

British Geological Survey

B P EXPLORATION CO. LTD.

TEST AREA HARTON

NZ36NE/80

WELL NO 1

COUNTY DURHAM

LICENCE A 243

R.T.E. 66-0 A.O.D.

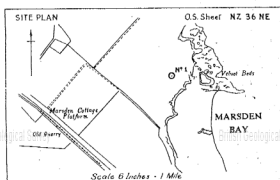
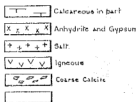
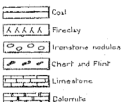
Nat. Grid Reference Plan 1/2500 NZ36NE
East. 439663. North. 565629.BORINGS DEPT.
NOTIFICATION
SN 5846Initials *SP* 15/7/60
Date *original filed* 1/8/60

HISTORY

Drilling commenced 23-1-60
Drilling completed 1-6-60
Rig Ideal 50
Power Phoenix Diesel.Drilling January 0-570'
February 570-2965'
March 2965-4415'
April 4415-5037'
May 5037-5800'

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LEGEND *Area by O on C Durham 450/5* *8.7.60.*

GEOLOGICAL FORMATION	DEPTH IN FEET	LOG	DETAILS OF FORMATION	OIL GAS WATER COAL SEMG	CASING	REMARKS
MARNESTON	50		Yellow-fawn f.g. silt. & sh. of dk. brown limonite.			
P	100		Grey-brown compact silt.			
E	150		Yellow-brown f. dol. silt. at base.			
R	200		Very coarse quartz sand occ. beds of poorly sorted qtz. siltst.			
M	250		calc. cement & limonite to base.			
I	300		Mudst. at top to green at base. f. qtz. silt. & mudst.			
A	350		Dol. silt. & sh. & silty mudst.			
N	400		Med. g. mid. dk. grey mic. & carb. siltst. w. occ. sideritic beds.			
COAL MEASURES	450		F.g. sl. pyritic qtz. silt.			
UPPER GROUP	500		Lt. grey f. siltst. & silty mudst.			
	550		Dk. grey mic. & carb. siltst. grading to coal.			
	600		Lt. - mid grey variable med. f. g. siltst. & occ. coarse siltst. occ. silt. & carb.			
	650		Carb. shale.			
	700		Lt. grey f. siltst.			
	750		Dk. grey carb. shale.			
	800		Med. f. silt. grey siltst.			
	850		Med. - coarse mic. & carb. siltst. grading to v. f. g. silt.			
	900		Lt. grey f. siltst.			
	950		Dk. grey coarse mic. & carb. siltst. grading to v. f. g. silt. variably silt. & carb.			
	1000		Silty silt. variably silt. & carb.			
	1050		Lt. grey f. siltst.			
	1100		F.g. fawn silt. silt.			
	1150		v. carb. to base.			
	1200		White - lt. grey & fawn f. v. f. g. qtz. silt. variably silt. & carb. & mic. commonly in laminae.			
	1250		Tr. silt.			
	1300		Mid grey f. siltst. - mudst. w. plant material to base.			
	1350		Black silty mudst.			
	1400		Interbedded & intergrading f. white qtz. silt.			
	1450		Sl. silt. & mic. & carb. & variable lt. to mid grey coarse f. mic. & carb. & silt. siltst.			
	1500		Silt. f. silt. carb. in part.			
	1550		Lt. grey f. siltst. - silty mudst. minor coarse siltst.			
	1600		Mid-dk. grey coarse mic. & carb. & silt. siltst. grading to v. f. g. silt. - commonly off-white in colour.			
	1650		White - lt. grey coarse siltst. - v. f. g. silt. w. minor seat earth? dk. grey siltst. silt. at top.			
	1700		Coarse & med. poorly cemented qtz. silt. occ. silt. w. carb. beds of med. - coarse mic. & carb. & silt. siltst.			
	1750		Interbedded white f. g. silt. & med. g. mid-grey mic. siltst.			
	1800		med. - move coal.			
	1850		F.g. qtz. silt.			
	1900		Coarse-med. qtz. silt.			
	1950		Silt. f. qtz. silt.			
	2000		Mid-dk. grey mic. & carb. & silt. siltst. - v. f. g. silt. finer & more carb. to base.			
	2050		White med. f. g. silt. coarse at base.			
	2100		F.g. sl. silt. silt.			
	2150		Lt. grey hightone rich v. f. g. qtz. silt.			
	2200		F. siltst. at top coarse siltst. at base mid grey & mic. f. silt.			
	2250		White f. v. f. g. silt. silt. (biotite) in places sideritic.			
	2300		Calc. at base & coarse.			
	2350		Dk. grey f. siltst. - mudst.			
	2400		Lt. grey-dk. grey qtz. silt. - siltst. variably silt. & carb.			
	2450		Variable mid-grey med. g. siltst. w. occ. lt. grey f. siltst. beds.			
	2500		White f. g. silt.			
	2550		Fawn mudst. w. plant tr. minor dk. siltst.			
	2600		F.g. off white silt.			
	2650		Dk. grey med. f. siltst.			
	2700		White f. g. silt. calc. at top.			
	2750		Coarse poorly consolidated quartz silt.			
	2800		Sideritic.			
	2850		Fawn mudst. seat earth to dk. grey f. silt.			
	2900		Off-white f. v. f. g. qtz. silt. variably silt. & carb.			
	2950		Top of siltst. siltst. coarse & carb. at base.			
	3000		F.g. qtz. silt. coarse at base.			
	3050		Variable mid-dk. grey mic. & carb. siltst.			
	3100		White med. f. g. silt. at base, fawn seat earth in middle.			
	3150		White med. g. qtz. silt.			
	3200		Goniatite.			
	3250		Variable dk. grey black coarse f. mic. & silt. siltst. & carb.			
	3300		Mid grey silty mudst. & mudst.			
	3350		Off-white coarse siltst. - f. silt. variably silt. & carb. & silt. to base (dk. silt. at base).			
	3400		Black med. f. mic. & carb. siltst. & silty mudst.			
	3450		Variable mid-dk. grey med. siltst. - silty mudst. occ. white f. silt. & silt. mudst.			
	3500		Minor green v. f. g. silt. at base.			
	3550		Dk. grey black med. - f. mic. siltst.			
	3600		White f. g. silt.			
	3650		Med. g. qtz. silt. w. occ. dk. grey f. siltst. silt. med. base.			
	3700		Black silty mudst.			
	3750		Med. g. qtz. silt. coarse siltst. at base.			
	3800		Dk. grey f. siltst. & silty mudst.			
	3850		Variable fawn-grey green mudst. & minor siltst. - fr. silt. as shown.			
	3900		Black siltst. grading to white mic. v. f. g. fawn grey-green mudst. seat earth.			
	3950		V. f. f. silt. - off-black mic. silty limestone & calc. in lower part.			
	4000		Black f. siltst.			
	4050		Med. g. qtz. silt. w. white v. f. g. silt. seat earth to top. lt. silt. at base.			
	4100		Light coloured mudst. seat earth, occ. coarse siltst. silt. & silt. beds.			
	4150		Lt. grey-green mudst. occ. dk. grey f. siltst.			
	4200		Mid-dk. grey f. siltst. - silty mudst.			
	4250		Grey-green mudst.			
	4300		Med. coarse silt. grey carb. siltst.			
	4350		Med. - f. qtz. silt.			
	4400		V. silt. med. grey siltst.			
	4450		Green lat. w. crinoid stems.			
	4500		Silty mudst. siltst. minor lt. grey f. & v. f. g. quartz silt.			
	4550		Dk. grey f. siltst.			
	4600		F. & v. f. g. quartz silt.			
	4650		V. f. g. silt. w. black siltst. limestone & beds. V. silt. black coarse f. siltst. w. occ. silt. beds mudst. bed at top.			
	4700		F. & qtz. silt.			
	4750		Variable mudst. & silty mudst.			
	4800		Dk. grey f. siltst. & silty mudst. calc. in upper part.			
	4850		White f. g. silt. in part pyritic & sl. mic. & carb. silt.			
	4900		Interbedded dk. grey f. siltst. & silty mudst. & lt. grey to green mudst.			
	4950		Dk. grey lat. lighter coloured to base crinoid stems, med. siltst.			
	5000		Off-white coarse siltst. becoming coarser to base, grading to f. silt. occ. black f. siltst.			
	5050		Black mic. & carb. siltst. variable grain size calc. to base, w. crinoid stems.			
	5100		Dk. grey lat. w. carb. limestone brachiopods crinoid stems, sandy to base.			
	5150		Dk. grey f. siltst. to mudst. lt. grey-green siltst. in lower part. Coal.			
	5200		Med. - f. black mic. siltst. finer to base & calc. w. crinoid stems pyritic.			

