

DRILL STEM DATA

DST NO. 1:(4140' – 4162'), Lansing "A"

Type: Conventional Bottom Hole, Times: 30-30-30-60

Blows: IF - Slow build to 9 ½". FF – 7 ½" at end of period. SI's – no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1859
IF	21 - 124
ISI	1160
FF	129 - 176
FSI	1174
FH	1858

BHT 123 deg. F.

RECOVERY: Total fluid 250', 155' WCM(29%W), 235' SMCM(89% water), tool sample – 1% oil, 34% water. Rw 0.19 Ohms @ 71 deg. F., 50K ppm Cl.

DST NO. 2:(4167' – 4194'), Lansing "B"

Type: Conventional Bottom Hole, Times: 30-30-30-60

Blows: IF – Steady to 5 ½" at end. FF – To 4 ½". SI's – no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1884
IF	8 - 74
ISI	1154
FF	77 - 122
FSI	1169
FH	1883

BHT 120 deg. F.

RECOVERY: Total fluid 255', 80' WCM(46%W), 175' MCM(76% water), tool sample – trace of oil in the tool sample, 34% water. Rw 0.18 Ohms @ 78 deg. F. 52K ppm Cl.

DST NO. 3:(4276' – 4325'), Muncie Creek, Lansing "H"

Type: Conventional Bottom Hole, Times: 30-30-30-60

Blows: IF - Slow build to 4". FF – 4" at end of period. SI's – no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1958
IF	17 - 68
ISI	1225
FF	72 - 116
FSI	1234
FH	1956

BHT 125 deg. F.

RECOVERY: Total fluid 240', 5' mud, 115' wcm(46% water), 60' mcw(68% water), 60' smcw(92% water), Tool sample spotty oil, 58% water. Rw 0.16 Ohms @ 72 deg. F., 71K ppm Cl.

DST NO. 4:(4318' – 4348'), Lansing "H & I"

Type: Conventional Bottom Hole, Times: 30-30-30-60

Blows: IF & FF: Weak surface blow.

<u>PERIOD</u>	<u>PSI</u>
IH	1996
IF	16 - 18

ISI 23
FF 19 - 21
FSI 27
FH 1995

BHT 112 deg. F.

RECOVERY: Total fluid 20' of mud.

DST NO. 5:(4358' – 4402'), Lansing "I"

Type: Conventional Bottom Hole, Times: 30-30-30-60

Blows: IF & FF: Weak surface blow.

<u>PERIOD</u>	<u>PSI</u>
IH	1997
IF	15 - 21
ISI	440
FF	26 - 34
FSI	438
FH	1995

BHT 117 deg. F.

RECOVERY: Total fluid 60' of mud, Tool sample, spotty oil and odor, 100% mud.

DST NO. 1:(4140' – 4162'), Lansing "A", **DST NO. 2:**(4167' – 4194'), Lansing "B", **DST NO. 3:**(4276' – 4325'), Muncie Creek, Lansing "H", **DST NO. 4:**(4318' – 4348'), Lansing "H & I", **DST NO. 5:**(4358' – 4402'), Lansing "I"