

PROPOSED PMC NORTH 111-107-119

20" RED OAK  
16" CHESTNUT OAK

REFERENCES      SCALE 1"=100'

WELL COORDINATES  
WV STATE PLANE  
SOUTH ZONE NAD 1927  
N. 113798.80  
E. 1779027.06

**TEE Engineering Company, Inc.**  
320 Cutlers Hill Court  
Lexington, KY 40509  
(606) 263-5350  
Fax (606) 263-5345

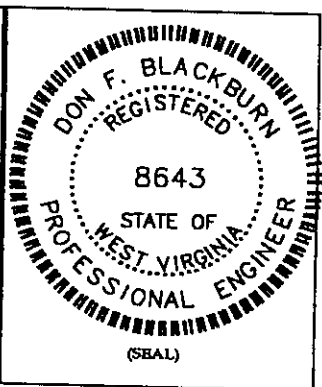
**GeoMet Operating Company, Inc.**  
Well No. PMC North 111-107-119

FILE NO. 1883-08  
DRAWING NO. WELL PMC-N-119 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 SEPTEMBER 18, 2003  
OPERATOR'S WELL NO. PMC NORTH 111-107-119

API WELL NO. 47 - 047 - 01837C  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2,329.01' NORTHING 113798.80 EASTING 1779027.06  
DISTRICT BIG CREEK WATER SHED LITTLE SLATE CREEK  
QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER POCAHONTAS MINING, LLC. ACREAGE 1,252  
CBM ROYALTY OWNER POCAHONTAS MINING, LLC. LEASE ACREAGE 1,252  
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 2073'  
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

*AP 13*

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.: PMC North 111-107-119

LOCATION:

Elevation: 2,329.01' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
 Latitude: 2,829 Feet South of 37 Deg. 20 Min. 00 Sec.  
 Longitude: 8,486 Feet West of 81 Deg. 45 Min. 00 Sec.

Company: <b>GeoMet Operating Company</b>	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
Address: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244	13-3/8"	55'	55'	
Agent: <b>Gregg Cleary</b>				
Inspector: <b>Carlos Hively</b>	7"	312'	312'	60/Pumped 90
Date Permit Issued: <b>October 28, 2003</b>				
Date Well Work Commenced: <b>11/14/2003</b>	4-1/2"	2083'	2083'	227/ Pumped 273
Date Well Work Completed: <b>December 5, 2003</b>				
Verbal Plugging:				
Date Permission granted on:				
Rotary XXXX Cable Rig				
Total Depth (feet): <b>2090'</b>				
Fresh Water Depth (feet): <b>Unknown</b>				
Salt Water Depth (feet): <b>Unknown</b>				
Is coal being mined in area (N/Y)? <b>N</b>				

Coal Depths (feet): 635, 636, 717, 765, 839, 894, 904, 905, 954, 955, 1092, 1093, 1094, 1095, 1096, 1240, 1295, 1296, 1329, 1509, 1529, 1598, 1599, 1600, 1601, 1726, 1727, 1798, 1859, 1913, 2084.

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 87 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: *Gregg Cleary*  
 BY: Agent  
 DATE: 4-7-04

McDow 1837

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

Well Name PMC NORTH 119

PBTD

**Cobra Jet  
Zone and Perforation Table**

Frac			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	Stage 1 Interval	1858				
N2 Scf	145,000		No Plugs  Easy Frac		15,000	15,000
Acid	50					
Gel Volume	3,318					
ISIP	1,974					
ATP	2,398					
AIR	10	BPM				
Stage 2 Interval	1,797	1801				
N2 Scf	150,000		Good Frac			
Acid	50					
Gel Volume	3,738					
ISIP	2,210					
ATP	2,583					
AIR	10	BPM				
Stage 3 Interval	1,725	1728				
N2 Scf	150,000		Slightly Higher PSI's			
Acid	50					
Gel Volume	3,066					
ISIP	2,047					
ATP	2,938					
AIR	10	BPM				
Stage 4 Interval	1,528	1530				
N2 Scf	154,000		Broke @ Low PSI 1471# 1st Zone Above Mine Works			
Acid	50					
Gel Volume	3,486					
ISIP	2,381					
ATP	2,488					
AIR	10.5	BPM				
Stage 5 Interval	1,508	1510				
N2 Scf	121,000		Easy Frac			
Acid	50					
Gel Volume	6,678					
ISIP	1,402					
ATP	1,796					
AIR	10	BPM				

Well Name PMC NORTH 119

PBTD

**Zone and Perforation Table**

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1,328	1,331		
N2 Scf	121,000		20,000	20,000
Acid	50			
Gel Volume	6,678			
ISIP	11,402			
ATP	1,796			
AIR	10.5	BPM		
	Easy Frac			
Stage 7 Interval	1,294	1,296	15,000	11,500
N2 Scf	121,000			
Acid	50			
Gel Volume	3,238			
ISIP	4,000			
ATP	2,652			
AIR	10.5	BPM		
	N2 Truck Died Screenses Out			
Stage 8 Interval	1,094	1,097	35,000	35,000
N2 Scf	139,000			
Acid	100			
Gel Volume	4,998			
ISIP	1,096			
ATP	1,355			
AIR	11.5	BPM		
	Low PSI's Too Low Fracted Easy			
Stage 9 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR		BPM		
Stage 10 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR				

JUN 11 2004

Mc Dow 1837

# DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC NORTH ~~108~~ 119

LOCATION: BUG HURLEY

DRILL: RIG 94

DATE STARTED: 11-13-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 11-16-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	40	40	OVERBURDEN	
40	55	15	SHALE/COAL/SANDSTONE	55.25' W/ 13-3/8" CASING
55	56	01	SANDSTONE	
56	87	31	SANDY SHALE/COAL STR./SANDSTONE	
87	118	31	SANDSTONE	
118	149	31	SANDSTONE/SANDY SHALE STR./SANDST.	
149	180	31	COAL STR./SANDY SHALE	
180	210	30	SANDY SHALE	
210	240	30	SANDSTONE/SANDY SHALE/COAL STR.	
240	270	30	SANDY SHALE/COAL - 2/SANDY SHALE	
270	300	30	SANDY SHALE/COAL-3/SANDSTONE	
300	330	30	SANDSTONE/SANDY SHALE/COAL STR.	
330	335	05	SANDSTONE	312' W/7" CASING
335	365	30	SANDSTONE/SANDY SHALE/SANDSTONE	
365	425	60	SANDSTONE	
425	455	30	SANDSTONE/SANDY SHALE STRKS.	
455	485	30	SANDSTONE/SANDY SHALE/COAL STR.	
485	515	30	SANDSTONE/COAL STR./SANDY SHALE	
515	545	30	SANDY SHALE/SANDSTONE/SANDY SHALE	
545	575	30	SANDY SHALE/SANDSTONE	
575	605	30	SANDSTONE/COAL STR./SANDY SHALE/ BROKEN UP	
605	635	30	SANDY SHALE/COAL/	
635	665	30	SANDSTONE	
665	695	30	SANDSTONE/SANDY SHALE	
695	725	30	SANDY SHALE/COAL	
725	755	30	SANDSTONE/SANDY SHALE STR.	
755	785	30	SANDY SHALE/COAL STR.	
785	815	30	SANDY SHALE/SANDSTONE	
815	845	30	SANDSTONE/SANDY SHALE	
845	875	30	SANDSTONE	
875	905	30	SANDSTONE	
905	935	30	SANDY SHALE/SANDSTONE/COAL STR.	
935	965	30	SANDSTONE	
965	995	30	SANDSTONE/SANDY SHALE	
995	1025	30	SANDSTONE	

GEOMET OPERATIONS  
HOLE #PMC NORTH 1-19  
PAGE 2

1025	1055	30	SANDSTONE/SANDY SHALE
1055	1085	30	SANDY SHALE
1085	1115	30	SANDSTONE/SANDY SHALE
1115	1145	30	COAL STR./SANDSTONE
1145	1175	30	SANDSTONE/SANDY SHALE
1175	1205	30	SANDY SHALE/COAL STR/SANDSTONE
1205	1235	30	SANDSTONE/SANDY SH./COAL-1222'-1225'
1235	1265	30	SANDSTONE/SANDY SHALE STR.
1265	1295	30	SANDSTONE/SANDY SHALE
1295	1325	30	SANDY SHALE/SANDST./COAL-1322'-1325'
1325	1355	30	SANDY SHALE/SANDSTONE
1355	1385	30	COAL-2'/SANDSTONE/SANDY SHALE
1385	1415	30	SANDY SHALE/SANDSTONE
1415	1445	30	SANDSTONE/SCOALW/SH. STR.-1441'-1445'
1445	1475	30	SANDSTONE
1475	1505	30	SANDSTONE/COAL-1500'-1502'/SANDY SH.
1505	1535	30	SANDSTONE/SANDY SHALE STR.
1535	1565	30	SANDY SHALE/SANDSTONE
1565	1595	30	SANDSTONE/COAL-1587-1585/SHALE
1595	1625	30	SANDY SHALE/COAL-1595-1598/SANDST.
1625	1655	30	SANDSTONE/COAL-1625-1627
1655	1685	30	SANDSTONE/SANDY SHALE STR.
1685	1715	30	SANDSTONE
1715	1745	30	SANDSTONE/SANDY SHALE
1745	1775	30	SANDSTONE/SANDY SH./POSS.COAL
1775	1805	30	SANDSTONE
1805	1835	30	SANDSTONE/SANDY SH./POSS. COAL STR.
1835	1865	30	SANDSTONE
1865	1895	30	SANDSTONE/SANDY SHALE
1895	1925	30	SANDSTONE
1925	1955	30	HARD SAND/SANDY SHALE STR.
1955	1985	30	SANDSTONE
1985	2000	15	SANDY SHALE/SANDSTONE
2000	2015	15	SANDSTONE/SANDY SHALE
2015	2045	30	SANDY SHALE/SANDSTONE
2045	2080	35	SANDSTONE/SHALE STRKS.

2082.45' W/4-1/12"

TOTAL DEPTH: 2080'  
55.25' W/13-3/8" CASING  
312' W/7" CASING  
2085.45' W/4-1/2" CASING

JUN 1 2004

Mc Dow 1837