

**TEE Engineering Company, Inc.**  
 320 Clifton Hill Court  
 Lexington, KY 40509  
 (606) 263-3330  
 Fax (606) 263-3345

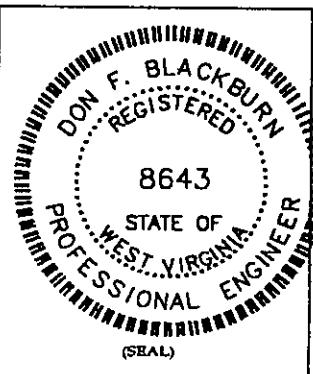
**GeoMet Operating Company, Inc.**  
**Well No. PMC South 110-104-079**

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. WELL PMC SOUTH 79 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 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 110-104-079

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

LOCATION: ELEVATION 2,009.11' NORTHING 107959.52 EASTING 1776567.76  
 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        PEFORATE NEW         
 FORMATION        OTHER PHYSICAL CHANGE IN WELL (SPECIFY)       

PLUG AND ABANDON        CLEAN OUT AND REPLUG       

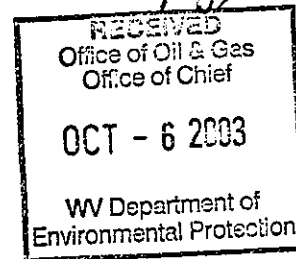
TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 2,122'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

6-6(0)

APR 07 2003

M-DOW 1767C

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.: 110-104-079

LOCATION:

Elevation: 2,009.11' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 5,241' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 14,345' 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>21'</u>	<u>21'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>330'</u>	<u>330'</u>	<u>75/Pumped 120</u>
Date Permit Issued: <u>April 10, 2003</u>				
Date Well Work Commenced: <u>July 18, 2003</u> ↶ ?	<u>5-1/2"</u>	<u>1756'</u>	<u>1756'</u>	<u>305/Pumped 338</u>
Date Well Work Completed: <u>July 16, 2003</u> ↶				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1770'</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): 344, 359, 410, 463, 473, 506, 536, 537, 607, 654, 655, 739, 744, 867, 900, 903, 904, 905, 998, 1024, 1097, 1103, 1151, 1194, 1233, 1286, 1324, 1379, 1380, 1390, 1439, 1445, 1446, 1500, 1557, 1558.

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 11 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 18 2003

MCDOW 1767

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

Well Name PMC South 079

PBTD

1756

**Zone and Perforation Table**

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1557	1560				
N2 Scf	230,000		1500'		20,000	4,500
Acid	400	15%				
Gel Volume	8,000					
ISIP	2,413					
ATP	3,784					
AIR	15	BPM				
Stage 2 Interval	1,380	1383				
N2 Scf	221,000		1350'			
Acid	200	15%				
Gel Volume	7,000					
ISIP	2,140					
ATP	3,398					
AIR	20	BPM				
Stage 3 Interval	1,282	1285				
N2 Scf	249,000		1270'			
Acid	200	15%				
Gel Volume	8,000					
ISIP	3,073					
ATP	3,780					
AIR	18	BPM				
Stage 4 Interval	1,232	1235				
N2 Scf	269,000		30 Balls On Plug @ 1150'			
Acid	400	15%				
Gel Volume	10,000					
ISIP	2,005					
ATP	2,848					
AIR	22	BPM				
Stage 5 Interval	997	999				
N2 Scf	338,000		1022' -1025'	Ball Out 950'		
Acid	450	15%				
Gel Volume	10,500					
ISIP	1,233					
ATP	3,390					
AIR	24	BPM				

Well Name PMC SOUTH 079

PBTD 1756

**Zone and Perforation Table**

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	903	906		
N2 Scf	280,000		30,000	33,000
Acid	200	15%		
Gel Volume	9,400			
ISIP	986			
ATP	2,625			
AIR	26	BPM		
Stage 7 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR		BPM		
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				

McDow 1767

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEOMET OPERATING

HOLE NO.: PMC-079 SOUTH

LOCATION: BUG HURLEY HOLLOW  
LITTLE SLATE CREEK

DRILL: RIG #25

DATE STARTED: 07-07-2003

DATE COMPLETED: 07-09-2003

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	5	5	OVERBURDEN	
5	20	15	SANDY SHALE / COAL / SANDY SHALE	
20	21	1		20.4' W/ 13 3/8" CASING
21	30	9	SANDY SHALE	
30	61	31	SANDY SHALE / COAL STR	
61	92	31	SANDY SHALE / COAL STR / SANDSTONE STR	
92	123	31	SANDY SHALE	
123	154	31	SANDY SHALE / COAL / SANDY SHALE	
154	185	31	SANDY SHALE	
185	215	30	SANDY SHALE / COAL / SANDY SHALE	
215	245	30	SAND / SANDY SHALE	
245	275	30	SANDY SHALE / SANDSTONE / SANDY SHALE	
275	305	30	SAND / SANDY SHALE	
305	335	30	SANDY SHALE	330.51' W/ 8 5/8" CASING
335	350	15	SAND / SANDY SHALE	
350	360	10	SANDY SHALE	
360	390	30	SAND / SANDY SHALE	
390	405	15	SANDY SHALE / SAND	
405	407	2	COAL STR	
407	420	13	SANDY SHALE / SAND	
420	450	30	SANDY SHALE / SANDSTONE	
450	480	30	SANDSTONE / SANDY SHALE	
480	510	30	SANDY SHALE / COAL STR @ 500'	
510	530	20	SANDY SHALE / SAND	
530	532	2	COAL	
532	540	8	SANDY SHALE / SAND	
540	570	30	SANDSTONE	
570	600	30	SAND / SANDY SHALE	
600	630	30	COAL STR / SANDY SHALE	
630	645	15	SANDY SHALE / SANDSTONE	
645	648	3	COAL	
648	660	12	SANDY SHALE / SANDSTONE	
660	690	30	SANDSTONE	
690	720	30	SANDY SHALE / SANDSTONE	
720	750	30	SANDY SHALE / COAL STR	
750	780	30	SANDSTONE / SANDY SHALE	
780	810	30	SANDY SHALE / SANDSTONE	
810	840	30	SANDY SHALE	

PAGE 2  
 GEOMET OPERATING COMPANY  
 PMC-079 SOUTH

FROM	TO	FT.	DESCRIPTION
840	860	20	SANDY SHALE
860	862	2	COAL
862	870	8	SANDY SHALE
870	900	30	SANDY SHALE / COAL 2
900	930	30	COAL 1 / SANDY SHALE
930	960	30	SANDY SHALE / SANDSTONE
960	990	30	SANDSTONE / COAL STR / SANDY SHALE
990	1020	30	COAL STR / SANDSTONE / COAL 3
1020	1050	30	SANDSTONE / SANDY SHALE
1050	1080	30	SANDY SHALE / SANDSTONE / SANDY SHALE
1080	1110	30	SANDY SHALE / COAL STR
1110	1140	30	COAL STR / SANDY SHALE
1140	1170	30	SANDY SHALE / COAL STR
1170	1200	30	SANDSTONE / SANDY SHALE
1200	1230	30	SANDY SHALE
1230	1260	30	SANDY SHALE / SANDSTONE
1260	1290	30	SANDSTONE / COAL STR / SANDY SHALE
1290	1320	30	SANDY SHALE / COAL STR / SANDY SHALE
1320	1350	30	SANDY SHALE / SANDSTONE
1350	1380	30	SANDSTONE / SANDY SHALE / COAL STR
1380	1410	30	COAL STR / SANDY SHALE
1410	1436	26	SANDY SHALE
1436	1437	1	RED SHALE STR
1437	1440	3	SANDY SHALE
1440	1470	30	SANDY SHALE / SANDSTONE
1470	1500	30	SANDSTONE / SANDY SHALE
1500	1530	30	SANDY SHALE / SANDSTONE
1530	1560	30	SANDSTONE / COAL / SANDY SHALE
1560	1590	30	SANDY SHALE / RED SHALE / SANDY SHALE
1590	1620	30	SANDY SHALE / SANDSTONE
1620	1650	30	SANDY SHALE / RED SHALE / SANDY SHALE
1650	1680	30	SANDY SHALE / RED SHALE
1680	1710	30	SANDY SHALE / RED SHALE / SANDY SHALE
1710	1740	30	SANDY SHALE / SANDSTONE / RED SHALE
1740	1770	30	RED SHALE / SANDY SHALE / RED SHALE

TD 7 7/8" HOLE

1770.00 FT. TOTAL DEPTH  
 20.40 FT. OF 13 3/8" CASING  
 330.51 FT. OF 8 5/8" CASING

Mc Dow 1767

OCT 1 04 2008