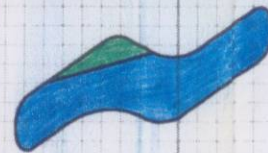


PRESSURE (PSIG)



WARD HYDRODYNAMICS LTD.

HYDRODYNAMIC EVALUATION OF THE
DEVONIAN TO CAMBRIAN FORMATIONS
FT. GOOD HOPE AREA, N.W.T.
125°00' - 132°00' W 64°30' - 67°30' N

PRESSURE VERSUS ELEVATION GRAPH

GRANT S. WARD

20-JULY-1995

LEGEND

⊕ D-72-6630-12845(1)C,RNNG
WELL ID-LAT/LONG/EST/QUALITY CODE/FMN

100 FEET 1 METER
100 FEET 1 METER
100 FEET 1 METER
100 FEET 1 METER

ALL DST'S HAVING A RELIABLE EXTRAPOLATION WERE PLOTTED WITH A CIRCLE AT THE STATIC RESERVOIR PRESSURE AND RECORDING GAUGE ELEVATION. THE WELLS WERE POSTED WITH WELL ID, LAT/LONG, DST #, TEST QUALITY CODE 'A-D' AND FORMATION ABBREVIATION.

RECOVERIES WERE COLOURED USING A QUADRANT SYSTEM TO REPRESENT GAS, OIL, WATER AND MUD. RECOVERY VOLUMES INCREASE CLOCKWISE WITHIN EACH QUADRANT FROM TOP TO BOTTOM FOR GAS AND FROM 1 FOOT TO 100 FEET FOR EACH LIQUID QUADRANT. GAS AND OIL CUTS WERE SHOWN WITH SMALL RED AND GREEN LABELES.

CALCULATED FLUID GRADIENTS WERE APPLIED IN A BEST FIT MANNER, TAKING INTO ACCOUNT RESERVOIR PHASE, DATA ACCURACY AND EFFECTS DUE TO FLOW.

QUALITY CODE SYSTEM

A HIGH QUALITY, IN & FB PRESSURES COMPARE AND STABILIZED
B GOOD QUALITY, IN & FB PRESSURES COMPARE AND NEARLY STABILIZED
C USABLE, SOME MECHANICAL DIFFICULTIES, EXTRAPOLATION REQUIRED
D QUESTIONABLE - LARGE EXTRAPOLATION - REQUIRED - POSSIBLE MECHANICAL DIFFICULTIES, DRAWDOWN OR SUPERCHARGE

FLUID GRADIENTS

GAS 0.90 - 0.93 PSIG/FT
OIL 0.57 - 0.70 PSIG/FT (60-34 API)
WATER 0.55 - 0.67 PSIG/FT (500-5000 mg/L TDS)

TESTS NOT PLOTTED
#60 K-3-6550-12645(1)C 4330'
#61 L-5-6550-12650(1)C 7110'
#70 A-3-6550-12650(1)C 4820'
#72 L-5-6550-12650(1)C 4820'

POTENTIAL HUME RIVER KCRP OIL COLUMN
O/W SPECULATED AT -610', HEIGHT OF OIL COLUMN UNCERTAIN

POTENTIAL JUDITH ISLAND KCRP OIL COLUMN (0-17)
O/W UNCERTAIN, HEIGHT OF OIL COLUMN UNCERTAIN

MOUNT CLARK WATER COLUMN
NORMAN WELLS KCRP VIRGIN OIL COLUMN
O/W TILTED TO SW FROM -1772' TO -1870' (ESSO CANADA)
OIP 108,000,000 m³, CUM PROD 21,200,000 m³ (ESSO CANADA)

POTENTIAL A-47 OIL COLUMN BRCK
O/W -1430' TO -1450' (POSSIBLE GAS COLUMN ABOVE -1400')

DEVONIAN KEESCARP/BEARROCK AVERAGE WATER COLUMN

POTENTIAL TWEED LAKE ODFD GAS COLUMN
G/W -2970', GWG 11-15%, NITROGEN 15-23%, METHANE 75%

ODFD WATER COLUMN

POTENTIAL NOGHA ODFD GAS COLUMN
G/W -3580', GWG 7-13%, NITROGEN 15-20%, METHANE 75%

POTENTIAL J-27 CARCAJOU
BRCK OIL COLUMN
O/W UNCERTAIN

POTENTIAL A-37 SLATER RIVER
BRCK OIL COLUMN
O/W UNCERTAIN

PRESSURE (PSIG)

ELEVATION (FEET)