SIMON PETROLEUM TECHNOLOGY
WELL: 2/5-4
Print: 1956G Units: M (F) Top 1900 Bottom 11450 Scale 1:500 TD 11450
Length: 25 FT Initials: TS

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

COMPLETION – Ø G

AMOCO NORWAY OIL CO.

FINAL WELL LOG

2/5-4

VERTICAL SCALE: 1:500

LOCATION: 56° 33' 54,4" N
03° 36' 56,4" E

AREA: OFFSHORE NORWEGIAN NORTH SEA

K.B.E.: 116'

WATER DEPTH: 222'

DATE SPUDDED: 3.9.72

DATE COMPLETED: 31.10.72

TOTAL DEPTH: 11.450'

PLUG BACK TOTAL DEPTH: 11.390'

CASING: 36" at 496', 20" at 1,248', 13 3/8 at 6,013', 9 5/8 at 11,411'

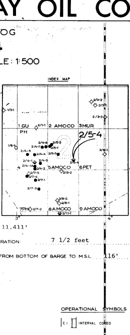
RIG TYPE: JACK UP — LEG PENETRATION: 7 1/2 feet

CLASSIFICATION WHEN STARTED: WILDCAT — DISTANCE FROM BOTTOM OF BARGE TO M.S.L.: 116'

CLASSIFICATION AFTER COMPLETION: P & A

METHOD OF COMPLETION:

INDEX MAP



LITHOLOGIC SYMBOLS: BRECCIA, CONGLOMERATE, SANDSTONE, SILTSTONE, CALCAREOUS SILTSTONE, CLAY, SHALE, CALCAREOUS SHALE, MARL, CHALK, ARGILLACEOUS LIMESTONE, LIMESTONE, DOLOMITIC LIMESTONE, DOLOMITE, GYPSUM, ANHYDRITE, SALT, POTASSIUM SALT, CHERT, COAL

OPERATIONAL SYMBOLS: INTERVAL CORED, CASING SEAT, INTERVAL PERFORATED, SIDE WALL CORE, PLUG BACK T.D., DRILL STEM TEST

ACCESSORY MINERALS & MATERIALS: PYRITE, LIMONITE HEMATITE, SIDERITE, GLAUCONITE, OOLITES & PISOLITES, CONCRETIONS, PEBBLES

FOSSILS: SHELL DEBRIS, FORAMINIFERA, BRYOZOA, SPICULES

CORE DESCRIPTIONS (SCHLUMBERGER CORE SLICER SAMPLES)

Core 1: 11,294-11,291FT, REC 1FT 3 INCH
Limestone, whitish grey with light brown mud stain, mottled appearance, micritic, hard, dense, abundant dark grey shale partings, numerous hairline fractures, major fractures along thin shale partings, fractures are well healed with crystalline calcite, clay, and carbonaceous material, occasional inclusions of finely crystalline calcite, pyritic, pale yellow fluorescence on and around major fractures no fluorescence in matrix, no visible porosity.

Core 2: 10,309-10,306FT, REC 2FT 1 1/2 INCH
Limestone, white-light tan with medium brown mud stain, micritic, hard, abundant horizontal fractures, major fractures exhibit dark grey argillaceous-carbonaceous fillings, most fractures filled with finely crystalline calcite, numerous stylolites, no fluorescence or oil stain, no visible porosity, thick mud cake development.

Core 3A: 10,015-10,012FT, REC 2FT 1 INCH
Limestone, white - cream with medium-dark brown mud stain, slightly mottled appearance, micritic, hard, chalky, argillaceous, lower 12 1/2" highly fractured with narrow healed horizontal fractures and unfilled large vertical fractures, numerous thin, flat stylolites, no fluorescence or stain; middle 7 1/2" contains no fractures or stylolites, displays abundant patches of oil stain with good dull yellow fluorescence and fair cut, oil staining creates a mottled appearance, no visible porosity; upper 11" with abundant healed hairline fractures, no fluorescence or stain. Thick mud cake on core.

Core 3B: 10,015-10,012FT, REC 2FT
Limestone, cream - light tan with brown mud stain and tan oil stain in part, micritic, chalky, hard, dense, blebs and streaks of finely crystalline calcite, abundant hairline fractures with crystalline calcite and argilaceous fillings, pyritic, no fluorescence or stain over most of the core, oil stain limited to non-fractured interval with good dull yellow fluorescence and white cut, no visible porosity. This core was mixed with cores 1, 2 and 3A when core collecting barrel failed to function properly. It is not considered to be a representative sample.

Core 4: 10,366-10,363FT, REC 2FT 11 INCH
Limestone, white with light to medium brown mud stain, micritic, hard, dense, highly fractured, two black "shale" partings at base, abundant stylolites, fractures and stylolites horizontal and at steep angles, fractures + stylolites filled with finely crystalline calcite and dark grey to black argillaceous material. Thick mud cake on core. Pale yellow fluorescence along and adjacent to fractures, pale yellow fluorescence along some stylolites, no stain, no visible porosity.

Core 5: 10,298-10,295FT, REC 0FT 11 INCH
Limestone, cream-tan, with light to medium brown mud stain, micritic, hard, dense, argillaceous, some very fine quartz?, very pitted surface indicating some porosity, numerous healed hairline fractures in bottom 4 1/2", numerous stylolites in upper 6 1/2", especially in top 1 1/2", good pale yellow fluorescence along and adjacent to stylolites at the top, scattered spots of faint fluorescence in matrix, no stain. Thick mud cake on core.

DST DATA

Test No. 1 (Clock No. 1 at 10375')

INTERVAL: 10292' - 10400

Water cushion: 3000 feet fresh water with J4.

IHP: 9926
FHP: 9840

	Periods	Pressures
Initial flow pressure	0	1648
1st flow final	135 mins	3961
1st shut in		not taken
2nd flow initial	15 mins	5949
Flow initial	1281 mins	5172
2nd SI.	1420 mins	6487

DST No. 1 FARO 3496 BOPD + 3043 BWPD DECLINING TO 2486 BOPD + 2282 BWPD OVER A 20 HOUR PERIOD ON 1/2" CHOKE. CRUDE GRAVITY: 39°

Test No. 2 b. packer 9950. (Clock at 10058')

INTERVAL: 9978' - 9998, 10010-10056, 10072-10107

IHP: 7370
FHP: 7343

Water cushion: Full string diesel

	Periods	Pressures
1st flow initial	0	4016
flow final	65	4714
flow shut in		not recorded
2nd flow initial	0	4584
final	540	4505
shut in	330	7252
3rd flow initial	15	4414
final	120	4371
Shut in		not recorded

NO FLOW BEFORE OR AFTER STIMULATION.

DST No. 1
Acidized bbls acid displaced with 347.5 — bbls 494.6

DST NO. 2
Acidized bbls acid displaced with 714 — bbls 236