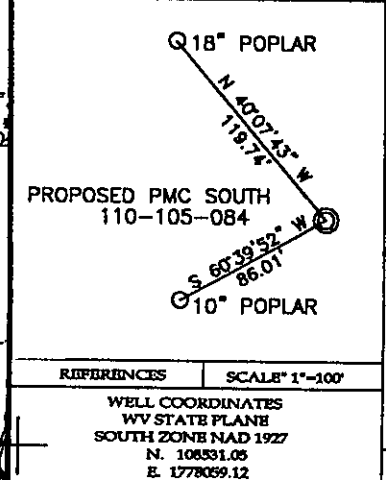


(+) DENOTES LOCATION OF WELL ON 7.5' TOPOGRAPHIC MAP



**TEE Engineering Company, Inc.**  
 520 Culture Hill Court  
 Lexington, KY 40509  
 (859) 263-5350  
 Fax (859) 263-5345

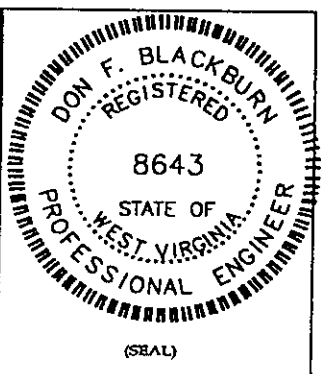
**GeoMet Operating Company, Inc.**  
 Well No. PMC South 110-105-084

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. WELL PMC SOUTH 84 PLAT  
 SCALE: 1" = 2,000'  
 MIN. DEGREE OF ACCURACY 1 : 2,500  
 PROVEN SOURCE OF ELEVATION  
GPS STATION TEC-1 (ELEV. 2406.60)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

*Don F. Blackburn*  
 (SIGNATURE)

R.P.E. 8643 R.P.S. \_\_\_\_\_



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

DATE FEBRUARY 7, 2003  
 OPERATOR'S WELL NO. PMC SOUTH 110-105-084

API WELL NO. 47 - 047 - 017800  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS X CBM LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 1,654.91' NORTHING 108531.05 EASTING 1778059.12  
 DISTRICT BIG CREEK WATER SHED MUDLICK BR. OF LITTLE SLATE CREEK  
 QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER POCAHONTAS MINING, LLC. ACREAGE 1,108  
 CBM ROYALTY OWNER POCAHONTAS MINING, LLC. LEASE ACREAGE 1,108  
 LEASE NO. RECORDING IN PROGRESS

PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
 FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 2,077'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

(Bradshaw 270)

FEB 7 2003

MCDOWELL 1770 C

*MP*

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC OPERATOR WELL NO.: 110-105-084

LOCATION:

Elevation: 1,654.91' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 3,754' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 13,761' Feet West of 81 Deg. 45 Min. 00 Sec.

| Company: <u>GeoMet Operating Company</u>  | Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. Ft. |
|---|-----------------|------------------|--------------|------------------------|
| Address: <u>5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244</u> | <u>13-3/8"</u>  | <u>36.6'</u>     | <u>36.6'</u> |                        |
| Agent: <u>Gregg Cleary</u>  |                 |                  |              |                        |
| Inspector: <u>Ronnie Scott</u>  | <u>8-5/8"</u>   | <u>328'</u>      | <u>328'</u>  | <u>74/Pumped 120</u>   |
| Date Permit Issued: <u>April 10, 2003</u>                                       |                 |                  |              |                        |
| Date Well Work Commenced: <u>June 6, 2003</u>                                   | <u>5-1/2"</u>   | <u>1514'</u>     | <u>1514'</u> | <u>263/Pumped 306</u>  |
| Date Well Work Completed: <u>June 18, 2003</u>                                  |                 |                  |              |                        |
| Verbal Plugging:  |                 |                  |              |                        |
| Date Permission granted on:   |                 |                  |              |                        |
| Rotary <u>XXXX</u> Cable <u>        </u> Rig <u>        </u>                    |                 |                  |              |                        |
| Total Depth (feet): <u>1560'</u>  |                 |                  |              |                        |
| Fresh Water Depth (feet): <u>Unknown</u>  |                 |                  |              |                        |
| Salt Water Depth (feet): <u>Unknown</u>   |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? <u>No</u>                                    |                 |                  |              |                        |

Coal Depths (feet): 335, 339, 358, 362, 432, 433, 485, 505, 512, 547, 548, 633, 675, 732, 849, 890, 891, 936, 943, 979, 1027, 1028, 1055, 1087, 1093, 1094, 1147, 1526, 1528, 1529, 1530, 1553.

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow N/A MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow N/A MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of Open Flow between initial and final tests N/A Hours  
Static Rock Pressure 10.7 psig (surface pressure) after 96 Hours

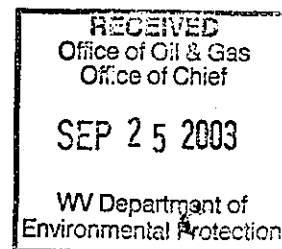
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SIGNED:

BY:

DATE:

Dundee Smith



OCT 17 2003

*McDow 1770*

**GeoMet Operating Company, Inc.  
Perforation and Frac Volume Specification**

Well Name PMC SOUTH 084

PBTD

1510'

**Zone and Perforation Table**

| Frac Stage | Interval |      | Ball Out           | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|------------|----------|------|--------------------|-------------------|-----------------|--------------------|
|            |          |      |                    |                   |                 |                    |
| Stage 1    | 1026     | 1029 |                    |                   |                 |                    |
| N2 Scf     | 308,000  |      | 1000'              |                   | 25,000          | 27,000             |
| Acid       | 200      | 15%  |                    |                   |                 |                    |
| Gel Volume | 9,750    |      |                    |                   |                 |                    |
| ISIP       | 1,511    |      |                    |                   |                 |                    |
| ATP        | 3,368    |      |                    |                   |                 |                    |
| AIR        | 24       | BPM  |                    |                   |                 |                    |
| Stage 2    | 934      | 937  |                    |                   |                 |                    |
| N2 Scf     | 187,000  |      | No Plug            |                   |                 |                    |
| Acid       | 200      | 15%  |                    |                   |                 |                    |
| Gel Volume | 6,400    |      |                    |                   |                 |                    |
| ISIP       | 3,570    |      |                    |                   |                 |                    |
| ATP        | 3,224    |      |                    |                   |                 |                    |
| AIR        | 22       | BPM  |                    |                   |                 |                    |
| Stage 3    | 889      | 892  |                    |                   |                 |                    |
| N2 Scf     | 310,000  |      | 30 Balls on Plug @ | 880'              |                 |                    |
| Acid       | 400      | 15%  |                    |                   |                 |                    |
| Gel Volume | 10,000   |      |                    |                   |                 |                    |
| ISIP       | 1,794    |      |                    |                   |                 |                    |
| ATP        | 2,942    |      |                    |                   |                 |                    |
| AIR        | 20       | BPM  |                    |                   |                 |                    |
| Stage 4    | 732      | 734  |                    |                   |                 |                    |
| N2 Scf     | 280,000  |      | 848' - 850'        | 710'              |                 |                    |
| Acid       | 450      | 15%  |                    |                   |                 |                    |
| Gel Volume | 10,000   |      |                    |                   |                 |                    |
| ISIP       | 1,004    |      |                    |                   |                 |                    |
| ATP        | 2,344    |      |                    |                   |                 |                    |
| AIR        | 26       | BPM  |                    |                   |                 |                    |
| Stage 5    | 673      | 676  |                    |                   |                 |                    |
| N2 Scf     | 266,000  |      | 660'               |                   |                 |                    |
| Acid       | 200      | 15%  |                    |                   |                 |                    |
| Gel Volume | 8,800    |      |                    |                   |                 |                    |
| ISIP       | 1,198    |      |                    |                   |                 |                    |
| ATP        | 2,665    |      |                    |                   |                 |                    |
| AIR        | 24       | BPM  |                    |                   |                 |                    |

Well Name PMC SOUTH 084

PBTD

1510'

**Zone and Perforation Table**

|                   | Ball Out | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|-------------------|----------|-------------------|-----------------|--------------------|
| Stage 6 Interval  | 631      | 634               |                 |                    |
| N2 Scf            | 331,000  |                   | 25,000          | 32,500             |
| Acid              | 200      | 15%               |                 |                    |
| Gel Volume        | 9,400    |                   |                 |                    |
| ISIP              | 1,126    |                   |                 |                    |
| ATP               | 2,786    |                   |                 |                    |
| AIR               | 25       | BPM               |                 |                    |
|                   |          | 600'              |                 |                    |
| Stage 7 Interval  | 546      | 549               | 30,000          | 31,000             |
| N2 Scf            | 249,000  |                   |                 |                    |
| Acid              | 200      | 15%               |                 |                    |
| Gel Volume        | 8,400    |                   |                 |                    |
| ISIP              | 1,060    |                   |                 |                    |
| ATP               | 2,276    |                   |                 |                    |
| AIR               | 28       | BPM               |                 |                    |
|                   |          | No Plug           |                 |                    |
| Stage 8 Interval  |          |                   |                 |                    |
| N2 Scf            |          |                   |                 |                    |
| Acid              |          |                   |                 |                    |
| Gel Volume        |          |                   |                 |                    |
| ISIP              |          |                   |                 |                    |
| ATP               |          |                   |                 |                    |
| AIR               |          | BPM               |                 |                    |
| Stage 9 Interval  |          |                   |                 |                    |
| N2 Scf            |          |                   |                 |                    |
| Acid              |          |                   |                 |                    |
| Gel Volume        |          |                   |                 |                    |
| ISIP              |          |                   |                 |                    |
| ATP               |          |                   |                 |                    |
| AIR               |          | BPM               |                 |                    |
| Stage 10 Interval |          |                   |                 |                    |
| N2 Scf            |          |                   |                 |                    |
| Acid              |          |                   |                 |                    |
| Gel Volume        |          |                   |                 |                    |
| ISIP              |          |                   |                 |                    |
| ATP               |          |                   |                 |                    |
| AIR               |          |                   |                 |                    |

Mc Dow 1770

# DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC-SOUTH-084

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 23

DATE STARTED: 06-05-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 06-09-03

GROUTED: YES

| DEPTH |     | THICKNESS | STRATA  | REMARKS                  |
|-------|-----|-----------|---|--------------------------|
| FROM  | TO  | FT.       | DESCRIPTION                                   | VOIDS, ETC               |
| 0     | 30  | 30.00     | OVERBURDEN                                    |                          |
| 30    | 37  | 7.00      | SANDSTONE/SAND                                | 36.60' OF 13-3/8" CASING |
| 37    | 61  | 24.00     | SANDSTONE/SANDY SHALE/COAL                    |                          |
| 61    | 92  | 31.00     | SANDY SHALE/SANDSTONE                         |                          |
| 92    | 123 | 31.00     | SAND/COAL/SANDSTONE                           |                          |
| 123   | 154 | 31.00     | SAND/SANDSTONE                                |                          |
| 154   | 185 | 31.00     | SANDSTONE/COAL/SANDSTONE/COAL/SANDSTONE       |                          |
| 185   | 215 | 30.00     | SANDSTONE/SANDY SHALE/SANDSTONE               |                          |
| 215   | 245 | 30.00     | SANDSTONE                                     |                          |
| 245   | 275 | 30.00     | COAL/SANDY SHALE/COAL                         |                          |
| 275   | 305 | 30.00     | SANDSTONE/SANDY SHALE                         |                          |
| 305   | 335 | 30.00     | SANDSTONE/SANDY SHALE                         | 328' OF 8-5/8" CASING    |
| 335   | 360 | 25.00     | SANDSTONE/SANDY SHALE                         |                          |
| 360   | 390 | 30.00     | SANDY SHALE/COAL/SAND                         |                          |
| 390   | 420 | 30.00     | SANDSTONE                                     |                          |
| 420   | 450 | 30.00     | SANDY SHALE/COAL/SANDSTONE                    |                          |
| 450   | 480 | 30.00     | SANDY SHALE/SANDSTONE                         |                          |
| 480   | 510 | 30.00     | SANDSTONE/SANDY SHALE/COAL/SAND               |                          |
| 510   | 540 | 30.00     | SANDY SHALE/SANDSTONE                         |                          |
| 540   | 570 | 30.00     | COAL/SANDY SHALE/SANDSTONE                    |                          |
| 570   | 600 | 30.00     | SANDY SHALE/SANDSTONE/SANDY SHALE             |                          |
| 600   | 630 | 30.00     | SANDSTONE/SANDY SHALE/SHALE STRKS SANDY SHALE |                          |
| 630   | 660 | 30.00     | SANDY SHALE/SAND                              |                          |
| 660   | 690 | 30.00     | SANDY SHALE/SAND STRKS.                       |                          |
| 690   | 720 | 30.00     | SANDY SHALE                                   |                          |
| 720   | 750 | 30.00     | SANDY SHALE/COAL STRKS/SAND                   |                          |
| 750   | 780 | 30.00     | SAND/SANDY SHALE                              |                          |
| 780   | 810 | 30.00     | SANDY SHALE/SAND                              |                          |
| 810   | 840 | 30.00     | SAND/SANDY SHALE STRKS.                       |                          |
| 840   | 870 | 30.00     | SANDY SHALE/COAL/SANDY SHALE/SAND             |                          |
| 870   | 900 | 30.00     | SAND/COAL/SANDY SHALE                         |                          |
| 900   | 930 | 30.00     | SANDSTONE                                     |                          |
| 930   | 960 | 30.00     | SANDY SHALE/COAL/SANDY SHALE                  |                          |

GEO-MET  
HOLE #PMC-SOUTH-084  
PAGE 2

|      |      |       |                                  |
|------|------|-------|----------------------------------|
| 960  | 990  | 30.00 | SANDY SHALE/COAL/SHALE/SAND      |
| 990  | 1020 | 30.00 | SAND/SANDY SHALE                 |
| 1020 | 1050 | 30.00 | COAL/SANDSTONE/SANDY SHALE       |
| 1050 | 1080 | 30.00 | SANDY SHALE/SANDSTONE STRKS.     |
| 1080 | 1110 | 30.00 | COAL/SHALE/SANDY SHALE           |
| 1110 | 1140 | 30.00 | SANDSTONE/SANDY SHALE            |
| 1140 | 1170 | 30.00 | SANDY SHALE                      |
| 1170 | 1200 | 30.00 | SANDY SHALE/SAND                 |
| 1200 | 1230 | 30.00 | SANDSTONE/COAL/SHALE/SANDY SHALE |
| 1230 | 1260 | 30.00 | SANDY SHALE                      |
| 1260 | 1290 | 30.00 | SAND/SANDY SHALE                 |
| 1290 | 1320 | 30.00 | SANDY SHALE/SAND                 |
| 1320 | 1380 | 60.00 | SANDSTONE                        |
| 1380 | 1410 | 30.00 | SAND/RED SHALE                   |
| 1410 | 1470 | 60.00 | RED SHALE/SANDY SHALE            |
| 1470 | 1500 | 30.00 | RED SHALE                        |
| 1500 | 1530 | 30.00 | SANDY SHALE                      |
| 1530 | 1560 | 30.00 | SANDY SHALE/RED SHALE            |

TOTAL DEPTH: 1560  
36.60' OF 13-3/8"  
328' OF 8-5/8"

OCT 17 2004

Mc Dow 1770