

24 MAY 1999

21/61

NZ 36/24

British Geological Survey

B.P. EXPLORATION CO. LTD.

RECEIVED

TEST AREA HARTON NZ 36/NE/80  
COUNTY DURHAM  
R.T.E. 66°0' A.O.D.WELL NO. 1  
LICENCE A 243

BORINGS DEPT.

NOTIFICATION

SN 58N6

Initials SG Date 15/7/60

Nat. Grid Reference Plan 1/2500 NZ 36/63

East. 439663. North. 565629.

## HISTORY

Drilling commenced 23-1-60  
Drilling completed 1-6-60  
Ring Ideal 30  
Power Paxman Diesel.Drilling January 0-370'  
February 370-2965'  
March 2965-311'  
April 411-5037'  
May 5037-5800'

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LEGEND *based by O on C Harton 45W/E. 27.60.*

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| GEOLOGICAL FORMATION | DEPTH IN FEET | LOG | DETAILS OF FORMATION  | OIL GAS WATER COALS ETC | CASING | REMARKS |
|----------------------|---------------|-----|---|-------------------------|--------|---------|
| MAGNESIAN LIMESTONE  | 50            |     | Yellow-fawn f.g. l.s.t. w. t.s.t. of dk. brown limonite.  |                         |        |         |
| E                    | 100           |     | Grey-brown compact l.s.t..  |                         |        |         |
| R                    | 145           |     | Yellow-brown f.dol. l.s.t. s.l.t. at base.  |                         |        |         |
| M                    | 150           |     | Very coarse quartz sand occ. beds of poorly sorted qtz. siltst..                                    |                         |        |         |
| I                    | 200           |     | calcareous & limonite to base.  |                         |        |         |
| A                    | 250           |     | Marl at top to green at base. f.qtz. siltst. w. mudst. Dotted l.s.t. Grey marl clay & silty mudst.. | 2"                      |        |         |
| N                    | 300           |     | Med. g. mid. dk. grey mic. & carb. siltst. w. occ. sideritic beds.                                  | 2"                      |        |         |
|                      | 350           |     | F.g. sl. pyritic qtz. siltst..  | 2"                      |        |         |
|                      | 352           |     | Lt. grey f. siltst. & silty mudst..   | 2"                      |        |         |
|                      | 400           |     | Dk. grey silt. & carb. siltst. grading to dk. grey silt. & carb. siltst..                           | 2"                      |        |         |
|                      | 450           |     | Lt. grey f. siltst. & silty mudst..   | 2"                      |        |         |
|                      | 500           |     | Carb. shale..   | 2"                      |        |         |
|                      | 550           |     | Lt. grey f. siltst..  | 2"                      |        |         |
|                      | 600           |     | Med. coarse mic. & carb. siltst. grading to v. f.g. siltst..  | 2"                      |        |         |
|                      | 650           |     | Lt. grey f. siltst..  | 2"                      |        |         |
|                      | 700           |     | Med. grey coarse mic. & carb. siltst. grading to v. f.g. siltst. variably sil. & carb..             | 2"                      |        |         |
|                      | 750           |     | Silty ext. variably sil. & carb..   | 2"                      |        |         |
|                      | 800           |     | Lt. grey f. siltst..  | 2"                      |        |         |
|                      | 850           |     | F.g. fawn siltst..  | 2"                      |        |         |
|                      | 900           |     | v. carb. to base.   | 2"                      |        |         |
|                      | 1000          |     | White - lt. grey & fawn f.-v.f.g. qtz. siltst. variably sil. & carb. b. mic. commonly in laminae.   | 2"                      |        |         |
|                      | 1050          |     | Tr. siltst..  | 2"                      |        |         |
|                      | 1100          |     | Med. grey coarse mic. & carb. siltst. grading to v. f.g. siltst. variably sil. & carb. b. mic.      | 2"                      |        |         |
|                      | 1150          |     | White - lt. grey coarse siltst. & silty mudst. minor coarse siltst..                                | 2"                      |        |         |
|                      | 1200          |     | Mid-dk. grey coarse mic. & carb. & siltst. w. v. f.g. siltst. finer & more carb. to base.           | 2"                      |        |         |
|                      | 1250          |     | White - lt. grey f. siltst. at base.  | 2"                      |        |         |
|                      | 1300          |     | Calcareous & coarse.  | 2"                      |        |         |
|                      | 1350          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |
|                      | 1400          |     | Variable mid-dk. grey mic. & carb. siltst. w. v. f.g. siltst. coarse at base.                       | 2"                      |        |         |
|                      | 1450          |     | Variable mid-dk. grey mic. & carb. siltst. w. v. f.g. siltst. coarse at base.                       | 2"                      |        |         |
|                      | 1500          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |
|                      | 1550          |     | Black med. f. mic. & carb. siltst. & silty mudst..  | 2"                      |        |         |
|                      | 1600          |     | Variable mid-dk. grey mic. & carb. siltst. w. v. f.g. siltst. coarse at base.                       | 2"                      |        |         |
|                      | 1650          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |
|                      | 1700          |     | Black v. silty mudst..  | 2"                      |        |         |
|                      | 1750          |     | Med. gr. qtz. siltst. at base.  | 2"                      |        |         |
|                      | 1800          |     | Coarse-med. qtz. siltst..   | 2"                      |        |         |
|                      | 1850          |     | dk. grey f. siltst..  | 2"                      |        |         |
|                      | 1900          |     | F. siltst. at top coarse siltst. at base.   | 2"                      |        |         |
|                      | 1950          |     | White f.-v. f.g. siltst. (biotite) in places sideritic.   | 2"                      |        |         |
|                      | 2000          |     | Calcareous & coarse.  | 2"                      |        |         |
|                      | 2050          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |
|                      | 2100          |     | Variable f. v. f.g. siltst. w. v. f.g. siltst. coarse at base.                                      | 2"                      |        |         |
|                      | 2150          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |
|                      | 2200          |     | dk. grey f. siltst. - mudst..   | 2"                      |        |         |

