

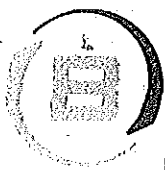
Customer American Warrior	Lease No.	Date 11-5-15
Lease Hout	Well # "8" # 1	
Field Order # 2880	Station Pratt, Kansas	Casing 5 1/2
		Depth 15.54b. 3770 Feet
Type Job C.N.W. Longstring	Formation	County Cowley
		State Kansas
		Legal Description 6-345-3E

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5 LB. 11 FT.	Shots/Ft	175 sacts	AA-2 with .28	Defoamer	RATE	PRESS	ISIP
Depth 3770 Feet	Depth	From	To 109 sacts	38 Friction	Max	5.8 Fluid Loss	5 Min.	
Volume 89.7 Bbl.	Volume	From	To 5 Lb./5 R.	Gilsonite	Min.		10 Min.	
Max Press 1700 P.S.I.	Max Press	From	To 19.3 Lb./7 Gal.	5.54 Gal./s	Avg	1.36 CU. FT./st.	15 Min.	
Well Connection Plug Cont	Annulus Vol. aliner	From	50 sacts	60 40 Poz to plug Rat	HHP Used 30 stks	and Mouse (20 stks)	Annulus Pressure	Notes
Plug Depth 2750 Feet	Packer Depth	From	To	Flush 89.25 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Jason Bruns	Station Manager Tevin Gordley	Treater Clarence R. Messick
--	----------------------------------	--------------------------------

Service Units	37,216	33,708	20,920	9,960	19,862				
Driver Names	Messick	Sullivan	Ernst						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30	11-4-15				Tiverton location and hold safety meeting.
1:30	11-5-15				Duke Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into collar and a total of 90 Joints new 15.5 LB FT. 5 1/2 casing A Basket was installed above collars # 2, 11, and # 18. A Turbolizer was installed on collars # 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, and # 25.
3:30					Casing in well. Circulate for 45 minutes.
4:20	2,000				Shut in well. Pressure Test. Open well.
	500		5	5	start Fresh water Pre-Flush.
)		5	5	start mud Flush.
			17	5	Start Fresh water spacer.
10:30	500		22	5	Start mixing 175 sacts AA-2 Blend cemen
	-0-		64		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open well.
10:45	100			6.5	Start Fresh water Displacement.
			50	5	Start to lift cement.
5:00	1,200		89.25		Plug down.
	1,800				Pressure up.
	-0-				Release pressure. Float shoe held.
	-0-		7.5	3	Plug Rat and mouse holes.
					Wash up pump truck.
5:45					Job complete.
					Thank You.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

6-345-3E

FIELD SERVICE TICKET

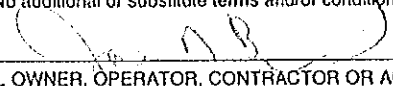
1718 12880 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-5-15		DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER American Warrior				LEASE Float "B"				WELL NO. 1	
ADDRESS				COUNTY Cowley		STATE Kansas			
CITY				STATE		SERVICE CREW C. Messiah, R. Sullivan, S. Ernst			
AUTHORIZED BY				JOB TYPE: C.A.W. Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
20920	.5					11-4-15	11-4-15	AM	1:30
						ARRIVED AT JOB	11-4-15	AM	9:30
						START OPERATION	11-5-15	AM	4:30
19862	.25					FINISH OPERATION	11-5-15	AM	5:30
						RELEASED	11-5-15	AM	5:45
						MILES FROM STATION TO WELL			1.00

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)


ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA 2 Cement	slr	175	\$	2,975 00
CP103	60/40 Poz	slr	50	\$	600 00
CC105	C-41P	Lb	33	\$	132 00
CC111	Salt	Lb	810	\$	405 00
CC112	Cement Friction Reducer	Lb	50	\$	300 00
CC129	FLA-322	Lb	83	\$	622 50
CC209	Gilsonite	Lb	875	\$	586 25
CF607	Latch Down Plug and Baffle, 5 1/2"	Eq	1	\$	400 00
CF1251	Auto Fill Float Shoe, 5 1/2"	Eq	1	\$	360 00
CF1691	Turbolizer, 5 1/2"	Eq	13	\$	1,430 00
CF1901	5 1/2" Basket	Eq	3	\$	870 00
CC151	Mud Flush	Gal	500	\$	750 00
E100	Pickup Mileage	Mi	100	\$	450 00
E101	Heavy Equipment Mileage	Mi	200	\$	1,500 00
E113	Bultr Delivery	Tm	1040	\$	2,600 00
CE204	Depth Charge: 3,000 Feet To 4,000 Feet	4 Hr	1	\$	2,160 00
CE240	Blending and Mixing	slr	225	\$	315 00
CE504	Plug container	Job	1	\$	250 00
S003	Service Supervisor	Eq	1	\$	175 00

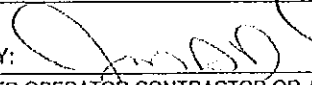
SUB TOTAL \$ 16,880 75

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL \$ 18,440 38

SERVICE REPRESENTATIVE 

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



Depend On Us

Post Job Report

Ammerican Warrior

Houk B-1

Rig Name

10/28/2015

Conductor





Cementing Services
Field Ticket

Field Ticket Number: MLK10153012 Field Ticket Date: Friday, October 30, 2015

BUYER:
AMERICAN WARRIOR
GARDEN CITY, KS 67848
P.O. BOX 399

Job Name: 07 Conductor
Well Location: COWLEY, KANSAS
Well Name: HOUK
Well Number: B-1
Well Type: New Well
Rig Number: DUKE 7 #
Shipping Point: Medicine Lodge, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
JAKE HEARD		CEMENTERS PICK-UP 717	
ROGER SMITH		CEMENTERS PICK-UP 920	
KINDEL HOLIMAN		PUMP TRUCK 088-489	
WAYNE RUCKER		BULK TRUCK 950-843	

SERVICES - SERVICES - SERVICES

Description	Qty	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PUMP,CASING CEMENT 0-500 FT	1.00	min. 4 hr	1,512.25	1512.25	907.35	40.0%	907.35
PHDL	229.00	per cu. Ft.	2.48	567.92	1.49	40.0%	340.75
DRYG	519.00	ton-mile	2.76	1427.25	1.65	40.0%	856.35
MILV	50.00	per mile	4.40	220.00	2.04	40.0%	132.00
MIHV	50.00	per mile	7.70	385.00	4.62	40.0%	231.00

MATERIALS - MATERIALS - MATERIALS

CCAC	210.00	sack	17.90	3,759.00	10.74	40.0%	2,255.40
CA-100	593.00	pound	1.10	652.30	0.66	40.0%	391.38
GGEL	395.00	pound	1.05	414.75	0.63	40.0%	248.85

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of sol hours		per hour	440.00	0.00	264.00	40.0%	0.00
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	Gross	Discount	Final
Services Total	4,112.42	1,644.97	2,467.45
Equipment Total	0.00	0.00	0.00
Materials Total	4,826.05	1,930.42	2,895.63
Additional Items	0.00	0.00	0.00
Final Total	8,938.47	3,575.39	5,363.08

Attest Rep: JAKE HEARD
Customer Agent:

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

x *Robert D. Rouch*
Customer Signature

Field Ticket Total (USD):

\$5,363.08

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Oil & Gas Services, LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "JOB" relates to the services described on the front side of this contract. "MERCHANDISE" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

-TERMS: Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate. Any amounts previously paid in excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

Cement Treatment Summary



Slurry Details										
SPACER		Water Req gal/sk		0	Yield ft ³ /sk		0	# Sacks		0
Fluid Composition										
Water										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
3.25	0	2.1	40	2.24	46	0	100	12:54 AM	12:56 AM	

CEMENT		Water Req gal/sk		0	Yield ft ³ /sk		0	# Sacks		0
Fluid Composition										
Cement										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
46.09	15.02	2.59	109	3.64	215	0	0	1:00 AM	1:17 AM	

DISPLACEMENT		Water Req gal/sk		0	Yield ft ³ /sk		0	# Sacks		0
Fluid Composition										
Water										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
2.25	14.22	2.06	46	2.33	62	0	0	1:19 AM	1:20 AM	

Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
Paused 00:30:45-00:47:55	0.00	24.00	0.00	0.00	12:30:45 AM
PSI TEST 1000	0.00	24.00	0.70	0.00	12:52:31 AM
PUMP SPACER 3 BBL	0.00	24.00	0.00	0.20	12:54:19 AM
START MIX CEMENT	9.10	24.00	0.00	0.00	12:58:28 AM
Pump cement	13.38	24.00	0.00	0.00	12:59:58 AM
DISPLACE 4.25 BBL	15.80	29.00	1.06	47.20	1:18:56 AM
SHUT DOWN	11.90	24.00	0.01	4.10	1:21:17 AM
Paused 01:26:15	13.07	79.00	3.13	5.50	1:26:14 AM



Cement Job Summary

Job Number: **MLK151029000** Job Purpose **07 Conductor**

Customer: **AMERICAN WARRIOR** Date: **10/29/2015**

Well Name: **HOUK** Number: **B-1** API/UWI:

County: **COWLEY** City: **GEUDA SPRINGS** State: **KANSAS**

Cust. Rep: Phone: Rig Phone:

Distance **50 miles (one way)** Supervisor **Jake Heard**

Employees:	Emp. ID:	Employees:	Emp. ID:
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JAKE HEARD	#N/A		
ROGER SMITH	#N/A		
KINDEL HOLIMAN	0		
WAYNE RUCKER	#N/A		

Equipment:

- CEMENTERS PICK-UP 717
- CEMENTERS PICK-UP 929
- PUMP TRUCK 986-469
- BULK TRUCK 950-643

Materials - Pumping Schedule

STAGE #1

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	FRESH WATER	5	0.00	n/a	n/a
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	CLASS A COMMON	165	14.96	1.34	6.20

Slurry: Tail 1 Slurry Name: **CLASS A COMMON**

Quantity:	165 sacks	Blend Vol:	179.39 cu.ft. cu.ft.	Blend Weight:	16285.5 lbs
Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON	94	% Base Material	15510.0	lbm
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	465.3	lbm
CGEL	GEL - BENTONITE	1.88	% BWOC	310.2	lbm
Water	Mixing Water	6.20	gal/sk	1023.0	gal

Job Number: **MLK151029000** Job Purpose **07 Conductor**

Customer: **AMERICAN WARRIOR** Date: **10/29/2015**

Well Name: **HOUK** Number: **B-1** API/UWI:

County: **COWLEY** City: **GEUDA SPRINGS** State: **KANSAS**

Cust. Rep: Phone: Rig Phone: **0**

Distance **50 miles (one way)** Supervisor **Jake Heard**

DATE	TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
		CASING	ANNULUS	VOLUME	RATE (BPM)	
10/29/2015	12:00:00 AM					ARRIVE ON LOCATION
						SAFETY MEETING
						SPOT IN RIG UP
						SAFETY MEETING
		1000				PRESSURE TEST
		100		3	3	PUMP SPACER
		130		39.37	3.5	MIX AND PUMP CEMENT
		80		4.25	2	DISPLACE
						STOP
	1:15:00 AM					SHUT IN
						WASH UP



Depend On Us

Post Job Report

AMERICAN WARRIOR

HOUNK SURFACE B1

Rig Name

10/29/2015

Surface

COWLEY, Kansas





Field Ticket Number: **MLK10163012** Field Ticket Date: **Thursday, October 30, 2015**

Bill To:
AMERICAN WARRIOR
GARDEN CITY, KS 67846
P.O. BOX 399

Job Name: 01 Surface
Well Location: COWLEY, KANSAS
Well Name: HOUK
Well Number: B-1
Well Type: New Well
Rig Number: DUKE 7 #
Shipping Point: Medicine Lodge, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
JAKE HEARD		CEMENTERS PICK-UP 717	
ROGER SMITH		CEMENTERS PICK-UP 929	
KINDEL HOLIMAN		PUMP TRUCK 986-469	
WAYNE RUCKER		BULK TRUCK 950-643	

SERVICES - SERVICES - SERVICES

Description	Qty	UOM	Unit Amt	Gross Amt	Unit Price	Discount	Net Amount
PUMP,CASING CEMENT 0-500 FT	1.00	min. 4 hr	1,512.25	1512.25	907.35	40.0%	907.35
CMLP	1.00	per day	275.00	275.00	165.00	40.0%	165.00
PHDL	229.00	per cu. Ft.	2.48	567.92	1.49	40.0%	340.75
DRYG	519.00	ton-mile	2.75	1427.25	1.65	40.0%	856.35
MILV	50.00	per mile	4.40	220.00	2.64	40.0%	132.00
MIHV	50.00	per mile	7.70	385.00	4.62	40.0%	231.00

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT

TRP-8.625	1.00	each	131.00	131.00	78.60	40.0%	78.60
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MATERIALS - MATERIALS - MATERIALS

CCAC	210.00	sack	17.90	3,759.00	10.74	40.0%	2,255.40
CA-100	593.00	pound	1.10	652.30	0.66	40.0%	391.38
CGEL	395.00	pound	1.05	414.75	0.63	40.0%	248.85

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours		per hour	440.00	0.00	264.00	40.0%	0.00
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	Gross	Discount	Final
Services Total	4,387.42	1,754.97	2,632.45
Equipment Total	131.00	52.40	78.60
Materials Total	4,826.05	1,930.42	2,895.63
Additional Items	0.00	0.00	0.00
Final Total	9,344.47	3,737.79	5,606.68

Allied Rep: JAKE HEARD
Customer Agent: GALEN D. ROACH

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I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X _____ Field Ticket Total (USD): **\$5,606.68**
Customer Signature

GENERAL TERMS AND CONDITIONS

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CEMENTING - DISPATCH SHEET

Job Number	By Kevin Brungardt	Field	Date 10/29/2015
Company American Warrior	Rep Galen Roach	Phone 620-786-1728	
Lease Name and Number Houk B-1	Drilling Contractor Duke Drilling #7		
County Cowley	State Kansas	Township 34S	
Formation	Section 6	Range 03E	
Tubing Size & Weight	Depth	Casing Size & Weight 8.625" x 24.0#	Depth 325'
Type Job Surface Casing	Pre Flush Fresh Water	Hole Size 12.25"	

1st Stage 175 sacks Class A + 3% Calcium Chloride + 2% Gel

Lead	Yield 1.94	Weight 15.2	Water 6.51	Tail	Yield	Weight	Water
------	------------	-------------	------------	------	-------	--------	-------

2nd Stage

Lead	Yield	Weight	Water	Tail	Yield	Weight	Water
------	-------	--------	-------	------	-------	--------	-------

Location	Pump Time	Call in Time	Yard Time
Top Plug	Bottom Plug	Displacement Fresh Water	Type (Fluid)

They will have 45' of 13 3/8" conductor set
 OR GO TO MM#13 ON HWY. 166, then North 5.0 miles, East 1.0 miles, South 1.0 miles, East 0.75 miles, S/E into

Cementer Roger Smith	Unit #	Directions
Kindel Holman		Gaude Springs, Kansas
Wayne Rucker		West 1.0 miles
		North 1.0 miles
		East 1.0 miles
		South 1.0 miles
		East 0.75 miles
		S/E into

Front Pot	Unit No.	Back Pot	Front Pot	Unit No.	Back Pot
Materials	Pounds	Materials	Pounds	Materials	Pounds
Class A	16450				
Calcium Chloride	329				
Gel	329				
175 sacks					
Total Pounds	17108	Total Pounds	Total Pounds	Total Pounds	Total Pounds



Cementing Services
Field Ticket

Field Ticket Number: MLK10153012

Field Ticket Date:

Thursday, October 30, 2015

Bill To:
AMERICAN WARRIOR
GARDEN CITY, KS 67846
P.O. BOX 399

Job Name: 01 Surface
Well Location: COWLEY, KANSAS
Well Name: HOUK
Well Number: B-1
Well Type: New Well
Rig Number: DUKE 7 #
Shipping Point: Medicine Lodge, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
JAKE HEARD		CEMENTERS PICK-UP 717	
ROGER SMITH		CEMENTERS PICK-UP 829	
KINDEL HOLIMAN		PUMP TRUCK 988-469	
WAYNE RUCKER		BULK TRUCK 850-843	
10:47 AM - 1:26 AM			

SERVICES - SERVICES - SERVICES

Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PUMP, CASING CEMENT 0-500 FT	1.00	min. 4 hr	1,512.25	1512.25	907.35	40.0%	907.35
CMLP	1.00	per day	275.00	275.00	165.00	40.0%	165.00
PHDL	229.00	per cu. Ft.	2.48	567.92	1.49	40.0%	340.75
DRYG	519.00	ton-mile	2.75	1427.25	1.65	40.0%	856.36
MILV	50.00	per mile	4.40	220.00	2.64	40.0%	132.00
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FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT

TRP-0,825	1.00	each	131.00	131.00	78.60	40.0%	78.60
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MATERIALS - MATERIALS - MATERIALS

CCAC	210.00	sack	17.90	3,759.00	10.74	40.0%	2,256.40
CA-100	593.00	pound	1.10	652.30	0.66	40.0%	391.38
CGEL	395.00	pound	1.05	414.75	0.63	40.0%	248.65

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours		per hour	440.00	0.00	294.00	40.0%	0.00
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	Gross	Discount	Final
Services Total	4,387.42	1,754.97	2,632.45
Equipment Total	131.00	52.40	78.60
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Allied Rep: JAKE HEARD
Customer Agent: GALEN D. ROACH

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I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X

Field Ticket Total (USD):

\$5,606.68

Customer Signature

GENERAL TERMS AND CONDITIONS

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Cement Treatment Summary



Slurry Details										
ESPACER		Water Req gal/sk		0	Yield ft ³ /sk		0	# Sacks		0
Fluid Composition										
WATER										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
2.56	7.61	2	74	3.08	129	0	0	12:49 AM	12:50 AM	

CEMENT		Water Req gal/sk		6.51	Yield ft ³ /sk		1.34	# Sacks		2.10
Fluid Composition										
CEMENT										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
63.33	14.7	5.31	265	5.66	306	0	0	12:52 AM	1:04 AM	

DISPLACEMENT		Water Req gal/sk		0	Yield ft ³ /sk		0	# Sacks		0
Fluid Composition										
WATER										
Total BBL	Average Dens PPG	Average Rate Bpm	Average Press PSI	Max Rate Bpm	Max Press PSI	Planned Dens PPG	Density Accuracy %	Start Time	End Time	
17.5	5.2	3.51	77	4.91	203	0	11.22	1:07 AM	1:15 AM	

Event Summary					
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time
PSI TEST	8.26	875.00	1.40	8.60	12:47:24 AM
PUMP SPACER 3 BBL	8.08	46.00	1.52	0.00	12:49:39 AM
Pump cement	14.17	40.00	0.78	1.20	12:52:22 AM
SHUT DOWN	11.38	64.00	1.85	66.70	1:04:29 AM
Drop plug	12.30	24.00	0.00	66.70	1:05:57 AM
STAER DISPLMENT	12.09	50.00	0.65	66.70	1:07:35 AM
SHUT DOWN	7.36	139.00	2.50	21.50	1:15:53 AM
Paused 01:26:01	7.34	24.00	0.00	21.90	1:26:01 AM



COMPANY: _____ DATE: _____

WELL NAME: _____

LEGALS: 6-345-3E

Clarksburg, WV
(304) 626-3078

Russell, KS
(785) 483-2627

Great Bend, KS
(620) 793-5861

Oakley, KS
(785) 672-3452

Muncy, PA
(570) 546-0357

Medicine Lodge, KS
(620) 886-5926

Liberal, KS
(620) 624-5937

VOL. BETWEEN PIPE & HOLE GAP

	DBUFT	FT/DBL	CF/LF
4 1/2 - 7 7/8	.0105	24.85	.2278
5 1/2 - 7 7/8	.0099	32.41	.1733
6 0/8 - 12 1/4	.0735	10.01	.4127
9 5/8 - 12 1/4	.0523	17.93	.3132
13 3/8 - 17 1/2	.1924	8.03	.8246

TUBING & CASING SIZE & GAP

	WT.	DBUFT	FT/DBL
2 3/8	4.6	.0039	258.61
2 7/8	6.5	.0038	172.78
3 1/2	9.3	.0047	114.93
4 1/2	10.3	.0159	62.70
4 1/2	11.6	.0155	64.34
5 1/2	15.5	.0238	42.01
5 1/2	17.0	.0232	43.02
5 1/2	20.0	.0222	45.09
6 1/2	23.9	.0212	47.20
6 5/8	32.0	.0209	16.41
6 5/8	36.0	.0773	12.94

D.P. SIZE: _____ TUBING SIZE: _____ CASING SIZE: _____

HOLE SIZE: _____ PERFS: _____

PACKER SETTING: _____ BP SETTING: _____ MAX RATE: _____

MAX PSI: _____ BHST: _____ FORM: _____ TAIL PIPE: _____

VOL. BETWEEN PIPE & PIPE GAP

	WT.	DBUFT	FT/DBL	CF/LF
2 3/8 - 4 1/2	11.6	.0101	89.37	.0555
2 3/8 - 6 1/2	17.0	.0178	56.28	.0358
2 7/8 - 5 1/2	17.0	.0152	65.71	.0154
2 7/8 - 7	23.0	.0313	31.91	.1760

12 7/4 Bl. 315'

8 5/8 2 1/4" .0636

P.P.C. 295.4' 20' Shoe Joint

275.4 x .0636 = 17.5 BBL DISPL

.4127 x 295' = 121.7

1.34 15.2 6.51

265 ft

3575 7.15 ft

128.85 ft

31 BBL mix H₂O

47.7 BBL CMF

1048 PSI

.7896

.483 v

.3566

