

TEE Engineering Company, Inc.
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 Lexington, KY 40509
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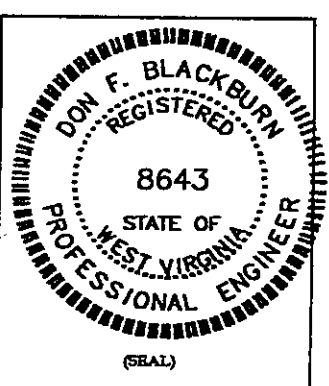
GeoMet Operating Company, Inc.
 Well No. PMC South 109-104-086

FILE NO. 1883-08/2003 WELLS
 DRAWING NO. WELL PMC SOUTH 86 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 109-104-086

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

LOCATION: ELEVATION 2,206.47 NORTHING 106965.91 EASTING 1775095.43
 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 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 2,084'
 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)

AUG 15 2003

M-Dow 1824

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

MP

Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC. OPERATOR WELL NO.: 109-104 -086

LOCATION:

Elevation: 2,206.47' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 6.705' Feet South of 37 Deg. 17 Min. 30 Sec.
Longitude: 181' 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>18'</u>	<u>18'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>332'</u>	<u>332'</u>	<u>75/Pumped 120</u>
Date Permit Issued: <u>August 15, 2003</u>				
Date Well Work Commenced: <u>September 5, 2003</u>	<u>5-1/2"</u>	<u>1931'</u>	<u>1931'</u>	<u>335/Pumped 358</u>
Date Well Work Completed: <u>September 17, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1940'</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): 354, 531, 606, 711, 712, 741, 788, 811, 853, 1116, 1117, 1167, 1186, 1187, 1207, 1208, 1237, 1238, 1445, 1446, 1487, 1651, 1764, 1765, 1766.

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: _____

McDow 1824

NOV 14 2003

GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name PMC South 086

PBTD

1930

Zone and Perforation Table

Frac Stage	Interval		Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 1 Interval	1764	1767	1600'		25,000	17,500
	N2 Scf	247,000				
	Acid	200				
	Gel Volume	7,400				
	ISIP	3,381				
	ATP	3,838				
	AIR	15 BPM				
Stage 2 Interval	1,485	1488	1470'		20,000	21,000
	N2 Scf	324,000				
	Acid	450				
	Gel Volume	7,400				
	ISIP	2,508				
	ATP	3,375				
	AIR	30 BPM				
Stage 3 Interval	1,444	1447	1290'		20,000	21,000
	N2 Scf	280,000				
	Acid	250				
	Gel Volume	7,000				
	ISIP	1,422				
	ATP	3,060				
	AIR	26 BPM				
Stage 4 Interval	1,236	1239	36 Frac Balls on Plug @ 1225'		20,000	21,000
	N2 Scf	192,000				
	Acid	200				
	Gel Volume	6,000				
	ISIP	1,055				
	ATP	2,780				
	AIR	27 BPM				
Stage 5 Interval	1,156	1158	1185-1187 1207-1209 1135'		35,000	37,000
	N2 Scf	296,000				
	Acid	450				
	Gel Volume	10,000				
	ISIP	1,165				
	ATP	2,615				
	AIR	33 BPM				

Well Name PMC South 086

PBTD

1930

Zone and Perforation Table

Stage Interval	1,117	1,117	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1,117	1,117				
N2 Scf	208,000		No Plug		30,000	32,000
Acid	200	15%				
Gel Volume	7,600					
ISIP	1,177					
ATP	2,488					
AIR	30	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						

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC SOUTH 0-86

LOCATION: BUG HURLEY HOLLOW

DRILL RIG: 94

DATE STARTED: 09-05-2003

ELECTRIC LOGGED: YES

DATE COMPLETED: 09-10-2003

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	02	02	OVERBURDEN	
02	18	16	COAL/SHALE/SANDSTONE	18.20' W/ 13-3/8" CASING
18	30	12	SANDY SHALE	
30	61	31	SANDSTONE/SANDY SHALE	
61	92	31	SANDSTONE STR./SANDY SHALE	
92	123	31	SANDY SHALE/COAL STR./SANDSTONE/ SANDY SHALE	
123	154	31	SANDSTONE/SANDY SHALE STR.	
154	185	31	COAL - 2/SANDSTONE/SANDY SHALE	
185	215	30	SANDSTONE/COAL STR./SANDSTONE/SH	
215	245	30	SANDSTONE/SHALE	
245	275	30	SANDSTONE/SANDY SHALE STR.	
275	305	30	SANDSTONE	
305	335	30	SAND/SHALE STR.	
335	345	10	SANDSTONE/SANDY SHALE	
345	360	15	SANDY SHALE/SANDSTONE	331' W/8-5/8"
360	390	30	SANDSTONE/SANDY SHALE/SANDSTONE	
390	450	60	SANDSTONE/SANDY SHALE	
450	510	60	SANDY SHALE	
510	540	30	SANDY SHALE/COAL STR./SANDSTONE SANDY SHALE	
540	570	30	SANDSTONE/SANDY SHALE STR.	
570	600	30	SANDSTONE	
600	630	30	COAL STR./SAND	
630	660	30	SANDY SHALE/COAL STR/SANDSTONE	
660	690	30	SANDSTONE/SANDY SHALE/COAL STR./ SANDSTONE	
690	720	30	SANDY SHALE/COAL STR/SANDSTONE	
720	750	30	SANDY SHALE/COAL - 2/SHALE	
750	780	30	SANDY SHALE/SANDSTONE	
780	810	30	SANDSTONE/COAL STR.	
810	840	30	SANDY SHALE	
840	870	30	SANDY SHALE/COAL STR./SANDSTONE	
870	900	30	SANDY SHALE	
900	930	30	SANDSTONE/SANDY SHALE	

GEO-MET
HOLE #PMC-SOUTH-086
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930	960	30	SANDSTONE/SANDY SHALE STR/ SANDSTONE
960	1020	60	SANDSTONE
1020	1050	30	SANDSTONE/SANDY SHALE STR.
1050	1080	30	SANDSTONE/SANDY SHALE
1080	1110	30	SANDSTONE/COAL STR.
1110	1140	30	SANDY SHALE
1140	1170	30	SANDY SHALE/COAL STR./SANDSTONE
1170	1200	30	SANDY SHALE
1200	1230	30	SANDSTONE/SANDY SHALE STR/ SANDSTONE/COAL - 4
1230	1260	30	SANDY SHALE
1260	1320	60	SANDSTONE/SANDY SHALE STR.
1320	1350	30	SANDY SHALE
1350	1380	30	SANDY SHALE/SANDSTONE STR/ COAL STR.
1380	1410	30	SANDY SHALE/COAL STR./SANDSTONE
1410	1440	30	SANDSTONE/SANDY SHALE/SANDSTONE
1440	1470	30	SANDY SHALE/POSS.COAL STR.
1470	1500	30	SANDY SHALE/COAL STR./SANDSTONE
1500	1560	60	SANDSTONE/SANDY SHALE STR.
1560	1590	30	SANDSTONE/SANDY SHALE/POSS.COAL
1590	1620	30	SANDY SHALE/SANDSTONE STR.
1620	1650	30	SANDY SHALE/COAL/SANDSTONE
1650	1680	30	SANDSTONE/SANDY SHALE STR.
1680	1710	30	SANDY SHALE/SANDSTONE
1710	1740	30	SANDSTONE/SANDY SHALE
1740	1770	30	SANDSTONE/COAL 1753-1757/SANDY SH.
1770	1800	30	SANDY SHALE/SANDSTONE
1800	1830	30	SANDSTONE/SANDY SHALE
1830	1860	30	SANDY SHALE/SANDSTONE
1860	1935	75	SANDSTONE 1931.25' OF 5-1/2"

TOTAL DEPTH: 1935'
18.20' OF 13-3/8" CASING
331.00' OF 8-5/8" CASING
1931.25' OF 5-1/2" CASING

McDow 1824

2003