

EXHIBIT No. 5
BOTTOMHOLE PRESSURES

A. Mesaverde:

Perf @ 5856'-5886'

Mid Point = 5871'

BHP measured at 5850' = 973 psi

(See Exhibit No. 5A)

B. Gallup/Dakota:

Perf @ 7878'-8120'

Mid Point = 7999'

BHP measured at 5650' = 1004 psi

(See Exhibit No. 5B)

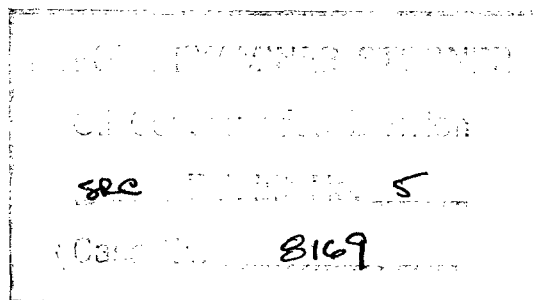
Calculated BHP at midpoint

(7999'-5650') .035 psi/ft. + 1004 psi = 1086 psi

C. Comparison

MV 973 = 90%

DK 1086



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SUBSURFACE PRESSURE SURVEY

COMPANY SOUTHLAND ROYALTY CO. LEASE JOHNSON WELL NO. #1
FIELD _____ COUNTY RIO ARRIBA STATE NEW MEXICO
FORMATION MESA VERDE TEST DATE 01-22-84
ELEVATION _____ FEET CASING _____ PSIG
SUBSEA DATUM _____ FEET TUBING PRESSURE _____ PSIG
TOTAL DEPTH _____ FEET OIL LEVEL _____ FEET
PERFORATIONS _____ FEET WATER LEVEL _____ FEET
TUBING SIZE _____ TO _____ FEET TEMPERATURE _____ F AT _____ FEET
CASING SIZE _____ TO _____ FEET ATMOSPHERIC TEMPERATURE _____ F
PACKER _____ FEET AMERADA ELEMENT NUMBER _____
BOTTOM HOLE CHOKE _____ FEET ELEMENT RANGE _____
MAXIMUM SAFE TEST DEPTH _____ FEET OPERATOR _____ UNIT NO. _____

WELL STATUS

<u>DEPTH</u> FEET	<u>PRESSURE</u> PSIG	<u>GRADIENT</u> PSI/FT.
0'	820	
2000'	873	0.030
4000'	926	0.030
5450'	963	0.030
5650'	968	0.030
5850'	973	0.030

EXHIBIT NO. 5A
Mesaverde
B.H.P.

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SUBSURFACE PRESSURE SURVEY

COMPANY SOUTHLAND ROYALTY CO. LEASE JOHNSON WELL NO. #1

FIELD _____ COUNTY RIO ARriba STATE NEW MEXICO

FORMATION DAKOTA AND GALLUP TEST DATE 01-22-84

ELEVATION	FEET	CASING	PSIG
SUBSEA DATUM	FEET	TUBING PRESSURE	PSIG
TOTAL DEPTH	FEET	OIL LEVEL	FEET
PERFORATIONS	FEET	WATER LEVEL	FEET
TUBING SIZE	TO	TEMPERATURE	F AT
CASING SIZE	TO	ATMOSPHERIC TEMPERATURE	F
PACKER	FEET	AMERADA ELEMENT NUMBER	
BOTTOM HOLE CHOKE	FEET	ELEMENT RANGE	
MAXIMUM SAFE TEST DEPTH	FEET	OPERATOR	UNIT NO.

WELL STATUS

<u>DEPTH</u> FEET	<u>PRESSURE</u> PSIG	<u>GRADIENT</u> PSI/FT.
0'	834	
2000'	894	0.030
4000'	954	0.030
5250'	991	0.030
5450'	997	0.030
5650'	1004	0.035

EXHIBIT No. 5B
Gallup/Dakota
B.H.P.