

TEE Engineering Company, Inc.
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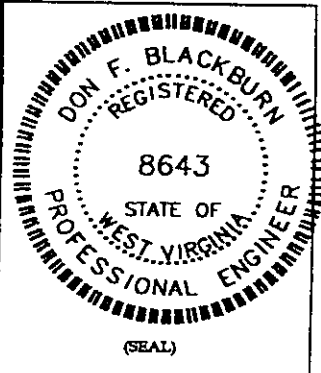
GeoMet Operating Company, Inc.
Well No. PMC South 110-105-083

FILE NO. 1883-08/2003 WELLS
 DRAWING NO. WELL PMC SOUTH 83 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 JULY 15, 2003
 OPERATOR'S WELL NO. PMC SOUTH 110-105-083
 API WELL NO. 47 - 047 - 018250
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,965.16 NORTHING 109169.14 EASTING 1776893.53
 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 CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE 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 1,831'
 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

M = Down 1825

(Bradshaw 270)

AUG 15 2003

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

JB

Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC. OPERATOR WELL NO.: 110-105-083

LOCATION:

Elevation: 1,965.16' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 4,925' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 13,133' Feet West of 81 Deg. 47 Min. 30 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>28'</u>	<u>28'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>331'</u>	<u>331'</u>	<u>74/Pumped 120</u>
Date Permit Issued: <u>August 15, 2003</u>				
Date Well Work Commenced: <u>August 29, 2003</u>	<u>5-1/2"</u>	<u>1716.45'</u>	<u>1716.45'</u>	<u>297/Pumped 319</u>
Date Well Work Completed: <u>September 10, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u>				
Total Depth (feet): <u>1720'</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): 352, 387, 452, 487, 523, 524, 583, 629, 630, 768, 844, 840, 841, 963, 997, 1140, 1169, 1202, 1203, 1260, 1262, 1263, 1265, 1266, 1341, 1406, 1529, 1727.

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: Andrea Smith
DATE: _____

M. Dow 1825C

NOV 14 2003

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

Well Name PMC South 083

PBTD

1716

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1527	1530				
N2 Scf	69,000		No Plug		10,000	
Acid	200					
Gel Volume	3,597					
ISIP	3,900					
ATP	3,900					
AIR	12	BPM				
Stage 2 Interval	1,339	1342				
N2 Scf	302,000		No Plug			
Acid	300					
Gel Volume	16,154					
ISIP	1,665					
ATP	3,300					
AIR	24	BPM				
Stage 3 Interval	1,261	1265				
N2 Scf	382,000		Plug @ 1290'			
Acid	500					
Gel Volume	10,112					
ISIP	1,645					
ATP	3,200					
AIR	24	BPM				
Stage 4 Interval	1,200	1203				
N2 Scf	241,000		Plug @1230'			
Acid	500					
Gel Volume	8,306					
ISIP	1,140					
ATP	2,500					
AIR	30	BPM				
Stage 5 Interval	1,139	1169				
N2 Scf	277,000		Plug @1190'			
Acid	750					
Gel Volume	9,723					
ISIP	1,530					
ATP	3,100					
AIR	26	BPM				

Well Name PMC South 083

PBTD

1716

Zone and Perforation Table

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	961	1,055		
N2 Scf	297,000		30,000	31,500
Acid	750	15%		
Gel Volume	10,029			
ISIP	1,270			
ATP	2,850			
AIR	30	BPM		
	Plug @ 1100'			
Stage 7 Interval	878	881	20,000	23,000
N2 Scf	208,000			
Acid	500			
Gel Volume	6,649			
ISIP	1,635			
ATP	2,500			
AIR	28	BPM		
	Plu @ 910'			
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 1825

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC SOUTH 083

LOCATION: BUG HURLEY

DRILL: RIG 94

DATE STARTED: 08-29-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 09-04-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	10	10	OVERBURDEN	
10	20	10	SOFT SAND	
20	28	08	SHALE/COAL/SANDSTONE	27.65'
28	30	02		W/13-3/8" CASING
30	61	31	SANDY SHALE	
61	92	31	SANDSTONE	
92	123	31	SANDY SHALE/SANDSTONE STR.	
123	154	31	SANDSTONE/SANDY SHALE/COAL STR	
154	185	31	SAND/SANDY SHALE STR.	
185	215	30	SANDSTONE	
215	245	30	SAND/SHALE STR.	
245	275	30	SANDSTONE	
275	305	30	SAND/SANDY SHALE	
305	335	30	SANDY SHALE/COAL - 2'/SANDY SHALE	
335	345	10	SANDSTONE	
345	360	15	SANDSTONE/SANDY SHALE	331' W/8-5/8"
360	390	30	SANDY SHALE	
390	420	30	SHALE/COAL STR./SANDSTONE	
420	450	30	SANDSTONE	
450	480	30	SAND/SANDY SHALE/COAL-2'/SANDY SH	
480	510	30	SANDY SHALE	
510	540	30	SANDY SHALE/SANDSTONE/SANDY SHALE	
540	570	30	SANDY SHAEL/COAL STR/SANDSTONE	
570	600	30	SANDY SHALE/COAL-2/SANDSTONE/ SANDY SHALE	
600	630	30	SANDY SHALE	
630	660	30	SANDY SHALE/COAL STR/SANDSTONE	
660	690	30	SANDY SHALE	
690	720	30	SANDY SHALE/SANDSTONE/SANDY SHALE	
720	750	30	SANDY SHALE	
750	780	30	SHALE/SANDSTONE/SANDY SHALE	
780	810	30	SANDY SHALE/SANDSTONE/SANDY SHALE	
810	840	30	SANDY SHALE/SANDSTONE STR.	
840	870	30	SANDY SHALE/COAL STRKS.	
870	900	30	SANDY SHALE/SAND	
900	930	30	SAND/SANDY SHALE	
			SANDY SHALE	

GEO-MET

HOLE #PMC SOUTH 083

PAGE 2

930	960	30	SANDY SHALE/COAL STRKS/SANDSTONE
960	990	30	SANDSTONE/SANDY SHALE/COAL/988-990
990	1020	30	SANDY SHALE/COAL/SANDSTONE
1020	1050	30	SANDSTONE/COAL STR./SANDY SHALE
1050	1140	90	SANDSTONE/SANDY SHALE/COAL
1140	1170	30	SANDSTONE/COAL/SANDY SHALE
1170	1200	30	SANDY SHALE/SANDSTONE/COAL/S. SH.
1200	1230	30	SANDY SHALE/SANDSTONE
1230	1260	30	SANDSTONE/COAL-1247-1252/SANDY SH.
1260	1290	30	SANDY SHALE/SANDSTONE/SANDY SH.
1290	1320	30	SANDY SHALE STR./SANDSTONE
1320	1350	30	SANDSTONE/COAL STR./SANDY SHALE
1350	1380	30	SANDY SHALE/SANDSTONE
1380	1410	30	SANDSTONE/COAL/SANDY SHALE/COAL
1410	1440	30	SANDY SHALE/SANDSTONE
1440	1470	30	SANDY SHALE/COAL/SANDSTONE
1470	1500	30	SANDY SHALE/SAND
1500	1530	30	SAND/SANDY SHALE STR.
1530	1560	30	SANDSTONE
1560	1590	30	SANDY SHALE/SANDSTONE
1590	1620	30	SANDSTONE
1620	1650	30	SANDY SHALE STR./SAND
1650	1680	30	SANDSTONE
1680	1710	30	SAND/SANDY SHALE STR.
1710	1720	10	SAND 1716.45' W/5-1/2" CASING

TOTAL DEPTH: 1720'

27.65' W/13-3/8"

331' W/ 8-5/8"

1716.45' W/ 5-1/2"

McDow 1825

NOV 14 2003