

LATITUDE 37° 17' 30"

LONGITUDE 81° 45' 00"

28" WHITE OAK 28" BLACK OAK  
 PROPOSED PMC SOUTH 109-103-070

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

**TEE Engineering Company, Inc.**  
 320 Cutlers Hill Court  
 Lexington, KY 40309  
 (859) 263-5350  
 Fax (859) 263-5345

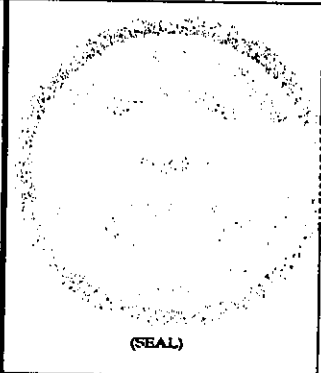
**GeoMet Operating Company, Inc.**  
 Well No. PMC South 109-103-070

FILE NO. 1883-08  
 DRAWING NO. WELL PMC 070 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.

*Paul F. Blackburn*  
 (SIGNATURE)

R.P.E. 8643 R.P.S.



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

DATE DECEMBER 31, 2002  
 OPERATOR'S WELL NO. PMC SOUTH 109-103-070

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

LOCATION: ELEVATION 2,493.68' NORTHING 105,073.27 EASTING 1,774,278.55  
 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 2,261'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT GREGG CLEARY  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 1105 HEATHERWOOD ROAD  
BIRMINGHAM, ALABAMA 35244 BLUEFIELD, WV 24701

M-Don 1759 C

(Blackburn 270) MAR 14 2003

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

*MRB*

Well Operator's Report of Well Work

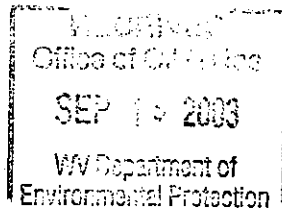
FARM NAME: Pocahontas Mining, LLC.

OPERATOR WELL NO.: 109-103-070

LOCATION:

Elevation: 2,493.68'      Quadrangle: Bradshaw

District: Big Creek      County: McDowell  
Latitude: 7507' Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude: 2080' 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>44'</u>       | <u>44'</u>   |                        |
| Agent: <u>Gregg Cleary</u>  |                 |                  |              |                        |
| Inspector: <u>Ronnie Scott</u>  | <u>8-5/8"</u>   | <u>327'</u>      | <u>327'</u>  | <u>74/Pumped 222</u>   |
| Date Permit Issued: <u>April 24, 2003</u>                                       |                 |                  |              |                        |
| Date Well Work Commenced: <u>May 6, 2003</u>                                    | <u>5-1/2"</u>   | <u>2288'</u>     | <u>2288'</u> | <u>397/Pumped 520</u>  |
| Date Well Work Completed: <u>May 16, 2003</u>                                   |                 |                  |              |                        |
| Verbal Plugging:  |                 |                  |              |                        |
| Date Permission granted on:   |                 |                  |              |                        |
| Rotary <u>XXXX</u> Cable Rig  |                 |                  |              |                        |
| Total Depth (feet): <u>2317'</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): 329, 332, 336, 385, 430, 481, 493, 643, 922, 924, 957, 1006, 1045, 1118, 1153, 1230, 1241, 1379, 1413, 1415, 1416, 1461, 1479, 1502, 1530, 1531, 1570, 1601, 1668, 1699, 1740, 1777, 1876, 1877, 1934, 1939, 2059, 2060, 2125, 2126.

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 25 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:

*Dundrea Smith*

DATE:

OCT 17 2003

*McDOW 1759*

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

Well Name PMC SOUTH 070

PBTD

2288'

**Zone and Perforation Table**

| Frac<br>Stage 1 Interval |         |      | Ball Out                 | Bridge Plug<br>Set @ | Est Sand<br>Weight | Actual Sand<br>Weight |
|--------------------------|---------|------|--------------------------|----------------------|--------------------|-----------------------|
|                          | 2058    | 2061 |                          |                      |                    |                       |
| N2 Scf                   | 305,000 |      | 1950'                    |                      | 25,000             | 22,000                |
| Acid                     | 200     | 15%  |                          |                      |                    |                       |
| Gel Volume               | 11,000  |      |                          |                      |                    |                       |
| ISIP                     | 2,292   |      |                          |                      |                    |                       |
| ATP                      | 3,466   |      |                          |                      |                    |                       |
| AIR                      | 15      | BPM  |                          |                      |                    |                       |
| Stage 2 Interval         | 1,875   | 1878 |                          |                      |                    |                       |
| N2 Scf                   | 210,000 |      | 26 Balls on Plug @ 1830' |                      |                    |                       |
| Acid                     | 200     | 15%  |                          |                      |                    |                       |
| Gel Volume               | 7,500   |      |                          |                      |                    |                       |
| ISIP                     | 1,542   |      |                          |                      |                    |                       |
| ATP                      | 2,835   |      |                          |                      |                    |                       |
| AIR                      | 22      | BPM  |                          |                      |                    |                       |
| Stage 3 Interval         | 1,739   | 1742 |                          |                      |                    |                       |
| N2 Scf                   | 208,000 |      | 1776' - 1779'            |                      |                    |                       |
| Acid                     | 450     | 15%  |                          |                      |                    |                       |
| Gel Volume               | 7,200   |      |                          |                      |                    |                       |
| ISIP                     | 1,462   |      |                          |                      |                    |                       |
| ATP                      | 2,748   |      |                          |                      |                    |                       |
| AIR                      | 22      | BPM  |                          |                      |                    |                       |
| Stage 4 Interval         | 1,667   | 1670 |                          |                      |                    |                       |
| N2 Scf                   | 242,000 |      | 1697' - 1700'            |                      |                    |                       |
| Acid                     | 450     | 15%  |                          |                      |                    |                       |
| Gel Volume               | 11,000  |      |                          |                      |                    |                       |
| ISIP                     | 1,116   |      |                          |                      |                    |                       |
| ATP                      | 2,642   |      |                          |                      |                    |                       |
| AIR                      | 25      | BPM  |                          |                      |                    |                       |
| Stage 5 Interval         | 1,529   | 1532 |                          |                      |                    |                       |
| N2 Scf                   | 257,000 |      | 30 Balls on Plug @ 1520' |                      |                    |                       |
| Acid                     | 200     | 15%  |                          |                      |                    |                       |
| Gel Volume               | 8,500   |      |                          |                      |                    |                       |
| ISIP                     | 1,408   |      |                          |                      |                    |                       |
| ATP                      | 2,872   |      |                          |                      |                    |                       |
| AIR                      | 22      | BPM  |                          |                      |                    |                       |

Well Name PMC SOUTH 070

PBTD

2435'

**Zone and Perforation Table**

|                   | Ball Out                     | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|-------------------|------------------------------|-------------------|-----------------|--------------------|
| Stage 6 Interval  | 1459'                        | 1461'             |                 |                    |
| N2 Scf            | 254,000                      |                   | 25,000          | 28,000             |
| Acid              | 450                          | 15%               |                 |                    |
| Gel Volume        | 9,400                        |                   |                 |                    |
| ISIP              | 1,056                        |                   |                 |                    |
| ATP               | 2,432                        |                   |                 |                    |
| AIR               | 26                           | BPM               |                 |                    |
|                   | 1478' - 1481', 1500' - 1503' |                   |                 |                    |
|                   | 1440'                        |                   |                 |                    |
| Stage 7 Interval  | 1,413                        | 1,417             | 30,000          | 35,000             |
| N2 Scf            | 269,000                      |                   |                 |                    |
| Acid              | 200                          |                   |                 |                    |
| Gel Volume        | 9,400                        |                   |                 |                    |
| ISIP              | 1,101                        |                   |                 |                    |
| ATP               | 2,792                        |                   |                 |                    |
| AIR               | 27                           | 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               |                              |                   |                 |                    |

OCT 17 2003

MCDOW 1759

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

COMPANY : GEOMET

HOLE NO. PMC-070

LOCATION: PEA PATCH

DRILL: RIG 23

DATE STARTED: 04-04-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 04-11-03

GROUTED: YES

| DEPTH  |         | THICKNESS | STRATA                             | REMARKS                  |
|--------|---------|-----------|------------------------------------|--------------------------|
| FROM   | TO      | FT.       | DESCRIPTION                        | VOIDS, ETC               |
| 0      | 43.45   | 43.45     | OVERBURDEN                         | 43.45' OF 13-3/8" CASING |
| 43.45  | 61.00   | 17.55     | SANDY SHALE/COAL STRKS/SANDSTONE   |                          |
| 61.00  | 92.00   | 31.00     | SANDSTONE/SANDY SHALE STRKS.       |                          |
| 92.00  | 123.00  | 31.00     | SANDSTONE/SH. OR COAL STRKS/S. SH. |                          |
| 123.00 | 185.00  | 62.00     | SANDY SHALE/SANDSTONE/SANDY SH.    |                          |
| 185.00 | 215.00  | 30.00     | COAL/SANDY SHALE                   |                          |
| 215.00 | 230.00  | 15.00     | SANDY SHALE/COAL                   |                          |
| 230.00 | 245.00  | 15.00     | SANDY SHALE                        |                          |
| 245.00 | 275.00  | 30.00     | SANDY SHALE/270-273-VOID           |                          |
| 275.00 | 335.00  | 60.00     | SANDY SHALE                        | 327.90' OF 8-5/8" CASING |
| 335.00 | 360.00  | 25.00     | SANDY SHALE                        |                          |
| 360.00 | 390.00  | 30.00     | SANDY SHALE/COAL                   |                          |
| 390.00 | 420.00  | 30.00     | SANDSTONE                          |                          |
| 420.00 | 450.00  | 30.00     | SANDY SHALE/COAL/SAND              |                          |
| 450.00 | 480.00  | 30.00     | SANDY SHALE/SAND/COAL              |                          |
| 480.00 | 510.00  | 30.00     | SAND/SANDY SHALE/COAL/SAND         |                          |
| 510.00 | 540.00  | 30.00     | SANDY SHALE/SAND                   |                          |
| 540.00 | 570.00  | 30.00     | SAND/SANDY SHALE/SANDSTONE         |                          |
| 570.00 | 600.00  | 30.00     | SANDY SHALE/SAND/SHALE STRKS       |                          |
| 600.00 | 630.00  | 30.00     | SANDY SHALE/SAND                   |                          |
| 630.00 | 660.00  | 30.00     | SANDY SHALE/COAL STRKS/SANDST.     |                          |
| 660.00 | 690.00  | 30.00     | SANDSTONE/SANDY SHALE              |                          |
| 690.00 | 720.00  | 30.00     | SANDY SHALE/SANDSTONE              |                          |
| 720.00 | 750.00  | 30.00     | SAND/SANDY SHALE                   |                          |
| 750.00 | 780.00  | 30.00     | SANDSTONE/SANDY SHALE              |                          |
| 780.00 | 810.00  | 30.00     | SAND/SANDSTONE/SANDY SHALE/SAND    |                          |
| 810.00 | 840.00  | 30.00     | SANDY SHALE/COAL STRKS/SANDST.     |                          |
| 840.00 | 870.00  | 30.00     | SAND/SHALE                         |                          |
| 870.00 | 900.00  | 30.00     | SANDY SHALE                        |                          |
| 900.00 | 960.00  | 60.00     | SANDY SHALE/COAL/SANDY SHALE       |                          |
| 960.00 | 1200.00 | 240.00    | SANDY SHALE                        |                          |

GEOMET  
HOLE PMC-070  
PAGE 2

|         |         |        |  |
|---------|---------|--------|--|
| 1200.00 | 1530.00 | 330.00 | SAND/SHALE                                     |
| 1530.00 | 1560.00 | 30.00  | SANDY SHALE/SANDSTONE STRKS.                   |
| 1560.00 | 1590.00 | 30.00  | SANDY SHALE                                    |
| 1590.00 | 1620.00 | 30.00  | COAL STRKS/SANDY SHALE/SANDSTONE               |
| 1620.00 | 1650.00 | 30.00  | COAL STRKS/SANDY SHALE                         |
| 1650.00 | 1680.00 | 30.00  | SANDY SHALE/COAL STRKS/SANDY SH.               |
| 1680.00 | 1710.00 | 30.00  | SANDY SHALE                                    |
| 1710.00 | 1740.00 | 30.00  | SANDY SHALE/COAL STRKS/SANDY SH.               |
| 1740.00 | 1770.00 | 30.00  | SANDY SHALE/COAL STRKS.                        |
| 1770.00 | 1800.00 | 30.00  | SANDY SHALE/SANDSTONE STRKS.                   |
| 1800.00 | 1830.00 | 30.00  | SANDY SHALE                                    |
| 1830.00 | 1860.00 | 30.00  | SANDY SHALE/COAL STRKS/SANDSTONE               |
| 1860.00 | 1890.00 | 30.00  | SANDSTONE/COAL STRKS/SANDY SHALE               |
| 1890.00 | 1920.00 | 30.00  | SANDY SHALE/COAL/SANDY SHALE                   |
| 1920.00 | 1950.00 | 30.00  | SANDSTONE/COAL/SANDY SHALE                     |
| 1950.00 | 1980.00 | 30.00  | SANDY SHALE/COAL STRKS/SANDSTONE               |
| 1980.00 | 2010.00 | 30.00  | SANDSTONE/SANDY SHALE/SANDSTONE                |
| 2010.00 | 2040.00 | 30.00  | SANDSTONE/COAL STRKS/SANDSTONE                 |
| 2040.00 | 2070.00 | 30.00  | SANDSTONE/COAL/SANDY SHALE                     |
| 2070.00 | 2100.00 | 30.00  | SANDY SHALE/SANDSTONE/SANDY SH.                |
| 2100.00 | 2130.00 | 30.00  | SANDSTONE/SANDY SHALE                          |
| 2130.00 | 2160.00 | 30.00  | SANDY SHALE/SANDSTONE                          |
| 2160.00 | 2190.00 | 30.00  | SANDSTONE/SANDY SH./RED SHALE                  |
| 2190.00 | 2220.00 | 30.00  | SANDY SHALE                                    |
| 2220.00 | 2250.00 | 30.00  | SANDY SHALE/RED SHALE                          |
| 2250.00 | 2280.00 | 30.00  | SAND/SANDY SHALE/RED SHALE                     |
| 2280.00 | 2310.00 | 30.00  | SANDY SHALE/SAND 2,285.48' OF 5-1/2"<br>CASING |

TOTAL DEPTH: 2,310.00  
43.45' OF 13-3/8" CASING  
327.90' OF 8-5/8" CASING  
2,285.48' OF 5-1/2" CASING

OCT 17 2008

MCDOW 1759