

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1084274

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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 #	31234		API No. 15 - 15-125-32214-00-00
Name: Fidelity Ene	rgy, Inc.		Spot Description:
Address 1: P.O. BOX 3	6		NW NW SW NW Sec. 9 Twp. 33 S. R. 14 F East West
Address 2: 202 SOUTH	I CHAUTUAQUA		
City: SEDAN	State: KS Zip	: 67361 +	100 Feet from East / West Line of Section
Contact Person: SHELI	LEY WISE		Footages Calculated from Nearest Outside Section Corner:
Phone: ( 620 ) 725	3-3727		□NE ☑NW □SE □SW
CONTRACTOR: License	#_5831		County: Montgomery
			Lease Name: PATTERSON (CHK) Well #: 8
Wellsite Geologist: NA			Field Name:
Purchaser: COFFEYVIII	LE RESOURCES		Producing Formation: BARTLESVILLE SAND
Designate Type of Compl			Elevation: Ground: 891 Kelly Bushing: 0
✓ New Well	Re-Entry	Workover	Total Depth: 1265 Plug Back Total Depth:
 ☑ Oil ☐ W		□ slow	Amount of Surface Pipe Set and Cemented at: 45 Feet
☐ Gas ☐ D8	KA 🗌 ENHR	☐ sigw	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
og og	☐ GSW	Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Meth			If Alternate II completion, cement circulated from:
☐ Cathodic ☐ Ot	her (Core, Expl., etc.):		feet depth to: 1246 w/ 130 sx cmt.
If Workover/Re-entry: Ok	d Well Info as follows:		
Operator:	<del></del>		Drilling Fluid Management Plan
Well Name:			(Data must be collected from the Reserve Pit)
Original Comp. Date:	Original To	tal Depth:	Chloride content: 0 ppm Fluid volume: 0 bbls
Deepening	Re-perf. Conv. to	ENHR Conv. to SWD	Dewatering method used: _Evaporated
	Conv. to	GSW	Dewatering method used.
Plug Back:	Pluș	Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:		Operator Name:
Dual Completion	Permit #:	·	Lease Name: License #:
☐ SWD	Permit #:		
☐ ENHR	Permit #:		Quarter Sec TwpS. R East West
☐ GSW	Permit #:	<u>.</u>	County: Permit #:
05/15/2012	05/16/2012	05/30/2012	
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date	

### **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 VII III Approved by: Deanna Garrison Date: 06/18/2013





1084274

Operator Name: Fide	elity Energy, Inc	i		Lease	Name: _	PATTERSON	N (CHK)	Well #: <u>8</u>		
Sec. 9 Twp.33	S. R. <u>14</u>	✓ East	☐ West	Count	y: Mont	gomery				
INSTRUCTIONS: Shot time tool open and clo recovery, and flow rate line Logs surveyed. At	sed, flowing and shes if gas to surface t	ut-in pressi est, along v	ures, whether s with final chart(	hut-in pre	ssure read	hed static level	, hydrostatic press	ures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Y	es 📝 No		<b>⊘</b> Lo	og Formatio	on (Top), Depth an	d Datum		Sample
Samples Sent to Geole	ogical Survey	□ Y	es 🗸 No		Nam	9		Тор	ī	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy,	<del>-</del>	□ y Ø y Ø y	es 🗌 No		HIGH	RESOLUTION				
List All E. Logs Run:										
HIGH RESOLUTION COMPESA DUAL INDUCTION LL3/GR LOG GAMMA RAY CCL/RADIAL CEM		UTRON LOG								
		Do-		RECORD	_		tian ata			
Purpose of String	Size Hole	Si	ze Casing	W	eight	ermediate, produc Setting	Type of	# Sacks		and Percent
CASING	Drilled	8.625	t (In O.D.)	23	s, / Ft.	Depth 40	PORTLAND	Used 14	<u>^</u>	dditives
PRODUCTION	6.75	4.5		10.5		1246	PORTLAND	130		
	1		ADDITIONAL	CEMENT	ING / SQL	JEEZE RECORD	<del></del>	<u> </u>	1,	
Purpose: Perforate	Depth Top Bottom	Туре	of Cement	# Sac	ks Used		Type and F	ercent Additives		·
Protect Casing Plug Back TD Plug Off Zone	-									
						<u> </u>				
Shots Per Foot			RD - Bridge Plug Each Interval Per		• 		acture, Shot, Cement Amount and Kind of Ma		d 	Depth
3	1231-1232									
}										
		<del></del>	<del></del>							
TUBING RECORD:	Size: ? 3/8	Set At 1246	:	Packer	At:	Liner Run:	Yes No			
Date of First, Resumed 06/08/2012	Production, SWD or E	NHR.	Producing Met	hod: Pump	ing 🗌	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er I	Bbls. (	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:			METHOD (	OF COMPLI	ETION:	<del></del>	PRODUCTION	ON INTER	 VAL:
Vented Sold	✓ Used on Leas	´		ViETHOD ( ✓ Perf.	_	Comp. Co	ommingled bmit ACO-4)			
L	•	ليا	one (specify)							

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

S.q Moket Drilling Jun 07 12 07:53a 1878-678-028

Air Drilling
Specialist
Oil and Gas Wells

620-879-5751

Mokat Drilling

Jun 07 12 07:53a



M.O.K.A.T. DRILLING Office Phone: (620) 879-5377

P.O. Box 590 Caney, KS 67333

			_				_							
Operator	FIDELITY ENERGY	Well No.		Lease		Loc.		101 SA	И	Se	<u>.                                    </u>	Twp.	Rge.	
	PIDELITY ENERGY	8	8 PATTERSOI								у		33 14	
		County		State		Type/Well		Depth	Hours	Da	te Started	1	ate Completi	
		MONTGO	MERY		KS			1265			5-15-12		5-16-12	
Job No,	Casing Used		Bit Record							Coring	Record			
	45	1 8 5/8"	Bit No.	Туре	siza	From	Ťo	Bit No.	type	Size	From	To	% Rec	
Dritter	Cement Used			Ī	1		Ĭ	i i						
TC	OOTIE			<u> </u>	6 3/4"	.1		1						
Driller	Rig No.							T			Ţ			
				ĺ	1	1		. 1		_				
Driller	Hammer No.	-												
			1									- 1		
	<del></del>				_		•							

# Formation Record

			<del></del>			UUII INE					
From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
10	45	SURFACE		1		1					
45	48	SHALE					Í		<u> </u>		<u> </u>
48	55	LIME :	_								
55	125	SHALE									
125	133	LIMEY SHALE									
133	175	SAND	1							L	<u></u>
175	300	SANDY SHALE								<u> </u>	
300	340	SAND								I	
340	390	SANDY SHALE									
390	720	SHALE	L								
720	728	LIME	3							Í	
728	733	SANDY SHALE									
733	740	SAND (WAYSIDE)							<u> </u>	<u> </u>	
740	782	SANDY SHALE									
712	802	LIME (OIL ODOR)	L								
802	932	SHALE									
932	957	LIME									
957	1025	SHALE					l	l			
1025	1055	LIME (OSWEGO)									
1055	1070	BLK SHALE							1	<u> </u>	<u> </u>
1070	1085	LIME									<u> </u>
1085	1098	SHALE						I			
	1104	LIME									
1104		SHALE							3.		
1168		LIME									1
1170	1180	BLK SHALE					L	<u></u>			i
1180	1210	SHALE				Τ		]_			
1210	1222	SAND								1	
1222	1265	SHALE								[	I
		T.D, 1265'				1					
											l
								·			

#### EMENT FIELD TICKET AND TREATMENT REPORT

Customer	T	Cimta Carra		C T		
	Fidelity	State, County	Montgomery , Kansas	Cement Type	CLASS	Α
ob Type	Long String	Section	9	Excess (%)	30	
ustomer Acct #		TWP	335	Density	13.8	
Vell No	Patterson CHK #8	RGE .	14E	Water Required		
lailing Address		Formation		Yeild	1.75	
ity & State		Hole Size	6 3/4	Slurry Weight		
ip Code		Hole Depth	1260	Slurry Volume	·	
Contact		Casing Size			<del> </del>	
			4 1/2INCH, J-55 (10.5 LBS)	Displacement		2
:mail		Casing Depth	1246	Displacement PSI		80
Cell		Drill Pipe		MIX PSI		25
Dispatch Location	BARTLESVILLE	Tubing		Rate		4.
ode	Cement Pump Charges and Mileage	Quantity	Unit	Price per Unit		
5401	CEMENT PUMP (2 HOUR MAX)	1	2 HRS MAX	\$1,030.00	\$	1,030.00
5406	EQUIPMENT MILEAGE (ONE-WAY)	35	PER MILE	\$4.00	Š	140 00
5407	MIN, BULK DELIVERY (WITHIN 50 MILES)	1	PER LOAD	\$350.00	5	350 00
0	MIN. BULK DELIVERY (WITHIN 30 MICES)					350 0
			0	\$0.00	\$	<del></del>
<u> </u>			o	\$0.00	\$	<u>:</u>
0			0	\$0.00	\$	
0			0	\$0.00	\$	
0			0	\$0.00	5	•
5402	FOOTAGE	1,246	PER FOOT	0 22	\$	274.12
	<u></u>			QUIPMENT TOTAL	3	1,794.12
	Coment Chemicals and Water		1	LUN INCITE TOTAL	-	4,10-1.11
44004	Cement, Chemicals and Water	455	<del></del>	440.00	<u> </u>	A 155 11
1126A	THICK SET CEMENT (8LB OWC 4% GEL 2% CAL, CLORIDE	130	0	\$19.20	\$	2,496.0
1107A	PHENOSEAL	80	0	\$1.29	5	103.20
1110A	KOL SEAL (50 # SK)	650	0	\$0.46	\$	299.00
1111	GRANULATED SALT (50#) SELL BY #	700	0	\$0.37	\$	259.00
1123	CITY WATER (PER 1000 GAL)	5	0	\$16.50	\$	82.50
1118B	PREMIUM GEL/BENTONITE (50#)	150	0	\$0.21	Š	31.50
0	T NEMON GEBENTONITE (GOL)	,,,,,	ŏ	\$0.00	\$	
0			0	\$0.00		<del></del>
					\$	<del></del>
0			0	\$0.00	\$	
00			0	\$0.00	<u>s</u>	
. 0			0	\$0.00	\$	
				CHEMICAL TOTAL	\$	3,271.20
	Water Transport			T		
5501C	WATER TRANSPORT (CEMENT)	3	TER TRANSPORT (CEME	\$112.00	\$	336 00
0	in the state of th		0	\$0.00	\$	
Ö	<del></del>		Ö			<del></del>
<u>v</u>				\$0.00	\$	
	<u> </u>		T	RANSPORT TOTAL	\$	336.00
<u></u>	Cement Floating Equipment (TAXABLE)				L	
	Cement Basket					
0			0	\$0.00	\$	
	Centralizer					
0			0	\$0.00	\$	<del></del> -
0			Ó	\$0.00	\$	
	Float Shoe	· · · · · · · · · · · · · · · · · · ·	<del></del>	70:00	<u> </u>	
0	1 ROBLOSIOS		0	\$0.00	s	<del></del>
	File of the second		<u> </u>	1 \$0.00	, a	<del></del> :-
	Float Collars			1		
0	A.11-0		0	\$0.00	\$	
	Guide Shoes					
0	l <u> </u>		QQ	\$0.00	\$	
	Baffle and Flapper Plates					
						-
0			0	\$0.00	\$	
0	Packer Shoes		0	\$0.00	\$	
0	Packer Shoes		0			<del></del>
*				\$0.00	\$	
0	Packer Shoes DV Tools		.0	\$0.00	\$	-
*	DV Tools					
0			0	\$0.00	\$	
0	DV Tools		0 0	\$0.00 \$0.00	\$	
0 0 0	DV Tools		0 0 0	\$0.00 \$0.00 \$0.00 \$0.00	\$ \$ \$	
0	DV Tools Ball Valves, Swedges, Clamps, Misc		0 0	\$0.00 \$0.00	\$	
0 0 0 0	DV Tools  Ball Valves,Swedges,Clamps, Misc  Plugs and Ball Sealers		0 0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$ \$ \$ \$	-
0 0 0	DV Tools  Ball Valvas, Swedges, Clamps, Misc  Plugs and Ball Sealers  4*172* RUBBER PLUG	1	0 0 0	\$0.00 \$0.00 \$0.00 \$0.00	\$ \$ \$	
0 0 0 0 0	DV Tools  Ball Valves,Swedges,Clamps, Misc  Plugs and Ball Sealers	1	0 0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$ \$ \$ \$	-
0 0 0 0	DV Tools  Ball Valvas, Swedges, Clamps, Misc  Plugs and Ball Sealers  4*172* RUBBER PLUG	1	0 0 0 0 0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$ \$ \$ \$	45 00
0 0 0 0 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLUG  Downhole Tools	1	0 0 0 0 0 0 PER UNIT	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$0.00 QUIPMENT TOTAL	\$ \$ \$ \$ \$	-
0 0 0 0 0 0	DV Tools  Ball Valvas, Swedges, Clamps, Misc  Plugs and Ball Sealers  4*172* RUBBER PLUG	1	0 0 0 0 0 0 PER UNIT 0 CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$0.00 QUIPMENT TOTAL SUB TOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 00
0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 QUIPMENT TOTAL SUB TOTAL (-DISCOUNT)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 00 45 00 5,855 2: 566 5:
0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4*1/2* RUBBER PLUG  Downhole Tools  DRIVER NAME	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 00 45 00 5,855 2: 566 5:
0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 QUIPMENT TOTAL SUB TOTAL (-DISCOUNT)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45.00 45.00 5,655.22 5665.53
0 0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 00 45 00 5,855 2: 566 5:
0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45.00 45.00 5,655 2: 565 3: 208 9:
0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 0 45 0 5,655 2 565 3 208 9
0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLU0  Downhole Tools  DRIVER NAME Lucas, Bryan	1	0 0 0 0 0 0 PER UNIT  CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 0 45 0 5,655 2 565 3 208 9
0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLUG  Downhole Tools  DRIVER NAME Lucas, Bryan  Marrs, Casey		0 0 0 0 0 PER UNIT 0 CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45 0 45 0 5,655 2 565 3 208 9
0 0 0 0 0 0 4404 0	DV Tools  Ball Valves, Swedges, Clamps, Misc  Plugs and Ball Sealers  4' 1/2' RUBBER PLUG  Downhole Tools  DRIVER NAME Lucas, Bryan  Marrs, Casey	1 time	0 0 0 0 0 PER UNIT 0 CEMENT FLOATING E	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$45.00 \$UIPMENT TOTAL CUIPMENT TOTAL (-OISCOUNT) SALES TAX	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	45.00 45.00 5,655 2: 565 3: 208 9:

I ACKNOWLEDGE THAT THE PAYMENT TERMS, LINLESS SPECIFICALLY AMENDED IN WINTING ON THE FRONT OF THE FORM OR IN THE CUSTOMER'S ACCOUNT RECORDS, AT OUR OFFICE, AND CONDITIONS OF SERVICE ON THE BACK OF THIS FORM ARE IN EFFECT FOR SERVICES IDENTIFIED ON THIS FORM.

## CEMENT FIELD TICKET AND TREATMENT REPORT

Customer	Fidelity	State, County	Montgomery , Kensas	Cement Type	CLASS A
Customer Acct #	Long String	Section	9	Excess (%)	30
Well No	0	TWP	33\$	Density	13.8
Mailing Address	Patterson CHK #8	RGE	14E	Water Required	o
City & State	0	Formation	0	Yeild	1.75
Zip Code	0	Hole Size	6 3/4	Slurry Weight	o
Contact	0	Hole Depth	1260	Sturry Voturne	0
Email	0	Casing Size	1/2INCH, J-55 (10.5 LBS	Displacement	20
Cell		Casing Depth	1246	Displacement PSI	800
Office	0	Dnii Prpe	0	MIX PSI	250
Dispatch Location	BARTLESVILLE	Tubing	0	Rate	4.5
REMARKS				· · · · · · · · · · · · · · · · · · ·	

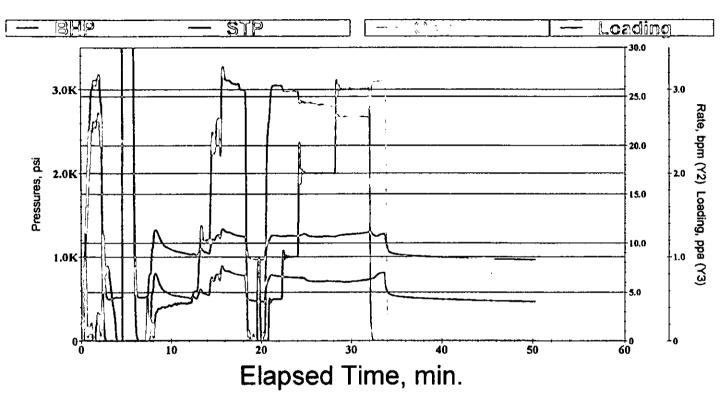
REMARKS	
Pumped 3 sks gel ahead, est. circulation, pumped 130 sks thick-set cement, flushed pump and lines	
displaced plug to bottom set shoe shut in. Circulated cement to surface.	

Customer Acct \$ Well No. Patterson CHK \$6 \$ Mailing Address City & State Zip Code Dispatch Location Code Vehicles, Equipment and Mileage 5102 2250 HP PUMP (UP TO 5500 PSi) 5110 BLENDER TRUCK (0-20 BPM) 5111 FRAC VAN 5110 FLOW METERED CHEMICAL PUMP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stage	1	1	1
Welling Address City & State Zip Code Dispatch Location Code Ushicles, Equipment and Mileage Sti02 Sti02 Sti06 BLENDER TRUCK (№20 BPM) Sti11 FRAC VAN Sti18 FRAC VAN Sti18 FRAC VAN Sti18 FRAC VAN Sti18 FRAC WAN STI18 STIMPLO (FWAL STIMPLO (F	County	<del>                                     </del>		<del></del>
Mailing Address   City & State	Section	+	Montgomery Cou	rity, ruerisas
City & State   Zip Code   Dispatch Location   BARTLESVILLE	<del></del> -	<del> </del>	18	
Zp Code	TWP		26N	
Dispatch Location	RGE	ļ	16E	
Code	Formation		Bartiesvii	le .
S102   2250 HP PUMP (UP TO 5500 PSI)	Perfs		1196-120	)4
S102   2250 HP PUMP (UP TO 5500 PSI)	Quantity	Unit	Price per Unit	<u> </u>
S108   BLENDER TRUCK (0-20 BPM)	1	PER STAGE	3275.00	\$ 3,275.00
S111	1	PER STAGE	1050.00	\$ 1,050.00
S107   FLOW METERED CHEMICAL PUMP   0	1	PER STAGE	1500.00	\$ 1,500.00
Chemical Trestment and Water	1	PER STAGE	250.00	\$ 250.00
Chemical Treatment and Water	3	PER STAGE	125.00	8 375.00
Chemical Trestment and Water		ļ <u>.</u>	0.00	-
Chemical Trestment and Water		0 0	0.00	\$ -
Chemical Trestment and Water	<del></del>	· · · · · ·	0.00	-
Chemical Treatment and Water	<del></del>	0	0.00	\$ .
1205   BACHCIDE     1215A		0	0.00	\$ .
1205   BACHCIDE     1215A			SUBTOTAL	\$ 6,450.00
1205   BACHCIDE     1215A	24%		MENT DISCOUNT	
1205   BACHCIDE     1215A		EQ	UIPMENT TOTAL	\$ 4,902.00
1215A   KCL SUBTITUTE (KCL-8001)     1275				
1275	5.0	GALLONS	30.00	\$ 150.00
1202 ACID INHIBITOR (AI-280) 1214 IRON CONTROL (SP-950) 1219B STIMELO (SP-950) 1244 CLAY STAY (CS-250)(CS-702) 1231 FRAC GEL (GA-40W) 1208C BREAKER AMMONIUM PERSULFATE 1208 BREAKER AMMONIUM PERSULFATE 1208 CTTY WATER (TAXABLE) 0 0 0  Send 1270 BROWN (bulk) 2102 1270 BROWN (bulk) 2102 1270 BROWN SAND 0 0  Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5501F WATER TRANSPORT (FRAC) 0 0  Frac Valves 5604 3 INCH FRAC VALVE 0  Miscellaneous Costs 0 0  DISCOURT (2000 by PAID WITHEN 50 DAYE)	18.0 ION) 350.0	GALLONS GALLONS	36,50 2,40	\$ 657,00 \$ 840.00
1214 (RON CONTROL (SP-950) 1219B STIMFLO (FBA) 1244 CLAY STAY (CS-250)(CS-702) 1231 FRAC GEL ( GA-40W) 1209C BREAKER AMMONIUM PERSULFATE 1208 BREAKER (LEB-4) 1258 CITY WATER (TAXABLE) 0 0 Send 2102 1270 BROWN (bulk) 2104A 19730 BROWN SAND 0 0 Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 0 Frac Valves 5604 3 INCH FRAC VALVE 0  Miscellaneous Costs 0 0 0 DISCOURT	1.0	GALLONS	50.00	\$ 840.00 \$ 50.00
12198   STIMFLO (FBA)     1244   CLAY STAY (CS-250)(CS-702)     1231   FRAC GEL (GA-40W)     1208C   BREAKER AMMONIUM PERSULFATE     1208   BREAKER (LEB-4)     1268   CITY WATER (TAXABLE)     0	2.0	GALLONS	40.00	\$ 80.00
1231   FRAC GEL ( GA-40W)     1208C   BREAKER AMMONIUM PERSULFATE     1208   BREAKER ( LEB-4)     1208   CITY WATER ( TAXABLE)     0	1.0	GALLONS	65.00	\$ 65.00
1208C BREAKER AMMONIUM PERSULFATE 1208 BREAKER (LEB-4) 1268 CITY WATER (TAXABLE) 0 0 0  Band 2102 12/20 BROWN (bulk) 2104A 19/30 BROWN SAND 0 0  Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 0 0  Frac Valves 5604 3 INCH FRAC VALVE 0  Miscellaneous Costs 0 0 0  DISCOURT DISCOURT	1.0	GALLONS	37,00	\$ 37,00
1208   BREAKER (LEB-4)     1268   CITY WATER (TAXABLE)     0	400.0	SACK	15.00	\$ 6,000.00
1268	25.0	GALLONS	4.88	\$ 121.50
Discount	21,000.0	GALLONS	200.00 0.02	\$ 200.00 \$ 327.60
Send   12/20 BROWN (bulk)	21,000.0	0	0.00	3
2102 12/20 BROWN (bulk) 2104A 19/30 BROWN SAND 0 0 0  Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 0  Frac Valves 5604 3 INCH FRAC VALVE 0  Miscellaneous Costs 0 0 0  DISCOUNT (accoder PAID WITHIN 50 DAYS)		0	0.00	\$ -
2102 12/20 BROWN (bulk) 2104A 19/30 BROWN SAND 0 0 0  Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 0  Frac Valves 5604 3 INCH FRAC VALVE 0  Miscellaneous Costs 0 0 0  DISCOUNT (accoder PAID WITHIN 50 DAYS)		a	IEMICAL TOTAL	\$ 8,528.10
2104A 19/30 BROWN SAND 0 0 Water and Chemical Transport 5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 Frac Valves 5604 3 INCH FRAC VALVE 0 Miscellaneous Costs 0 0 0 DISCOURT (2000) IF PAID WITHIN 30 DATES)				
Water and Chemical Transport  5310A ACID TRANSPORT 5109 MIN. BULK DELIVERY (WITHIN 50 MILES) 5108 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 0 Frac Valves 5604 3 INCH FRAC VALVE 0 Miscellamous Costs 0 0 0 DISCOUNT (QCCO IF PAID WITHIN 50 DAYS)	13,000	POUNDS	\$0.27	\$ 3,510.00
Water and Chemical Transport  5310A ACID TRANSPORT  5109 MIN. BULK DELIVERY (WITHIN 50 MILES)  5108 MILEAGE CHARGE (ONE WAY)  5501F WATER TRANSPORT (FRAC)  0 0 Frac Valves  5604 3 INCH FRAC VALVE  0 Miscellaneous Costs  0 0 0 DISCOURT	7,000	POUNDS	\$0.23 \$0.00	\$ 1,610.00
Water and Chemical Transport  5310A ACID TRANSPORT  5109 MIN. BULK DELIVERY (WITHIN 50 MILES)  5108 MILEAGE CHARGE (ONE WAY)  5501F WATER TRANSPORT (FRAC)  0  0  Frac Valves  5604 3 INCH FRAC VALVE  0  Miscellaneous Costs  0 0 0  DISCOURT  (2000 FR PAID WITHIN 30 DATS)	<del></del>	0	\$0.00	•
5310A   ACID TRANSPORT		<del> </del>	SAND TOTAL	\$ 5,120.00
5310A   ACID TRANSPORT	<del></del>	T		
5109 MILEAGE CHARGE (ONE WAY) 5501F WATER TRANSPORT (FRAC) 0 0 Frac Valves 5604 3 INCH FRAC VALVE 0 Miscellaneous Costs 0 0 DISCOUNT 0000 F PAID WITHEN 30 DAYS)	2	PER HOUR	\$140.00	\$ 280.00
5501F WATER TRANSPORT (FRAC)  0 0 Frac Valves  5604 3 INCH FRAC VALVE  0 Miscellamous Costs  0 0 0 0 DISCOUNT (QCCD IF PAID WITHEN 80 DAYS)		PER LOAD	\$315.00	\$ 315.00
O D D D D D D D D D D D D D D D D D D D	160	PER MILE	\$4,00	\$ 640.00
P.O. NUMBER: 1234	12	PER HOUR	\$112,00 \$0.00	\$ 1,344.00
Frac Valves  5604 3 INCH FRAC VALVE  0 Miscellaneque Costs  0 0 0 0 0 DISCOUNT (account Paid wither so days)	<del></del>		\$0.00	•
S604 3 INCH FRAC VALVE  0 Miscellaneous Costs  0 0 0 0 DISCOUNT (2000 FF PAID WITHEN SO DAYE)			NSPORT TOTAL	\$ 2,579.00
S604 3 INCH FRAC VALVE  0 Miscellaneous Costs  0 0 0 0 DISCOUNT (2000 FF PAID WITHEN SO DAYE)		1		
Miscellaneque Costs  0 0 0 0 DISCOUNT GOOD IF PAID WITHEN TO DAYES	1	PER WELL	\$100.00	\$ 100.00
DISCOUNT ( GOOD IF PAID WITHIN SO DAYS)  P.O. NUMBER: 1234			\$0.00	\$ -
DISCOUNT (2000) IF PAID WITHIN 30 DAYS)  P.O. NUMBER: 1234		FR/	C VALVE TOTAL	\$ 100.00
DISCOUNT COCOUNT COCOUNT PAID WITHIN 80 DAYES		<del> </del>	***	
DISCOUNT DISCOUNT DOOD IF PAID WITHIN 80 DAYES		0	\$0.00 \$0.00	\$ - \$ -
P.O. NUMBER: 1234	<del></del>	0	\$0.00	3 -
P.O. NUMBER: 1234	<del></del>	<del>                                     </del>	MISC. TOTAL	
9000 1F PAID WITHIN 10 DAYS) P.O. NUMBER: 1234			SUB TOTAL	22,777,10
9000 1F PAID WITHIN 10 DAYS) P.O. NUMBER: 1234	24% EQUIP	MENT DISCOUN	T(FROM ABOVE)	1,548.00
P.O. NUMBER: 1234	24%	MATER	LIALS DISCOUNT	3,918.50
			SALES TAX	20.64
		DISC	DUNTED TOTAL	\$ 17,331.23
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		_COWS FOREMAN/	<u> </u>	
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Customer Acct #			1	Section	<del>                                     </del>	10	Formation	<u> </u>	leaville
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Well No.	Patterson CHK ##	<u> </u>		TWP	ļ	26N	TVD Perfe	119	8-1204
Mailing Address	1			RANGE	<u> </u>	16E	MD Perts	<u> L.</u>	
City and State	<u> </u>		J				_	· · · · · · · · · · · · · · · ·	
Zip Code			]	On Location			1		
Dispetch Location	BARTLESVILLE		1	Departed			1		
	I PANIDLY THAN		3	C.7	1		,		
WELL DATA						TRUCK#	DRIVER	TRUCK#	DRIVER
TREATMENT TYPE:	17	WEATMENT THROUGH CASH	42	PLUG DEPTH (FT)	·	155	Frank B		
TVD OF PERFE		MED DE PERFE		PACKER DEFTH (FT)		9071-1323	ROLD .		
CA100 BZE (OC)	CAMBO WINDOT	THE TO TOP PERFET)	ID (INCHES)	DESPL CORF (MINLPT)	ADMINIS DIRECTO	313-735	David C	1	T
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•	•	•	0	6,0000	0.0		Francisco M		<del></del>
OVER FLUIDI	0		OBPLACEMEN	TO TOP PERF (BOLIN		412-F123		<del>                                     </del>	
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		CHEMICALS				etti-Tiita	Dames &	<del></del>	
PERF DATA TOTAL HOLES SHOT		CHEMICALS	OD4			5 <del>0-</del> 723	Darry F	<del>                                     </del>	<del></del>
	···	KOL BURTINUT				<del></del>		<del></del>	ļ
HOLD TO DIG				19		· · · · · · · · · · · · · · · · · · ·		ļ	<b></b>
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SPT	ļ	ACID PROBIT		1		<u> </u>	<del>                                     </del>	<b></b>	<b></b>
	<u> </u>	MON CONTR		1		L		1	
		OTHER							
EFFECTIVE HOLES		CLAY STAY (CE	289(CS-712)	1					
FET ANALYSIS (Optio	onal)								
FLUID WEIGHT		MAX RATE:		MAX PRESSURE		650P		FRAC GRAD	l
HYDROSTATIC HEIGHT	3408	RATE 1		PRESSURE 1	l	5 MEN 639		FLUID EFF (%)	l
FLUID #G	1.01	RATE 2		PRESSURE 2		10 MIN EIP		CALC PERM	
HYDROSTATIC PRESS	1477.80	RATE 1		PRESSURE 1		15 MIN 62P			
PRESSURE DATA	-		r		·		<u> </u>	٠	<u> </u>
								·	1
	I BATTLAL BOOKSON OF	BOT AKOYMAN	PRPENIEF	P. C.	4 1004	40.0004	45 1404		
MAX PRESSURE	INITIAL PRESSURE		PRESSURE	B.#	\$ 103H	10 MIN	15 MH	30 MW	<del></del> -
	INITIAL PRESSURE	BREAKDOWN 281		586	\$ MESM4	10 MIN 481	13 MH2 468	<del></del>	
SUMMARY		žas	ă .	5386		481		<u> </u>	
SUMMARY TOTAL FLUID PLAIPED		281 MAX T	REATING PRESSURE	586 813 PSI		481	460	<del></del>	
SUMMARY	307 BBLS 1248 B LBS 26 BBL/MBN	281 MAX TI MEN TI	ă .	536 813 PSI 707 PSI		481	460	<u> </u>	
SUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE MEN RATE	307 DOLS 1249 5 LES 20 DOL/MIN 25 DOL/MIN	281 MAX TI MEN TI	ë Reating pressure Reating pressure Reating pressure	536 813 PGI 707 PGI 530		481	460	<u> </u>	
SUMMARY TOTAL FLUID PLAMPED PROPPART PLAMPED MAX RATE	307 DOLS 1249 5 LES 20 DOL/MIN 25 DOL/MIN	MAX TI MAX TI MAY TI AVE TI	B REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUIO WEIGHT	596 813 PEI 707 PEI 630		481	460	<u> </u>	
SUMBLARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE MEN RATE AVERAGE RATE	307 DOLS 1249 5 LES 20 DOL/MEN 28 DOL/MEN	ZZIII MAX TI MEN TI AVE TI	REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUID WEIGHT TOROSTATIC HEIGHT	586 813 PSI 707 PSI 530 830		481	460	<u> </u>	
SUMMARY TOTAL FLUID PLAMPED PROPPART PLAMPED MAX RATE MIN RATE AVERAGE RATE	307 DOLS 1249 5 LES 20 DOL/MEN 28 DOL/MEN	ZZIII MAX TI MEN TI AVE TI	REATING PRESSURE REATING PRESSURE REATING PRESSURE PLUIO WEIGHT FOROSTATIC MEIGHT YDROSTATIC PRESS	586 813 PSI 707 PSI 830 830 834 340 3477 89		481	460	<u> </u>	
SUMMARY TOTAL FLUID PLIMPED PROPPART PLIMPED MAX.RATE MIN RATE AVERAGE RATE FOAM QUALITY JINT OF FOAM PLIMPED	307 DOLS 1249 5 LES 20 DOL/MEN 28 DOL/MEN	231 MAX TI MINI TI AME TI HI HI	REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUID WEIGHT TOROSTATIC HEIGHT	586 813 PSI 707 PSI 530 830 834 1409 1,477 83		481	460	TOTAL PUMPED	
EURIMARY  TOTAL FLUID PLIMPED  PROPPANT PLIMPED  MAX RATE  AVERAGE RATE  FOAM QUALITY  INT OF FOAM PLIMPED  TYPE OF POAM	307 DOLS 1249 5 LES 20 DOL/MEN 28 DOL/MEN	231 MAX TI AMPI TI AVE TI HI	REATING PRESSURE REATING PRESSURE REATING PRESSURE PLUIO WEIGHT FOROSTATIC MEIGHT YDROSTATIC PRESS	586 813 PSI 707 PSI 530 830 830 834 949 1,477.99 9.81	600	481	400	<u> </u>	TYPE
EURIMARY  TOTAL FLUID PLIMPED  PROPPANT PLIMPED  MAX RATE  AVERAGE RATE  FOAM QUALITY  INT OF FOAM PLIMPED  TYPE OF POAM	307 BOULS 1346 SURS 30 BOUARN 25 BOUARN 13	231 MAX TI MINI TI AME TI HI HI	REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUID WEIGHT TOROSTATIC PRESS FRAC GRADIENT	586 813 PSI 707 PSI 530 830 830 834 949 1,477.99 9.81	600	481 PROF	400	TOTAL PUMPED	TYPE
EURIMARY TOTAL FLUID PLAMPED PROPPART PLAMPED MAX RATE MR RATE AVERAGE RATE FOAM QUALITY LINT OF FOAM PLAMPED TYPE OF POAM STAGE	397 BBLS 1249 S LES 35 BBLMEN 28 BBLMEN 13	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUO WEIGHT OROSTATIC MEIGHT YDROSTATIC PRESS FRAC GRADENT FLUID TYPE	586 813 PSI 707 PSI 530 830 1 34 1409 1,477 89 9,61	800 RATE	PROP AMOUNT	400	TOTAL PUMPED	
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MIN RATE AVERAGE RATE FOAM OUALITY INT OF FOAM ETAGE  2	397 BOLS 1249 5 LB3 30 BOLMEN 28 DOLMEN 13 CLIGAN BELS 119 47	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE ORGANIZATION ORGANIZATION ORGANIZATION FUND TYPE Get Water Get Water	535 613 PSI 707 PSI 530 834 9409 1,477 PSI 6.61 PRESSURE 0-785	RATE 0-28 0-28	481 PROF PROP AMOUNT 1249 50 0.00	TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	TOTAL PUMPED	14/30 BROWN
EURIMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE MEN RATE AMERICE RATE FOAM QUALITY TOTAL FOAM PLAMPED TYPE OF POAM STAGE  2. 3.	397 BOLS 1246 S.LES 35 BOLAMN 25 BOLAMN 13 13 CLEAN BELS 119 47	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE TOPICOSTATIC MEDINT TOPICOSTATIC PRESS FRAC GRADENT FELED TYPE Gel Water Gel Water Gel Water	588 813 PGI 707 PGI 530 330 341 3409 1,477 PI 9.91 PRESSURE 0-785 765-765	RATE 0-25 0-26 0-28	PROP AMOUNT 1249.50 0.00 0.00	TYPE  TYPE  DESIGN  0.5 LBS  1 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN
EUMMARY TOTAL FLUID PLIMPED PROPPART PLIMPED MAX RATE MEN RATE AVERAGE RATE POAM QUALITY UNT OF FOAM PLIMPED TYPE OF POAM STAGE  1 2 3 4	367 BOLS 1246 5 LBS 20 BOLMEN 28 BOLMEN 13 13 CLEAN BBLS 119 47 47	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FRAC GRADIENT FRUID TYPE Gel Water Gel Water Gel Water Gel Water	588 813 PGI 707 PGI 830 830 8479 9479 9.61 PRESSURE 6-785 785-765 785-745	RATE 0-28 0-28 0-28 0-28	PROP AMOUNT 1249 50 0.00 0.00	10ESIGN 0.5 LBS 1.1.BS 2.1.BS	TOTAL PUMPED	14/30 BROWN 14/30 BROWN 14/30 BROWN
EURIMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE MEN RATE AMERICE RATE FOAM QUALITY TOTAL FOAM PLAMPED TYPE OF POAM STAGE  2. 3.	397 BOLS 1349 SLES 33 BOLMEN 28 BOLMEN 13 13 CLEAN BBLS 119 47 47 47	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUXO WEIGHT OROSTATIC MEGINT VOROSTATIC PRESS FRAC GRADIENT FLUXO TYPE Gel Water Gel Water Gel Water Gel Water Gel Water	588 611 PGI 707 PGI 509 8134 9209 1,477 93 9,61 PRESSURE 6-785 765-765 765-745 745-749	RAYE 0-25 0-26 0-26 0-26 0-26	#ROP AMOUNT 1249 50 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE ANN RATE ANYERAGE RATE POAM QUALITY INT OF POAM PLAMPED TYPE OF POAM STAGE  1 2 3 4	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT PROP AMOUNT 0.00 0.00 0.00 0.00	10ESIGN 0.5 LBS 1.1.BS 2.1.BS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPAST PLAMPED MAY RATE AMY RATE AVERAGE RATE FOAM OUALITY INT OF FOAM PLAMPED STAGE  2 3 4 6	397 BOLS 1349 SLES 33 BOLMEN 28 BOLMEN 13 13 CLEAN BBLS 119 47 47 47	293 MAX TI AME TI AVE TI H DEEKKIN	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUXO WEIGHT OROSTATIC MEGINT VOROSTATIC PRESS FRAC GRADIENT FLUXO TYPE Gel Water Gel Water Gel Water Gel Water Gel Water	588 611 PGI 707 PGI 509 8134 9209 1,477 93 9,61 PRESSURE 6-785 765-765 765-745 745-749	RAYE 0-25 0-26 0-26 0-26 0-26	#ROP AMOUNT 1249 50 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE ANERAGE RATE FOAM OUALITY INT OF FOAM STAGE	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT PROP AMOUNT 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAY RATE AVERAGE RATE POAM GUALTY INT OF POAM PLAMPED STAGE  2 2 3 4 5 6 7 6	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MR RATE AVERAGE RATE POAM OUALITY INT OF POAM PLAMPED STAGE  1 2 3 4 5 6 7 8 9	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MIN RATE AVERACE RATE POAM GUALITY INT OF FOAM PLAMPED STAGE  1 2 3 4 5 6 7 6 9 10	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT PROP AMOUNT PROP AMOUNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE ANERAGE RATE COAN CHAIT! INT OF FOAM PLAMPED TYPE OF FOAM STAGE  1 2 3 4 5 6 7 6 9 10	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1 249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAN RATE MIN RATE AVERAGE RATE POAM GUALTY INT OF POAM STAGE  1 2 3 4 5 6 7 6 9 10 11 11	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAX RATE ANERAGE RATE COAN CHAIT! INT OF FOAM PLAMPED TYPE OF FOAM STAGE  1 2 3 4 5 6 7 6 9 10	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAN RATE MIN RATE AVERAGE RATE POAM GUALTY INT OF POAM STAGE  1 2 3 4 5 6 7 6 9 10 11 11	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MR RATE AVERAGE RATE POAM OUALITY INT OF POAM PLAMPED STAGE  1 2 3 4 5 6 7 8 9 10 11 12 13	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MIN RATE AVERACE RATE POAM GUALITY INT OF FOAM PLAMPED STAGE  1 2 3 4 5 6 7 6 9 10 11 12 13 14	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 14/30 BROWN 14/30 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED MAN RATE AWRAGE RATE POAM OUALITY INT OF POAM STAGE  1 2 3 4 5 6 7 9 10 11 12 13 14 15 15	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED AN RATE AVERAGE RATE POAM OUALITY INT OF POAM PLAMPED STAGE  1 2 3 4 6 6 7 7 8 9 10 11 12 13 14 15 15 18	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	481 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED MIN RATE AVERACE RATE POAM GUALTY INT OF FOAM PLAMPED STAGE  1 2 3 4 5 6 7 6 9 10 11 12 13 14 15 15 16 17	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED AN RATE AVERAGE RATE POAM OUALITY INT OF POAM PLAMPED STAGE  1 2 3 4 6 6 7 7 8 9 10 11 12 13 14 15 15 18	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPART PLAMPED PROPPART PLAMPED MEN RATE AVERACE RATE COAN CULUITY INT OF FOAM PLAMPED STAGE 1 2 3 4 5 6 7 6 9 10 11 12 13 14 15 15 16 17	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLIND PLAMPED PROPPANT PLAMPED MAN RATE ANARAGE RATE OAM QUALITY INT OF POAM STAGE  1 2 3 4 5 0 7 0 10 11 12 13 14 15 16 17 18	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLIND PLAMPED PROPPANT PLAMPED PROPPANT PLAMPED AN RATE AVERAGE RATE OAM OUALITY INT OF POAM STAGE   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 19 20 21	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEEKSN Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPART PLAMPED PROPPART PLAMPED MEN RATE AVERACE RATE COAN CULUITY INT OF FOAM PLAMPED STAGE 1 2 3 4 5 6 7 6 9 10 11 12 13 14 15 15 16 17 18 19 20 21	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	481 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLUID PLAMPED PROPPART PLAMPED MAX RATE AWERAGE RATE OAM QUALITY INT OF POAM STACK  1 2 3 4 5 6 7 7 6 9 10 11 12 13 14 15 15 18 19 20 21 22 22 23	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY  TOTAL FLUID PLAMPED  PROPPAST PLAMPED  MAR RATE AMERICE RATE  POAM OUALITY INT OF POAM PLAMPED  \$1 A 4 5 6 7 7 8 9 10 11 12 13 14 15 18 17 18 19 20 21 22 23 24	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY  TOTAL FLIND PLAMPED  PROPPANT PLAMPED  BAN RATE  AVERACE RATE  COAN CHART  TO F POAM  STAGE	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	481 PROP AMOUNT 1249 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN
EUMMARY TOTAL FLIND PLAMPED PROPPANT PLAMPED MAR RATE AN RATE	397 BOLS 1249 5 LB3 30 BOLMEN 28 BOLMEN 13 CLIGAN BELS 119 47 47 47 47 47	281 MAX TI MOS TI AVE TI AVE TI H H OEERISM Pad	REATING PRESSURE REATING PRESSURE REATING PRESSURE REATING PRESSURE FLUD WEIGHT ORIGITATIC PRESS FRAC GRADIENT FFUND TYPE Gel Water	588 613 PGI 707 PGI 500 8 3409 1,477 89 4,910 PRESSURE 0-785 765-765 765-745 745-740 747-708	RATE 0-28 0-28 0-28 0-28 0-28 0-28	491 PROP AMOUNT 1249-50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	460 TYPE 0055GN 0.5 LBS 1 LBS 2 LBS 2 LBS	TOTAL PUMPED	14/30 BROWN 16/30 BROWN 16/30 BROWN 12/20 BROWN

CHAIG AND CONDITIONS ARE PRINTED ON REVERSE 3004

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FedelityPattersonCHK#4.dat Patterson CHK#4.



### CurrentJobRpt.RPT

STAGE	CARR	IER .	. FLA	_	. SOL	CDS		SL	URRY .		JOB AV	ERAGES	
•	PUMPED D		•	CONCENT		. WEI		PUMPED	DESIGNED	SLR-RATE	Z STP	BHP	SOLIDS
			PUMPED	PUMPED	DESIGNED	PUMPED	designed						
	BBLS	BBLS	gal	ppa	ppa	LBS	LBS	BBLS	BBLS	pbw	psi	psi	ppa
1	21.3	8.3	0.00	0.00	0.00	0.00	0.00	20.3	8.3	2.4	2599.51	3109.66	0.00
2	127.7	119.0	0.00	0.00	0.00	0.00	0.00	128.5	119.0	12.0	626.47	1115.97	0.05
3	40.8	47.6	0.00	0.47	0.50	810.06	1000.00	41.1	48.7	25.4	769.47	1239.85	0.48
4	45.5	47.6	0.00	0.98	1.00	1875.17	2000.00	45.5	49.8	25.5	755.17	1247.68	1.03
5	43.8	47.6	0.00	1.85	2.00	3401.05	4000.00	43.8	51.9	24.3	727.75	1253.96	2.02
6	54.6	47.6	0.00	1.84	2.00	4213.11	4000.00	54.6	51.9	24.1	708.97	1240.89	2.00
7	110.4	71.4	0.00	2.12	3.00	9827.79	9000.00	110.5	81.1	23.5	718.92	1267.60	2.46
В	25.7	19.3	0.00	0.00	0.00	0.00	0.00	25.5	19.3	8.3	1821.06	2315.64	0.00
racJob	448.6	400.2	0.00	1.07	1.19	20127.20	20000.00	449.5	421.8	17.3	1198.23	1699.91	1.22
TotlJob	469.9	408.6	0.00	1.02	1.17	20127.20	20000.00	469.8	430.1	13.6	1466.24	1969.54	1.02