

12" WHITE OAK
16" WHITE OAK

PROPOSED PMC SOUTH 111-103-073

REFERENCES	SCALE 1"=100'
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WELL COORDINATES
WV STATE PLANE
SOUTH ZONE NAD 1927
N. 105917.86
E. 1779427.59

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

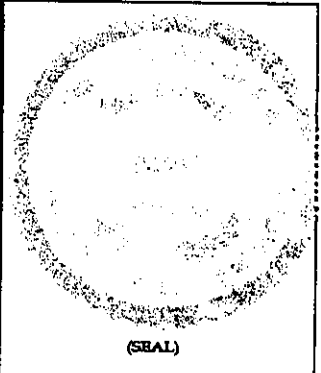
GeoMet Operating Company, Inc.
Well No. PMC South 111-103-073

FILE NO. 1883-08
DRAWING NO. WELL PMC 073 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.

[Signature]
(SIGNATURE)

R.P.E. 8643 R.P.S.



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE DECEMBER 31, 2002
OPERATOR'S WELL NO. PMC SOUTH 111-103-073

WELL NO. 47 - 047 - 017602
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2,259.52 NORTHING 105,917.86 EASTING 1,779,427.59
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 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 _____
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT GREGG CLEARY
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 1105 HEATHERWOOD ROAD
BIRMINGHAM, ALABAMA 35244 BLUEFIELD, WV 24701

6-6 (0)

DEC 14 2005

MCDOWELL 1762 C

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

AG

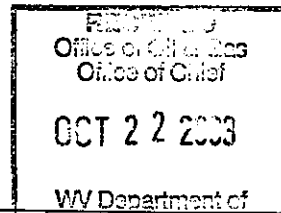
Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC. OPERATOR WELL NO.: 111-103-073

LOCATION:

Elevation: 2259.52' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 2,365' Feet South of 37 Deg. 17 Min. 30 Sec.
Longitude: 1,193' 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>21'</u>	<u>21'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>329'</u>	<u>329'</u>	<u>74/Pumped 120</u>
Date Permit Issued: <u>March 13, 2003</u>				
Date Well Work Commenced: <u>July 17, 2003</u>	<u>5-1/2"</u>	<u>1926'</u>	<u>1926'</u>	<u>334/Pumped 377</u>
Date Well Work Completed: <u>July 29, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u>				
Total Depth (feet): <u>1960'</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): 340, 342, 537, 614, 673, 711, 747, 748, 824, 862, 1039, 1131, 1132, 1133, 1151, 1183, 1184, 1188, 1209, 1241, 1278, 1295, 1285, 1393, 1429, 1458, 1459, 1620, 1621, 1667, 1674, 1793, 1905.

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: _____

NOV 14 2003

McDow 1762

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

Well Name PMC South 073

PBTD 1931

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1792	1795				
N2 Scf	208,000		No Plug		15,000	10,000
Acid	200	15%				
Gel Volume	5,200					
ISIP	4,174					
ATP	3,284					
AIR	23	BPM				
Stage 2 Interval	1,294	1296				
N2 Scf	324,000		36 Frac Balls On Plug @ 1540'			
Acid	500	15%				
Gel Volume	8,400					
ISIP	1,445					
ATP	2,438					
AIR	30	BPM				
Stage 3 Interval	1,428	1431				
N2 Scf	344,000		1457' -1460' Ball Out 1410'			
Acid	750	7.5%				
Gel Volume	11,600					
ISIP	1,294					
ATP	2,796					
AIR	30	BPM				
Stage 4 Interval	1,384	1386				
N2 Scf	278,000		1392' -1394' No Ball Out 1310'			
Acid	500	7.5%				
Gel Volume	9,700					
ISIP	1,211					
ATP	2,398					
AIR	28	BPM				
Stage 5 Interval	1,240	1243				
N2 Scf	353,000		36 Balls On Plug @ 1230'			
Acid	700	15%				
Gel Volume	8,600					
ISIP	1,062					
ATP	3,353					
AIR	26	BPM				

Well Name PMC SOUTH 073

PBTD

1931

Zone and Perforation Table

	1,183	1,185	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf	267,000		1187' -1189' /1208' -1210'	Ball Out 1150'	35,000	37,000
Acid	750	15%				
Gel Volume	10,700					
ISIP	1,000					
ATP	2,343					
AIR	33	BPM				
Stage 7 Interval	1,130	1,134				
N2 Scf	286,000		No Plug			
Acid	650					
Gel Volume	8,000					
ISIP	1,441					
ATP	2,688					
AIR	26	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						

NOV 14 2003

McDon 1762

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC-SOUTH-073

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 94

DATE STARTED: 07-16-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 07-18-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	2	2	OVERBURDEN	
2	21	19	SOFT SAND/SANDSTONE	21.10' OF 13-3/8"
21	30	9	SANDSTONE/SANDY SHALE/COAL STRKS.	
30	61	31	SANDY SHALE	
61	92	31	SANDSTONE	
92	123	31	SANDSTONE/SANDY SHALE	
123	154	31	SANDY SHALE/COAL STRKS/SANDSTONE	
154	185	31	SANDSTONE	
185	215	30	SANDSTONE/COAL/SANDY SHALE	
215	245	30	SANDSTONE/SANDY SHALE	
245	275	30	SANDSTONE	
275	305	30	SANDSTONE/SANDY SHALE	
305	340	35	SANDSTONE	329' OF 8-5/8"
340	360	20	SANDSTONE/SANDY SHALE STRKS.	
360	390	30	SANDSTONE	
390	420	30	SANDSTONE/SANDY SHALE STRKS.	
420	450	30	SANDY SHALE/SANDSTONE	
450	480	30	SANDSTONE STRKS/SANDY SHALE	
480	510	30	SANDY SHALE/SANDSTONE	
510	540	30	SANDY SHALE/COAL-530-532' /SHALE	
540	570	30	SANDSTONE/SANDY SHALE	
570	600	30	SANDY SHALE	
600	630	30	SANDY SHALE/SANDSTONE	
630	660	30	SANDSTONE/SANDY SHALE STRKS/ SANDSTONE	
660	690	30	SANDY SHALE STRKS/SANDSTONE	
690	720	30	SAND/COAL STRKS/SANDSTONE	
720	750	30	SANDSTONE/SANDY SHALE/COAL 740-744'/ SANDY SHALE	
750	780	30	SANDSTONE/SANDY SHALE	
780	810	30	SANDY SHALEJ/COAL STRKS/SANDY SH.	
810	840	30	SANDY SHALE/COAL-820-822'/SANDY SH.	
840	870	30	SANDSTONE/SANDY SHALE/COAL	
870	900	30	SANDY SHALE/SANDSTONE	
900	930	30	SANDSTONE/SANDY SHALE	
930	960	30	SANDY SHALE/COAL/SANDSTONE	

GEO-MET
HOLE #PMC-SOUTH-073
PAGE 2

960	990	30	SANDSTONE
990	1020	30	SANDSTONE/SANDY SHALE
1020	1050	30	SANDY SHALE/SANDSTONE
1050	1080	30	SANDSTONE/SANDY SHALE
1080	1110	30	COAL-2/SANDY SHALE/SANDSTONE
1110	1140	30	SANDY SHALE/SANDSTONE
1140	1170	30	SANDSTONE/COAL-2/SANDY SHALE
1170	1200	30	SANDSTONE/SANDY SHALE
1200	1230	30	SANDY SHALE/COAL/SANDSTONE
1230	1260	30	SANDSTONE/SANDY SHALE
1260	1290	30	SANDY SHALE/COAL-2/SANDY SHALE
1290	1320	30	SANDY SHALE/SANDSTONE
1320	1350	30	SANDSTONE/SANDY SHALE
1350	1380	30	SANDY SHALE/SANDSTONE
1380	1410	30	COAL STRKS/SANDSTONE
1410	1440	30	SANDSTONE/SANDY SHALE
1440	1470	30	SANDY SHALE/COAL STRKS/SANDSTONE
1470	1500	30	SANDY SHALE/SHALE
1500	1530	30	SANDY SHALE/SANDSTONE
1530	1560	30	SANDSTONE/SANDY SHALE/SANDSTONE
1560	1590	30	SANDSTONE/SANDY SHALE
1590	1620	30	SANDY SHALE/COAL STRKS/SANDY SH.
1620	1650	30	SANDY SHALE/SANDSTONE
1650	1680	30	COAL/SANDY SHALE/SANDSTONE
1680	1710	30	SANDSTONE/RED SHALE/SANDY SHALE
1710	1740	30	SANDY SHALE/SANDSTONE
1740	1770	30	SANDSTONE/RED SHALE/SANDSTONE
1770	1800	30	RED SHALE/SANDSTONE
1800	1830	30	RED SHALE/SANDSTONE
1830	1860	30	SANDY SHALE/SANDSTONE
1860	1890	30	SAND/SANDY SHALE/SAND
1890	1920	30	SANDSTONE/SANDY SHALE
1920	1950	30	SANDY SHALE

TOTAL DEPTH: 1950'
21.10' OF 13-3/8" CASING
329' OF 8-5/8" CASING

NOV 14 2003

Mc Dow 1762

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

MS
RECEIVED
Office of Oil & Gas
Office of Chief
OCT - 6 2003
WV Department of
Environmental Protection

Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC. OPERATOR WELL NO.: 111-103-073

LOCATION:

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Date Permission granted on:				
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Total Depth (feet): <u>1960'</u>				
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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 1762
OCT 10 2003

GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name PMC South 073

PBTD

1931

Zone and Perforation Table

Frac			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
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ISIP	1,294					
ATP	2,796					
AIR	30	BPM				
Stage 4 Interval	1,384	1386				36 Balls On Plug @ 1230'
N2 Scf	278,000		36 Balls On Plug @ 1230'	25,000	27,000	
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Well Name PMC SOUTH 073

PBTD

1982

Zone and Perforation Table

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Gel Volume						
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McDOW 1762

OCT 10 2000

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC-SOUTH-073

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 94

DATE STARTED: 07-16-03

ELECTRIC LOGGED: YES

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GROUTED: YES

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GEO-MET
HOLE #PMC-SOUTH-073
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1410	1440	30	SANDSTONE/SANDY SHALE
1440	1470	30	SANDY SHALE/COAL STRKS/SANDSTONE
1470	1500	30	SANDY SHALE/SHALE
1500	1530	30	SANDY SHALE/SANDSTONE
1530	1560	30	SANDSTONE/SANDY SHALE/SANDSTONE
1560	1590	30	SANDSTONE/SANDY SHALE
1590	1620	30	SANDY SHALE/COAL STRKS/SANDY SH.
1620	1650	30	SANDY SHALE/SANDSTONE
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1710	1740	30	SANDY SHALE/SANDSTONE
1740	1770	30	SANDSTONE/RED SHALE/SANDSTONE
1770	1800	30	RED SHALE/SANDSTONE
1800	1830	30	RED SHALE/SANDSTONE
1830	1860	30	SANDY SHALE/SANDSTONE
1860	1890	30	SAND/SANDY SHALE/SAND
1890	1920	30	SANDSTONE/SANDY SHALE
1920	1950	30	SANDY SHALE

TOTAL DEPTH: 1950'
21.10' OF 13-3/8" CASING
329' OF 8-5/8" CASING

OCT 16 2003

M-Dow 1762