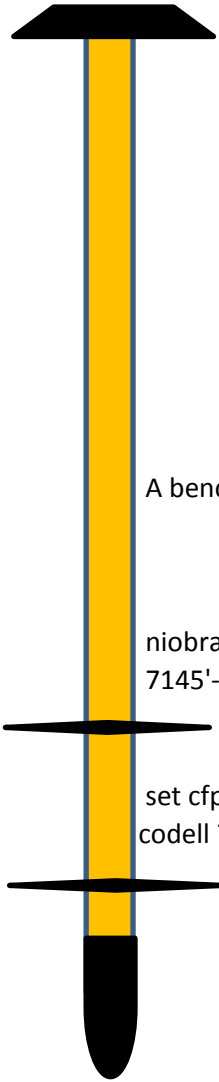


KPK  
 KP KAUFFMAN CO INC

SUPERVISOR PAUL ANDERSON.	API #:05-123-32763-00	
WELL. FRONT RANGE 11-17-10	SHL:1506'FSL&2006' FWL NE/SW	
FORMATION	BHL:2112' FSL&2201' FEL NE/SE	
Noibrara ,A-bench 7040'-7042' 4 jspf	SEC 17 TWP 4N RGE 66W.	
B-bench 7145'-7158' 4 jspf		ELEVATION
CODELL . 7354-7374 ' 4JSPF,90 DEG PHS,		K.B.4736'
19 GRAM CHG,40" EH.40.56" TTP.		D.F. NA.
		G.L. 4721'
	SC	687.95
	PRO CSG 4 1/2 11.6# 7496'	
		PBTD. 7479'



cement top 3050'

CODELL  
 CSG 4 1/2 11.6 #  
 TOP PERFS 7354'  
 CAPACITY 113 BBLS

CODELL FRAC 8/28/2011.  
 formation break 3155 psi isip 2700 1 min 2452 psi 5 min 2132 psi  
 pump active fluid pad 60 bbls.

A bench 7040'-42

niobrara. 7040-42' 7145'-58	6 pump phaser pad 595 bls 75000 # 20/40 3 ppg 37.2 bpm 4055 psi. pump phaser pad 333 bbls 3 ppg 42000 # 3 p ppg at 37.3 bpm @4175 psi. pump phaser pad 310 bbls 52000 # 20/40 4 ppg at 37.2 bpm @4158 psi. pump phaser pad 190 bbls 32000 # 20/40 4 ppg at38.2 bpm @4327 psi. 10 pump phaser pad 48 bbls SB EXCEL 20/40 4 ppg at 37.7 @4326 psi. FLUSH 1 BBL PUMP 24 BBLS 15 % HCL Acid flush 116 bbls kcl. 20 bpm 4315 psi. isip 3712 psi avg press 4151 psi max press 4784 psi 5min 3457 psi avg rate 36.8 bpm max rate 38.3 bpm 10 min 3377 psi
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set cfp 7320'  
 codell 7354'-7374'

RIG UP JW WIRELINE set a Halliburton  
 CFP 7320' & perf A bench 7040'-7042' 4 jspf  
 perf B bench 7143'-7158' 4 jspf 90 deg phase.

KPK

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SUPERVISOR PAUL ANDERSON.

API #:05-123-32763-00

WELL. FRONT RANGE 11-17-10

SHL:1506'FSL&2006' FWL NE/SW

FORMATION

BHL:2112' FSL&2201' FEL NE/SE

Noibrara /A-bench 7040'-7042' 4 jspf

SEC 17 TWP 4N RGE 66W.

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ELEVATION

CODELL . 7354-7374 ' 4JSPF,90 DEG PHS,

K.B.4736'

19 GRAM CHG,40" EH.40.56" TTP.

D.F. NA.

G.L. 4721'

SC 687.95

PRO CSG 4 1/2 11.6# 7496'

PBTD. 7479'

NIOBRARA FRAC 11-17=10 8/28/2011

formation break 4985 4.4 bpm isip 3398 psi 1 min 3318 psi 5 min 3228 psi.

170 psi leakoff begin active fluid pad 119 bbls @ 12 bpm

pump FR water pad 1429 bbls@50.7 bpm at 4861 psi.

pump phaser frac pad 143 bbls @ 50.5 5051 psi.

pump phaser frac 167 bbls +7000 #1 ppg 30/50 @50.5 bpm 4664 psi

pump phaser frac 786 bbls +66000 #2 ppg 30/50 @50.6 at 4656 psi.

pump phaser frac 524 bbls +66000 # 3 ppg 30/50 @ 50.3 bpm at 4557 psi.

pump phaser frac 310 bbls +39000 # 3 ppg 30/50@ 50.2 bpm at 4538 psi.

pump phaser frac 238 bbls +40,000 # 4 ppg 30/50 @ 50.3 bpm at 4481 psi.

pump phaser frac 143 bbls + 24000 # 4ppg 30/50 @ 50.0 bpm at 4458 psi.

pump phaser frac 48 bbls +8,000 # 4 ppg SB Excel 20/40 @ 50.6 bpm at 4398 psi.

FLUSH 119 bbls KCL.

ISIP 3609 PSI 5 min 3403 psi shut well in.

avg press 4659 psi max press 5090 psi

avg rate 50.5 bpm max rate 51.0

pumped 250.380 # 30/50 Ottawa 8,000 # SB Excel 20/40.

118.8 bbls Active Fluid Pad .

2452.1 bbls pHaser.

LOAD TO RECOVER 4111.4 BBLs