



KANSAS CORPORATION COMMISSION 1075395
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 # 3682
Name: Connell, Mark Allen
Address 1: 606 W ALBRO ST
Address 2: _____
City: CLAFLIN State: KS Zip: 67525 + 9234
Contact Person: Mark Connell
Phone: (620) 587-3595
CONTRACTOR: License # 4958
Name: Mallard, J. V., Inc.
Wellsite Geologist: Seth Evenson
Purchaser: NCRA

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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
 Conv. to GSW

Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>01/31/2012</u>	<u>02/06/2012</u>	<u>02/29/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22679-00-00

Spot Description:
NW SE NW SW Sec. 6 Twp. 19 S. R. 9 East West
1750 Feet from North / South Line of Section
861 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Rice
Lease Name: Willard A Well #: 5
Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 1710 Kelly Bushing: 1715

Total Depth: 3245 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 280 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ 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: 40000 ppm Fluid volume: 900 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Kizzar Well

Lease Name: Sharpe License #: 7868

Quarter NW Sec. 8 Twp. 20 S. R. 9 East West

County: Rice Permit #: D-01,117

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: Deanna Garcia Date: 03/20/2012



1075395

Operator Name: Connell, Mark Allen Lease Name: Willard A Well #: 5
 Sec. 6 Twp. 19 S. R. 9 East West County: Rice

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	287	SMD	175	2%gel 3% cc
Production	7.8750	5.5	15.5	3233	Class A	200	2%gel 3%cc

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	-			

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

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>3240</u> Packer At: <u>0</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>02/29/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>78</u> Gas Mcf <u> </u> Water Bbls. <u>0</u> Gas-Oil Ratio <u> </u> Gravity <u>46</u>

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 checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3233</u> <u>3245</u>
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Form	ACO1 - Well Completion
Operator	Connell, Mark Allen
Well Name	Willard A 5
Doc ID	1075395

Tops

Anhydrite	370	1345
Topeka	2469	-754
Heebner	2732	-1017
Toronto	2753	-1038
Brown Lime	2853	-1138
Lansing KC A	2882	-1167
Lansing KC G	2965	-1250
Lansing KC J	3066	-1351
Base KC	3157	-1442
Arbuckle	3226	-1511
RTD	3245	-1530



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 130051
Invoice Date: Jan 31, 2012
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
John Jay Darrah Jr.
Executive Center Bldg
225 N Market St, Suite 300
Wichita, KS 67202

Customer ID	Well Name# or Customer P.O	Payment Terms	
Darrah	Willard A #5	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jan 31, 2012	3/1/12

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	Chlride	58.20	349.20
184.00	SER	Handling	2.25	414.00
30.00	SER	Mileage 184 sx @.11 per sk per mi	20.24	607.20
1.00	SER	Surface	1,125.00	1,125.00
30.00	SER	Pump Truck Mileage	7.00	210.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Dustin Chambers		
1.00	OPER ASSIST	Jimmy Henkle		

Subtotal	5,732.90
Sales Tax	237.74
Total Invoice Amount	5,970.64
Payment/Credit Applied	
TOTAL	5,970.64

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

91427.74

ONLY IF PAID ON OR BEFORE
Feb 25, 2012

ALLIED CEMENTING CO., LLC. 042400

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

SERVICE POINT: Great Bend, KS

DATE <u>1-31-12</u>	SEC <u>6</u>	TWP <u>19</u>	RANGE <u>9</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00pm</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>Willard A</u>		WELLS <u>5</u>		LOCATION <u>Chess, ks south to 'F'</u>		COUNTY <u>2/2</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>28 - West - 14 north</u>			

CONTRACTOR Willard Rig #1 OWNER Derrah Oil

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 287

CASING SIZE 8 5/8 T.D. 287

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED 175 sbs Class A

30% cc 20% gel

COMMON	<u>175</u>	@ <u>16.25</u>	<u>2,843.75</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>187</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE	<u>187 x 30 x 11</u>		<u>607.35</u>
TOTAL			<u>4,277.20</u>

EQUIPMENT

PUMP TRUCK CEMENTER Greg L.

260 HELPER Dustin C.

BULK TRUCK

341 DRIVER Tray H.

BULK TRUCK

_____ DRIVER _____

REMARKS:

Pipe run bottom, Cemented casing with tag wire. Hook up cement pump and mix 175 sbs Class A 30% cc 20% gel. Displace with 17.33 sbs of water, cement did circ. Shut in. Flow down @ 11:30 pm. Tag down.

CHARGE TO: Derrah Oil

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>110</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD		@	
	<u>Lum 30</u>	@ <u>4.00</u>	<u>120.00</u>
		@	
TOTAL			<u>1455.00</u>

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To Allied Cementing Co., 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.

PRINTED NAME * Frank Symank

SIGNATURE * Frank Symank

Thank You!

SALES TAX (if Any) _____

TOTAL CHARGES 5,732.90

50% 208 1,427.79

DISCOUNT _____ IF PAID IN 30 DAYS

4,305.16



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 130162
Invoice Date: Feb 6, 2012
Page: 1

Bill To:
John Jay Darrah Jr.
Executive Center Bldg
225 N Market St, Suite 300
Wichita, KS 67202

Customer ID	Well Name # or Customer P.O.	Payment Terms	
Darrah	Willand #5	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	Feb 6, 2012	3/7/12

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	16.25	2,925.00
20.00	MAT	Pozmix	8.50	170.00
5.00	MAT	Gel	21.25	106.25
8.00	MAT	Salt	23.95	191.60
750.00	MAT	Gilsonite	0.89	667.50
500.00	MAT	SuperFlush	1.27	635.00
176.00	SER	Handling	2.25	396.00
30.00	SER	Mileage	19.36	580.80
1.00	SER	Production	2,225.00	2,225.00
30.00	SER	Heavy Vehicle Mileage	7.00	210.00
1.00	SER	Manifold Head Rental	200.00	200.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	EQP	5 1/2 Float Shoe	349.00	349.00
3.00	EQP	5 1/2 Centralizers	49.00	147.00
1.00	EQP	5 1/2 Rubber Plug	73.00	73.00

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

\$2032.83

ONLY IF PAID ON OR BEFORE
Mar 2, 2012

Subtotal	8,996.15
Sales Tax	384.30
Total Invoice Amount	9,380.45
Payment/Credit Applied	
TOTAL	9,380.45

ALLIED CEMENTING CO., LLC. 042476

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

SERVICE POINT:
Great Bend KS

DATE <u>2-6-12</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>1:15 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Willard</u>		WELL # <u>5</u>		LOCATION <u>Chase South To FRD</u>		COUNTY <u>Rice</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			<u>1 West 1 North East in TO</u>				

CONTRACTOR Willard
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 3245
 CASING SIZE 5 1/2 ISD DEPTH 3232
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1000 MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG.
 PERFS. _____
 DISPLACEMENT Freshwater 76.75 BBHs

OWNER Darrah Oil
 CEMENT
 AMOUNT ORDERED 180 SK Class A + 2% Gel
+ 10% Salt + 5% Gelsolite
500 Gallon ASF - 500 60/90 4%

EQUIPMENT
 PUMP TRUCK CEMENTER Wayne / Grass
 # 316 HELPER Dustin
 BULK TRUCK
 # 341 DRIVER Jimmy
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>180 SK @ 16.25</u>	<u>2925.00</u>
POZMIX	<u>20 SK @ 8.50</u>	<u>170.00</u>
GEL	<u>15.50 @ 21.25</u>	<u>106.25</u>
CHLORIDE	@	
ASC	@	
SALT	<u>8 @ 23.95</u>	<u>191.60</u>
GELSOLITE	<u>750 LB @ .89</u>	<u>667.50</u>
Super Flush	<u>500 GAL @ 1.27</u>	<u>635.00</u>
	@	
	@	
	@	
	@	
HANDLING	<u>176 @ 2.25</u>	<u>396.00</u>
MILEAGE	<u>176 x 30 MF x .11</u>	<u>580.80</u>
TOTAL		<u>5672.15</u>

REMARKS:

Run casing and float equip
W-OP Ball circulate Ball Thru
Hook up Run 500 Gallon ASF
Shut Down Hook up Plug Rathole
with 200X Plug mouse hole 200X
Mix 150 SK Down casing Shut Down
wash pump and line. Release Plug
Displace 76.75 BBHs Fresh water
hand Plug at 100 PSI. Release and Hold
Put 200/60 on shut in

CHARGE TO: Darrah Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>3232</u>	
PUMP TRUCK CHARGE		<u>2225.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>HV 30 @ 7.00</u>	<u>210.00</u>
MANIFOLD	<u>1 @ 200.00</u>	<u>NIC</u>
	<u>LTV 30 @ 4.00</u>	<u>120.00</u>
	@	
TOTAL		<u>2,555.00</u>

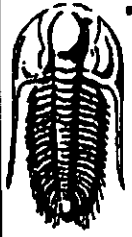
PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>		
1 float shoe	@ <u>340.00</u>	<u>340.00</u>
3 Cement 200's	@ <u>49.00</u>	<u>147.00</u>
1 Rubber Plug	@ <u>78.00</u>	<u>78.00</u>
	@	
	@	
TOTAL		<u>569.00</u>

To Allied Cementing Co., 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.

PRINTED NAME W. H. Darrah
 SIGNATURE W. H. Darrah

SALES TAX (If Any) _____
 TOTAL CHARGES 8996.15
 DISCOUNT 20% 2039.23 IF PAID IN 30 DAYS
#6765.92



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil
225 N. Market, Ste 300
Wichita Ks. 67202
ATTN: Seth Evenson

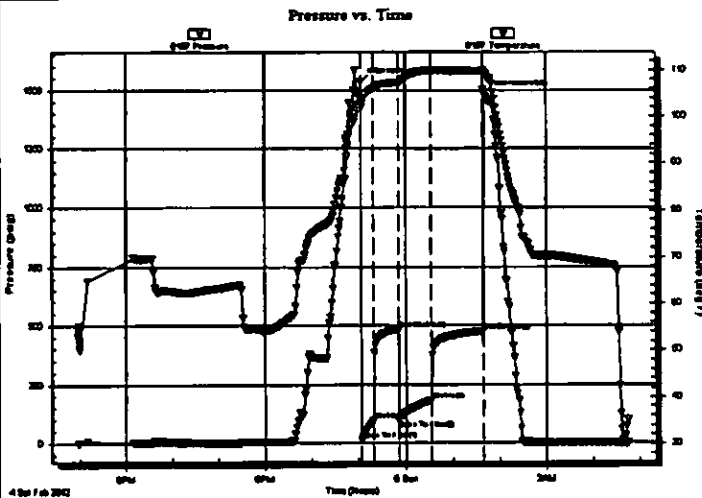
6-19-9w Rice Ka.
Willard A#5
Job Ticket: 45729 DST#: 1
Test Start: 2012.02.04 @ 16:57:47

GENERAL INFORMATION:

Formation: **Lans J**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **23:04:32**
 Time Test Ended: **04:46:02**
 Interval: **3088.00 ft (KB) To 3087.00 ft (KB) (TVD)**
 Total Depth: **3087.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Gary Pevoteaux**
 Unit No: **56**
 Reference Elevations: **1715.00 ft (KB)**
1710.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: **8167** Inside
 Press@RunDepth: **184.33 psig @ 3067.00 ft (KB)**
 Start Date: **2012.02.04** End Date: **2012.02.05**
 Start Time: **16:57:48** End Time: **04:46:02**
 Capacity: **8000.00 psig**
 Last Calib.: **2012.02.05**
 Time On Btm: **2012.02.04 @ 23:03:32**
 Time Off Btm: **2012.02.05 @ 01:40:47**

TEST COMMENT: IF: Fair to strong blow. B.O.B. in 14 mins.
 IS: Weak blow. (surface)
 FF: Fair to strong blow. B.O.B. in 26 mins.
 FS: No blow.



PRESSURE SUMMARY

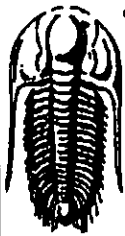
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.33	102.68	Initial Hydro-static
1	14.04	101.93	Open To Flow (1)
16	95.36	106.02	Shut-in(1)
48	482.70	107.23	End Shut-in(1)
48	96.20	107.04	Open To Flow (2)
90	184.33	109.92	Shut-in(2)
156	474.95	109.78	End Shut-in(2)
158	1484.05	109.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
308.00	SW/w few o specs /Rw. 13ohms@41db	2.10
82.00	MW/w o specs 19% m 81% w	1.15
0.00	40 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil
225 N. Market, Ste 300
Wichita Ks. 67202
ATTN: Seth Evenson

6-19-9w Rice Ks.
Willard A#5
Job Ticket: 45729 DST#: 1
Test Start: 2012.02.04 @ 16:57:47

Mud and Cushion Information

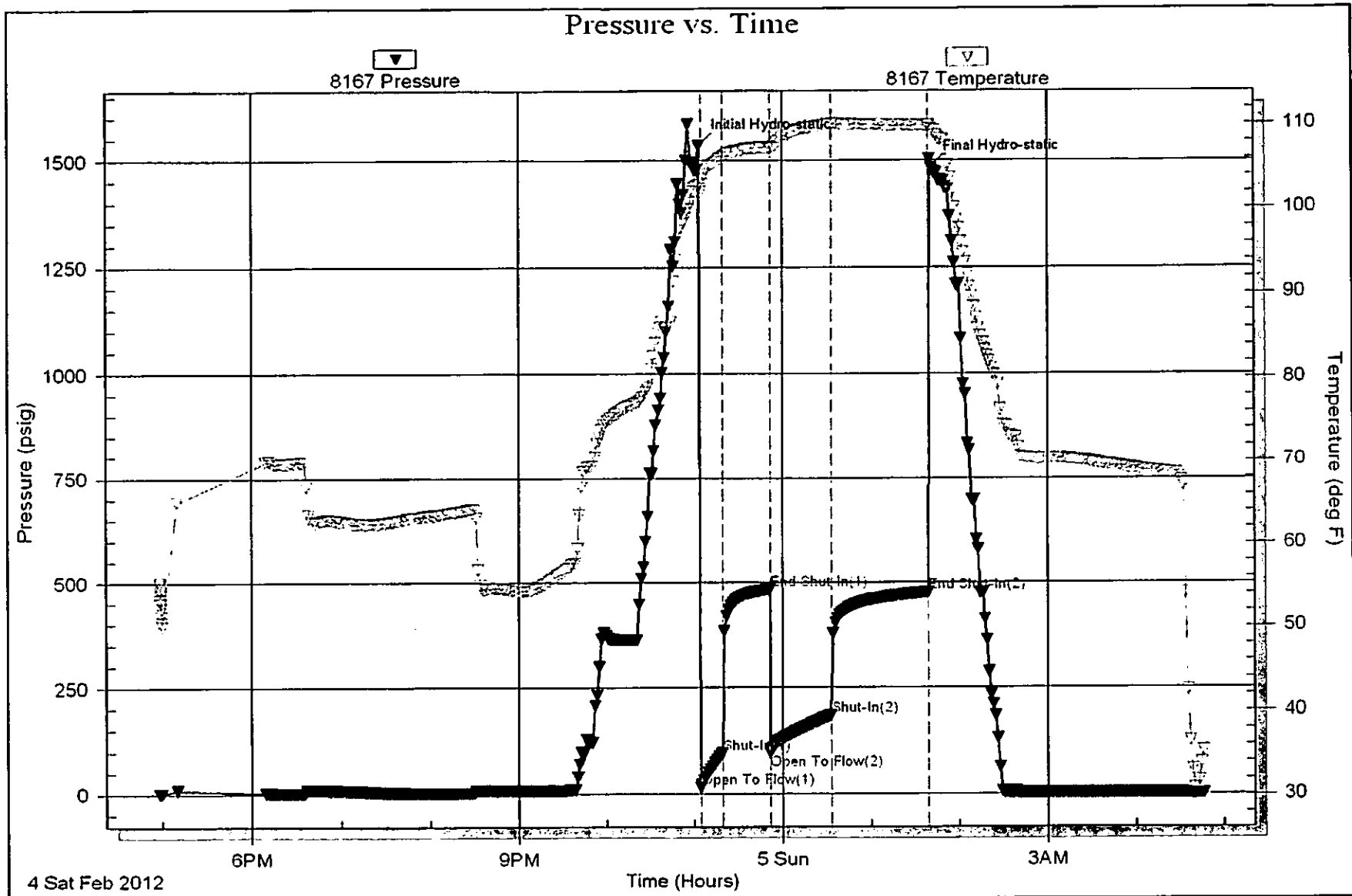
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 103000 ppm	
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
308.00	SW/w few o specs /Rw .13ohms@41deg	2.098
82.00	MW/w o specs 19% m 81% w	1.150
0.00	40 ft. of GIP	0.000

Total Length: 390.00 ft Total Volume: 3.248 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

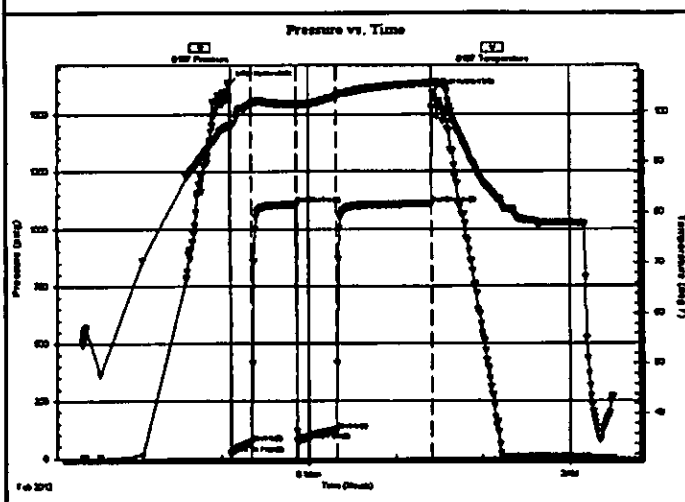
Darrah Oil 6-19-9w Rice Ks.
 225 N.Market, Ste 300 Willard A#5
 Wichita Ks. 67202 Job Ticket: 45730 DST#: 2
 ATTN: Seth Evenson Test Start: 2012.02.05 @ 21:23:43

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 23:06:28
 Time Test Ended: 03:29:43
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Gary Favoteaux**
 Unit No: **56**
 Interval: **3210.00 ft (KB) To 3245.00 ft (KB) (TVD)**
 Reference Elevations: **1715.00 ft (KB)**
1710.00 ft (CF)
 Total Depth: **3245.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GRVCF: **5.00 ft**

Serial #: **8167** Inside
 Press@RunDepth: **122.34 psig @ 3211.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.02.05** End Date: **2012.02.06** Last Calib.: **2012.02.06**
 Start Time: **21:23:44** End Time: **03:29:43** Time On Btrr: **2012.02.05 @ 23:05:28**
 Time Off Btrr: **2012.02.06 @ 01:25:58**

TEST COMMENT: IF: Strong blow . B.O.B. in 14 mins.
 IS: Weak blow . 1/2 - 2 1/2".
 FF: Strong blow . B.O.B. in 8 mins.
 FS: Weak blow . 1 - 2 1/2".

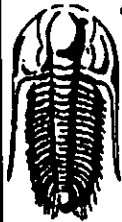


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.61	97.24	Initial Hydro-static
1	19.52	96.79	Open To Flow (1)
16	69.70	101.49	Shut-In(1)
47	1106.38	101.60	End Shut-In(1)
47	75.02	101.38	Open To Flow (2)
74	122.34	103.08	Shut-In(2)
140	1107.23	105.73	End Shut-In(2)
141	1592.66	105.74	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
95.00	GOCM 14%g 21%o 65%w	0.47
180.00	OGO 20%g 80%o	1.17
0.00	560 ft. of GIP	0.00

* Recovery from multiple tests

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil
225 N. Market, Ste 300
Wichita Ks. 67202
ATTN: Seth Evenson

6-19-9w Rice Ks.
Willard A#5
Job Ticket: 45730 DST#: 2
Test Start: 2012.02.05 @ 21:23:43

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.99 in³
Resistivity: 0.00 ohm.m
Salinity: 4500.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: 4500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	GOCM 14%g 21%o 65%m	0.467
180.00	CGO 20%g 80%o	1.168
0.00	560 ft. of GIP	0.000

Total Length: 275.00 ft Total Volume: 1.635 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8167

Inside Darrah Oil

Willard A#5

DST Test Number: 2

