

Helmerich & Payne

32-27-33 W

COPY

Growth "A" #1
Growth "A" #1 4,670' FEL 3,225' FSL Section 22 T29S R33W
Lemon North Field
Haskell County, Kansas

DST Summary

API # 15-081-20911

DST #1 Kansas City "A" 4,598'-4,635'

IH	= 2,214 psig	Recovery:
30" IFP	= 296 - 225 psig	1,491' gassy oil
60" ISIP	= 1,252 psig	200' sl. oil and gas cut muddy water
60" FFP	= 627 - 403 psig	Sampler 2650 cc gas 500 cc oil
120" FSIP	= 1,243 psig	
FH	= 2,142 psig	BHT = 126 degrees F

Gas Rates

Initial Flow

Strong blow off bottom of bucket
in 3 minutes. Gas to surface 2
minutes into initial shut-in.

Final Flow

10 minutes = 14.3 MCFPD
20 minutes = 11.0 MCFPD
30 minutes = 4.76 MCFPD
40 minutes = 4.12 MCFPD
50 minutes = 6.93 MCFPD
60 minutes = 6.93 MCFPD

DST #2 Kansas City "B" 4,651'-4,684'

IH	= 2,205 psig	Recovery:
30" IFP	= 161 - 121 psig	400' oil and gas cut mud
60" ISIP	= 1,171 psig	
60" FFP	= 156 - 142 psig	Sampler 2650 cc gas 500 cc oil
120" FSIP	= 1,162 psig	
FH	= 2,097 psig	BHT = 127 degrees F

Gas Rates

Initial Flow

15 minutes = 116 MCFPD

Final Flow

10 minutes = 153 MCFPD
20 minutes = 166 MCFPD
30 minutes = 153 MCFPD
40 minutes = 153 MCFPD
50 minutes = 147 MCFPD
60 minutes = 147 MCFPD

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DST #3 Marmaton "C" 4,795'-4,812'

IH = 2,332 psig
15" IFP = 322 - 134 psig
60" ISIP = 1,236 psig
60" FFP = 240 - 103 psig
120" FSIP = 1,179 psig
FH = 2,147 psig

Recovery:
140' clean gassy oil
45' oil and gas cut mud
Sampler 1000 cc oil

BHT = 129 degrees F

Gas Rates

Initial Flow
13 minutes = 231 MCFPD

Final Flow
10 minutes = 285 MCFPD
20 minutes = 253 MCFPD
30 minutes = 222 MCFPD
40 minutes = 189 MCFPD
50 minutes = 177 MCFPD
60 minutes = 166 MCFPD

DST #4 Morrow Sand 5,226'-5,400'

IH = 2,677 psig
30" IFP = 179 - 211 psig
60" ISIP = 1,525 psig
60" FFP = 296 - 455 psig
120" FSIP = 1,535 psig
FH = 2,550 psig

Recovery:
345' slightly watery mud

BHT = 131 degrees F

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LITTLE ROCK, ARKANSAS