

BEARCAT EXPLORATIONS (U.K.) LIMITED

GEOLOGICAL AND ENGINEERING REPORT  
BEARCAT ET AL GUITING POWER #1  
GLOUCESTERSHIRE COUNTY, ENGLAND

WELLSITE SUPERVISION  
JERRY V. SINCLAIR, P.GEOL.

AUGUST 15, 1979  
CALGARY, ALBERTA

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GENERAL WELL DATA

WELL NAME: Bearcat et al Guiting Power #1  
LOCATION: Gloucestershire County, England  
AREA: One-half mile south of the Village of Guiting Power  
CO-ORDINATES: Latitude 51° 55' 05"  
Longitude 1° 52' 41"  
ORDINANCE MAP REFERENCES: SP 2084-2450  
LICENSE: PL 165 (Area B)  
CLASSIFICATION: Wildcat  
SECURITY STATUS: Tight hole  
ELEVATIONS: Ground Elevation 810 ft.  
K.B. Elevation 824 ft.  
K.B. TO GROUND: 14.10 ft.  
OPERATOR: Bearcat Explorations (U.K.) Limited  
INTERESTS: Bearcat Explorations (U.K.) Limited 50.0%  
Shell U.K. Limited 25.0%  
Consolidated Oil & Gas (U.K.) Limited 12.5%  
Teck Resources (U.K.) Limited 12.5%  
MAIN OBJECTIVE: Triassic Sands  
WELLSITE ENGINEER: Jerry V. Sinclair  
WELLSITE GEOLOGIST: Jerry V. Sinclair  
DRILLING CONTRACTOR: Kenting Drilling (U.K.) Limited, Rig #12  
DRILLING CONTRACT: Daywork  
TOOLPUSHERS: Larry Sanders and Ernie Smith (relief)  
DRILLING EQUIPMENT: Drawworks - Brewster N45  
Derrick - Lee C. Moore (127 ft.)  
Pumps - Emsco D375 (main)  
Emsco D375 (stand-by)  
Motors - One Bank GMC 671 (drawworks)  
One Bank GMC 671 (pumps)  
Rotary Table - 17 1/2 Brewster

Desilter - Thompson K410-10 Cone  
Desander - Bauer - Single Cone  
Drill pipe - 3 1/2" H-90  
Drill collars - (20) 4 1/2" H-90  
BOP's - 12" 900 Series Cameron  
10" 900 Series Double Shaffer

SERVICE COMPANIES:

Drilling Mud - International Drilling Fluids, Uxbridge  
Cementing - Dowell Schlumberger, Nottingham  
Leak-Off Tests - Dowell Schlumberger, Nottingham  
Casing - Kenting Drilling (U.K.) Limited, Nottingham  
Wellsite Trailer - Kenting Drilling (U.K.) Ltd., Nottingham  
Power Tongs - Weatherford/Lamb, Gt. Yarmouth  
Float Equipment - Weatherford/Lamb & Baker Tool, Yarmouth  
Casing Pressure Testing - Gray Oil Tools, Gt. Yarmouth  
Site Preparation - Glazepen Limited, Lincoln  
Site Clean-up - Glazepen Limited, Lincoln  
Water Truck - Glazepen Limited, Lincoln  
Other Catwork - Alan Bayliss, Naunton  
Gas Detector - Exploration Logging (U.K.) Ltd., Aberdeen  
H<sub>2</sub>S Detector - Exploration Logging (U.K.) Ltd., Aberdeen  
Downhole Equipment - Tri-State, Gt. Yarmouth  
Logging - Schlumberger, Birmingham  
Velocity Survey - Schlumberger, Birmingham  
Dipmeter - Schlumberger, Birmingham  
Coring - Diamond Boart Ltd., Staffordshire  
Drilling Bits - Security Dresser, Gt. Yarmouth  
Smith Tool Co., Staffordshire

CONDUCTOR PIPE: 12 ft. of 20" casing dug in and cemented to 26 ft. K.B.

DATE SPUDDED: June 18, 1979 (6:00 a.m.)

SURFACE CASING: Ran in 10 joints of 13 3/8" x 61# K-55 new buttress casing with Baker float shoe, float collar and three centralizers (1,3 & 5 joints) cemented with 419 sacks Class "B" bulk cement plus 3% CaCl<sub>2</sub>. Casing landed at 312.95 ft. K.B. Plug down 9:45 p.m. June 27, 1979. 20 barrels cement returns.

UNDER SURFACE: June 29, 1979 (9:30 p.m.)

FORMATION LEAK-OFF TEST #1: Ran test at 326 ft. K.B. (13 ft. below base of surface casing). Surface pressure at leak-off point: 190 psi. Total pressure applied to formation: 332.13. Support 19.5 P.P.G. mud.

INTERMEDIATE CASING: Ran 88 joints of 9 5/8" x 36# 8 round JE new casing with float shoe, float collar (top 2nd joint) and ten centralizers (1 - 10 joints). Cemented from 3425 - 2425 ft. with 462.4 sacks Class "G" bulk cement plus 92.4 gals. D-80 (Dispersent) plus 69.3 gals. D-73 (Fluid Loss) plus 10 gals. D-47 (Defoamer). Casing landed at 3425.73 ft. K.B. Plug down 11:45 p.m. July 13, 1979.

UNDER INTERMEDIATE: July 16, 1979 (5:30 a.m.)

FORMATION LEAK-OFF TEST #2: Ran test at 3455 ft. K.B. (30 ft. below base of intermediate casing). Surface pressure: 1480 psi. Total pressure applied to formation: 3183.32. Support 17.7 P.P.G. mud.

DRILLING MUD RECORD:

- Polymer mud system 26 - 27 ft.
- Lost circulation (lost 240 bbls. mud to formation)
- Fresh water (partial returns) 27 - 108 ft.
- Ran lost circulation cement plugs nos. 1 & 2 at 108 ft.
- Fresh water (no returns) 108 - 202 ft.
- Gel and lost circulation material (no returns - lost 575 bbls.) 202 - 292 ft.
- Dropped gel and lost circulation material plug (no returns - lost 50 bbls.)
- Gel and lost circulation material (no returns - lost 335 bbls.) reaming 26 - 155 ft.
- Fresh water (no returns) 155 - 242 ft. (reaming 12 1/4" to 17 1/2")
- Ran lost circulation cement plugs nos. 3 - 8 at 252 ft.
- Fresh water (full returns) drill out cement with 12 1/4" bit from 10 - 108 ft.
- Lost circulation at 108 ft.
- Spotted SMR and lost circulation material plug (no returns - lost 35 bbls.)
- SMR and lost circulation material then fresh water (slight returns) 108 - 232 ft.
- Fresh water (no returns) drill out cement with 17 1/2" bit from 10 - 232 ft.
- Ran lost circulation cement plug no. 9 at 151 ft. - felt at 196 ft. K.B.
- Fresh water and spotting gel and lost circulation material while reaming and drilling 12 1/4" from 196 - 296 ft. (no returns)
- Fresh water and spotting gel while reaming and drilling 17 1/2" from 196 - 313 ft. (no returns)
- Ran 13 3/8" surface casing at 313 ft. K.B.
- KCL polymer 313 to total depth

TOTAL MUD LOST: 1905 bbls. of drilling mud lost to formation on surface hole.

CORED INTERVALS: Core#1 3586 - 3640 (Keuper Sandstone)  
Core #2 7140 - 7170 (Devonian)

GAS DETECTOR: In operation from surface to total depth.

LOST CIRCULATION ZONES: Surface hole (see Lost Circulation Plugs).

LOST CIRCULATION MATERIAL: Cellophane, medium mica, nut shells and wood flakes.

LOST CIRCULATION CEMENT PLUGS:

Plug #1 - 108 - 20 ft. with 72.5 sacks Class "G" bulk cement plus 2% CaCl<sub>2</sub> and 1% cellophane (15.8 slurry). Plug down 5:50 p.m. June 18, 1979. Waited 5 1/2 hrs. Felt plug at 105 ft. K.B.

Plug #2 - 105 - 20 ft. with 72.5 sacks Class "G" bulk cement plus 2% CaCl<sub>2</sub> and 1% cellophane (15.8 slurry). Plug down 11:55 p.m. June 18, 1979. Waited 7 hrs. Felt plug at 100 ft. K.B.

Plug #3 - 252 - 202 ft. with 72.6 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub> and 1% cellophane (15.8 slurry). Plug down 5:30 p.m. June 21, 1979. Waited 5 hrs. Felt plug at 209 ft. K.B.

Plug #4 - 209 - 109 ft. with 145 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub> and 1% cellophane (15.8 slurry). Plug down 11:30 p.m. June 21, 1979. Waited 7 hrs. Felt plug at 147 ft. K.B.

Plug #5 - 147 - 20 ft. with 223 sacks Class "G" bulk cement plus 2% CaCl<sub>2</sub> and 1% cellophane (15.8 slurry). Plug down 7:15 a.m. June 22, 1979. Waited 5 hrs. Felt plug at 127 ft. K.B.

Plug #6 - 127 - 20 ft. spotted dry lost circulation material (30 sacks cellophane and 10 sacks wood flakes) down top of hole - pumped 158 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub> and 1% cellophane from top of hole (16.3 slurry). Plug down 1:30 p.m. June 22, 1979. Waited 5 1/2 hrs. Felt plug at 70 ft. K.B.

Plug #7 - 70 - 20 ft. spotted dry lost circulation material (20 sacks cellophane and 10 sacks wood flakes) down top of hole - pumped 72 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub> and 1% cellophane (16.0 slurry) from top of hole. Plug down 8:00 p.m. June 22, 1979. Waited 3 hrs. Felt plug at 49 ft. K.B.

- Plug #8 - 49 - 20 ft. spotted dry lost circulation material (20 sacks cellophane and 10 sacks wood flakes) down top of hole - pumped 47 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub> and 1% cellophane from top of hole (15.8 slurry). Plug down 11:30 p.m. June 22, 1979. Waited 8 1/2 hrs. Felt plug at 10 ft. K.B.
- Plug #9 - 151 - 20 ft. with 225 sacks Class "G" bulk cement plus 3% CaCl<sub>2</sub>. Plug down 4:15 a.m. June 24, 1979. Waited 3 hrs. Felt plug at 196 ft. K.B.

LOST CIRCULATION GEL  
PLUGS:

- Plug #1 - 292 - 26 ft. spotted dry lost circulation material in top of hole - pumped 50 bbls. gel and lost circulation material down top of hole. No returns.
- Plug #2 - 108 ft. spotted spud mud (R) and lost circulation material. Plug at 108 ft. while drilling out cement plugs - no returns.

DEVIATION PROBLEMS:

Intermediate hole.

HOLE PROBLEMS:

- Lost circulation on surface hole
- Tight hole while reaming 12 1/4" to 17 1/2" on surface hole (26 - 242 ft.)
- Stuck in hole with core barrel at 3953 ft. while running in to cut core #2 at 5137 ft. Spotted B-Free, diesel and barite, pulled loose and pulled out of hole. Went back to drilling. Did not attempt second run at cutting core #2 due to full diameter stabilizers on core barrel which was assumed to be initial cause of sticking core barrel.
- Had to ream terminal core rathole to log with Schlumberger

FINISHED DRILLING:

August 4, 1979 (6:15 a.m.)

TOTAL DEPTH:

7,170 ft. (566 ft. into Devonian)

HOLE SIZE:

17 1/2" surface to 313 ft.  
12 1/4" - 313 to 3,425 ft.  
8 1/2" - 3425 to total depth

SAMPLES:

Bearcat Explorations (U.K.) Limited, Calgary  
One set of 10 foot lagged samples washed, dried and put in envelopes, from 30 ft. to total depth

Institute of Geological Sciences, Nottingham  
One set of 10 foot lagged (wet) samples in cloth bags, from 30 ft. to total depth

Shell U.K. Limited, London  
One set of 10 foot lagged (wet) samples in plastic bags, from 30 ft. to total depth

LOGS RUN:

July 12, 1979

FIRST RUN

Schlumberger Dual Induction Laterolog - Integrated Sonic  
1:500 scale 3,425 ft. to base surface casing (313 ft.)  
1:200 scale 3,425 ft. to base surface casing (313 ft.)

Schlumberger Compensated Neutron-Formation Density Log  
1:500 scale 3,425 ft. to base surface casing (313 ft.)  
1:200 scale 3,425 ft. to base surface casing (313 ft.)  
(Gamma Ray and Neutron to surface)

August 4 & 5, 1979

SECOND RUN

Schlumberger Dual Induction Laterolog - Integrated Sonic  
1:500 scale total depth to 3,425 ft.  
1:200 scale total depth to 3,425 ft.

Schlumberger Compensated Neutron-Formation Density Log  
1:200 scale total depth to 3,425 ft. (dual 1:200 scale)

Schlumberger Dipmeter

Schlumberger Velocity Survey

DRILL STEM TESTS:

None

ABANDONMENT PLUGS:

Plug #1 - 6700 - 6500 ft. with 67 sacks neat Class "G"  
cement. Plug down 12:00 noon August 6, 1979.  
No feel

Plug #2 - 3525 - 3325 ft. with 70 sacks Class "G" cement  
plus 2% CaCl<sub>2</sub>. Plug down 3:30 p.m. August 6,  
1979. Waited four hours, felt plug at 3315 ft.  
K.B.

Plug #3 - 150 ft. - surface with 55 sacks neat Class "G"  
cement. Plug down 11:15 p.m. August 6, 1979.  
Cement returns to surface.

\* Cut casing off below plow depth and welded on steel  
plate.

RIG RELEASED:

August 7, 1979 (3:30 a.m.)

STATUS:

Dry and abandoned.

GEOLOGICAL MARKERS  
(Dual Induction Laterolog)

Grd. Elevation 810 ft.  
K.B. Elevation 824 ft.

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
<u>JURASSIC</u>		
Inferior Oolite		- Surface -
*Cotswold Sand	204	+ 620
*Upper Liassic Clay	246	+ 578
Middle Liassic Sand	516	+ 308
Lower Liassic Shale	624	+ 200
White Lias Limestone	1810	- 986
Upper Rhaetic - Cotham Beds	1822	- 998
Lower Rhaetic - Westbury Beds	1846	- 1022
<u>TRIASSIC</u>		
Tea Green Marl	1858	- 1034
Upper Keuper Marl	1864	- 1040
Arden Sandstone equivalent (?)	2584	- 1760
Lower Keuper Marl	2750	- 1926
Keuper Sandstones	3322	- 2498
Bunter Pebble Beds	5793	- 4969
<u>PERMIAN</u>		
Manchester Marl	5993	- 5169
Lower Mottled Sandstone	6094	- 5270
<u>DEVONIAN</u>		
	6604	- 5780
<u>TOTAL DEPTH</u>		
Driller	7170	- 6346
Schlumberger	7164	- 6340

\* Drilling time picks only (lost circulation - no samples)

SAMPLE DESCRIPTIONS

(Adjusted to Dual Induction Laterolog)

NOTE: The sample descriptions below represent a general summary of lithology drilled which has been adjusted to log depths. For detailed sample descriptions etc. see Gas Log enclosed.

Samples were lagged and caught at 10 foot intervals from 30 ft. to total depth.

Sample quality and control - good.

- 0 - 26' 20" conductor pipe dug in and set at 26 ft. K.B. (no samples)
- 26 - 70' LIMESTONE, white, yellowish, fine to medium oolitic, skeletal, indistinct fossil debris, very soft matrix, earthy in part, abundant whole oolites in sample tray, white to clear crystalline in part; partial lost circulation zone - assume jointed and fractured, no visible oil shows, no gas detector shows, no cut in chlorothene
- SAND, light brown, yellowish, fine to medium, quartzitic grains, angular, calcareous, some muscovite flakes, ferruginous staining, few oolites, very friable to unconsolidated; assume good porosity due to friable nature, no visible oil shows, no gas detector shows, no cut in chlorothene
- CLAY, cream to yellow, very soft, flaky, ferruginous mottling
- MARL, light brown, yellow, soft, calcareous, odd oolite, muscovite flakes
- (Lost circulation @ 27' - 1' below conductor pipe - only partial returns through this zone)
- 80 - 313' LOST CIRCULATION - no returns
- Set 13 3/8" surface casing @ 313 ft. K.B.
- 313 - 516' CLAYSTONE, bluish-grey, blocky, soft, slightly calcareous to calcareous, plastic, sticky, waxy, gummy, soluble, micromicaceous, silty in part, trace fossils, scattered imbedded white oolites towards top

Minor SILTSTONE, light grey-buff, brown, dense, tight, no visible shows

Trace white to cream LIMESTONE

LOG TOP FOR JURASSIC-MIDDLE LIASSIC SAND 516 (+308)

516 - 624' SILTSTONE, light grey, calcareous, sandy to very sandy - grading to sandstone in part, very friable in part otherwise dense, argillaceous, micromicaceous, high clay content - grading to claystone in part, trace glauconitic, tight, no shows

CLAYSTONE, light grey to grey, calcareous, micromicaceous, silty to sandy - grading to siltstone in part, trace pyritic

SHALE, grey, fissile to blocky, slightly calcareous to moderately calcareous, micromicaceous, friable to firm, trace pyritic, splintery in part, very silty - grading to siltstone in part

Minor light grey, dense LIMESTONE

Minor SANDSTONE, buff, yellowish, fine grained, calcareous cement, tight, no shows

LOG TOP FOR JURASSIC - LOWER LIASSIC SHALE 624 (+200)

624 - 1810' CLAYSTONE AND SHALE

CLAYSTONE, grey to medium grey, soft, plastic, gummy, calcareous, micromicaceous, very silty - grading to siltstone in part, few crinoid stems, imbedded indistinct pellets, very sandy in part

SHALE, grey to dark grey, fissile to blocky, calcareous, high clay content - grading to claystone in part, soft to firm, trace laminated, scattered imbedded shell fragments becoming very fossiliferous in small part, trace pyrite crystals, becoming bituminous and carbonaceous towards base (SEE INCREASED GAS DETECTOR READINGS)

LIMESTONE, light grey, micro to very finely crystalline, argillaceous, occasional fossil, no visible porosity or live oil staining, no cut in chlorothene

Minor SILTSTONE, grey, sandy, calcareous, dense, tight

LOG TOP FOR JURASSIC-WHITE LIAS LIMESTONE 1810 (-986)

1810 - 1822' LIMESTONE, white to light grey, finely crystalline to very finely sucrosic, chalky in part, argillaceous, trace pyritic, no visible porosity or live oil staining, no cut in chlorothene, no gas detector shows

LOG TOP FOR JURASSIC-UPPER RHAETIC (COTHAM BEDS) 1822 (-998)

1822 - 1846' SHALE, greenish-grey, fissile to blocky to splintery, very calcareous, waxy, micromicaceous, pyritic, high clay content - grading to claystone

Minor LIMESTONE, as above

LOG TOP FOR JURASSIC-LOWER RHAETIC (WESTBURY BEDS) 1846 (-1022)

1846 - 1858' SHALE, dark grey to black, fissile to blocky, trace splintery, calcareous in part, micromicaceous, trace imbedded pyrite, trace calcite veining, appeared carbonaceous

LOG TOP FOR TRIASSIC - TEA GREEN MARL 1858 (-1034)

1858 - 1864' MARL, light grey to grey-green to green, white in part, fissile to blocky, calcareous, micromicaceous, silty to sandy, waxy, marly, splintery in part

LOG TOP FOR TRIASSIC-UPPER KEUPER MARL 1864 (-1040)

1864 - 2584' MARL, orange-red to reddish-brown, green in part, mottled in part, blocky, calcareous, marly, soft to mushy in part, firm in part, very silty to sandy - grading to siltstone and sandstone in part

SHALE, dark grey, dark reddish-brown, greenish, mottled in part, fissile to blocky, splintery in part, slightly calcareous to calcareous in part - becoming non-calcareous, high clay content, waxy, trace shell fragments, trace imbedded sand grains, gypsiferous in part towards base, firm, trace gypsum crystals and laminae

Some SANDSTONE, reddish-brown, medium to coarse, clear, loose quartz grains, calcareous, very marly, possible porosity, no oil shows

Some reddish-brown, waxy CLAYSTONE

Some ANHYDRITE/GYPSUM, clear to white, transparent, crystalline to sucrosic, firm to hard

Trace SALT HOPPERS

Trace very dense DOLomite

LOG TOP FOR TRIASSIC-ARDEN SANDSTONE EQUIV.(?) 2584 (-1760)

2584 - 2750' MARL AND SHALE, as above, trace possible salt casts, anhydrite/gypsum mottling, very silty to very sandy - grading to siltstone and sandstone in part

Trace SANDSTONE, orange-red, mottled, very fine grained, marly,  
no visible porosity or live oil staining

Trace clear, very fine to fine grained SANDSTONE

LOG TOP FOR TRIASSIC-LOWER KEUPER MARL 2750 (-1926)

2750 - 3322' MARL, orange-red to reddish-brown, dark grey to dark greenish-grey,  
minor chocolate brown, calcareous, soluble, soft to mushy, firm in  
part, waxy in part, micromicaceous, trace disseminated pyrite,  
very silty to sandy

Some SANDSTONE, reddish-brown, fine to medium grained, marly, clear  
quartz grains, sub-angular to sub-rounded, fair to good sorting,  
no shows

LOG TOP FOR TRIASSIC-KEUPER SANDSTONES 3322 (-2498)

3322 - 3586' SAND, clear, orange-red to reddish-brown, yellowish, very fine to  
coarse, loose, unconsolidated, angular to sub-angular, poor sorting,  
some irregular, angular chips of clear quartz indicating possible  
very coarse to conglomeritic size, frosted grains, trace greenish  
with calcareous cement, coloration indicates, mushy, marly matrix,  
visible porosity, no oil shows, no cut in chlorothene, no gas  
detector shows

Some reddish-brown, green and purplish MARLS

3586 - 3640' DIAMOND CORED (See Core Description No. 1)

3640 - 5793' SAND, orange-red to reddish-brown, clear, light grey, yellowish,  
fine to very coarse to conglomeritic, loose, unconsolidated, semi-  
consolidated in small part, mottled in part, angular to sub-angular,  
poor to fair sorting, calcareous, marly, some soft white calcareous  
cement, irregular, angular chips of solid, clear quartz, ferruginous  
stain, few large sub-rounded pebbles, assume porosity due to loose  
sand grains, no oil shows, no gas detector shows

Interbeds of white and reddish-brown, soft MARLS

LOG TOP FOR TRIASSIC-BUNTER PEBBLE BEDS 5793 (-4969)

5793 - 5872' CONGLOMERATES, SAND, SANDSTONE, MARL AND SHALE

CONGLOMERATES, clear, reddish-brown, orange, yellowish, coarse to very  
coarse, quartz, orthoquartzite and chert pebbles, irregular, angular  
chips of quartz and orthoquartzite (assume chips from larger pebbles),  
dark chert pebs, clear and frosted pebbles, sub-rounded, fine to  
medium marly sand matrix, vitreous in part, green, dark green, black,  
reddish metamorphic mineralization, trace pyritic, mottled in part,  
loose, probably porous due to loose nature, no oil shows, no cut in  
chlorothene, no gas detector shows

SAND, orange-red to reddish-brown, clear, very fine to very coarse, angular to sub-rounded, occasional well rounded, poor to good sorting, loose, unconsolidated, clear and frosted grains, assume some, very soft marly matrix due to coloration, porous, no visible oil shows, no gas detector shows

SANDSTONE, reddish-brown, clear, pinkish, fine to coarse, very quartzitic, sub-angular to rounded, fair sorting, few dark chert pebbles, very argillaceous, some white to light grey, calcareous cement, marly, well cemented and hard in part, ferruginous stain, friable in part, no visible porosity or oil staining, no cut in chlorothene

MARL, reddish-brown, very soft to mushy, soluble

SHALE, reddish-brown to dark reddish-brown, fissile to splintery, firm

Minor reddish-brown, hard SILTSTONE

Trace DOLomite, white, crystalline, very dense and hard, tight, no shows

Trace white TRIPOLITIC CHERT

5872 - 5993' CONGLOMERATE, clear, reddish, orange, yellow, pinkish, irregular, angular chips of quartz, orthoquartzitic and chert, vitreous, clear and smoky, abrasive, sharp, ferruginous stain, mottled, green to dark green, black, metamorphic mineralization, no visible shows, no gas detector shows

LOG TOP FOR PERMIAN-MANCESTER MARL 5993 (-5169)

5993 - 6094' MARL, orange-red to reddish-brown, soft, dolomitic to calcareous, very silty-grading to siltstone in part, micromicaceous

SHALE, reddish-brown to dark reddish-brown, fissile to splintery, firm, non-calcareous, micromicaceous, waxy, silty in part

SILTSTONE, orange-brown to reddish-brown, sandy, marly, very argillaceous, tight, no shows

LOG TOP FOR PERMIAN-LOWER MOTTLED SANDSTONE 6094 (-5270)

6094 - 6604' SANDSTONE, orange to reddish-brown, fine to medium grained, odd coarse grain, sub-rounded, moderately well sorted, very argillaceous, dolomitic, very friable - loose sand grains in part, firm to moderately hard in part, good porosity, no visible oil shows, no cut in chlorothene, no gas detector shows

Some SILTSTONE, orange-brown to reddish-brown, sandy, firm, dolomitic, very argillaceous, marly, poor sorting, no visible porosity or live oil shows

Some SHALE, dark reddish-brown to dark purplish-brown, fissile to blocky, very silty, waxy in part, non-calcareous, micro-micaceous, trace sandy

Abundant off-white, very soft to mushy ROCK FLOUR

Some dark greenish, light grey and reddish-brown, well rounded SILTSTONE PEBBLES

Minor laminae of white MARL

Minor green SHALE

LOG TOP FOR DEVONIAN 6604 (-5780)

6604 - 7140'

SANDSTONE, SILTSTONE, SHALE AND CLAYSTONE

SANDSTONE, reddish-brown, very fine to fine grained, fair to good sorting, sub-rounded, occasional rounded, very argillaceous, loose in part, very soft matrix, some visible porosity, no visible oil shows, no cut in chloroethene, no gas detector shows

SANDSTONE, light grey, purple and orange-brown mottling, very fine grained, very calcareous, very silty, well cemented, imbedded muscovite flakes, no visible porosity or oil shows

SILTSTONE, dark reddish-brown to dark purplish-brown, dark purplish-grey, greenish, light grey, slightly calcareous to calcareous, sandy in part - grading to sandstone, very argillaceous, firm to hard, micro-micaceous to very micro-micaceous, trace mottling, no visible porosity or oil shows

SHALE, dark reddish-brown to dark purplish-brown, dark brown, mottled in part, fissile to splintery, non-calcareous, waxy in part, silty, micro-micaceous

Varicolored, soft CLAYSTONES, soluble, micromicaceous, grading to marl

Minor LIMESTONE, light to dark grey, micro to cryptocrystalline, very dense and hard, tight, no oil shows

7140 - 7170'

DIAMOND CORED (See Core Description No. 2)

SAMPLE DISTRIBUTION

A. I.G.S. - WET SAMPLES

<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>
1	30 - 590	6	2090 - 2550	11	4540 - 5140
2	600 - 990	7	2560 - 2980	12	5150 - 5740
3	1000 - 1400	8	2990 - 3420	13	5750 - 6320
4	1410 - 1740	9	3430 - 4040	14	6330 - 6950
5	1750 - 2080	10	4050 - 4530	15	6960 - 7140

Boxes 1 - 13 were handed over to I.G.S. on July 31, 1979  
Boxes 14 & 15 were handed over to I.G.S. at end of well

B. SHELL - WET SAMPLES

<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>
1	30 - 380	16	1960 - 2050	31	4130 - 4310
2	390 - 510	17	2060 - 2190	32	4320 - 4470
3	520 - 600	18	2200 - 2320	33	4480 - 4610
4	610 - 720	19	2330 - 2460	34	4620 - 4770
5	730 - 850	20	2470 - 2610	35	4780 - 4950
6	860 - 980	21	2620 - 2750	36	4960 - 5130
7	990 - 1080	22	2760 - 2890	37	5140 - 5300
8	1090 - 1170	23	2900 - 3030	38	5310 - 5480
9	1180 - 1210	24	3040 - 3170	39	5490 - 5670
10	1220 -	25	3180 - 3320	40	5680 - 5880
11	1460	26	3330 - 3420	41	5890 - 6050
12	1470 - 1590	27	3430 - 3570	42	6060 - 6350
13	1600 - 1740	28	3580 - 3750	43	6360 - 6560
14	1750 - 1850	29	3760 - 3920	44	6570 - 6740
15	1860 - 1950	30	3930 - 4120	45	6750 - 6960
				46	6970 - 7140

Boxes 1 - 45 were shipped to Shell in London by J. Sinclair on August 1, 1979

Box 46 was left with exploration logging unit for distribution to Shell when unit arrived in London

C. BEARCAT - DRY SAMPLES

<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>	<u>BOX</u>	<u>INTERVAL</u>
1	30 - 480	8	2320 - 2650	15	4490 - 4820
2	490 - 740	9	2660 - 2920	16	4830 - 5130
3	750 - 1070	10	2930 - 3200	17	5140 - 5480
4	1080 - 1400	11	3210 - 3530	18	5490 - 5850
5	1410 - 1650	12	3540 - 3950	19	5860 - 6200
6	1660 - 1970	13	3960 - 4210	20	6210 - 6600
7	1980 - 2310	14	4220 - 4480	21	6610 - 7140

Boxes 1 - 21 shipped to Canada

CORE DESCRIPTIONS

CORE #1: 3586 - 3640 ft. CUT: 54 ft. RECOVERED: 54 ft.

- 3586.0 - 3588.3 (2.3') SANDSTONE, dark reddish-brown and greenish-grey, fine to coarse grained, angular to sub-angular, fair to good sorting, calcareous cement, friable to medium hard, argillaceous - high clay content in most part, very thin greenish clay laminae, greenish and reddish clay partings, muscovite flakes, some white and varicolored frosted grains, irregular basal contact with abundant clay partings and inclusions giving brecciated appearance, top 4" green and very argillaceous with claystone laminae, silty in top 4", clear quartz grains, crossbedding, ferruginous content, poor visible porosity, no visible live oil shows, no cut in chlorothene, no gas detector shows
- 3588.3 - 3591.6 (3.3') CLAYSTONE, reddish-brown and green, blocky, slightly calcareous in part, very micaceous, silty, sandy towards base, very waxy in part, soft to firm, ferruginous
- 3591.6 - 3599.3 (7.7') SANDSTONE, dark reddish-brown, fine to medium grained becoming coarse grained in part, angular to sub-angular, poor to fair sorting, friable, very argillaceous, high clay content, few clay partings, crossbedding, odd imbedded pebble, clear quartz grains, some frosted grains, scattered muscovite flakes, flow structures, green, wavy claystone laminae at base, poor to fair visible porosity, no visible live oil shows, no cut in chlorothene, no gas detector shows
- 3599.3 - 3603.3 (4.0') CLAYSTONE, as above with interbeds  
SANDSTONE, greenish-grey, medium grained, angular, poor sorting, scattered coarse grains, clear quartz grains, some grains appeared recrystallized, varicolored frosted grains, calcareous, argillaceous, reddish-brown claystone partings, friable to firm, ferruginous, poor visible porosity, no shows
- 3603.3 - 3604.6 (1.3') CONGLOMERATE, grey to reddish-brown, coarse to very coarse, pebbles up to 1/4", odd pebble up to 1/2", chert and quartz pebbles, clear and frosted, angular to sub-rounded, very calcareous, high clay content, crossbedding, reddish-brown clay partings, ferruginous staining, irregular contact top and bottom, scattered visible porosity, no shows
- 3604.6 - 3605.0 (0.4') CLAYSTONE, dark reddish-brown, blocky, slightly calcareous, very micaceous, imbedded quartz and chert pebbles towards base, trace waxy, very silty, ferruginous
- 3605.0 - 3605.9 (0.9') SANDSTONE, reddish-brown, fine to very coarse grained, calcareous, angular, poor sorting, very argillaceous,

- high clay content, high angle crossbedding, scattered imbedded quartz and chert pebbles up to 1/4", very poor visible porosity, no shows
- 3605.9 - 3607.0 (1.1') SANDSTONE, dark reddish-brown, very fine to fine grained, calcareous, marly, firm, well sorted, imbedded muscovite flakes, very argillaceous, very ferruginous, little visible porosity, no visible live oil shows, no cut in chlorothene no gas detector shows
- 3607.0 - 3611.2 (4.2') INTERBEDDED SANDSTONE, CLAYSTONE AND CONGLOMERATE
- SANDSTONE, dark reddish-brown as above with imbedded mica, greenish clay streaks, little visible porosity, no shows
- CLAYSTONE, dark reddish-brown as above
- CONGLOMERATE, as above with dark reddish-brown, sandy matrix, very argillaceous, greenish and reddish-brown clay partings, crossbedding, little visible porosity, no shows
- Few interbeds reddish-grey, dense SILTSTONE with abundant reddish-brown claystone inclusions and mottling, sandy, calcareous, tight, no shows
- 3611.2 - 3616.4 (5.2') SANDSTONE, dark reddish-brown, medium grained, coarse grained in part, non-calcareous, very argillaceous, angular to sub-angular, fair to good sorting, very ferruginous, friable, clear and frosted grains, numerous greenish claystone partings and inclusions, few mica flakes, poor visible porosity, no visible live oil shows, no cut in chlorothene, no gas detector shows, appeared to be sweating water
- 3616.4 - 3621.7 (5.3') SANDSTONE, dark reddish-brown, greenish-grey in bottom 6", medium to very coarse, few imbedded frosted pebbles up to 1/2", angular to sub-angular, poorly sorted, clear and frosted grains, non-calcareous, very ferruginous, abundant mica flakes (muscovite and biotite) at base, few dark chert grains, very argillaceous, high clay content, poor to fair visible porosity, no shows, appeared very water wet - sweating water
- 3621.7 - 3627.2 (5.5') CLAYSTONE, dark reddish-brown, blocky, marly, slightly calcareous in part, very micaceous, firm to hard, odd greenish claystone inclusion, trace waxy
- 3627.2 - 3631.5 (4.3') CONGLOMERATE, dark reddish-brown, greenish-grey in part, coarse to very coarse (up to 1/2"), angular to sub-rounded, trace pea-sized vugs, clear and frosted quartz pebbles, calcareous, sandy marly matrix, few interbed fine to medium sandstone with abundant muscovite flakes, high angle crossbedding, current bedding - flow structures, calcite veining, visible porosity, no oil shows, no gas detector shows, appeared very water wet - sweating water

3631.5 - 3635.1 (3.6') CLAYSTONE AND SANDSTONE

CLAYSTONE, dark reddish-brown, as above becoming sandy in part, few greenish sandy lenses and inclusions, slightly laminated in part

SANDSTONE, dark reddish-brown and greenish-grey, fine to medium grained, non-calcareous, angular to sub-angular, fair to good sorting, very friable in part, very ferruginous, clear and frosted grains, very argillaceous, poor visible porosity, no oil shows, appeared very water wet - sweating water

3635.1 - 3640.0 (4.9') SANDSTONE, dark reddish-brown, medium to coarse grained, marly angular to sub-angular, well sorted, very friable, very argillaceous - high clay content, scattered mica flakes, very ferruginous, poor to fair visible porosity, no visible live oil shows, no gas detector shows, appeared very water wet - sweating water

CORE #2: 7140 - 7170 ft. CUT: 30 .0 ft. RECOVERED: 28.8 ft.

7140.0 - 7168.8 (28.8') SILTSTONE, dark reddish-brown, greenish mottling and bands scattered throughout, purplish mottling in part, blocky, hard, non-calcareous to very slightly calcareous, scattered buff-grey and greenish calcareous blebs and nodules, very argillaceous, very slightly sandy in few mottled areas, few calcite veinlets, very micaceous, few green argillaceous bands, purplish and hematitic in very small part, trace slump structures, trace very slight dipping of bedding planes (< 5%) near top otherwise no evident crossbedding, tight, no visible live oil shows no gas detector shows, no cut in chlorothene

7168.8 - 7170.0 (1.2') LOST CORE (Assume 1.2 ft. of core left on bottom when pulling core loose)

7170 TOTAL DEPTH (Driller)

**SECURITY DIVISION**  
**Dresser Industries, Inc.**  
 OILFIELD PRODUCTS GROUP  
 HOUSTON, TEXAS 77006 (713) 784-6011



**BIT RECORD** FORM NO. PH-813

FILE NO.

P. O. BOX 6504  
 HOUSTON, TEXAS 77006 (713) 784-6011

CONTRACTOR COMPANY	RIG NO.	RIG MAKE	RIG SIZE	DC. OD X ID X LENGTH (HOLE SIZE)	SPUD	MO. / DAY / YEAR	SALESMAN	PAGE	OF	BUYER	RIG PERSONNEL	TOTAL DAYS		TOTAL ROT. HRS.	WATER SOURCE	QUANTITY LAKE		
												48	5834					
KENTING DRILLING (U.K.) LTD.	12	BREWSTER N45	127 ft	6 1/2 x 3 1/2 x 17 1/2	6	18	SECURITY & SMITH	1	2	J. SINCLEAR-BEARCAT	A. SANDERS & E. SMITH	48	5834		PHILLIPS 66	QUARRY LAKE		
BEARCAT EXPLORATIONS (U.K.) LTD.	WILDCAT																	
BEARCAT OIL GUINING POWER		EMSCO D375		6 1/2 x 2 1/2 x 18, 18 1/2	6	22												
GLoucestershire COUNTY	ENGLAND	EMSCO D375		6 1/2 x 2 1/2 x 18, 18 1/2	7	16												
SEC. 11 SHIPWAYS	LONG. 1° 52' 41"	I. D. F.		D.P. SIZE: J. 5 1/4 x 3 1/2 x 14-90	8	4												
LAT. 51° 55' 05"																		
1A 12 1/2	MAAN	864772	15 15 15	292	266	9 1/2	287 9 1/2	5	150	950/50	7 58 5 1/2	40	WATER	1 1/2	2	1	LOST CIRC. @ 27'	
2A 17 1/2	SAT	865987	OPEN	243	217	5 1/2	REAM		180	50	5 1/2	40	WATER				DRILL BLIND W/WATER (NO RETURNS)	
3A 12 1/2	SAT	865852	15 15 15	232	222	7 1/2	REAM		100		5 1/2	40	WATER				RAN 9 CEMENT	
4A 17 1/2	SAT	865987	22 22 22	232	222	8 1/2	REAM		100		7 90	5 1/2	WATER				4 2 GEL PLUGS (NO RETURNS)	
5A 12 1/2	SAT	865852	20 20 20	296	100	4	REAM		110	200	7 50		WATER					
6A 17 1/2	SAT	865987	22 22 22	313	100	11 1/2	REAM		110	100	7 50		WATER					
7				SET	13	3 1/2	DRILL 1 1/2											
1	12 1/2	S4ARR	15 15 15	670	357	19 1/2	S4R FACE		80/100	700	7 62		9.1 140 42	10/22	5.6 3/4	8	I	DRILL OUT 5 1/2 HRS.
2	12 1/2	S335	16 16 16	1815	1145	34	33.7 59 1/2	15 20	80/100	750	7 56		9.5 140 42	17/22	8.5 1 1/2	3	I	CONTROL DRILL TO 1000'
3	12 1/2	S335	18 18 18	2288	473	30 1/2	15.6 83 1/2	20	100	850	7 60		9.4 170 42	13/20	7.8 2	4	I	REAM 681' FILL 1 1/2 HRS.
4	12 1/2	S44	20 20 20	2641	353	42 1/2	8.3 126 1/2	15	100	900	5 1/2	60	9.4 150 44	18/21	7.8 3	6	I	REAM 348' FILL 4 HRS.
5	12 1/2	S44	20 20 20	2956	315	36	8.7 162 1/2	15 20	100	800	5 1/2	60	9.4 300 40	10/20	7.8 2 1/2	5	I	REAM 30' FILL 1 1/2 HRS.
6	12 1/2	M47N	18 18 18	3192	236	38 1/2	6.1 200 1/2	35	120	900	5 1/2	60	9.6 160 44	13/24	9.2 2	7	I	NO FILL
7	12 1/2	S44	18 18 18	3425	233	17 1/2	13.5 218	28	80/100	1000	5 1/2	60	9.5 160 47	16/26	8.5 3 1/2	5	I	CLEAN TO BOTTOM 4 HR.
8	8 1/2	M47N	14 14 14	3586	161	12	INTERFERED						9.5 100 42	14/25	8.5 3	6	I	RAN DILL, GEL, PDC & STAGG 100%
9	8 1/2	DIAMOND	13 13 13	3640	54	8 1/2	6.4 238 1/2	20	110	850	5 1/2	56	9.5 70 48	14/25	8.5	6	I	DRILL OUT 6 1/2 HRS. CORE #1 3586-3640 CUT: 54' REC: 54'
10	8 1/2	SDGH	13 13 13	3865	225	16 1/2	13.6 225	15	80	650	5 1/2	60	9.2 60 42	15/25	6.3 2 1/2	5	I	REAM CORED INTERVAL
11	8 1/2	MAANG	13 13 13	4181	193	10 1/2	18.4 275	30	80	900	5 1/2	60	9.2 8.6 43	18/20	6.3	5	I	SLIGHT UNDERGUAGE REAM 60
12	8 1/2	MAANG	13 13 13	4303	122	8 1/2	13.9 283 1/2	30	70	1000	5 1/2	60	9.3 9.5 43	18/24	6.3 2	4	I	SLIGHT UNDERGUAGE REAM 60
13	8 1/2	SDGH	13 13 13	4540	237	11 1/2	11.6 305	20	50/70	1000	5 1/2	60	9.2 9.0 42	18/24	6.3 2	7	I	REAM 60
13 1/2	SDGH	WH 506	13 13 13	4540	237	11 1/2	11.6 305	20	50/70	1000	5 1/2	60	9.2 9.0 42	18/24	6.3 2	7	I	REAM 60
																		1/2" UNDERGUAGE

SUBJECT TO PROVISIONS ON REVERSE SIDE

\* NOTE BY (N) - NO. (L) - LIGHT (M) - MEDIUM (H) - HEAVY ROUNDING OF GAGE  
 \*\* 1. SALESMAN 2. ENGINEER 3. RIG PERSONNEL

SECURITY DIVISION  
**Dresser Industries, Inc.**  
 OILFIELD PRODUCTS GROUP  
 P.O. BOX 6504 HOUSTON, TEXAS 77005 (713) 784-6011



FORM NO. P4633B  
**BIT RECORD**

FILE NO. \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ RIG MAKE \_\_\_\_\_ RIG NO. \_\_\_\_\_  
 COMPANY \_\_\_\_\_ FIELD \_\_\_\_\_ RIG SIZE \_\_\_\_\_  
 LEASE \_\_\_\_\_ WELL NO. \_\_\_\_\_ PUMP NO. 1 \_\_\_\_\_  
 STATE \_\_\_\_\_ COUNTY \_\_\_\_\_ PUMP NO. 2 \_\_\_\_\_  
 SEC./Y./SHIP/RANGE \_\_\_\_\_ MUD COMPANY \_\_\_\_\_  
 SPUD: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ DAY / YEAR \_\_\_\_\_  
 U.S.: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 INTER: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 TD: \_\_\_\_\_  
 TOTAL DAYS: \_\_\_\_\_ TOTAL ROT. HRS: \_\_\_\_\_  
 FUEL SOURCE \_\_\_\_\_ WATER SOURCE \_\_\_\_\_  
 SALESMAN \_\_\_\_\_  
 BUYER \_\_\_\_\_  
 RIG PERSONNEL \_\_\_\_\_  
 PAGE 2 OF 2

RUN NO.	RUN SIZE	TYPE	SERIAL NO.	BITS - 32NDS REG. R.O. NO.			FEET	HOURS	FEET PER HOUR	WT. 1000 LBS.	P.P.M.	PUMP PRESS.	PUMP NO. & PUMP NO. 2		PUMP NO. 1	PUMP NO. 2	MUD PROPERTIES			MUD CORR 1/2-1/8	REMARKS	DATE	DEPTH																						
				1.	2.	3.							WT.	WT.			WT.	W.A. P.V.	P.V.					% SOL.	DEV.	T	B	O	NO.	NO.	NO.														
14	8 1/2	MAANG	803733	13	13	13	420	24	17.5	329	40	55	1000	5 1/2	60	8.9	6.040	11/18	4.2	2	8	8	I		REAMED 90' FOR UNDERGULCHED HOLE																				
15	8 1/2	MAANG	555599	13	13	13	5137	11	16.0	340	40	69	800	5 1/2	60	9.0	6.848	14/25	5.0	2 1/4	8	6	I		REAM 60' TO BOTTOM 3/4" BRITE-PULLED LOOSE																				
16	8 1/2	DIAMOND	C B 303	-	-	-	STUCK IN HOLE @ 395'	WHILE RUNNING IN WITH CORE	28	353	35	55	1100	5 1/2	60	9.1	5.644	12/22	5.6		8	8	I		REAM 90' AS PRECAUTION TO ANY SLIGHT UNDERGULCH TO TORQUE & SLOW PENET.																				
17	8 1/2	M84F	858447	13	13	13	698	40 1/4	17.3	393	35	40	45	1100	5 1/2	60	9.1	6.042	12/20	5.6	4	4	I		REAM 30' TO 80' O.M. CORE # 2: 7140-7170, S.W.T: 30, REC: 28.8, REAMED PATHOLE FROM 7140-7170 FOR LOGGING																				
18	8 1/2	586F	593326	13	13	13	616	42	14.7	435	35	45	1000	5 1/2	60	9.1	6.048	13/30	5.6	2 1/4	3	3	I																						
19	8 1/2	F3	WF 614	13	13	13	7140	508	78 1/2	57	514	40	52	1000	5 1/2	60	9.1	4.552	20/32	5.6	G	P	D																						
20	6 3/8	DIAMOND	A90035	-	-	-	7170	30	9 1/4	32	523	10	70	900	5 1/2	40	9.5	5.050	18 1/2	8.5	3	3	I																						
21	6 3/8	F3	WF 614	13	13	13	7170	30	5 1/4	REAM	-	80	40	1000	5 1/2	60																													
																						TOTAL DEPTH: 7170 FT.																							

\* DENOTE BY (N) - NO. (L) - LIGHT (M) - MEDIUM OR (H) - HEAVY ROUNDING OF GAGE  
 \*\* 1. SALESMAN 2. ENGINEER 3. RIG PERSONNEL  
 SUBJECT TO PROVISIONS ON REVERSE SIDE



**INTERNATIONAL DRILLING FLUIDS**

Drilling Mud Properties Record

MUD SYSTEM SEA-HYDRATED BENTONITE-POLYMER

WELL NAME GUITING POWER NO. 1 AREA GRADY'S TERRACE  
 STOCK POINT Contractor KENTING #12  
 ENGINEERS GLIDDEN, RAJNER

Day No	DATE	DEPTH	MUD PROPERTIES										OPERATION REMARKS										
			WEIGHT (ppg)		VISCOSITY		GEL			FLUID LOSS				Filtrate Analysis		RETORT							
			sec/ft	A.V. cps	P.V. cps	Y.P. #/100 sq. ft.	0	10	CAKE 32nds	H.T.H.P. cc's	pH	Cl ppm	Ca+ ppm	PF	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	N	X	
1	17		8.3	44								40											MIXED SAND MUD FOR FAT HOLE SPUD - LOST CIRCL - DRILL W/ WATER - SET CMT PLUG DRILLED BLIND - MIXED GEL L.I.C.M. - NO RETURNS NO RETURNS - OPEN HOLE W/ 1 1/2" BIT TO 155' OPEN 1 1/2" HOLE w/ WATER? SET CMT PLUGS 34, 45 RUN CMT PLUGS 67, 45 SPOT L.I.C.M. BETWEEN PLUGS DRILL OUT CMT w/ 1 1/2" OPEN w/ 1 1/2" - NO RETURNS DRILLED 12 1/2" 196' - 259' W/ WATER - PUMPABLES SUGGS REAM 12 1/2" L.I.C.M. SWGS REAM 17 1/2" 196' - 295' - DRILL TO 308' - NO RETURNS DRILL 17 1/2" TO 313' - SPOT HI VIS MUD - RUN 13 3/8" ESG - CMT
2	18	108'	8.3	42																			
3	19	202'	7.3	58																			
4	20	155'	7.5	50																			
5	21	243'																					
6	22																						
7	23	232'																					
8	24	254'																					
9	25	295'																					
10	26	308'																					
11	27	313	8.4	100	76	10	135	25		125													
12	28	313																					
13	29	450	8.5	42	24	14	20	57	20	3	11.0	12	80	1.0	Nil	1.2	TR	7.5	9				
14	30	943	9.1	42	21	10	22	35	14	2	10.5	15	80	.5	-	5.6	TR	12.5	10				

REMARKS -

WAIT ON CEMENT  
 DRILL 12 1/2" HOLE  
 DRILL 12 1/4" HOLE



INTERNATIONAL DRILLING FLUIDS  
 Drilling Mud Properties Record  
 WELL NAME COUNTING POWER No.1 AREA GLIMMERSHIRE  
 STOCK POINT Contractor KENING RIG 12  
 MUD SYSTEM PRE-HYDRATED BENT / KCL - POLYMER ENGINEERS GIDDEN, RAINER

Day No	DATE	DEPTH	MUD PROPERTIES										OPERATION REMARKS													
			WEIGHT			VISCOSITY			GEL			FILTRATE ANALYSIS			RETORT											
			sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq. ft.	10	0	FLUID LOSS 30 Min cc's	CAKE 32 hrs	H.T.H.P. cc's	pH	Cl ppm	Ca+ ppm	PI	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	N...	K...			
15	July 1	1725	9.5	42	24	13	22	6	11	14	2	11.0	15	40	.55	NIL	8.5	TR	17.5	10	.46	2.0			DRILL 12 1/2" HOLE TO 1754' - SLIGHTLY TIGHT ON CONN - HOLE CAVING - REAM - DRILL TO 1800' HOLE GOOD	
16	2	1865	9.5	50	25	15	21	6	12	16	2	10.0	20	80	.3	NIL	8.4	TR	20	15	.50	1.6			DRILL TO 2243' - ON CONNS.	
17	3	2225	9.3	46	29	15	28	6	17	18	3	11.0	17	120	.45	-	7.0	TR	17.5	13	.43	3.0			TRIP AT 2228' - REAM & WASH 1939-2228' - DRILL TO 2368'	
18	4	2355	9.4	42	22	12	20	6	13	17	3	10.0	17	800	.2	-	7.8	TR	17.5	12	.46	1.8			DRILL TO 2550'	
19	5	2534	9.5	47	23	13	20	7	11	25	4	9.5	13	560	.48	-	8.4	TR	22.5	9	.48	1.65			TRIP AT 2641' - 30' FILL DRILL TO 2654'	
20	6	2645	9.4	44	22	12	21	5	10	15	2	9.5	18	800	.15	-	7.8	TR	20	13	.45	2.05			DRILL TO 2826'	
21	7	2811	9.3	42	23	13	20	7	17	28	4	9.5	17	800	.15	-	7.0	TR	22.5	13	.48	1.6			DRILL TO 2984'	
22	8	2916	9.4	40	20	10	20	4	12	30	4	10.5	17	600	.25	-	7.8	TR	20	13	.41	2.3			DRILL TO 3053'	
23	9	3119	9.5	45	24	12	22	8	22	24	3	10.0	14	600	.19	-	8.5	TR	22.5	11	.41	2.8			DRILL TO 3127'	
24	10	3253	9.6	44	25	13	24	6	14	16	3	10.5	12	800	.47	-	9.2	TR	20	10	.43	2.6			DRILL TO 3425'	
25	11	3425	9.5	47	29	16	26	4	19	16	2	10.0	12	400	.26	-	8.5	TR	17.5	10	.46	2.4			LOGGING	
26	12	3425	9.4	44	25	13	25	4	18	11	2	9.5	13	540	.23	-	7.8	TR	17.5	10.5	.42	3.2			RUN 9 7/8" CSG TO 3425' UMT.	
27	13	3425	9.5	47	26	14	25	6	16	11	2	9.5	13	600	.2	-	8.5	TR	17.5	10	.44	2.5			WAIT ON CMT - NIPPLE UP	
28	14	3425																								

REMARKS: -



**INTERNATIONAL DRILLING FLUIDS**

Drilling Mud Properties Record

MUD SYSTEM KEL-POLYMER

WELL NAME GULTING POWER No.1 AREA GUILDFORDSHIRE  
 STOCK POINT Contractor KENTON RIG 12  
 ENGINEERS GLIDDEN, RAINE

Day No	DATE	DEPTH	MUD PROPERTIES										OPERATION REMARKS											
			WEIGHT WPG			VISCOSITY			FLUID LOSS 30 Mn cc's			Filtrate Analysis			RETORT									
			sec/41	A V cps	P V cps	Y.P. #/100 sq ft	10	0	CAKE 30 Mn cc's	H.T.H.P. cc's	pH	Cl ppm	Ca++ ppm	PI	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	N...	K...		
29	July 15	3443	42	23	12	22	4	11	13	2	118	11.5	240	.9	NIL	8.5	72	15.0	8.5	.44	2.2			DRILL OUT CMT - DRILL 8 1/2" HOLE
30	16	3586	48	26	14	25	4	14	7.0	1	105	13.5	200	.5	-	8.5	72	12.5	10.5	.45	2.45			Pull out to Drill to 3586' - Run Core #1
31	17	3736	44	27	15	25	6	14	6.8	1	100	11	80	.35	-	6.3	72	15.0	9.5	.47	2.1			CAT CORE #1 - DRILL 8 1/2" TO 3739'
32	18	3980	43	22	12	20	4	11	8.6	1	105	11	120	.35	-	6.3	72	12.5	9.5	.46	1.8			DRILL TO 3938'
33	19	4238	43	24	12	24	5	12	9.0	1	100	12	120	.3	-	6.3	0.25	7.5	10	.42	2.6			DRILL TO 4265'
34	20	4457	40	21	13	16	4	10	7.0	1	110	12	40	.6	-	5.6	72	7.5	10	.53	1.1			DRILL TO 4470'
35	21	4515	40	20	11	18	4	10	5.6	1	110	13	40	.6	-	5.6	72	7.5	10.5	.46	1.65			DRILL TO 4555'
36	22	4958	40	20	11	18	4	10	6.0	1	108	10	40	.6	-	4.2	72	5.0	9	.46	1.65			DRILL TO 4960'
37	23	5137	48	26	14	25	5	11	6.8	1	100	9	40	.4	-	5.0	72	5.0	8	.44	2.5			DRILL TO 5137' - R114 W/CORE CORE 832 STAB. STUCK AT 3953. SPOT B-FREE. PIPEFREE DRILL TO 5148
38	24	5137	50	33	20	24	6	14	5.0	1	95	10	80	.3	2.6	5.0	72	5.0	9	.51	1.9			DRILL 8 1/2" HOLE TO 5370'
39	25	5340	44	23	12	23	5	10	6.0	1	105	11	40	.4	2.5	5.6	72	2.5	10	.43	2.4			DRILL TO 5775'
40	26	5760	42	21	12	19	4	10	6.0	1	100	10	40	.4	2.5	5.6	72	2.5	9	.47	1.6			DRILL TO 6000' - HOPE GOOD
41	27	5907	42	21	12	19	4	10	6.6	1	100	11	40	.4	2.0	5.6	72	2.5	10	.47	1.65			DRILL TO 6300' - HOLE GOOD
42	28	6269	40	20	11	19	4	10	6.0	1	95	10	80	.25	2.0	5.6	72	2.5	9	.45	1.8			DRILL TO 6300' - HOLE GOOD

REMARKS -



INTERNATIONAL DRILLING FLUIDS

Drilling Mud Properties Record

WELL NAME Curtis River No 1 AREA GRUBBLES TESTABLE  
 STOCK POINT Keating Rig 12  
 ENGINEERS CRIPPEL RAINEZ

MUD SYSTEM KLL-POLYMER

Day No	DATE	DEPTH	MUD PROPERTIES										OPERATION REMARKS											
			WEIGHT PPM			FLUID LOSS 30 Min cc's			Filtrate Analysis			RETORT												
			sec/100	A.V. cps	P.V. cps	Y.P. #/100 sq ft	GEL	CAKE 32 mds	H.T.P. cc's	BH	Cl ppm	Ca+ ppm	PH	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	"N"	"K"				
43	29	6505	9.1	46	27	13	25	11	5	6.6	1	10.5	11	40	14	2.0	5.6	TR	2.5	10	.4	3.4	Drill to 6612' - Hole In Good Condition	
44	30	6735	9.1	42	25	12	26	11	4	6.0	1	10.0	10	40	13	2.0	5.6	TR	2.5	9	.4	3.1	Drill to 6744'	
45	31	6903	9.2	40	24	12	19	11	5	5.1	1	10.0	9	40	13	2.0	6.3	TR	2.5	8.5	.47	1.65	Drill to 6910' - Hole Good	
46	Aug 1	7070	9.1	42	22	11	22	11	5	7.0	1	10.5	11	40	14	2.0	5.6	TR	2.5	10	.42	2.4	Drill to 7078' - Hole Good	
47	2	7140	9.1	55	38	20	36	14	9	4.8	1	10.0	13	80	25	2.0	5.6	TR	2.5	11	.40	3.4	Drill to 7150' - RAISE LOGS TO GEAR HOLE TIGHT ON W. PER TEST	
48	3	7170	9.1	52	36	20	32	14	7	4.5	1	10.5	14	40	14	2.0	5.6	TR	2.5	11.5	.46	3.0	Get Core No. 2 - Hole TIGHT FILLING UNIT 15% 20% etc.	
49	4	7170	9.5	50	37	18	38	16	3	5.0	1	10.0	14	80	12	2.0	5.6	TR	4.0	11.5	.4	3.5	LOGGING - TOOL STOPPED AT 7161' - CLEANED OUT WITH T. TEST LOGS TO BOTTOM OKAY	
50	5																							
51	6																							PLUG AND ABANDON

REMARKS --

DEVIATION SURVEY

<u>Depth (Feet)</u>	<u>Deviation (Degrees)</u>
100	1 1/2
191	1 1/2
292	Misrun
108	1 1/4
195	1 1/4
295	2
326	1 3/4
420	3/4
608	3/4
825	1/2
1010	1/2
1227	3/4
1413	1 3/4
1505	1 3/4
1629	1 1/2
1753	1 3/4
1815	1 3/4
1908	1 3/4
2033	1 3/4
2218	1 3/4
2288	2
2374	3
2405	3
2436	2 1/8
2527	3
2589	3 1/2
2620	3 1/2
2641	3
2712	2
2805	2

Deviation Survey cont'd

<u>Depth (Feet)</u>	<u>Deviation (Degrees)</u>
2899	2
2930	2 1/4
3053	2 1/4
3145	2
3332	3
3425	3 3/4
3548	3
3766	2 1/4
3865	2 1/4
4181	2
4303	2
4540	2
4960	2
5137	2 1/4
5766	2 1/2
5996	4
6612	2
7140	2 1/4

Well Bearcat et al Guiting Power

Tallied By J. Sinclair

Date 6/27/79

Make British steel Size 13 3/8" Weight 61#

Grade K-55 Threads

Buttress Range

Sheet 1 of 1

No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
1	29 88	11		21		31		41		51	
2	31 83	12		22		32		42		52	
3	31 19	13		23		33		43		53	
4	29 89	14		24		34		44		54	
5	32 16	15		25		35		45		55	
6	31 99	16		26		36		46		56	
7	31 44	17		27		37		47		57	
8	32 65	18		28		38		48		58	
9	29 47	19		29		39		49		59	
10	31 70	20		30		40		50		60	
A	312 20	B		C		D		E		F	
61		71		81		91		A	Casing	312 20	
62		72		82		92		B	Float shoe	2 70	
63		73		83		93		C	Float collar	2 05	
64		74		84		94		D			
65		75		85		95		E			
66		76		86		96		F			
67		77		87		97		G			
68		78		88		98		H			
69		79		89		99		I			
70		80		90		100		J			
G		H		I		J		TOTAL:		316 95	

DETAILS OF FITTINGS AND CEMENTING: Ran Baker float shoe, float collar (top first joint) and 3 centralizers

Stick-up	4 00
K.B. to Shoe	312 95

(1, 3 & 5 joints) ran 10 bbls, CW100 preflush ahead, Cemented with 419 sacks Class "B" bulk cement plus 3% CaCl<sub>2</sub> (15.6 slurry) casing landed @ 312.95 ft. K.B. Plug down 9:45 p.m. June 27, 1979. 20 bbls. cement returns.

SURFACE CASING RECORD

SIZE & TYPE OF CASING: 13 3/8" x 61# K-55 new buttress  
NO. OF JOINTS ON LEASE: 40  
NO. OF JOINTS USED: 10  
REMAINING JOINTS: 30 (shipped to Kenting yard in Nottingham)  
TIME CASING STARTED IN HOLE: 5:30 p.m. June 27, 1979  
TIME FINISHED RUNNING CASING: 8:00 p.m. June 27, 1979  
POWER TONGS: Weatherford/Lamb, Great Yarmouth  
CIRCULATED CASING: 15 mins. with drilling mud

Total casing run	312.20 ft.
Plus float shoe	2.70 ft.
Total	314.90 ft.
Plus float collar	2.05 ft.
Total	316.95 ft.
Less amount of stick-up	4.00 ft.
Casing landed	312.95 ft. K.B.
K.B. to ground	14.10 ft.
Amount of casing in hole	298.85 ft.

SURFACE CASING FLOAT EQUIPMENT

FLOAT SHOE: 13 3/8" Baker float shoe on shoe joint  
FLOAT COLLAR: 13 3/8" Baker float collar with automatic fill-up on top of first joint  
CENTRALIZERS: 3 Baker centralizers - one centralizer each on 1, 3 & 5 joints

SURFACE CEMENTING RECORD

CEMENTING COMPANY: Dowell Schlumberger, Nottingham  
TOTAL CEMENT USED: 419 sacks Class "B" bulk cement  
CALCIUM CHLORIDE: 3%  
PREFLUSH: 10 barrels of CW100 wash ahead at 8:30 p.m.  
June 27, 1979  
  
TIME STARTED MIXING  
CEMENT: 8:40 p.m.  
  
TIME FINISHED MIXING  
CEMENT: 9:20 p.m.  
  
SLURRY WEIGHT: 15.6  
  
TIME STARTED PUMP  
PLUG DOWN: 9:30 p.m.  
  
TIME PLUG ON BOTTOM: 9:45 p.m.  
  
DISPLACEMENT FLUID USED: 42.3 barrels mud  
  
DEPTH STOP PLUG: 279 ft.  
  
CEMENT IN PIPE: 34 ft.  
  
PLUG BUMP PRESSURE: 1000 p.s.i.  
  
WAS PRESSURE LEFT ON?: Yes - 5 minutes  
  
BLEED BACK: 20 barrels cement returns  
  
DID FLOAT HOLD?: Yes  
  
REMARKS: Plug down 9:45 p.m. June 27, 1979  
Mud properties: Weight 8.4  
Viscosity 100+  
Tore out 12" B.O.P. stack  
Set 9 5/8" slips 4:45 p.m. July 14, 1979

BEARCAT EXPLORATIONS (U.K.) LTD.

Well Bearcat et al Guiting Power

Tallied By J. Sinclair

Date 7/13/79

Make British steel Size 9 5/8" Weight 36# Grade JE Threads 8 Round Range Sheet 1 of 1

No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
1	38 16	11	39 11	21	39 13	31	39 06	41	39 12	51	39 13
2	37 64	12	39 10	22	39 08	32	39 02	42	39 05	52	38 31
3	39 13	13	39 07	23	39 06	33	39 07	43	39 13	53	39 10
4	39 07	14	39 11	24	39 13	34	39 12	44	39 11	54	39 05
5	39 12	15	39 00	25	39 13	35	39 09	45	39 12	55	39 09
6	39 12	16	39 12	26	39 12	36	39 13	46	39 03	56	39 16
7	39 13	17	39 14	27	38 23	37	39 10	47	39 15	57	39 15
8	39 08	18	39 12	28	38 90	38	39 05	48	39 11	58	39 16
9	39 10	19	39 13	29	39 09	39	39 12	49	39 06	59	39 05
10	39 11	20	39 13	30	39 14	40	39 14	50	39 12	60	39 16
A	388 66	B	391 03	C	390 01	D	390 90	E	391 00	F	390 36
61	39 10	71	39 11	81	38 96	91		A		388 66	
62	39 12	72	39 12	82	39 07	92		B		391 03	
63	39 09	73	39 13	83	39 13	93		C		390 01	
64	37 18	74	39 10	84	39 12	94		D		390 90	
65	39 14	75	39 09	85	39 11	95		E		391 00	
66	39 10	76	39 13	86	39 08	96		F		390 36	
67	39 13	77	39 08	87	39 10	97		G		388 85	
68	39 14	78	38 96	88	39 12	98		H		389 92	
69	39 16	79	38 09	89		99		I		312 69	
70	38 69	80	39 11	90		100		J	Float shoe & collar	4 46	
G	388 35	H	389 92	I	312 69	J		TOTAL:		3437 88	
								Stick-up'		12 15	
								<del>XXXXXXXXXX</del>			
								K.B. to Shoe		3425 73	

DETAILS OF FITTINGS AND CEMENTING: Ran Baker float shoe

and float collar (top 2nd joint) 10 Weatherford

centralizers (1-10 joints) Ran 10 bbls spacer 1000 & 6.5 sks barite ahead. Cemented

from 3425-2425 ft. with 462.4 sks Class "G" bulk cement and 92.4 gals. D-80 and 69.3 gals.

D-73 and 10 gals. D-47 (15.6 slurry) Casing landed @ 3425.73 ft K.B. Plug down 11:45 p.m.

July 13/79

INTERMEDIATE CASING RECORD

SIZE & TYPE OF CASING: 9 5/8" x 36# JE 8 Round thread new British steel casing

NUMBER OF JOINTS ON LEASE: 103

NUMBER OF JOINTS USED: 88

REMAINING JOINTS: 15 plus cut-off joint (shipped to Kenting yard in Nottingham - 3 joints of the 15 damaged)

TIME CASING STARTED IN HOLE: 10:00 a.m. July 13, 1979

TIME FINISHED RUNNING CASING: 6:45 p.m. July 13, 1979

POWER TONGS: Weatherford/Lamb

CIRCULATED CASING: 1 3/4 hours

Total casing run	3433.42 ft.
Plus float shoe	2.58 ft.
Total	3436.00 ft.
Plus float collar	1.88 ft.
Total	3437.88 ft.
Less amount of stick-up	12.15 ft.
Casing landed	3425.73 ft. K.B.
K.B. to ground	14.10 ft.
Amount of casing in hole	3411.63 ft.

INTERMEDIATE CASING FLOAT EQUIPMENT

FLOAT SHOE: 9 5/8" Baker float shoe on shoe joint

FLOAT COLLAR: 9 5/8" Baker float collar with automatic fill-up on top of second joint

CENTRALIZERS: 10 Weatherford/Lamb centralizers - one centralizer each with stop collar in middle of 1 & 2 joints. One centralizer each over casing collar on top of joints 3 - 10.

INTERMEDIATE CEMENTING RECORD

CEMENTING COMPANY: Dowell Schlumberger, Nottingham

TOTAL CEMENT USED: 462.4 sacks Class "G" bulk cement

CHEMICALS USED: 92.4 gals. D-80 (Dispersent)  
69.3 gals. D-73 (Fluid loss)  
10.0 gals. D-47 (Defoamer)

PREFLUSH: Ran 10 barrels of spacer 1000 and 6.5 sacks  
of barite ahead, at 8:38 p.m. July 13, 1979.

TIME STARTED MIXING  
CEMENT: 8:50 p.m.

TIME FINISHED MIXING  
CEMENT: 9:40 p.m.

SLURRY WEIGHT: 15.6

TIME STARTED PUMP  
PLUG DOWN: 9:40 p.m.

TIME PLUG ON BOTTOM: 11:45 p.m. July 13, 1979

DISPLACEMENT FLUID  
USED: 258 barrels drilling mud

DEPTH STOP PLUG: 3344.74 ft.

CEMENT IN PIPE: 80.26 ft.

PLUG BUMP PRESSURE: 1000 p.s.i.

WAS PRESSURE LEFT ON?: Yes - 10 minutes

BLEED BACK: Nil

DID FLOAT HOLD?: Yes

REMARKS: Cemented casing from 3425 - 2425 ft. (1000 ft.  
anchor)  
Plug down 11:45 p.m. July 13, 1979  
Mud properties: Weight 9.5  
Viscosity 44

CHRONOLOGICAL DRILLING REPORT

<u>DATE</u>	<u>REMARKS (8:00 a.m. status)</u>
6/13/79	Loading rig at Nottingham to move to Guiting Power
6/14/79	Unloading rig on location at Guiting Power
6/15/79	Unloading trucks and rigging up
6/16/79	Rigging up
6/17/79	Rigging up to drill rathole
6/18/79	Drilled rathole and mousehole - spudded 6:00 a.m. June 18, 1979 - lost circulation at 27 ft. (1 ft. below conductor pipe). Waiting on water at 8:00 a.m.
6/19/79	Waiting on water - lost circulation, ran lost circulation cement plugs Nos. 1 & 2, depth 108 ft.
6/20/79	Waiting on water - lost circulation depth 292 ft.
6/21/79	Waiting on water - lost circulation - depth 155 ft. Reaming out from 12 1/4" to 17 1/2" (no returns). Ran 50 bbls. lost circulation gel plug (no returns).
6/22/79	Waiting on cement - ran lost circulation cement plugs Nos. 3-5.
6/23/79	Waiting on cement - ran lost circulation cement plugs Nos. 6-8.
6/24/79	Tripping to ream 12 1/4" - ran lost circulation plug No. 9 - depth 196 ft.
6/25/79	Waiting on water - reaming out cement plugs with 12 1/4" bit - depth 259 ft.
6/26/79	Waiting on water - reamed out cement and reached original total depth of 292 ft. Drilled new 12 1/4" hole from 292 - 296 ft.
6/27/79	Waiting on water to run surface casing. Reamed and drilled to 313 ft. with 17 1/2" bit.
6/28/79	Waiting on cement - ran 10 joints of 13 3/8" x 61# K-55 new buttress casing with Baker float shoe, float collar and three centralizers (1, 3 & 5 joints) cemented with 419 sacks Class "B" bulk cement plus 3% CaCl <sub>2</sub> . Casing landed at 312.95 ft. K.B. Plug down 9:45 p.m. June 27, 1979. 20 bbls cement returns.

6/29/79 Nippling up B.O.P.'s

6/30/79 Drilling 12 1/4" hole at 408 ft. - under surface 9:45 p.m.  
July 29, 1979. Ran formation leak-off test at 326 ft.

7/1/79 Drilling 12 1/4" hole at 979 ft.

7/2/79 Drilling 12 1/4" hole at 1753 ft.

7/3/79 Drilling 12 1/4" hole at 1895 ft. Tripped bit #2 -  
reamed back to bottom from 1143 - 1815 (681 ft. fill)  
11 1/2 hrs. with bit #3

7/4/79 Drilling 12 1/4" hole at 2249 ft.

7/5/79 Drilling 12 1/4" hole at 2370 ft. Tripped bit #3 - reamed  
back to bottom from 1940 - 2288 (348 ft. fill) 4 hrs. with  
bit #4

7/6/79 Drilling 12 1/4" hole at 2250 ft. - drilling weight slacked  
off for deviation control

7/7/79 Drilling 12 1/4" hole at 2655 ft. - tripping bit #4 - reamed  
30 ft. fill with bit #5 controlling deviation - 15,000 lbs.  
on bit

7/8/79 Drilling 12 1/4" hole @ 2828 ft.

7/9/79 Drilling 12 1/4" hole @ 2982 ft. - tripped bit #5 - no fill  
Running in with bit #6

7/10/79 Drilling 12 1/4" hole @ 3127 ft.

7/11/79 Drilling 12 1/4" hole @ 3267 ft.

7/12/79 Tripping out to log @ 3425 ft.

7/13/79 Rigging up to run intermediate casing. Ran Schlumberger Dual  
Induction Laterolog, Integrated Sonic Log and Compensated  
Neutron-Formation Density log

7/14/79 Nippling up intermediate casing. Ran 88 joints of 9 5/8" x 36#  
8 Round JE new casing. Cemented with 462.4 sacks Class "G"  
bulk cement and 92.4 gals. D-80 and 69.3 gals. D-73 and 10 gals.  
D-47 casing. Landed @ 3425.73 ft. K.B. Plug down 11:45 p.m.  
July 14, 1979. Cut casing

7/15/79 Nippling up 10" B.O.P.'s

7/16/79 Drilling 8 1/2" hole @ 3455 ft. - ran formation leak-off test

7/17/79 Tripping in with core barrel @ 3586 ft. - I.G.S. took over rig costs to cut one 60 ft. core

7/18/79 Drilling 8 1/2" hole @ 3759 ft. Cut Core #1 - 3586 - 3640 ft. Cut 54 ft. Recovered 54 ft.

7/19/79 Tripping bit #10 @ 3988 ft.

7/20/79 Drilling 8 1/2" hole @ 4265 ft. - reamed slight undergaged hole with bits 11 & 12

7/21/79 Drilling 8 1/2" hole @ 4469 ft.

7/22/79 Drilling 8 1/2" hole @ 4555 ft. - reamed undergaged hole (1/2") with bit #14

7/23/79 Tripping bit #14 @ 4960 ft.

7/24/79 Work stuck core barrel @ 3953 ft. - stuck core barrel while tripping in to cut core #2 @ 5137 ft. (assumed 3 stabilizers on core barrel caused problem) I.G.S. took over rig and rig costs @ 12:45 a.m. (0:45 hrs.) July 24, 1979 to cut one 60 ft. core @ 5137 ft. (core #2)

7/25/79 Drilling 8 1/2" hole @ 5148 ft. - attempted to cut core #2 @ 5137 ft. - circ. and worked stuck core barrel @ 3953 ft. - mixed B-Free, diesel, barite and water - spotted around core barrel - core barrel free @ 11:15 p.m. (23:15 hrs.) July 25, 1979 - pulled out of hole - went back to drilling (did not attempt second run at cutting core #2 due to full diameter stabilizers on core barrel (I.G.S. released of rig and rig costs @ 7:00 a.m. July 25, 1979)

7/26/79 Drilling 8 1/2" hole @ 5370 ft.

7/27/79 Drilling 8 1/2" hole @ 5766 ft.

7/28/79 Drilling 8 1/2" hole @ 5999 ft.

7/29/79 Drilling 8 1/2" hole @ 6307 ft.

7/30/79 Tripping in with bit #19 @ 6612 ft.

7/31/79 Drilling 8 1/2" hole @ 6740 ft.

8/1/79 Drilling 8 1/2" hole @ 6907 ft.

8/2/79 Drilling 8 1/2" hole @ 7080 ft.

- 8/3/79 Tripping out @ 7140 ft. to pick up core barrel to cut 30 ft. terminal core. Turned over rig and rig costs to I.G.S. to cut one 30 ft. core @ 6:30 p.m. (18:30 hrs.) August 2, 1979
- 8/4/79 Tripping out with core #2 (7140 - 7170 ft.) Reached total depth of 7170 ft. @ 6:15 a.m. August 4, 1979
- 8/5/79 Tripping out to log @ 7170 ft. - attempted to log immediately after coring - could not get below 7100 ft. - tripped in and reamed rathole - conditioned hole to log  
Core #2 - 7140 - 7170 Cut 30 ft. Recovered 28.8 ft.
- 8/6/79 Tripping in to abandon hole, ran Schlumberger DILL-Sonic Log, CNL/FDC - GR - Caliper Log, Dipmeter and Velocity Survey
- 8/7/79 Ran abandonment plugs  
Rig released 3:30 a.m. August 7, 1979  
Cut casing off below plow depth and welded on steel plate

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ...1... DATE: ...June 14, 1979..
WELL NAME: ..Bearcat et al Guiting Power..... RIG NO: ..Kenting #12....
DEPTH AT 8.00 AM: ..... PROGRESS: .....
OPERATION: ...Unloading trucks on location at Guiting Power.....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..... LINER SIZE: ..... PUMP PRESSURE: .....psi

MUD: WT ..... VIS. .... W.L. .... PH ..... PV ..... YP .....
GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....
Reaming ..... Repairs ..... Wait on Cement .....
Tripping ..... RS & BOP ..... Wait on Water .....
Other: Load trucks at Nottingham and travel to Guiting Power: 16
Wait on daylight: 8

REMARKS: .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .....2..... DATE: ...June 15, 1979.....

WELL NAME: ..Bearcat et al Guiting Power..... RIG NO: Kenting #12.....

DEPTH AT 8.00 AM: ..... PROGRESS: .....

OPERATION: ....Rigging up.....

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..... LINER SIZE: ..... PUMP PRESSURE: .....psi

MUD: WT ..... VIS. .... W.L. .... PH ..... PV ..... YP .....

GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....

Reaming ..... Repairs ..... Wait on Cement .....

Tripping ..... RS & BOP ..... Wait on Water .....

Other: ..Spot rig and unload trucks.- 16.....

..... Wait on daylight.- 8.....

REMARKS: .....

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BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 3 DATE: June 16, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: PROGRESS:
OPERATION: Rigging up

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES:

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP Wait on Water
Other: Unload trucks - 12
Rigging up rig - 12

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 4 DATE: June 17, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: PROGRESS:
OPERATION: Rigging up

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES: Spud.mud.(R).8.sks, IDFLQ.8.sks, Caustic.2.tins

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP Wait on Water
Other: Rigging up rig - 24

REMARKS: Mix mud to drill rathole and mousehole

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..5..... DATE: ..June 18, 1979.....
WELL NAME: ..Bearcat et al Guiting Power..... RIG NO: Kenting #12.....
DEPTH AT 8.00 AM: ..27 ft..... PROGRESS: .....10 ft.....
OPERATION: ..Waiting on water - lost circulation.....

BIT NO: ..1A..... SIZE: ..12 1/4"..... TYPE: M44N.....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet .1.... HRS 1/4... RPM 100... WT ALL... COND .....
BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..58..... LINER SIZE: .....7"..... PUMP PRESSURE: .....950.....psi

MUD: WT ..... VIS. .... W.L. .... PH ..... PV ..... YP .....
GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling 1/4 ..... Surveys ..... Cut/slip .....
Reaming ..... Repairs ..... Wait on Cement .....
Tripping ..... RS & BOP ..... Wait on Water 1 3/4 .....
Other: Rigging up - 11 ..... Drill rathole - 5 ..... Drill mousehole - 6 .....

REMARKS: ..Spudded June 18, 1979 (6:00 a.m.)..... K.B. to Grd. 14.10 ft.
..... 20" conductor pipe set @ 26 ft. K.B. (12 ft. below ground)
..... Lost circulation @ 27 ft. - approx, 240 bbls. drilling mud lost
..... to formation.....

BEARCAT EXPLORATIONS (UK) LIMITED

DAJLY DRILLING REPORT

REPORT NO: 6 DATE: June 19, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 108 ft. PROGRESS: 81 ft.
OPERATION: Waiting on water

BIT NO: 1A SIZE: 12 1/4" TYPE: M44N
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet .82 HRS 3.3/4 RPM 100 WT ALL COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 58 LINER SIZE: 7" PUMP PRESSURE: 200 psi

MUD: WT 8.3 VIS. 28 W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES: Cellophane 3 sks

SURVEYS:

TIME BREAKDOWN:

Drilling 3 1/2 Surveys Cut/slip
Reaming Repairs Wait on Cement 12 1/2
Tripping 1 1/2 RS & BOP Wait on Water 5
Other: Run lost circulation cement plugs 1 & 2 - 1 1/2

REMARKS: Drilled with water with partial returns 27 - 108 ft.
Lost circ. Plug #1 - 108-20 ft. with 72.5 sks Class "G" bulk cement plus 2% CaCl2
and 1% cellophane, plug down 5:50 a.m. June 18/79. Felt plug @ 105 ft. K.B.
Lost circ. Plug #2 - 105-20 ft. with 72.5 sks Class "G" bulk cement plus 2% CaCl2
and 1% cellophane. Plug down 11:55 p.m. June 18/79. Felt plug @ 100 ft. K.B.

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 7 DATE: June 20, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 292 ft. PROGRESS: 184 ft.
OPERATION: Waiting on water

BIT NO: 1A SIZE: 12 1/4" TYPE: M44N
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 292 Feet 266 HRS 9 1/4 RPM 150 WT 5000 COND 2-1-1

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 40 LINER SIZE: 5 1/2" PUMP PRESSURE: 50 psi

MUD: WT 7.4 VIS 58 W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES: Gel - 63 sks, Caustic - 3 tins, Medium Mica - 14 sks, Cellophane - 15 sks, wood flakes - 21 sks, nut shells - 8 sks

SURVEYS: 1 1/2 @ 100 ft., 1 1/2 @ 191 ft., misrun @ 290 ft.

TIME BREAKDOWN:

Drilling 5 1/2 Surveys 3/4 Cut/slip
Reaming Repairs Wait on Cement
Tripping 1 3/4 RS & BOP Wait on Water 9 3/4
Other: Mix lost circ. material - 6 1/4

REMARKS: Drilled blind (no returns) from 108 - 292 ft. Ran lost circ, gel Plug #1
292 - 26 ft. Spotted dry lost circ. material in top of hole - pumped 50 bbls. gel
and lost circ. material from top of hole - no returns

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 8 ..... DATE: June 21, 1979 .....  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: Kenting #12 .....  
 DEPTH AT 8.00 AM: 155 ft. .... PROGRESS: 129 ft. reamed .....  
 OPERATION: ..Waiting on water .....

BIT NO: 2A ..... SIZE: 17 1/2" ..... TYPE: S4T .....  
 REAM: Depth Out ..... Feet 129 HRS 3 ..... RPM 180 WT 5000 COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: .40 ..... LINER SIZE: .5.1/2" ..... PUMP PRESSURE: .50 ..... psi

MUD: WT water VIS. .... W.L. .... PH .... PV .... YP .....  
 GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: Gel - 37 sks, spud mud (R) - 1 sk, wood flakes - 20 sks, .....  
 cellophane - 40 sks, Mica - 22 sks, nut shells - 8 sks .....

SURVEYS: .....  
 .....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....  
 Reaming ..... 3 ..... Repairs ..... Wait on Cement .....  
 Tripping ..... 1/4 ..... RS & BOP ..... Wait on Water 16 3/4 .....  
 Other: Mix mud and lost circ. material - pump down hole and spot - 3 1/2 .....  
 Make up 17 1/2" bit - 1/2 .....

REMARKS: Reamed 17 1/2" hole blind (no returns) 26-155 ft. Ran lost circulation  
 gel plug #2 @ 108 ft. Spotted spud mud (R) and lost circ. material (50 bbls.) -  
 no returns .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 9 ..... DATE: ..... June 22, 1979 .....  
 WELL NAME: .Bearcat.et.al.Guiting.Power..... RIG NO: ..Kenting.#12....  
 DEPTH AT 8.00 AM: .243.ft..... PROGRESS: ...88.ft.reamed.....  
 OPERATION: ..Wait.on.cement.....

BIT NO: .....2A..... SIZE: ..17.1/2".... TYPE: ..S4T.....  
 REAM: Depth Out .243.. Feet .217.. HRS 5.3/4.RPM .180.. WT ..500Q COND .1-1-1  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: .50..... LINER SIZE: 5.1/2".... PUMP PRESSURE: ..50.....psi

MUD: WT water... VIS. .... W.L. .... PH .... PV .... YP .....  
 GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....CaCl<sub>2</sub> - 10 sks.....

SURVEYS: .....

TIME BREAKDOWN:

Drilling	Surveys	Cut/slip	
Reaming	Repairs	Wait on Cement	12 1/2
Tripping	RS & BOP	Wait on Water	3 3/4
Other:	Plug back - 3		
	Tag cement plugs - 1/2		

REMARKS: Lost circ. cement plug #3 - 252-202 ft. with 72.6 sks Class "G" bulk cement,  
 plus 3% CaCl<sub>2</sub> and 1% cellophane. Plug down 5:30 p.m. June 21/79. Felt plug @ 209 ft. K.B.  
 Lost circ. cement plug #4 - 209-109 ft. with 145 sks Class "G" bulk cement plus 3% CaCl<sub>2</sub>  
 and 1% cellophane. Plug down 11:30 p.m. June 21/79. Felt plug @ 147 ft. K.B.  
 Lost circ. cement plug #5 - 147-20 ft. with 223 sks Class "G" bulk cement plus 2% CaCl<sub>2</sub>  
 and 1% cellophane. Plug down 7:15 a.m. June 22/79

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 10 DATE: June 23, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 243 ft PROGRESS: nil
OPERATION: Wait on cement

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES: CaCl2 - 5 sks, caustic - 1 tin, spud mud - 3 sks, cellophane - 79 sks,
wood flakes - 30 sks

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip
Reaming Repairs Wait on Cement 21 3/4
Tripping RS & BOP Wait on Water
Other: Run lost circ. plugs - 2 1/4

REMARKS: Felt lost circ. cement plug #5 @ 127 ft. K.B.
Lost circ. cement plug #6 - 127-20 ft. with 158 sks Class "G" bulk cement plus 3%
CaCl2 and 1% cellophane. Plug down 1:30 p.m. June 22/79. Felt plug @ 70 ft. K.B.
Lost circ. cement plug #7 - 70-20 ft. with 72 sks Class "G" bulk cement plus 3%
CaCl2 and 1% cellophane. Plug down 8:00 p.m. June 22/79. Felt plug @ 49 ft. K.B.
Lost circ. cement plug #8 - 49-20 ft. with 47 sks Class "G" bulk cement plus 3%
CaCl2 and 1% cellophane. Plug down 11:30 p.m. June 22/79. Felt plug @ 10 ft. K.B.

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 11 DATE: June 24, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12...  
 DEPTH AT 8.00 AM: 232 PROGRESS: nil  
 OPERATION: Tripping

BIT NO: 3A SIZE: 12 1/4" TYPE: S44  
 REAM: Depth Out 232 Feet 222 HRS 8 RPM 100 WT 4000 COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: 2ARR SIZE: 17 1/2" TYPE: S4T  
 REAM: Depth Out 232 Feet 222 HRS 8 3/4 RPM 100 WT 4000 COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 40 LINER SIZE: 7" PUMP PRESSURE: psi

MUD: WT water VIS. W.L. PH PV YP  
 GELS % SOLIDS F.C.

MUD ADDITIVES: Spud mud (R) - 1 sk, CaCl<sub>2</sub> - 2 sks, Mica - 5 sks, wood flakes - 5 sks,  
 cellophane - 5 sks

SURVEYS: 1 1/4" @ 108 ft., 1 1/4" @ 195 ft.

TIME BREAKDOWN:

Drilling Surveys 1/2 Cut/slip  
 Reaming 16 3/4 Repairs Wait on Cement 3  
 Tripping 2 1/4 RS & BOP Wait on Water  
 Other: Mix lost circ. material - 1  
 Plug back - 1/2

REMARKS: Reamed out cement plugs with 12 1/4" bit to 232 ft. Lost circulation @ 108 ft.  
 (partial returns). Reamed out cement plugs with 17 1/2" bit to 232 ft (partial returns).  
 Lost circ. cement plug #9 - 151-20 ft. with 225 sks Class "G" bulk cement plus 3% CaCl<sub>2</sub>  
 Plug down 4:15 a.m. June 24/79. Felt plug @ 196 ft. K.B. (plug dropped)

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ...12... DATE: ..June.25..1979...
WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...
DEPTH AT 8.00 AM: .259 ft... PROGRESS: ...nil...
OPERATION: ....Waiting on water.....

BIT NO:3ARR... SIZE: 12.1/4"... TYPE: ...S44...
REAM: Depth Out .259.. Feet .63... HRS 1.1/4.RPM .100.. WT 4000.. COND .....
DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: ...30... LINER SIZE: ...7"... PUMP PRESSURE: .....psi

MUD: WT water VIS. .... W.L. .... PH .... PV .... YP ....
GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: ...Gel.-.30.sks, caustic -.1.tin, cellophane.-.1.sk, wood flakes.- 5 sks
nut shells - 1 sk.....

SURVEYS: .....
.....

TIME BREAKDOWN:
Drilling ..... Surveys ..... Cut/slip .....
Reaming ..1 1/4... Repairs ..... Wait on Cement .....
Tripping ..1 3/4... RS & BOP ..... Wait on Water ..20 1/2...
Other: ..Mix mud and lost circ. material - 1/2.....

REMARKS: ..Reamed out cement plug #9 and reaming hole back to original 12.1/4" depth
of 292 ft - reaming blind (no returns).....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .....13..... DATE: ..June 26, 1979....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ..Kenting #12...  
 DEPTH AT 8.00 AM: ...296..... PROGRESS: ...4' drilled.....  
 OPERATION: ..Waiting on water.....

BIT NO: 3ARR..... SIZE: 12 1/4"..... TYPE: ..S44.....  
 REAM: Depth Out 292.. Feet 33... HRS 2 1/4 RPM 100... WT 4000. COND .....  
 DRILL: Depth Out 296.. Feet 4... HRS 1/2 RPM 120... WT 4000. COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ...50..... LINER SIZE: ..7"..... PUMP PRESSURE: .....200...psi

MUD: WT water VIS. .... W.L. .... PH .... PV .... YP .....  
 GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: ..Gel - 35 sks, caustic - 1 tin, mica - 9 sks, cellophane - 9 sks,  
 wood flakes - 12 sks, nut shells - 9 sks.....

SURVEYS: ..20 @ 295 ft.....

TIME BREAKDOWN:  
 Drilling 1/2..... Surveys 1/4..... Cut/slip .....  
 Reaming 2 1/4..... Repairs ..... Wait on Cement .....  
 Tripping 1..... RS & BOP ..... Wait on Water ...20.....  
 Other: .....

REMARKS: Reamed 12 1/4" hole from 259 - 292 ft. back to original depth of 292 ft.  
 (no returns) drilled ahead with 12 1/4" to 296 ft (no returns).....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..14..... DATE: ...June 27, 1979...  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: ..313..... PROGRESS: ..17.....  
 OPERATION: ..Waiting on water.....

BIT NO: ..2ARR..... SIZE: ..17 1/2"..... TYPE: ..S4T.....  
 REAM: Depth Out 296... Feet 105... HRS .....RPM 110... WT 4000... COND .....  
 DRILL: Depth Out 313... Feet 17... HRS 1 3/4... RPM 110... WT 4/6000... COND ..1-1-I

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: ....50..... LINER SIZE: ...7".... PUMP PRESSURE: .100.....psi

MUD: WT .water.. VIS. .... W.L. .... PH ..... PV ..... YP .....  
 GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....

SURVEYS: ..... 2<sup>o</sup> @ 294 ft.....

TIME BREAKDOWN:

Drilling 1 3/4..... Surveys 1/4..... Cut/slip .....  
 Reaming 2..... Repairs ..... Wait on Cement .....  
 Tripping 3/4..... RS & BOP ..... Wait on Water 19 1/4...  
 Other: .....

REMARKS: ..Reamed 17 1/2" hole from 191 - 296 ft. (no returns). Drilled 17 1/2"  
 from 296 - 313 ft. (no returns).....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..15..... DATE: ...June.28,.1979...
WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting.#12...
DEPTH AT 8.00 AM: .313..... PROGRESS: nil.....
OPERATION: .. Wait on cement.....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....
REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....
DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..... LINER SIZE: ..... PUMP PRESSURE: .....psi

MUD: WT ..... VIS. .... W.L. .... PH ..... PV ..... YP .....
GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .. Gel. - 90. sks., caustic. - 2. tins.....

SURVEYS: .....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....
Reaming ..... Repairs ..... Wait on Cement 10 1/4...
Tripping 1 1/4.... RS & BOP ..... Wait on Water 2 1/2...
Other: Mix mud - 3 1/2, circ.-1/2, rig to run casing - 1 3/4, run 13 3/8"....
surface casing - 2 1/2, cement casing - 1 3/4.....

REMARKS: Ran 10 joints of 13 3/8" x 61# K-55 new buttress casing with Baker float shoe,
float collar and three centralizers (1,3,5 joints). Cemented with 419 sks Class "B" bulk
cement plus 3% CaCl2. Casing landed at 312.95 ft. K.B. Plug down 9:45 p.m. June 27, 1979
20 bbls, cement returns.....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 16 DATE: June 29, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 313 PROGRESS: nil
OPERATION: Nipple up surface casing

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES:

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip
Reaming Repairs Wait on Cement 13.3/4
Tripping RS & BOP Wait on Water
Other: Cut casing and weld on bowl - 5.3/4
Nipple up - 4 1/2

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .17..... DATE: .June.30.,1979.....  
 WELL NAME: .Bearcat et al Guiting Power..... RIG NO: .Kenting #12.....  
 DEPTH AT 8.00 AM: .480..... PROGRESS: .167.....  
 OPERATION: .Drilling 12 1/4".....

BIT NO: .....1..... SIZE: .12 1/4"..... TYPE: S44(3ARR)....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet .167 HRS .9 RPM .80 WT 5000 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: .....62..... LINER SIZE: .....7"..... PUMP PRESSURE: .....700.....psi

MUD: WT 8.6..... VIS. 41..... W.L. 20..... PH 11.5..... PV 14..... YP 20.....  
 GELS .5/7.....% SOLIDS 1.2..... F.C. 3/32.....

MUD ADDITIVES: .KCl - 30 sks, Idflo - 16 sks, spud mud - 2 sks, bicarb - 6 sks.

SURVEYS: ..... 1 3/4<sup>0</sup> @ 326 ft., 3/4<sup>0</sup> @ 420 ft. ....

TIME BREAKDOWN:

Drilling .....9..... Surveys 3/4..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping ....2..... RS & BOP 1/4..... Wait on Water .....  
 Other: Nipple up - 4 3/4, pressure test - 3/4, displace hole - 1/2.....  
 Drill out float, cement and shoe - 5 1/2, Run formation leak-off test - 1/2.....

REMARKS: .Pressure tested blind rams, pipe rams and manifold each to 1000 psi for  
 .10 mins. - held okay. Drilled to 326 ft. (13 ft. below surface casing shoe) and  
 .ran formation leak off test with Dowell - surface pressure at leak off point 190 psi  
 .Formation good for 19.5 PPG mud.....

DAILY DRILLING REPORT

REPORT NO: .....18..... DATE: .....July 1, 1979...  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: 979 PROGRESS: 499  
 OPERATION: Drilling 12 1/4"

BIT NO: .....1..... SIZE: ...12 1/4".... TYPE: ..S44.(3ARR)  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out 670.. Feet 357.. HRS 19 1/2 RPM 80/100 WT 5/10. COND 8-8-1  
BIT NO: .....2..... SIZE: ...12 1/4".... TYPE: S33S  
 REAM: Depth Out ..... Feet 309.. HRS 10 1/2 RPM 85... WT 15/20. COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: ..66..... LINER SIZE: ..7".... PUMP PRESSURE: ..700.....psi

MUD: WT 9.3... VIS. 48... W.L. 14... PH 10.5... PV 10... YP .22...  
 GELS 3/5...% SOLIDS 5.6... F.C. 2/32...

MUD ADDITIVES: ...KCl - 30 sks, spud mud (R) - 16 sks, caustic - 2 tins,  
 ...Idflo - 52 sks

SURVEYS: ...3/4° @ 608 ft., 1/2° @ 825 ft.,

TIME BREAKDOWN:

Drilling ..21..... Surveys 1/2..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping ...1..... RS & BOP 3/4..... Wait on Water .....  
 Other: ..Clean shaker tank - 3/4

REMARKS: ...Slacked off on drilling weight to control possible deviation problems  
 ..... Desilter ..... Desander .....  
 ..... (UF) underflow 9.9 ..... 9.8 .....  
 ..... (OF) overflow 9.2 ..... 9.2 .....  
 ..... GPM 3 ..... 4.5 .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .....19..... DATE: ..July 2, 1979.....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: 1753 PROGRESS: 774  
 OPERATION: Drilling 12 1/4"

BIT NO: .....2..... SIZE: 12 1/4" TYPE: S33S  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 1083 HRS 32 RPM 90 WT 20/25 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..56..... LINER SIZE: ...7" PUMP PRESSURE: ..750.....psi

MUD: WT 9.5 VIS. .42 W.L. 14.5 PH .11 PV .13 YP 22  
 GELS 6/11 % SOLIDS .8.5 F.C. 2/32

MUD ADDITIVES: .Gel. -. 27 sks, Idflo. -. 40 sks, KCl. -. 58 sks, Spud Mud (R) -. 3 sks,  
 .caustic -. 6 tins.

SURVEYS: 1/2° @ 1010, 3/4° @ 1227, 1 3/4° @ 1413, 1 3/4° @ 1505, 1 1/2° @ 1629  
 ..... 1 3/4° @ 1753 .....

TIME BREAKDOWN:

Drilling ..22..... Surveys 1 1/4..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping ..... RS & BOP 3/4..... Wait on Water .....  
 Other: .....

REMARKS: Control drilled to 1000 ft.  
 Desilter Desander  
 UF 10.1 10.0  
 OF 9.5 9.5  
 GPM 3 4

DAILY DRILLING REPORT

REPORT NO: .....20..... DATE: ...July 3, 1979....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: .1895..... PROGRESS: .....142.....  
 OPERATION: Drilling 12 1/4".....

BIT NO: ..2..... SIZE: .12 1/4"..... TYPE: ..S33S.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 1815. Feet .1145. HRS .34. RPM .100. WT 15/20. COND .3-2-1

BIT NO: ..3..... SIZE: .12 1/4"..... TYPE: ..S33S.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet .80.. HRS .3.. RPM .80... WT ...22. COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: .60..... LINER SIZE: .7"..... PUMP PRESSURE: ..850.....psi

MUD: WT .9.5..... VIS. 50..... W.L. .16..... PH .10..... PV 15..... YP .21.....  
 GELS 6/12.....% SOLIDS 8.4..... F.C. 2/32.....

MUD ADDITIVES: ...KCl - 40 sks, Idflo - 15 sks, spud mud (R) - 4 sks, caustic - 2 tins

SURVEYS: ..1 3/4° @ 1815.....

TIME BREAKDOWN:

Drilling .....5..... Surveys ..1/2..... Cut/slip .....  
 Reaming ..11 1/2... Repairs ..... Wait on Cement .....  
 Tripping ...2 1/2... RS & BOP ..... Wait on Water .....  
 Other: ...Circ prior to trip - 1/2, wait on disposal of overflowing mud pits - 4

REMARKS: Reamed 681 ft. of fill from 1134 - 1815 in 11 1/2 hrs, with bit #3.....  
 ..... Located "tip". (dump) to dispose of mud.....

DAILY DRILLING REPORT

REPORT NO: .....21..... DATE: July 4, 1979.....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: 2249 PROGRESS: 334  
 OPERATION: Drilling 12 1/4"

BIT NO: ...3 SIZE: 12 1/4" TYPE: S33S  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 434 HRS 25 1/4 RPM 100 WT 20/25 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ....60 LINER SIZE: 7" PUMP PRESSURE: ...850...psi

MUD: WT 9.3 VIS. 46 W.L. 18 PH 11 PV 15 YP 28  
 GELS 6/17 % SOLIDS 7.0 F.C. 3/32

MUD ADDITIVES: Gel - 20 sks, KCl - 30 sks, Idflo - 25 sks, spud mud (R) - 2 sks.  
 caustic - 3 tins

SURVEYS: 1 3/4<sup>o</sup> @ 1908, 1 3/4<sup>o</sup> @ 2033, 1 3/4<sup>o</sup> @ 2218

TIME BREAKDOWN:

Drilling 22 1/4 Surveys 1 Cut/slip .....  
 Reaming Repairs ..... Wait on Cement .....  
 Tripping RS & BOP 3/4 Wait on Water .....  
 Other: .....

REMARKS: Desilter Desander  
 UF 10.1 10.0  
 OF 9.3 9.3  
 GPM 4.5 3

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 22 DATE: July 5, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 2370 PROGRESS: 121  
 OPERATION: Drilling 12 1/4"

BIT NO: 3 SIZE: 12 1/4" TYPE: S33S  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 2288 Feet 473 HRS 30 1/4 RPM 100 WT 20 COND 4-3-I

BIT NO: 4 SIZE: 12 1/4" TYPE: S44  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 82 HRS 10 1/4 RPM 80 WT 15/20 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: 58 LINER SIZE: 7" PUMP PRESSURE: 900 psi

MUD: WT 9.4 VIS 42 W.L. 17 PH 10 PV 12 YP 20  
 GELS 6/13 % SOLIDS 7.8 F.C. 3/32

MUD ADDITIVES: Gel - 25 sks, KCl - 10 sks, Idflo - 10 sks, soda ash - 2 sks  
 .....caustic - 2 tins

SURVEYS: 20 @ 2288

TIME BREAKDOWN:  
 Drilling 15 1/4 Surveys 1/4 Cut/slip .....  
 Reaming .4 Repairs ..... Wait on Cement .....  
 Tripping 3 1/4 RS & BOP 1/2 Wait on Water .....  
 Other: Set up brakes 3/4

REMARKS: Reamed 348 ft. of fill from 1940 - 2288 in 4 hrs. with bit #4

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..23..... DATE: ..July 6, 1979.....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: .2550..... PROGRESS: ...180.....  
 OPERATION: ..Drilling 12 1/4".....

BIT NO: ...4..... SIZE: 12 1/4"..... TYPE: .S44.....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 262 HRS 31 1/2 RPM 80/120 WT 10/20 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: 120 LINER SIZE: (2) 5 1/2" PUMP PRESSURE: 900 psi

MUD: WT 9.5 VIS. 41 W.L. 25 PH 9.5 PV 13 YP 20  
 GELS 7/11...% SOLIDS 8.4... F.C. 4/32...

MUD ADDITIVES: Spud mud (R) - 2 sks, caustic - 2 tins, KCl - 10 sks, Idflo - 5 sks,  
 soda ash - 2 sks,

SURVEYS: ..30 @ 2374, 30 @ 2405, 2 1/8 @ 2436, 30 @ 2527.....

TIME BREAKDOWN:

Drilling 21 3/4..... Surveys 1 1/2..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping ..... RS & BOP 3/4..... Wait on Water .....  
 Other: .....

REMARKS: Changed 7" liners in pump No. 1 to 5 1/2" liners - put both pumps on hole

Desilter	Desander
UF 10.0	10.0
OF 9.5	9.5
GPM 2.5	2.5

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .....24..... DATE: .. July. 7. 1979.....  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ...Kenting #12...  
 DEPTH AT 8.00 AM: ..2655..... PROGRESS: ..105.....  
 OPERATION: ..Drilling 12 1/4".....

BIT NO: .....4..... SIZE: ..12 1/4"..... TYPE: ..S44.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 2641 Feet 353 HRS 42 3/4 RPM 100 WT 15 COND 6-4-1

BIT NO: .....5..... SIZE: ..12 1/4"..... TYPE: ..S44.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..14... HRS 2 1/2 RPM 100 WT 15 COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..120..... LINER SIZE: (2) .5 1/2 PUMP PRESSURE: .900.....psi

MUD: WT<sup>9</sup>:4..... VIS. 44..... W.L. 15..... PH 9.5..... PV 12..... YP 21.....  
 GELS .5/10...% SOLIDS 7.8..... F.C. 2/32.....

MUD ADDITIVES: .KCl - 42 sks., Idflo - 15 sks., caustic - 2 tins., soda ash - 2 sks.  
 ..... spud mud (R) - 2 sks.....

SURVEYS 3 1/2<sup>0</sup> @ 2589, 3 1/2<sup>0</sup> @ 2620, 3<sup>0</sup> @ 2641

TIME BREAKDOWN:

Drilling 13 3/4..... Surveys 1 1/2..... Cut/slip .....  
 Reaming 1 1/4..... Repairs 3 1/4..... Wait on Cement .....  
 Tripping 3 3/4..... RS & BOP 1/2..... Wait on Water .....  
 Other: .....

REMARKS: Reamed 30 ft. of fill in 1 1/4 hrs. with bit #5  
 Strapped out with bit #4 - strap tally 2043.00  
 board tally 2041.63  
 diff. 1.37 (no corr.)

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: .....25..... DATE: ... July 8, 1979...  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ... Kenting #12...  
 DEPTH AT 8.00 AM: ..2828..... PROGRESS: .....173.....  
 OPERATION: ..Drilling 12 1/4.....

BIT NO: 5..... SIZE: ..12 1/4"..... TYPE: ..S44.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 187... HRS 23 3/4 RPM 120 .. WT 25/30.. COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..120..... LINER SIZE: (2) 5 1/2" PUMP PRESSURE: ..800.....psi

MUD: WT ..9.3... VIS. ..42.... W.L. ..28.... PH 10.5... PV 13..... YP 20.....  
 GELS 7/17...% SOLIDS ..7..... F.C. 4/32.....

MUD ADDITIVES: KCl - 20 sks, caustic - 1 tin, soda ash - 2 sks, spud mud (R) - 2 sks  
 . Idflo - 10 sks, Corr. inhibitor - 5 gals.....

SURVEYS: ..2° @ 2712, 2° @ 2805.....

TIME BREAKDOWN:

Drilling 21 1/4..... Surveys ..1..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping ..... RS & BOP ..1/2..... Wait on Water .....  
 Other: Replace swivel packing - 1 1/4.....

REMARKS: ... Desilter..... Desander.....  
 ..UF 9.9..... 9.8.....  
 ..OF 9.3..... 9.3.....  
 ..GPM 1.5..... 1.5.....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ... 26 ..... DATE: July 9, 1979 .....  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: .. Kenting #12 .....  
 DEPTH AT 8.00 AM: 2982 ..... PROGRESS: ..... 154 .....  
 OPERATION: Drilling 12 1/4" .....

BIT NO: 5 ..... SIZE: 12 1/4" ..... TYPE: S44 .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 2956 Feet 315 HRS 36 RPM 120 WT 25/30 COND 5-2-I  
 BIT NO: ..... 6 ..... SIZE: 12 1/4" ..... TYPE: M44N .....  
 REAM: Depth Out ..... Feet 26 HRS 5 1/2 RPM 70 WT 30 COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: .. 120 ..... LINER SIZE: (2) 5 1/2" PUMP PRESSURE: ..... 800 ..... psi

MUD: WT 9.4... VIS. 40... W.L. 30... PH 10.5... PV 10... YP 20...  
 GELS 4/12...% SOLIDS 7.8... F.C. 4/32

MUD ADDITIVES: ... KCl - 25 sks, caustic - 4 tins, Idflo - 20 sks, soda ash - 4 sks  
 . spud mud (R) - 5 sks  
 SURVEYS: .. 2° @ 2899, 2 1/4° @ 2930 .....

TIME BREAKDOWN:  
 Drilling 17 3/4 ..... Surveys 3/4 ..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping 3 3/4 ..... RS & BOP 1/2 ..... Wait on Water .....  
 Other: .. Clean mud tanks - 1 1/4 .....

REMARKS: ... Held blow out and slow circulation drills - check motor kills  
 No fill tripping in with bit #6 .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 27 ..... DATE: .. July 10, 1979....  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: ... Kenting #12...  
 DEPTH AT 8.00 AM: 3127 ..... PROGRESS: ..... 145 .....  
 OPERATION: Drilling 12 1/4" .....

BIT NO: ..... 6 ..... SIZE: 12 1/4" ..... TYPE: M44N .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 191... HRS 27 1/2... RPM 120... WT .35... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..120..... LINER SIZE: (2) 5 1/2 PUMP PRESSURE: 1200 ..... psi

MUD: WT 9.5 ..... VIS. 45 ..... W.L. 22 ..... PH 10 ..... PV 12 ..... YP 24 .....  
 GELS 8/22 .....% SOLIDS 8.5 ..... F.C. 3/32 .....

MUD ADDITIVES: ..KCl - 30 sks, Gel - 17 sks, soda ash - 2 sks, Idflo - 42 sks, ...  
 ..... corr, inhibitor - 1 gal, caustic - 4 tins.....

SURVEYS: 2 1/4 @ 3053 .....

TIME BREAKDOWN:

Drilling ..... 22 ..... Surveys 1/2 ..... Cut/slip .....  
 Reaming ..... Repairs 1 ..... Wait on Cement .....  
 Tripping ..... RS & BOP 1/2 ..... Wait on Water .....  
 Other: .....

REMARKS: Desilter ..... Desander .....  
 UF 10.1 ..... 9.9 .....  
 OF 9.5 ..... 9.5 .....  
 GPM 2 ..... 2 .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ....28..... DATE: ..July.11.,.1979...  
 WELL NAME: Bearcat et al Guiting Power RIG NO: ..Kenting #12...  
 DEPTH AT 8.00 AM: ..3267..... PROGRESS: ...140.....  
 OPERATION: ..Drilling.12.1/4".....

BIT NO: ....6..... SIZE: 12.1/4"..... TYPE: ..M44N.....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out 3192. Feet .236.. HRS 38.1/4 RPM 120.. WT 35... COND 7-4-I

BIT NO: ...7..... SIZE: ..12.1/4"..... TYPE: ..S44.....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..75.. HRS 7.1/2 RPM ..... WT 30... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS .....RPM ..... WT ..... COND .....

SPM: ..120..... LINER SIZE:(2) 5 1/2" PUMP PRESSURE: ..950.....psi

MUD: WT 9.6..... VIS. 44..... W.L. 16..... PH 10.5..... PV 13..... YP 24.....  
 GELS<sup>6/14</sup>.....% SOLIDS 9.2..... F.C.<sup>3/32</sup>.....

MUD ADDITIVES: .Gel - 15 sks, Idflo - 21 sks, DF Vis - 4 sks, soda ash - 1 sk...  
 caustic - 1 tin.....

SURVEYS: .....  
 .....

TIME BREAKDOWN:  
 Drilling 18.1/4..... Surveys 1/2..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping 4.1/4..... RS & BOP 3/4..... Wait on Water .....  
 Other: .Clean to bottom - 1/4.....

REMARKS: .....  
 .....  
 .....  
 .....  
 .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 29 DATE: July 12, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 3425 PROGRESS: 158  
 OPERATION: Tripping out to log

BIT NO: 7 SIZE: 12 1/4" TYPE: S44  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out 3425 Feet .233 HRS 17.1/4 RPM 80/100 WT .38 COND 5-A-I.

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 120 LINER SIZE: (2)5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.5 VIS. 48 W.L. 16 PH 10.5 PV .16 YP 26  
 GELS 4/19% SOLIDS 8.5 F.C. 2/32

MUD ADDITIVES: KCl - 40 sks, DF Vis - 10 sks, Idflo - 12 sks, caustic - 2 tins,  
 bacteriocide - 10 sks, soda ash - 2 sks, gel - 23 sks, defoamer - 1 sk

SURVEYS: 30 @ 3332, 3 3/4 @ 3425

TIME BREAKDOWN:

Drilling 9 3/4 Surveys 1/2 Cut/slip  
 Reaming 2 Repairs Wait on Cement  
 Tripping 6 3/4 RS & BOP 1/2 Wait on Water  
 Other: circulate to log - 4 1/2

REMARKS: Dummy tripped to log - reamed from 3269 - 3332 (20 ft. fill)

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 30 DATE: July 13, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 3425 PROGRESS:  
 OPERATION: Rigging up to run intermediate casing

<u>BIT NO:</u>	<u>SIZE:</u>	<u>TYPE:</u>					
REAM: Depth Out	Feet	HRS	RPM	WT	COND		
DRILL: Depth Out	Feet	HRS	RPM	WT	COND		
<u>BIT NO:</u>	<u>SIZE:</u>	<u>TYPE:</u>					
REAM: Depth Out	Feet	HRS	RPM	WT	COND		
DRILL: Depth Out	Feet	HRS	RPM	WT	COND		
<u>BIT NO:</u>	<u>SIZE:</u>	<u>TYPE:</u>					
REAM: Depth Out	Feet	HRS	RPM	WT	COND		
DRILL: Depth Out	Feet	HRS	RPM	WT	COND		

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT 9.4 VIS. 44 W.L. 11 PH 9.5 PV 13 YP 25  
 GELS 4/18 % SOLIDS 7.8 F.C. 2/32

MUD ADDITIVES:

SURVEYS:

TIME BREAKDOWN:

Drilling	Surveys	Cut/slip
Reaming	Repairs	Wait on Cement
Tripping	RS & BOP	Wait on Water
Other:	Logging - 12	
	clean fill and circulate - 3 1/4	

REMARKS: Strapped out to log strap 3426.94  
 board 3425.56  
 diff 1.38 (no corr.)

Ran Schlumberger Dual Induction-Laterolog, Integrated Sonic Log, Compensated...  
 Neutron-Formation Density Log Driller T.D. 3425 ft. Schlumberger T.D. 3423.5 ft.

DAILY DRILLING REPORT

REPORT NO: 31 DATE: July 14, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 3425 PROGRESS:  
 OPERATION: Nipple up intermediate casing

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP  
 GELS % SOLIDS F.C.

MUD ADDITIVES:

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip 1  
 Reaming Repairs Wait on Cement  
 Tripping RS & BOP Wait on Water  
 Other: Rig and run 9 5/8" casing - 10 3/4, circ. casing - 1 3/4, cement casing - 3 1/4,  
 rig out cementers - 3/4, tear out 12" BOP's - 3 1/4, cut and bevel casing - 3 1/4

REMARKS: Intermediate casing - ran 88 jts. 9 5/8" x 36# 8 Rd. JE new casing with float shoe, float collar (top 2nd jt.) and 10 centralizers (1-10 jts) cemented from 3425 - 2425 ft with 462.4 sks Class "G" bulk cement and 92.4 gals D-80 and 69.3 gals D-73 and 10 gals D-47, casing landed at 3425.73 ft. K.B. Plug down 11:45 p.m. July 13, 1979  
 Set 9 5/8" slips with Gray Oil Tool @ 4:45 am July 14/79

DAILY DRILLING REPORT

REPORT NO: 32 DATE: July 15, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 3425 PROGRESS:
OPERATION: Nipple up intermediate casing

Table with columns: BIT NO, SIZE, TYPE, REAM: Depth Out, Feet, HRS, RPM, WT, COND, DRILL: Depth Out, Feet, HRS, RPM, WT, COND. Includes three rows of data.

SPM: LINER SIZE: PUMP PRESSURE: psi

MUD: WT VIS. W.L. PH PV YP
GELS % SOLIDS F.C.

MUD ADDITIVES:

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP Wait on Water
Other: Nipple up and pressure test casing hanger - 18
Nipple up BOP's - 6

REMARKS: Casing hanger would not energize on initial test - pulled casing
hanger and changed seals - pressure tested blind rams to 1500 psi for
15 mins. - held okay

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 33 ..... DATE: ... July 16, 1979 ...  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: ... Kenting #12 ...  
 DEPTH AT 8.00 AM: 3455 ..... PROGRESS: ..... 30 .....  
 OPERATION: Drilling 8 1/2" .....

BIT NO: ..... 8 ..... SIZE: 8 1/2" ..... TYPE: M44N .....

REAM: Depth Out	Feet	HRS	RPM	WT	COND
DRILL: Depth Out	Feet	HRS	RPM	WT	COND

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out	Feet	HRS	RPM	WT	COND
DRILL: Depth Out	Feet	HRS	RPM	WT	COND

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out	Feet	HRS	RPM	WT	COND
DRILL: Depth Out	Feet	HRS	RPM	WT	COND

SPM: ..... 60 ..... LINER SIZE: 5 1/2" ..... PUMP PRESSURE: ..... 750 ..... psi

MUD: WT 9.5 VIS 45 W.L. 13 PH 10.5 PV 12 YP 22  
 GELS 4/11 % SOLIDS 8.5 F.C. 2/32

MUD ADDITIVES: Bicarb - 8 sks .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling	1 1/2	Surveys	Cut/slip
Reaming		Repairs	Wait on Cement
Tripping	2 3/4	RS & BOP	Wait on Water

Other: Nipple up BOP's - 5, pressure test - 5 3/4, change hydrill rubber - 1 1/2  
 ..... drill float and shoe - 6 1/2, ran formation leak-off test - 1 .....

REMARKS: Pressure tested blind rams to 1500 psi for 15 mins. - held ok... Pressure  
 tested pipe rams, hydrill and manifold to 1500 psi for 15 mins. - held ok.....  
 Drilled to 3455' (30' below intermediate casing show) and ran formation leak-off  
 test with Dowell .....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 34 ..... DATE: July 17, 1979 .....  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: Kenting #12 .....  
 DEPTH AT 8.00 AM: 3586 ..... PROGRESS: 131 .....  
 OPERATION: Tripping in with core barrel .....

BIT NO: 8 ..... SIZE: 8 1/2" ..... TYPE: M44N .....

REAM: Depth Out	..... Feet	..... HRS	..... RPM	..... WT	..... COND
DRILL: Depth Out	3586 Feet	161 HRS	12 RPM	70 WT	15 COND 6-7-1

BIT NO: 1C ..... SIZE: 8 15/32" ..... TYPE: Diamond .....

REAM: Depth Out	..... Feet	..... HRS	..... RPM	..... WT	..... COND
DRILL: Depth Out	..... Feet	..... HRS	..... RPM	..... WT	..... COND

BIT NO: ..... SIZE: ..... TYPE: .....

REAM: Depth Out	..... Feet	..... HRS	..... RPM	..... WT	..... COND
DRILL: Depth Out	..... Feet	..... HRS	..... RPM	..... WT	..... COND

SPM: 60 ..... LINER SIZE: 5 1/2" ..... PUMP PRESSURE: 750 ..... psi

MUD: WT .9.5.... VIS. .48.... W.L. .7..... PH .10.5... PV .14.... YP .25....  
 GELS .4/14...% SOLIDS .8.5.... F.C. 1/32....

MUD ADDITIVES: KCl - 20 sks, Idflo - 14 sks, bicarb - 4 sks, DF Vis - 2 sks...

SURVEYS: 3<sup>o</sup> @ 3548 .....

TIME BREAKDOWN:

Drilling	10 1/2	Surveys	1/2	Cut/slip	1
Reaming	.....	Repairs	1 1/2	Wait on Cement	.....
Tripping	4 1/2	RS & BOP	3/4	Wait on Water	.....
Other:	Circ to core - 1 1/2, pick up and service core barrel - 3 3/4				

REMARKS: Institute of Geological Sciences (IGS) took over rig and rig costs...  
 @ 9:00 p.m. (21:00 hrs.) July 16, 1979 to cut one 60 ft. core (Core #1) @ 3586 ft.

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 35 DATE: July 18, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12...  
 DEPTH AT 8.00 AM: 3759 PROGRESS: 173  
 OPERATION: Drilling 8 1/2"

BIT NO: 1C SIZE: 8.15/32" TYPE: Diamond...  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out 3640 Feet 54 HRS 8 1/2 RPM 110 WT 20 COND Good

BIT NO: 9 SIZE: 8 1/2" TYPE: SDGH  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet 120 HRS 7 1/4 RPM 70 WT 15 COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 650 psi

MUD: WT 9.2 VIS. 44 W.L. 7 PH 10.5 PV 15 YP 25  
 GELS 6/14 % SOLIDS 6.3 F.C. 1/32

MUD ADDITIVES: DF VIS - 2 sks, Idflo - 20 sks, bacteriocide - 10 Kg

SURVEYS:

TIME BREAKDOWN:  
 Drilling 7 1/2 Surveys Cut/slip  
 Reaming 1/2 Repairs Wait on Cement  
 Tripping 4 1/2 RS & BOP 1/2 Wait on Water  
 Other: coring - 8 1/2, circ, and drop ball - 1/4, recover core - 2

REMARKS: Core #1 - 3586 - 3640, cut 54' recovered 54'  
 IGS released of rig and rig costs 9:00 p.m. (21:00 hrs.) July 17, 1979

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 36 DATE: July 19, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 3988 PROGRESS: 229
OPERATION: Tripping bit #10

BIT NO: 9 SIZE: 8 1/2" TYPE: SDGH

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 3865 Feet .225 HRS 16.1/2 RPM .80 WT .15 COND 5-4-1

BIT NO: 10 SIZE: 8 1/2" TYPE: S44G

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 3988 Feet .123 HRS 9.1/2 RPM .80 WT .20 COND 5-4-1

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1200 psi

MUD: WT 9.2 VIS. 43 W.L. 8.6 PH 10.5 PV 12 YP .20
GELS 4/11 % SOLIDS 6.3 F.C. 1/32

MUD ADDITIVES: DF Vis - 3 sks, Idflo - 4 sks, caustic - 1 sk, KCl - 10 sks

SURVEYS: 2 1/20 @ 3766, 2 1/40 @ 3865

TIME BREAKDOWN:

Drilling 18.3/4 Surveys 1/2 Cut/slip
Reaming Repairs 1/4 Wait on Cement
Tripping 3.3/4 RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 37 DATE: July 20, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 4265 PROGRESS: 277
OPERATION: Drilling 8 1/2"

BIT NO: 11 SIZE: 8 1/2" TYPE: M44NG

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 4181 Feet .193 HRS 10.1/2RPM .80 WT .30 COND .4-4-I

BIT NO: 12 SIZE: 8 1/2" TYPE: M44NG

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet .84 HRS 4.1/4 RPM .70 WT .30 COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.2 VIS 43 W.L. 11 PH 10.5 PV 12 YP 24
GELS 5/12 % SOLIDS 6.3 F.C. 1/32

MUD ADDITIVES: KCl - 10 sks, DF Vis - 3 sks, Idflo - 12 sks, spud mud (R) - 1 sk
caustic - 1 tin, defoamer - 1 sk

SURVEYS: 20 @ 4181

TIME BREAKDOWN:

Drilling 14 3/4 Surveys Cut/slip
Reaming 1 1/4 Repairs Wait on Cement
Tripping 7 1/4 RS & BOP 3/4 Wait on Water
Other:

REMARKS: Reamed slight undergaged hole with bits #11 & 12

DAILY DRILLING REPORT

REPORT NO: ..... 38 ..... DATE: .... July 21, 1979 ..  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: ... Kenting #12 ...  
 DEPTH AT 8.00 AM: 4469 ..... PROGRESS: ..... 204 .....  
 OPERATION: Drilling 8 1/2" .....

BIT NO: ..... 12 ..... SIZE: 8 1/2" ..... TYPE: ..... M44NG .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 4303. Feet 122.. HRS 8 3/4 RPM ...60.. WT ..30.. COND ...7-3-I

BIT NO: ..... 13 ..... SIZE: 8 1/2" ..... TYPE: ..... SDGH .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet 166... HRS 14 1/2 RPM ..55.. WT ..30.. COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..... 60 ..... LINER SIZE: 5 1/2" ..... PUMP PRESSURE: 1000 ..... psi

MUD: WT 9.1 ..... VIS. 41 ..... W.L. 8.0 ..... PH 11.0 ..... PV 13 ..... YP 16 .....  
 GELS 4/10 ..... % SOLIDS 5.6 ..... F.C. 1/32 .....

MUD ADDITIVES: KCl - 10 sks, DF Vis - 5 sks, Idflo - 16 sks, caustic - 2 tins ..  
 inhibitor - 10 gals .....

SURVEYS: ..... 2° @ 4303 .....

TIME BREAKDOWN:  
 Drilling 18 3/4 ..... Surveys 1/4 ..... Cut/slip .....  
 Reaming ..... Repairs 1/2 ..... Wait on Cement .....  
 Tripping 4 ..... RS & BOP 1/2 ..... Wait on Water .....  
 Other: .....

REMARKS: .....

DAILY DRILLING REPORT

REPORT NO: 39 DATE: July 22, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 4555 PROGRESS: 86  
 OPERATION: Drilling 8 1/2"

BIT NO: 13 SIZE: 8 1/2" TYPE: SDGH  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out 4540 Feet 237 HRS 21 1/4 RPM 60 WT 35 COND 8-6-0 (1/2")

BIT NO: 14 SIZE: 8 1/2" TYPE: M44NG  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet 15 HRS 1 1/2 RPM 70 WT 35 COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 58 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.2 VIS. 39 W.L. 5.5 PH 11 PV 11 YP .18  
 GELS 4/10 % SOLIDS 5.0 F.C. 1/32

MUD ADDITIVES: KCl - 5 sks, Idflo - 6 sks

SURVEYS: 2° @ 4540

TIME BREAKDOWN:  
 Drilling 8 1/2 Surveys 1/4 Cut/slip 1  
 Reaming 1 1/4 Repairs 7 1/4 Wait on Cement  
 Tripping 5 1/2 RS & BOP 1/4 Wait on Water  
 Other:

REMARKS: Ream undergaged hole (1/2") with bit #14  
 Strapped out with bit #13 - board tally 4540.00  
 strap tally 4538.21  
 diff 1.79 (no corr.)

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 40 DATE: July 23, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 4960 PROGRESS: 405
OPERATION: Tripping bit #14

BIT NO: 14 SIZE: 8 1/2" TYPE: M44NG
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 4960 Feet 420 HRS 24 RPM 55 WT 40 COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 8.9 VIS 40 W.L. 8 PH 10.5 PV 11 YP 18
GELS 4/10 % SOLIDS 4.2 F.C. 1/32

MUD ADDITIVES: KC1 - 15 sks, DF Vis - 4 sks, Idflo - 16 sks, spud mud (R) - 2 sks
caustic - 1 tin

SURVEYS:

TIME BREAKDOWN:

Drilling 22 1/2 Surveys 1/4 Cut/slip
Reaming Repairs Wait on Cement
Tripping 3/4 RS & BOP 1/2 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 41 ..... DATE: July 24, 1979  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 5137 ..... PROGRESS: 177  
 OPERATION: Work stuck core barrel

BIT NO: 14 ..... SIZE: 8 1/2" ..... TYPE: M44NG  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND  
 DRILL: Depth Out 4960. Feet ..420. HRS .24... RPM .55... WT .40... COND .8-8-1

BIT NO: 15 ..... SIZE: 8 1/2" ..... TYPE: M44NG  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND  
 DRILL: Depth Out 5137. Feet ..177. HRS 11... RPM .60/80 WT .40... COND .8-6-1

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND

SPM: 60 ..... LINER SIZE: 5 1/2" ..... PUMP PRESSURE: 800 ..... psi

MUD: WT 9.0 ..... VIS. 48 ..... W.L. 6.8 ..... PH 10 ..... PV 14 ..... YP 25  
 GELS 5/11 ..... % SOLIDS 5.0 ..... F.C. 1/32

MUD ADDITIVES: KCl - 10 sks, DF Vis - 6 sks, Idflo - 5 sks, defoamer - 5 gals  
 spud mud (R) - 7 sks

SURVEYS: 2° @ 4960, 2 1/4° @ 5137

TIME BREAKDOWN:

Drilling ..11..... Surveys ..... Cut/slip .....  
 Reaming ..... 3/4.. Repairs ..... Wait on Cement .....  
 Tripping ..... 9 ..... RS & BOP 1/2 ..... Wait on Water .....  
 Other: ..Circ. to core. - 1 3/4, pick up core barrel - 3/4, change shaker screen - 1/4

REMARKS: ..IGS took over rig and rig costs at 12:45 a.m. (0:45 hrs.) July 24, 1979  
 .. to cut one 60 ft. core (Core #2) @ 5137 ft.  
 .. Stuck in hole with core barrel @ 3953 ft. while tripping in to cut core #2 @ 5137 ft.  
 .. Assume the 3 stabilizers on core barrel causing problem

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 42 DATE: July 25, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 5148 PROGRESS: 11  
 OPERATION: Drilling 8 1/2"

BIT NO: 16 SIZE: 8 1/2" TYPE: SVH  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet 11 HRS 1 RPM 55 WT 35 COND  
 BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND  
 BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1100 psi

MUD: WT 9.0 VIS 5.0 W.L. 5.0 PH 10.0 PV .20 YP 27  
 GELS 6/14 % SOLIDS 5.0 F.C. 1/32

MUD ADDITIVES: B-Free - 3 gals, barite - 37 sks, DF Vis - 2 sks, KCl - 10 sks  
 caustic - 1 tin, Idflo - 9 sks, SMR - 2 sks, diesel - 1350 gals

SURVEYS:

TIME BREAKDOWN:

Drilling	1	Surveys		Cut/slip	
Reaming	2 1/2	Repairs		Wait on Cement	
Tripping	5	RS & BOP	1/4	Wait on Water	
Other:	Free core barrel - 5 1/4				

REMARKS: Attempted to cut core #2 @ 5137 ft. - stuck core barrel while running in @ 3953 - circ and work core barrel @ 3953 - mixed 3 bbls B-Free, 29 bbls diesel, 13 bbls water and 37 sks barite - spot around core barrel - free @ 23:15 hrs July 24/79 - pulled out of hole - went back to drilling (IGS released of rig and rig costs @ 7:00 a.m. July 25/79) Did not attempt second run at cutting core #2 due to full diameter stabilizers of core barrel

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 43 DATE: July 26, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 5370 PROGRESS: 222
OPERATION: Drilling 8 1/2"

BIT NO: 16 SIZE: 8 1/2" TYPE: SVH

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 5298 Feet .161 HRS 13.1/4 RPM .55 WT .35 COND .8-8-1

BIT NO: 17 SIZE: 8 1/2" TYPE: M84F

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet .72 HRS 3.1/4 RPM .42 WT .35 COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1100 psi

MUD: WT 9.1 VIS. 44 W.L. 5.6 PH 10.5 PV 12 YP .23
GELS 5/10 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCl - 10 sks, Inhibitor - 10 gals., bacteriocide - 10 Kg

SURVEYS:

TIME BREAKDOWN:

Drilling 15 1/2 Surveys Cut/slip 1
Reaming 1 1/2 Repairs Wait on Cement
Tripping 5 1/4 RS & BOP 3/4 Wait on Water
Other:

REMARKS: Reamed 90 ft. of hole with bit #17 as a precaution for any slight
underquage hole

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 44 DATE: July 27, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 5766 PROGRESS: 396
OPERATION: Drilling 8 1/2"

BIT NO: 17 SIZE: 8 1/2" TYPE: M84F
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet 468 HRS 26 RPM 45 WT 35 COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1100 psi

MUD: WT 9.1 VIS. 41 W.L. 6 PH 10 PV 12 YP 19
GELS 4/10 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCl - 5 sks, spud mud (R) - 2 sks, caustic - 1 tin

SURVEYS: 2 1/2 @ 5572

TIME BREAKDOWN:
Drilling 22 3/4 Surveys 1/2 Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 45 DATE: July 28, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 5999 PROGRESS: 233
OPERATION: Drilling 8 1/2"

BIT NO: 17 SIZE: 8 1/2" TYPE: M84F

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 5996 Feet .698 HRS 40.1/4 RPM .40/45 WT .35 COND 4-4-I

BIT NO: 18 SIZE: 8 1/2" TYPE: S86F

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet .3 HRS 1.3/4 RPM .45 WT .25 COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1100 psi

MUD: WT 9.1 VIS. 42 W.L. 6.6 PH 10 PV 12 YP 19
GELS .4/10 % SOLIDS .5.6 F.C. 1/32

MUD ADDITIVES: KCl .- 10 sks, spud mud (.R) .- 2 sks

SURVEYS: .4 @ 5996

TIME BREAKDOWN:

Drilling 16 Surveys 1/4 Cut/slip
Reaming 1/4 Repairs Wait on Cement
Tripping 6 3/4 RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 46 DATE: July 29, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 6307 PROGRESS: 308
OPERATION: Drilling 8 1/2"

BIT NO: 18 SIZE: 8 1/2" TYPE: S86F
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet 311 HRS 25 RPM 48 WT 35 COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS. 41 W.L. 6 PH 10 PV 11 YP 19
GELS 4/10 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCJ = 5.sks, DF Vis = 1.sk, SMR = 2.sks

SURVEYS:

TIME BREAKDOWN:

Drilling 23 1/4 Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 47 DATE: July 30, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 6612 PROGRESS: 305  
 OPERATION: Tripping in with bit #19

BIT NO: 18 SIZE: 8 1/2" TYPE: S86F

REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out 6612 Feet .616 HRS .42 RPM .45 WT 35 COND .4-3-I

BIT NO: 19 SIZE: 8 1/2" TYPE: F3

REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS. 48 W.L. 6 PH 10 PV 13 YP 28  
 GELS 5/10 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCl - 10 sks, SMR - 4 sks, DF Vis - 2 sks

SURVEYS: 2<sup>0</sup> @ 6612

TIME BREAKDOWN:

Drilling 17 Surveys 1/4 Cut/slip  
 Reaming Repairs Wait on Cement  
 Tripping 6 RS & BOP 3/4 Wait on Water  
 Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 48 DATE: July 31, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 6740 PROGRESS: 128
OPERATION: Drilling 8 1/2"

BIT NO: 19 SIZE: 8 1/2" TYPE: F3
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet 128 HRS 21 1/2 RPM 48 WT 38 COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS. 4.5 W.L. 6 PH 10 PV 12 YP 26
GELS 4/11 % SOLIDS 5.6 F.C 1/32

MUD ADDITIVES: KCl - 10 sks, DF Vis - 7 sks, Idflo - 5 sks, inhibitor - 5 gals.
caustic - 1 tin

SURVEYS:

TIME BREAKDOWN:
Drilling 21 1/2 Surveys Cut/slip
Reaming 1/2 Repairs Wait on Cement
Tripping 1 1/4 RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 49 DATE: August 1, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 6907 PROGRESS: 167
OPERATION: Drilling 8. 1/2"

BIT NO: 19 SIZE: 8 1/2" TYPE: F3
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet .295 HRS 45 RPM .52 WT .40 COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND
BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5. 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS. 41 W.L. .6 PH 10 PV 12 YP 19
GELS 5/11 % SOLIDS 6.3 F.C. 1/32

MUD ADDITIVES: KCl - 5 sks, DF Vis - 2 sks, SMR - 1 sk

SURVEYS:

TIME BREAKDOWN:

Drilling 23 1/2 Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP 1/2 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 50 DATE: August 2, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 7080 PROGRESS: 173
OPERATION: Drilling 8 1/2"

BIT NO: 19 SIZE: 8 1/2" TYPE: F3

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet 468 HRS 68 1/4 RPM 52 WT 40 COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:

REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS 41 W.L. 6 PH 10.5 PV 11 YP 22
GELS 5/11 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCl - 5 sks, DF Vis - 1 sk, SMR - 3 sks, caustic - 1 tin

SURVEYS:

TIME BREAKDOWN:

Drilling 23 1/4 Surveys Cut/slip
Reaming Repairs Wait on Cement
Tripping RS & BOP 3/4 Wait on Water
Other:

REMARKS:

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 51 DATE: August 3, 1979
WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12
DEPTH AT 8.00 AM: 7140 PROGRESS: 60
OPERATION: Tripping out to pick up core barrel (terminal core)

BIT NO: 19 SIZE: 8 1/2" TYPE: F3
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out 7140 Feet 528 HRS 78.5 RPM 52 WT 40 COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:
REAM: Depth Out Feet HRS RPM WT COND
DRILL: Depth Out Feet HRS RPM WT COND

SPM: 58 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.1 VIS. 55 W.L. 4.8 PH 10 PV 20 YP 36
GELS 9/14 % SOLIDS 5.6 F.C. 1/32

MUD ADDITIVES: KCl - 20 sks, DF Vis - 10 sks, Idflo - 15 sks, SMR - 4 sks
barite - 15 sks, caustic - 1 tin

SURVEYS:

TIME BREAKDOWN:
Drilling 10 1/4 Surveys 1/2 Cut/slip
Reaming 3 1/4 Repairs Wait on Cement
Tripping 5 3/4 RS & BOP 1/4 Wait on Water
Other: Circ to core - 4

REMARKS: IGS took over rig and rig costs @ 6:30 p.m. (18:30 hrs.) August 2/79 to
cut one 30 ft. terminal core @ 7140 (Core #2)
Hole tight on dummy trip to core - pulled up to intermediate casing - reamed from
6439 ft, to bottom (3 1/4 hrs.) - conditioned hole

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..52..... DATE: August 4, 1979....  
 WELL NAME: .. Bearcat et al. Guiting Power..... RIG NO: Kenting #12.....  
 DEPTH AT 8.00 AM: ..7170 (T.D.)..... PROGRESS: ...30.....  
 OPERATION: ..Tripping out with core #2 (terminal core).....

BIT NO:19..... SIZE: 8 1/2"..... TYPE: F3.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 7140 Feet 528 HRS 7 1/2 RPM 52 WT 40 COND 3-3-1

BIT NO:20..... SIZE: 6 23/32..... TYPE: Diamond.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out 7170 Feet 30 HRS 9 1/4 RPM 70 WT 10 COND .....

BIT NO:..... SIZE:..... TYPE:.....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..40..... LINER SIZE: 5 1/2"..... PUMP PRESSURE: 900.....psi

MUD: WT 9.1..... VIS. 52..... W.L. 4.8..... PH 10.5..... PV 20..... YP<sup>32</sup>.....  
 GELS 7/14.....% SOLIDS 5.6..... F.C. 1/32.....

MUD ADDITIVES: ..KCl - 20 sks, DF Vis - 1 sk, barite - 15 sks.....

SURVEYS: ..2 1/4<sup>0</sup> @ 7170.....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....1.....  
 Reaming .....1/4..... Repairs ..... Wait on Cement .....  
 Tripping .....9 1/2..... RS & BOP ..3/4..... Wait on Water .....  
 Other: ..Circ - 1/4, coring 9 1/4, lay down 6 3/4" core barrel and pick up....  
 .....5 3/4" core barrel - 3.....

REMARKS: ..Core #2 - 7140-7170 ft. (terminal core) Reached total depth of 7170 ft.  
 ..@ 6:15 a.m. August 4, 1979.....  
 .....Strapped out to core Strap 7141.46.....  
 .....Tally 7140.00.....  
 .....diff 1.46 (no corr.).....

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: 53 DATE: August 5, 1979  
 WELL NAME: Bearcat et al Guiting Power RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 7170 T.D. PROGRESS: Nil  
 OPERATION: Tripping out to log

BIT NO: 2C SIZE: 6 23/32 TYPE: Diamond  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out 7170 Feet 30 HRS 9 1/4 RPM 70 WT 10 COND Good

BIT NO: 19RR SIZE: 8 1/2" TYPE: F3  
 REAM: Depth Out 7170 Feet 30 HRS 5 1/4 RPM 40 WT 20 COND 3-3-I  
 DRILL: Depth Out Feet HRS RPM WT COND

BIT NO: SIZE: TYPE:  
 REAM: Depth Out Feet HRS RPM WT COND  
 DRILL: Depth Out Feet HRS RPM WT COND

SPM: 60 LINER SIZE: 5 1/2" PUMP PRESSURE: 1000 psi

MUD: WT 9.5 VIS 50 W.L. 5 PH 10 PV 18 YP 38  
 GELS 8/16 % SOLIDS 8.5 F.C. 1/32

MUD ADDITIVES: Barite - 45 sks

SURVEYS:

TIME BREAKDOWN:

Drilling Surveys Cut/slip  
 Reaming 5 1/4 Repairs Wait on Cement  
 Tripping 10 1/2 RS & BOP Wait on Water  
 Other: Recover core - 1 1/2, circulate - 1 1/2, logging - 5 1/4

REMARKS: Core #2 - 7140 - 7170 ft. cut 30 ft. recovered 28.8 ft.  
 Attempted to log immediately after coring - could not get below 7100 ft, -  
 tripped in and reamed rat hole - conditioned hole to log

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ... 54 ... DATE: ... August. 6. 1979..
WELL NAME: . Bearcat et. al. Guiting. Power. .... RIG NO: . Kenting. #12. ....
DEPTH AT 8.00 AM: . 7170. T. D. .... PROGRESS: ... Nil. ....
OPERATION: . Tripping in. to. abandon. hole. ....

BIT NO: ... SIZE: ... TYPE: ...
REAM: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...
DRILL: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...

BIT NO: ... SIZE: ... TYPE: ...
REAM: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...
DRILL: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...

BIT NO: ... SIZE: ... TYPE: ...
REAM: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...
DRILL: Depth Out ... Feet ... HRS ... RPM ... WT ... COND ...

SPM: ... LINER SIZE: ... PUMP PRESSURE: ... psi

MUD: WT 9.5 ... VIS. ... 50 ... W.L. 5 ... PH 10 ... PV 18 ... YP 38 ...
GELS 8/16 ... % SOLIDS 8.5 ... F.C. 1/32 ...

MUD ADDITIVES: .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling ... Surveys ... Cut/slip ...
Reaming ... Repairs ... Wait on Cement ...
Tripping 2 3/4 ... RS & BOP ... Wait on Water ...
Other: Logging - 21 1/4

REMARKS: Ran Schlumberger Dual Induction-Laterolog, Integrated Sonic, CNL/FDC-GR-
Caliper log, Dipmeter and Velocity Survey

BEARCAT EXPLORATIONS (UK) LIMITED

DAILY DRILLING REPORT

REPORT NO: ..... 55 ..... DATE: August 7, 1979  
 WELL NAME: Bearcat et al Guiting Power ..... RIG NO: Kenting #12  
 DEPTH AT 8.00 AM: 7170 T.D. ..... PROGRESS: .....  
 OPERATION: Tear out rig .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

BIT NO: ..... SIZE: ..... TYPE: .....  
 REAM: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....  
 DRILL: Depth Out ..... Feet ..... HRS ..... RPM ..... WT ..... COND .....

SPM: ..... LINER SIZE: ..... PUMP PRESSURE: .....psi

MUD: WT ..... VIS. .... W.L. .... PH ..... PV ..... YP .....  
 GELS .....% SOLIDS ..... F.C. ....

MUD ADDITIVES: .....

SURVEYS: .....

TIME BREAKDOWN:

Drilling ..... Surveys ..... Cut/slip .....  
 Reaming ..... Repairs ..... Wait on Cement .....  
 Tripping .. 5 3/4 ... RS & BOP ..... Wait on Water .....  
 Other: Plug back - 3, lay down pipe - 6 1/4, tear out rig - 8 1/2, circulate - 1/2

REMARKS: Abandonment plugs: Plug #1 - 6700 - 6500 ft. with 67 sks neat Class "G" cement, plug down 12:00 noon Aug. 6/79 - no feel. Plug #2 - 3525 - 3325 ft. with 70 sks Class "G" cement plus 2% CaCl<sub>2</sub>, plug down 3:30 p.m. Aug. 6/79, waited 4 hrs. - felt plug @ 3315 ft. K.B. Plug #3 - 150 ft - surface with 55 sks neat Class "G" cement, plug down 11:15 p.m. Aug. 6/79 - cement returns to surface. RIG RELEASED AUGUST 7, 1979 (3:30 am) Cut casing below plow depth and welded on steel plate.