

KPK

KP KAUFFMAN CO INC.

SUPERVISOR, PAUL ANDERSON

WELL-FRONT RANGE 11-17-6

FORMATIONS

NIOBRARA 7130'4 JSPF 4 HOLES

7230 7245'

CODELL 7445-7460' 4 JSPF.90 DEG PHS.19 GRAM CHG.

API #05-123-32754-00

SHL:1515' FSL&1931' FWL NE/SW

BHL:2040'FNL&2105' FWL SE/NW.

SEC 17 TWP 4N RGE 66W.

ELEVATION

K.B. 4733'

D.F. 4732'

G.L. 4721

DEPTH DRILLED 7623'

DEPTH LOGGED 7561'

SC 747.22

PRO CSG 4 1/2 11.6 # 7602'

PBTD7585' TOC 2780'



8/27/11 NEW CODELL FRAC
call for 6000 psi max kickouts 5800 psi open well.
pump active pad 60 bbls formation break 4331 psi@ 5.0 bpm.
isip. 2783 psi 1min 2517 psi 5 min 2251 psi . 532 psi leakoff.
pump FR water pap 762 bbls. at 3676 psi @15.2 bpm.
pump 1 thru 4 ppg 235,945 # Preferred Rock 20/40.
8,000 # SB Excel 20/40 57.1 bbls Active fluid pad .
2187.5 bbls phaser 2068.1bbls SLF. avg press 4037 psi.
LOAD TO RECOVER 3166.9 BBLs. avg rate 41.5 bpm.

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8/28/2011		
FRONT RANGE 11-17-6		
NIOBRARA FRAC.		

formation break 4139 psi @4.6 1 n isip 3472 psi 1 min 3403 psi
 1 5 min 3238 psi pump 119 bbls active fluid pad @10.3 bpm at 3800 psi
 2 pump FR water pad 1429 bbls @ 50.6 bpm at 4515 psi.
 3 pump phaser pad 143 bbls @. 50.8 bpm 4502 psi.
 4 pump phaser pad 167 bbls 7000# 1ppg 30/50 @ 50.8 bpm at 44732 | 73 PSI
 5 pump phaser pad 786 bbls 66000 # 2 ppg 30/50 50.5 bpm at 4586 psi.
 6 pump phaser pad 5224 bbls 66000# 3 ppg 30.50 @50.5 bpm at 4555 psi.
 7 pump phaser pad 310 bbls 39000# 3ppg 30/50@50.3 bpm at 4462 psi.
 8 pump phaser pad 238 bbls 40,000 # 4 ppgg 30/50 @50.6 bpm. At 4461 psi
 9 pump phaser pad 143 bbls 24000 # 4 ppg 30/50 @ 50.5 bpm at 4369 psi.
 10 pump phaser pad 48 bbls 8000 # SB Excel 20/40 @
 11 flush 119 bbls @50.8 bpm at 4455 psi isip 3617 psi 5min 3419 psi
 avg press 4511 psi rate 50.5 bpm
 max press 5325 psi rate 51.4 bpm
 ACIVE FLUID PAD 117.7 BBLS
 PHASER 2408.9 BBLS
 SLF 2242.0 BBLS
LOAD TO RECOVER 4105.4 BBLS

7602'