

TEE Engineering Company, Inc.
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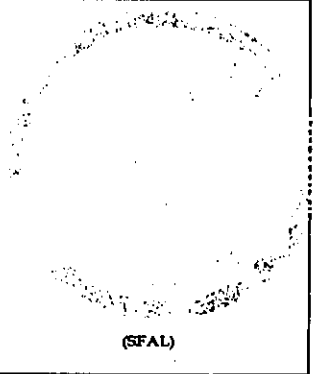
GeoMet Operating Company, Inc.
 Well No. PMC South 108-104-077

FILE NO. 1883-08/2003 WELLS
 DRAWING NO. WELL PMC SOUTH 77 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.

Dan 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 108-104-077
 API WELL NO. 47 - 047 - 01965C
 STATE - COUNTY - PERMIT

WELL TYPE: OIL _____ GAS X _____ CBM _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION X _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1951.92' NORTHING 106569.07 EASTING 1773981.42
 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 2,198'
 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

McDOWELL 1765 C

AP

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.: PMC 108-104-077

LOCATION:

Elevation: 1951.92' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 7.817 Feet South of 37 Deg. 17 Min. 30 Sec.
Longitude: 587 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: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244	13-3/8"	21'	21'	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	8-5/8"	332'	332'	75 /Pumped 120
Date Permit Issued: <u>April 10, 2003</u>				
Date Well Work Commenced: <u>August 27, 2003</u>	5-1/2"	1705'	1705'	296 /Pumped 319
Date Well Work Completed: <u>September 11, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1726'</u>				
Fresh Water Depth (feet): <u>Unknown</u>				
Salt Water Depth (feet): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>N</u>				

Coal Depths (feet): 373, 426, 578, 619, 848, 879, 880, 881, 930, 943, 965, 997, 998, 1148, 1167, 1205, 1244, 1245, 1346, 1527, 1724.

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: Quadrea Smith
DATE: Nov. 19, 2003

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Environmental Protection

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GeoMet Operating Company, Inc. Perforation and Frac Volume Specification

Well Name PMC South 077

PBTD

1706'

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1525	1528				
N2 Scf	275,000		No Plug		20,000	20,600
Acid	200					
Gel Volume	8,865					
ISIP	1,585					
ATP	3,100					
AIR	20	BPM				
Stage 2 Interval	1,344	1347				
N2 Scf	295,000		Plug @ 1400'			
Acid	600					
Gel Volume	8,527					
ISIP	1,400					
ATP	2,900					
AIR	30	BPM				
Stage 3 Interval	1,243	1246				
N2 Scf	338,000		Plug @ 1300'			
Acid	500					
Gel Volume	9,008					
ISIP	1,545					
ATP	3,200					
AIR	30	BPM				
Stage 4 Interval	1,148	1206				
N2 Scf	382,000		Plug @ 1225'			
Acid	750					
Gel Volume						
ISIP						
ATP	2,950					
AIR	30	BPM				
Stage 5 Interval	942	998				
N2 Scf	230,000		Plug @ 1040'			
Acid	700					
Gel Volume	7,643					
ISIP	1,180					
ATP	2,360					
AIR	28	BPM				

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Well Name PMC South 077

PBTD

1706'

Zone and Perforation Table

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	879	882		
N2 Scf	222,000		25,000	32,000
Acid	500	15%		
Gel Volume	7,300			
ISIP	1,690			
ATP	2,700			
AIR	27	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				

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DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEOMET OPERATING CO. HOLE NO.: PMC-077 South

LOCATION: BUG HURLEY DRILL: RIG # 94

DATE STARTED: 08-26-03 DATE COMPLETED: 08-29-03

ELECTRIC LOGGED: YES GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	12	12	OVERBURDEN	
12	21	9	SHALE / COAL / SANDSTONE	
21	30	9	SANDSTONE	21.15' W/ 13 3/8" CASING
30	61	31	SANDY SHALE	
61	92	31	SAND / SHALE / COAL STR	
92	123	31	SANDSTONE	
123	154	31	SAND / SHALE	
154	185	31	SANDY SHALE	
185	215	30	SANDSTONE / SANDY SHALE	
215	245	30	SANDY SHALE / COAL STR / SANDSTONE	
245	275	30	SAND / SHALE STR	
275	305	30	SAND SHALE / SAND STR	
305	335	30	SAND / SHALE	332' W/ 8 5/8" CASING
335	340	5	SHALE	
340	360	20	SANDY SHALE / SANDSTONE	
360	390	30	SANDSTONE / COAL STR /	
			SANDY SHALE / SANDSTONE	
390	420	30	SANDSTONE / COAL STR / SANDY SHALE	
420	450	30	SANDY SHALE / COAL 433-35 / SANDY SHALE	
450	480	30	SANDSTONE / COAL STR 463-65 /	
			SANDY SHALE STR	
480	510	30	SANDSTONE / SANDY SHALE	
510	570	60	SANDY SHALE / SAND STONE STR	
570	600	30	SAND STONE STR / SANDY SHALE	
600	630	30	SANDY SHALE / COAL 613-15 ✓	
630	690	60	SANDY SHALE	
690	720	30	COAL STR / SAND STONE /	
			SANDY SHALE / COAL STR	
720	750	30	SANDY SHALE / SANDSTONE	
750	780	30	SAND STONE / SANDY SHALE STR	
780	795	15	SAND STONE	
795	810	15	SANDY SHALE	
810	840	30	SAND STONE / COAL STR / SANDY SHALE	
840	870	30	SAND / SHALE	
870	900	30	COAL 4 / SAND / SANDY SHALE	
900	930	30	SANDY SHALE / COAL 2 /	
			SANDY SHALE / COAL STR / SAND STONE	

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	FROM	TO	FT.	DESCRIPTION
Stage 5	930	960	30	COAL 2 / SANDY SHALE / COAL 2 / SANDY SHALE
	960	990	30	SAND / SANDY SHALE / COAL 4 / SHALE
	990	1020	30	SAND / SANDY SHALE / SAND / SHALE
	1020	1050	30	SAND / SHALE
	1050	1080	30	SANDY SHALE
Stage 4	1080	1110	30	SANDY SHALE / SAND STONE STR
	1110	1140	30	SANDY SHALE / COAL STR
	1140	1170	30	SANDY SHALE / COAL
	1170	1200	30	SANDY SHALE / COAL / SANDY SHALE
Stage 3	1200	1230	30	SANDY SHALE
	1230	1260	30	COAL 3 / SAND STONE
	1260	1290	30	SAND / SHALE STR
Stage 2	1290	1320	30	SAND STONE
	1320	1350	30	SANDY SHALE / SAND
	1350	1380	30	SAND STONE
	1380	1410	30	HARD SAND / SANDY SHALE STR
Stage 1	1410	1440	30	SANDY SHALE / HARD SAND
	1440	1470	30	HARD SAND / SANDY SHALE STR
	1470	1500	30	HARD SAND STONE
	1500	1530	30	SAND STONE / COAL STR/SAND
	1530	1575	45	SAND STONE
	1575	1650	75	SAND STONE / SANDY SHALE STR
	1650	1680	30	SANDY SHALE / SAND STONE STR
	1680	1710	30	SAND STONE / SANDY SHALE STR

1710.00 FT. TOTAL DEPTH
 21.15 FT. OF 13 3/8" CASING
 332.00 FT. OF 8 5/8" CASING
 1705.00 FT. OF 5 1/2" CASING

1705' W/ 5 1/2" CASING

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