

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

PROPOSED PMC SOUTH
106-105-082

S 85°05'20" E
94.32

S 45°38'47" E
84.37

18" OAK
7.5'
LOC.

REFERENCES	SCALE 1"=100'
WELL COORDINATES WV STATE PLANE SOUTH ZONE NAD 1927 N. 109748.28 E. 1769506.01	

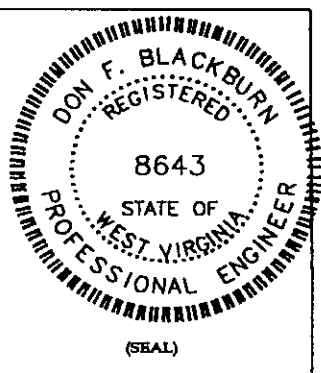
TEE Engineering Company, Inc.
320 Cotters Hill Court
Lexington, KY 40509
(859) 263-5350
Fax (859) 263-5345

GeoMet Operating Company, Inc.
Well No. _____
FILE NO. 1883-08/2003 WELLS
DRAWING NO. WELL PMC SOUTH 82 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 MARCH 5, 2003
OPERATOR'S WELL NO. PMC SOUTH 106-105-082

API WELL NO. 47 - 047 - 1777C
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2,198.48' NORTHING 109748.28 EASTING 1769506.01
DISTRICT SANDY RIVER WATER SHED HITE FOK OF 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 2,128'
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 576)

APR 25 2003

Mc Dow 1777C

1027

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.: 106-105-082

LOCATION:

Elevation: 2,198.48' Quadrangle: Bradshaw

District: Sandy River County: McDowell
Latitude: 197' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 12,606' 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>53'</u>	<u>53'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>400'</u>	<u>400'</u>	<u>90/Pumped 144</u>
Date Permit Issued: <u>April 24, 2003</u>				
Date Well Work Commenced: <u>May 16, 2003</u>	<u>5-1/2"</u>	<u>1988'</u>	<u>1988'</u>	<u>345/Pumped 429</u>
Date Well Work Completed: <u>June 4, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u>				
Total Depth (feet): <u>2130'</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): 426, 597, 599, 675, 735, 739, 781, 807, 873, 919, 1133, 1173, 1174, 1231, 1241, 1242, 1256, 1281, 1282, 1350, 1375, 1424, 1442, 1477, 1546, 1628, 1677, 1683, 1801, 1803, 1806, 1816, 1969.

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 9.8 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:

DATE:

Dundrea Smith

RECEIVED
Office of Oil & Gas
Office of Chief
SEP 25 2003
WV Department of
Environmental Protection

OCT 17 2003

MCDOWELL 1777

GeoMet Operating Company, Inc. Perforation and Frac Volume Specification

Well Name PMC SOUTH 082 PBTD 2025'

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1802	1806				
N2 Scf	225,000		No Plug		20,000	17,000
Acid	200					
Gel Volume	9,600					
ISIP	3,990					
ATP	3,266					
AIR	26	BPM				
Stage 2 Interval	1,626	1629				
N2 Scf	232,000		50 Balls 1600'			
Acid	200					
Gel Volume	8,600					
ISIP	2,641					
ATP	3,106					
AIR	26	BPM				
Stage 3 Interval	1,544	1547				
N2 Scf	223,000		No Plug			
Acid	200					
Gel Volume	5,600					
ISIP	4,000					
ATP	3,678					
AIR	16	BPM				
Stage 4 Interval	1,423	1425				
N2 Scf	332,000		1441' - 1443' 1400'			
Acid	500					
Gel Volume	8,000					
ISIP	1,184					
ATP	2,962					
AIR	20	BPM				
Stage 5 Interval	1,374	1377				
N2 Scf	266,000		1350'			
Acid	200					
Gel Volume	7,600					
ISIP	1,366					
ATP	3,211					
AIR	16	BPM				

Well Name PMC SOUTH 082

PBTD

2025'

Zone and Perforation Table

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1,281	1,284		
N2 Scf	198,000		20,000	22,000
Acid	200			
Gel Volume	6,800			
ISIP	1,319			
ATP	2,814			
AIR	17	BPM		
	36 Balls on Plugs			
	1270'			
Stage 7 Interval	1,230	1,232	35,000	37,000
N2 Scf	330,000			
Acid	500			
Gel Volume	12,000			
ISIP	2,442			
ATP	2,892			
AIR	25	BPM		
	1240' - 1243', 1255' - 1257'			
	1200'			
Stage 8 Interval	1,172	1,175	25,000	15,000
N2 Scf	194,000			
Acid	200			
Gel Volume	6,075			
ISIP				
ATP	3,138			
AIR	17	BPM		
	No Plug			
Stage 9 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR		BPM		
Stage 10 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR				

McDow 1777

OCT 17 2006

DRILL DATA HOLE – NOAH HORN WELL DRILLING, INC.

COMPANY: GEOMET OPERATING CO. HOLE NO.: PMC-082 SOUTH
 LOCATION: PEA PATCH DRILL: RIG # 23
 DATE STARTED: 05-15-2003 DATE COMPLETED: 05-20-2003
 ELECTRIC LOGGED: YES GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	53	53	OVERBURDEN	53' W/ 13 3/8" CASING
53	61	8	SANDSTONE	
61	92	31	SAND / SANDY SHALE	
92	123	31	SANDSTONE	
123	154	31	SANDY SHALE / SAND	
154	185	31	SAND / SANDY SHALE STR	
185	212	27	SAND	
212	215	3	COAL	
215	245	30	SANDY SHALE / SANDSTONE	
245	275	30	SAND / SANDY SHALE / SAND	
275	277	2	SHALE / SANDY SHALE	
277	281	4	COAL	
281	305	24	SHALE / SANDY SHALE	
305	335	30	SAND / SANDY SHALE	
				COAL STR @ 310'
335	365	30	SAND / SANDY SHALE	
365	395	30	SAND / SHALE STR / SAND	
395	415	20	SANDY SHALE	400' W/ 8 5/8" CASING
415	420	5	SANDY SHALE	
420	450	30	SANDY SHALE / COAL STR / SANDSTONE	
450	480	30	SANDY SHALE	
480	510	30	SANDSTONE / SANDY SHALE STR	
510	540	30	SANDY SHALE / SANDSTONE	
540	570	30	SANDSTONE / COAL STR / SANDY SHALE	
570	600	30	SANDY SHALE / COAL 2 / SANDY SHALE	
600	630	30	SANDY SHALE / COAL STR / SANDSTONE	
630	660	30	SANDSTONE / SANDY SHALE	
660	690	30	SANDY SHALE / COAL 2 / SANDY SHALE	
690	720	30	SANDSTONE	
720	750	30	SANDSTONE / COAL 3 / SANDY SHALE	
750	780	30	SANDY SHALE / SANDSTONE	
780	810	30	SANDSTONE / COAL 2 / SANDY SHALE	
810	840	30	SANDY SHALE / SANDSTONE	
840	870	30	SANDY SHALE / COAL STR / SANDY SHALE	
870	900	30	SANDY SHALE / SANDSTONE STR	
900	930	30	SANDY SHALE / COAL 2 / SANDY SHALE	
930	990	60	SANDY SHALE	
990	1020	30	SANDY SHALE / COAL STR / SANDSTONE	
1020	1050	30	SANDY SHALE / SANDSTONE	
1050	1080	30	SANDSTONE / SANDY SHALE / SANDSTONE	

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 GEOMET OPERATING CO.
 PMC-082 South

FROM	TO	FT.	DESCRIPTION
1080	1110	30	SANDSTONE
1110	1140	30	SANDSTONE / SANDY SHALE
1140	1170	30	SANDY SHALE / SANDSTONE
1170	1200	30	COAL 3 / SANDY SHALE
1200	1230	30	SANDY SHALE / SANDSTONE
1230	1260	30	COAL 3 / SANDY SHALE
1260	1290	30	SANDSTONE / SANDY SHALE / COAL STR
1290	1320	30	SANDY SHALE / SANDSTONE
1320	1350	30	SANDY SHALE / COAL STR / SANDSTONE
1350	1380	30	SANDSTONE / SANDY SHALE
1380	1410	30	SANDY SHALE
1410	1440	30	SANDY SHALE / COAL STR / SANDSTONE
1440	1470	30	COAL 2 / SANDY SHALE / SANDSTONE
1470	1500	30	SANDSTONE / SANDY SHALE
1500	1530	30	SANDY SHALE / COAL STR / SANDSTONE
1530	1560	30	SANDY SHALE / SANDSTONE
1560	1590	30	SANDSTONE / SANDY SHALE / SANDSTONE
1590	1620	30	SANDSTONE / SANDY SHALE
1620	1650	30	SANDY SHALE
1650	1680	30	SANDY SH / SANDSTONE / SANDY SHALE
1680	1710	30	SANDY SHALE
1710	1740	30	SANDY SHALE / COAL STR / SANDSTONE
1740	1770	30	SANDY SHALE / SANDSTONE
1770	1800	30	SANDSTONE / SANDY SHALE
1800	1830	30	COAL STR / SANDY SHALE
1830	1860	30	SANDY SHALE / SANDSTONE
1860	1890	30	SANDSTONE / SANDY SHALE / SANDSTONE
1890	1920	30	SANDSTONE
1920	1950	30	SANDSTONE / SANDY SHALE / SANDSTONE
1950	1980	30	SANDSTONE / RED SHALE / SANDY SHALE
1980	2010	30	SANDSTONE / SANDY SHALE
2010	2040	30	SANDY SHALE
2040	2070	30	SANDY SHALE / SANDSTONE STR
2070	2100	30	SANDY SHALE / RED SHALE / SANDY SHALE
2100	2130	30	SANDY SHALE TD 8" HOLE

2130.00 FT. TOTAL DEPTH
 53.00 FT. OF 13 3/8" CASING
 400.00 FT. OF 8 5/8" CASING

OCT 17 2003

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