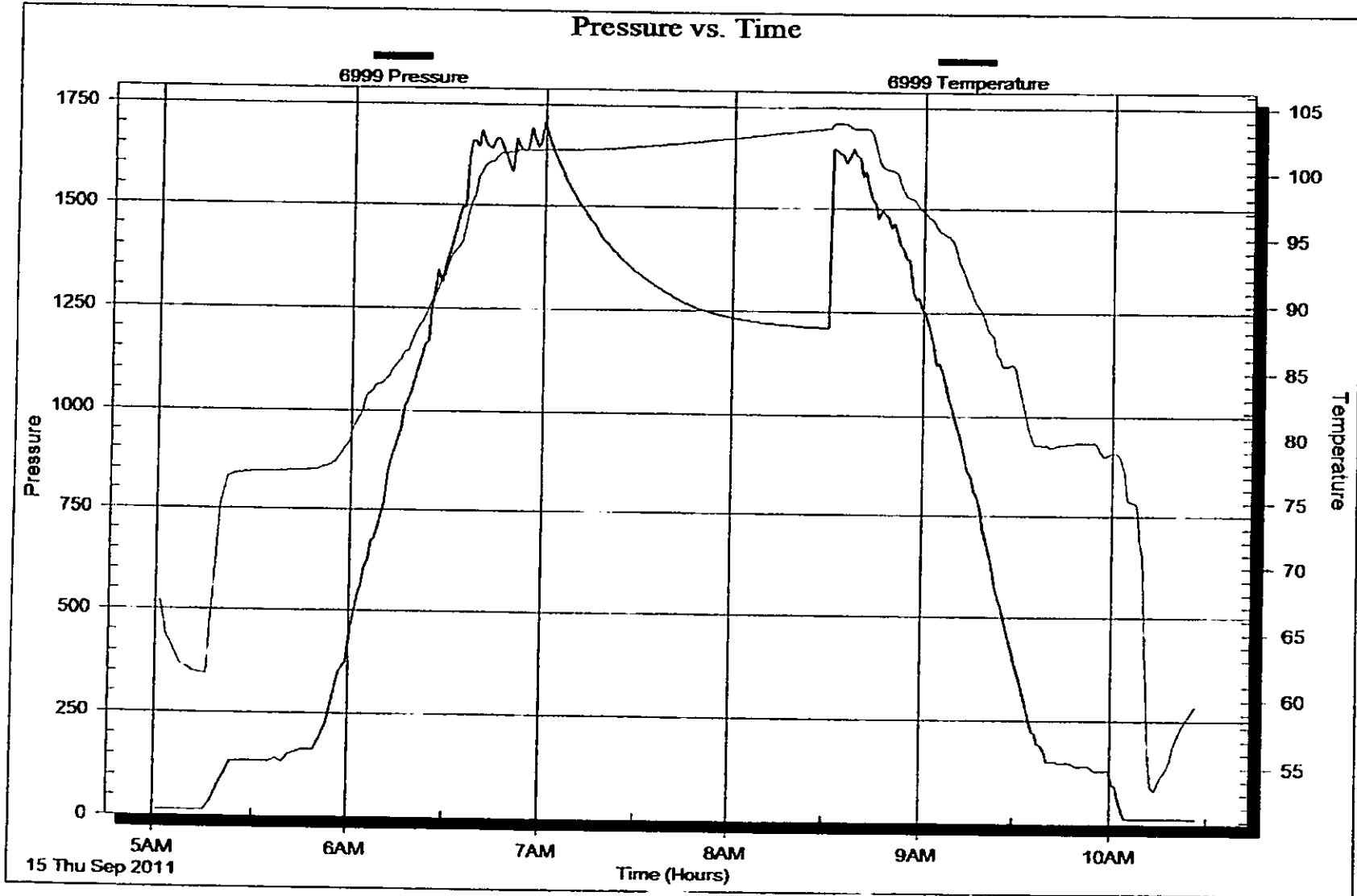


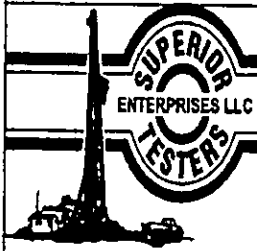
Serial #: 6999

Inside Carrie Exploration & Development

34-19s-11w

DST Test Number: 4





DRILL STEM TEST REPORT

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17216

DST#: 5

ATTN: Herb Deines

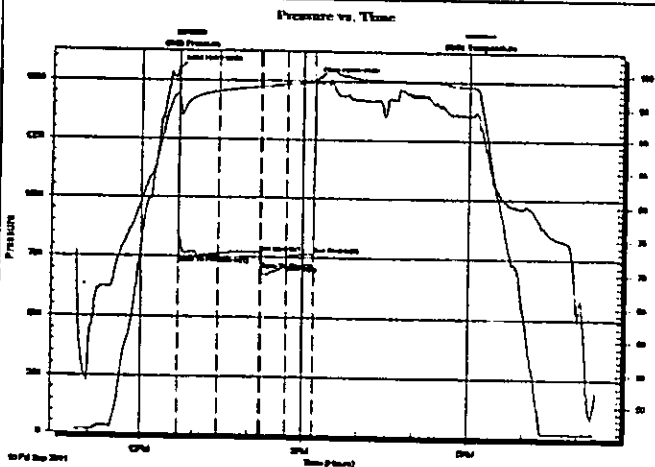
Test Start: 2011.09.16 @ 10:45:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3090.00 ft (KB) To 3126.00 ft (KB) (TVD)**
 Total Depth: **3399.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Gene Budig**
 Unit No: **3335-30**
 Reference Elevations: **1780.00 ft (KB)**
1772.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: **6806** Inside
 Press@RunDepth: **761.70 psia @ 3119.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.16** End Date: **2011.09.16** Last Calib.: **2011.09.16**
 Start Time: **10:45:00** End Time: **20:21:00** Time On Btm: **2011.09.16 @ 12:42:00**
 Time Off Btm: **2011.09.16 @ 15:14:00**

TEST COMMENT: 1st Opening 45 Minutes-Strong blow with gas to surface in 24 minutes
 1st Shut-In 45 Minutes-Fair blow back
 2nd Opening 30 Minutes-Strong blow see gas report
 2nd Shut-In 30 Minutes-Fair blow back



PRESSURE SUMMARY

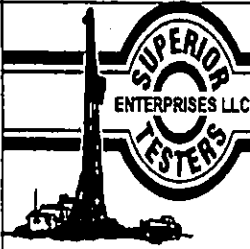
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1548.89	96.94	Initial Hydro-static
1	720.52	96.77	Open To Flow (1)
46	749.09	97.22	Shut-in(1)
91	767.64	97.98	End Shut-in(1)
93	696.38	97.98	Open To Flow (2)
120	718.24	98.35	Shut-in(2)
151	761.70	98.72	End Shut-in(2)
152	1506.17	98.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2925.00	Clean Gassy Oil Gravity 41 Corrected	41.03
0.00	20% Gas 80% Oil	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	4.15	28.00
Last Gas Rate	0.75	5.90	92.16
Max. Gas Rate	0.75	5.90	92.16



DRILL STEM TEST REPORT

GAS RATES

Carrie Exploration & Development

John Roth #C-2

210 West 2nd Street
Hays, Kansas 67601

34-19s-11w

Job Ticket: 17216

DST#: 5

ATTN: Herb Deines

Test Start: 2011.09.16 @ 10:45:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	35	0.50	4.15	28.00
1	40	0.50	5.35	36.09
1	45	0.50	5.35	36.09
2	10	0.75	4.75	74.19
2	20	0.75	5.00	78.10
2	30	0.75	5.90	92.16

