

PROPOSED PMC SOUTH 111-104-081

S 78°31'04\" E 53.63'

DOUBLE MAPLE

14\" POPLAR

REFERENCES | SCALE 1\"=100'

WELL COORDINATES
WV STATE PLANE
SOUTH ZONE NAD 1927
N. 107353.01
E. 1780021.97

TEE Engineering Company, Inc.

320 Carvers Hill Court
Leakington, KY 40509
(859) 263-5350
Fax (859) 263-5345



P.O. Box 219
Summitville, KY 41169
(606) 478-9024
Fax (606) 478-9019

GeoMet Operating Company, Inc.
Well No. PMC South 111-104-081

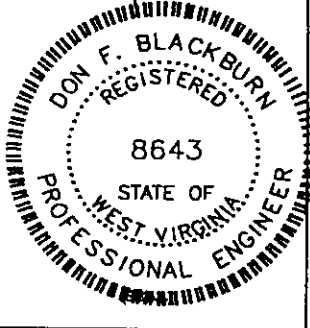
FILE NO. 1883-08/2003 WELLS
DRAWING NO. WELL PMC SOUTH 81 PLAT
SCALE: 1\" = 2,000'
MIN. DEGREE OF ACCURACY 1 : 2,500
PROVEN SOURCE OF ELEVATION
GPS STATION TEC-1 (ELEV. 2406.60)

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.

7.5'
LOC.



STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE MARCH 5, 2003
OPERATOR'S WELL NO. PMC SOUTH 111-104-081

API WELL NO. 47 - 047 - 1776C
STATE COUNTY PERMIT

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 2,159.71' NORTHING 107353.01 EASTING 1780021.97
DISTRICT BIG CREEK WATER SHED LAUREL FORK 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) _____

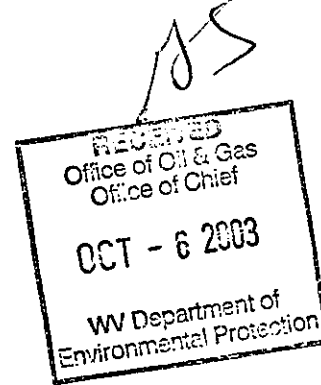
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 2,117'
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 BIRMINGHAM, ALABAMA 35244 ADDRESS 330 HARPER PARK DRIVE SUITE A BECKLEY, WV 25801

MCDOWELL 1776C

6-6(0)

APR 2 2003

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.: 111-104-081

LOCATION:

Elevation: 2,159.71' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 1,782' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 14,923' 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>32'</u>	<u>32'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>333'</u>	<u>333'</u>	<u>75/Pumped 120</u>
Date Permit Issued: <u>April 24, 2003</u>				
Date Well Work Commenced: <u>July 15, 2003</u>	<u>5-1/2"</u>	<u>1885'</u>	<u>1885'</u>	<u>327/Pumped 364</u>
Date Well Work Completed: <u>July 23, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1901'</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): 347, 457, 458, 532, 589, 633, 662, 741, 788, 927, 1013, 1051, 1053, 1054, 1071, 1099, 1137, 1164, 1165, 1197, 1221, 1311, 1347, 1383, 1425, 1434, 1462, 1514, 1583, 1589, 1708, 1839, 1897.

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 13 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 1776

007-10 2003

GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name PMC South 081

PBTD

1886

Zone and Perforation Table

Frac			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 1 Interval	1706	1709				
N2 Scf	209,000		No Plug		15,000	13,000
Acid	500	7.5%				
Gel Volume	8,330					
ISIP	4,000					
ATP	3,422					
AIR	15	BPM				
Stage 2 Interval	1,513	1516				
N2 Scf	89,000		1460'			
Acid	500	7.5%				
Gel Volume	10,000					
ISIP	2,233					
ATP	3,428					
AIR	27	BPM				
Stage 3 Interval	1,424	1427				
N2 Scf	366,000		1432'-1435'			
Acid	500	7.5%				
Gel Volume	10,000					
ISIP	2,233					
ATP	3,428					
AIR	27	BPM				
Stage 4 Interval	1,382	1384				
N2 Scf	413,000		1347' -1349'			
Acid	750	7.5%				
Gel Volume	12,600					
ISIP	1,315					
ATP	2,794					
AIR	30	BPM				
Stage 5 Interval	1,136					
N2 Scf	317,000		1136' -1139'			
Acid	750	7.5%				
Gel Volume	10,500					
ISIP	1,066					
ATP	2,698					
AIR	28	BPM				
					1163' -1166'	Ball Out
			1125'			

Well Name PMC South 081

PBTD

1886

Zone and Perforation Table

Stage Interval	1,098	1,101	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf	266,000		1114' -1116	1080'	30,000	32,000
Acid	650	15%				
Gel Volume	11,000					
ISIP	1,012					
ATP	2,238					
AIR	31	BPM				
Stage 7 Interval	1,051	1,054				
N2 Scf	270,000		No Plug			
Acid	500					
Gel Volume	8,400					
ISIP	1,248					
ATP	2,414					
AIR	29	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

HOLE NO.: PMC-081 South

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG # 94

DATE STARTED: 07-14-2003

DATE COMPLETED: 07-16-2003

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	31.5	31.5	OVERBURDEN	31.5' W/ 13 3/8" CASING
			BEGIN 10 1/2" DRILLING	
31.5	61	29.5	SAND / SANDY SHALE	
61	92	31	SANDY SHALE / COAL STR / SANDSTONE	
92	123	31	SANDSTONE	
123	154	31	SANDSTONE / SANDY SHALE	
154	185	31	SANDY SHALE / COAL STR / SANDSTONE	
185	215	30	COAL STR / SANDY SHALE / COAL STR	
215	245	30	SANDSTONE	
245	275	30	SANDY SHALE / COAL STR / SANDY SHALE	
275	305	30	SAND / SANDY SHALE	
305	335	30	SANDY SHALE	332.75' W/ 8 5/8" CASING
335	345	10	SANDSTONE	TD 10 1/2" HOLE
			BEGIN 7 7/8" DRILLING	
345	360	15	SAND	
360	390	30	SANDSTONE / SANDY SHALE	
390	420	30	SANDY SHALE / SANDSTONE	
420	450	30	SANDSTONE / COAL STR / SANDY SHALE	
450	480	30	SANDY SHALE / COAL STR / SANDY SHALE	
480	510	30	SANDY SHALE / COAL STR / SANDSTONE	
510	540	30	SANDY SHALE / SANDSTONE	
540	570	30	SANDSTONE	
570	600	30	SANDSTONE / SANDY SHALE	
600	630	30	SANDY SHALE / COAL STR	
630	660	30	SANDY SHALE / SANDSTONE	
660	690	30	SANDSTONE / SANDY SHALE / COAL STR	
690	720	30	SANDSTONE / SANDY SHALE	
720	750	30	SANDY SHALE / COAL STR / SANDY SHALE	
750	780	30	SANDY SHALE	
780	810	30	SANDSTONE / SANDY SHALE	
810	840	30	SANDY SHALE / SAND	
840	870	30	SAND / SANDY SHALE STR	
870	900	30	SANDSTONE	
900	930	30	SANDSTONE / SANDY SHALE STR	
930	960	30	SAND / SANDY SHALE	
960	990	30	SANDY SHALE / SANDSTONE / SANDY SHALE	
990	1020	30	SANDSTONE / SANDY SHALE / COAL STR / SANDY SHALE	
1020	1050	30	SAND / SANDY SHALE	
1050	1062	12	COAL STR / SANDY SHALE / SANDSTONE	
1062	1064	2	COAL	

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 GEOMET OPERATING COMPANY
 PMC-081 South

FROM	TO	FT.	DESCRIPTION
1064	1080	16	COAL STR / SANDY SHALE / SANDSTONE
1080	1110	30	SANDSTONE / SANDY SHALE
1110	1140	30	SANDY SHALE
1140	1153	13	SANDY SHALE / SANDSTONE
1153	1155	2	COAL W/ SHALE
1155	1170	15	SANDY SHALE / SANDSTONE
1170	1200	30	SANDSTONE / SANDY SHALE
1200	1230	30	SANDSTONE
1230	1260	30	SANDSTONE / SANDY SHALE
1260	1290	30	SANDY SHALE / COAL STR / SAND
1290	1320	30	SANDSTONE / SANDY SHALE
1320	1335	15	SANDY SHALE / SAND
1335	1337	2	COAL
1337	1350	13	SANDY SHALE / SAND
1350	1366	16	SANDY SHALE
1366	1370	4	COAL
1370	1380	10	SANDY SHALE
1380	1410	30	SANDY SHALE / COAL STR
1410	1420	10	SHALE / SANDY SHALE
1420	1423	3	COAL W/ SHALE
1423	1440	17	SHALE / SANDY SHALE
1440	1470	30	SANDSTONE / SANDY SHALE
1470	1500	30	SANDY SHALE / SANDSTONE STR
1500	1530	30	SANDSTONE / SANDY SHALE
1530	1560	30	SAND / SANDY SHALE
1560	1590	30	SAND
1590	1620	30	SANDSTONE / SANDY SHALE STR / SANDSTONE
1620	1650	30	SANDSTONE / COAL STR / SANDY SHALE
1650	1680	30	SANDY SHALE / SANDSTONE
1680	1710	30	SANDSTONE / SANDY SHALE
1710	1740	30	SANDY SHALE / SANDSTONE / SANDY SHALE
1740	1770	30	SANDY SHALE / SANDSTONE
1770	1800	30	SANDY SHALE / RED SHALE / SANDY SHALE
1800	1830	30	RED SHALE / SANDY SHALE / RED SHALE
1830	1860	30	RED SHALE / SANDSTONE / SANDY SHALE
1860	1890	30	SANDY SHALE / SANDSTONE
1890	1900	10	SANDY SHALE / RED SHALE

TD 7 7/8" HOLE

1900.00 FT. TOTAL DEPTH
 31.50 FT. OF 13 3/8" CASING
 332.75 FT. OF 8 5/8" CASING

OCT 10 2003

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