

**TEE Engineering Company, Inc.**

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 Lynchburg, KY 40509  
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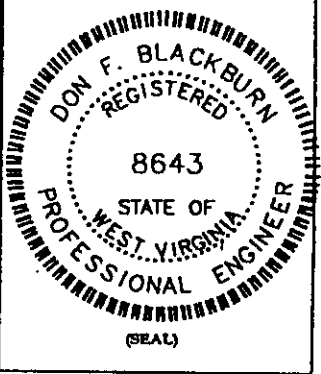
**GeoMet Operating Company, Inc.**  
 Well No. PMC North 111-108-149

FILE NO. 1883-08  
 DRAWING NO. WELL PMC-N-149 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 JANUARY 12, 2004  
 OPERATOR'S WELL NO. PMC NORTH 111-108-149

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

LOCATION: ELEVATION 1,806.05' NORTHING 114880.03 EASTING 1780004.52  
 DISTRICT BIG CREEK WATER SHED LITTLE SLATE CREEK  
 QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER POCAHONTAS MINING, L.L.C. ACREAGE 1,252  
 CBM ROYALTY OWNER POCAHONTAS MINING, L.L.C. LEASE ACREAGE 1,252  
 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 1,543'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

6-6 (383)

MAR 2 5 2004

McDowell 1895 C

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 111-108-149

LOCATION:

Elevation: 1,806.05' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 1,860 Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 7,396 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>16'</u>	<u>16'</u>	
Agent: <u>Adam Salyers</u>				
Inspector: <u>Barry Stollings</u>	<u>8-5/8"</u>	<u>324'</u>	<u>324'</u>	<u>82/Pumped 108</u>
Date Permit Issued: <u>March 25, 2004</u>				
Date Well Work Commenced: <u>March 16, 2006</u>	<u>5-1/2"</u>	<u>1455'</u>	<u>1455'</u>	<u>252/Pumped 176</u>
Date Well Work Completed: <u>April 5, 2006</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>1600'</u>				
Fresh Water Depth (feet): <u>Unknown</u>				
Salt Water Depth (feet): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>N</u>				

RECEIVED  
Office of Oil & Gas  
Office of Chief  
APR 13 2006  
WV Department of Environmental Protection

Coal Depths (feet): 344, 407, 420, 466, 590, 591, 592, 663, 721, 797, 856, 859, 869, 919, 998, 1016, 1043, 1107, 1137, 1196, 1204, 1253, 1255, 1258, 1285, 1323, 1389

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow 11 MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow \_\_\_\_\_ MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of Open Flow between initial and final tests \_\_\_\_\_ Hours  
Static Rock Pressure 103 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: Adam Salyers  
BY: Karen Rife  
DATE: April 12, 2006

APR 14 2006

McDOW 1895C

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

**Well Name: PMC North 149** **PBTD: 1447**

**Formation Type: Pennsylvanian**

**Zone and Perforation Table**

**Inhibitor: 2040 ran @ 450lbs spread across entire frac job**

**Perforating: 4shots per foot 90 degree phasing**

Stage 1 Interval		HBP			Est Sand Weight	Actual Sand Weight	D A T E  4 4 06	
N2 Scf	201,000	SCF	1252-1253	1257-1258	20,000	20,000		
Acid	500	GAL	1387-1388	1322-1323				
Gel Volume	7,611	GAL	32 Perf Holes					
ISIP	1,648	PSI	BALLED OUT W/ 32 BALLS					
ATP	2,477	PSI	BRIDGE PLUG @					
AIR	32	BPM	1225					
Stage 2 Interval		HBP						Est Sand Weight
N2 Scf	159,000	SCF	1195-1197				17,500	17,500
Acid	250	GAL	16 Perf Holes					
Gel Volume	4,859	GAL	BRIDGE PLUG @					
ISIP	1,566	PSI	1166					
ATP	2,562	PSI						
AIR	27	BPM						
Stage 3 Interval		HBP			Est Sand Weight	Actual Sand Weight	4 4 06	
N2 Scf	451,000	SCF	1108-1112		47,500	480,000		
Acid	600	GAL	1135.5-1136.5					
Gel Volume	8,971	GAL	40 Perf Holes					
ISIP	1,773	PSI	BALLED OUT W/ 40 BALLS					
ATP	3,481	PSI	BRIDGE PLUG @					
AIR	22	BPM	1076					
Stage 4 Interval		HBP			Est Sand Weight	Actual Sand Weight		
N2 Scf	324,000	SCF	998-999	1016.5-1017.5	37,500	37,700		
Acid	500	GAL	1043-1045					
Gel Volume	7,228	GAL	32 Perf Holes					
ISIP	1,845	PSI	BALLED OUT W/ 32 BALLS					
ATP	3,301	PSI	BRIDGE PLUG @					
AIR	26	BPM	894					
Stage 5 Interval		HBP			Est Sand Weight	Actual Sand Weight	4 5 06	
N2 Scf	245,000	SCF	796-797		12,500	13,400		
Acid	500	GAL	858-859					
Gel Volume	8,409	GAL	16 Perf Holes					
ISIP	1,640	PSI	BALLED OUT W/ 16 BALLS					
ATP	2,897	PSI	BRIDGE PLUG @					
AIR	28	BPM	760					

Well Name PMC North 149

PBSD

1447**Zone and Perforation Table**

Stage 6 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	239,000	SCF	662.5-665.5			
Acid	500	GAL	721.5-724.5		32,500	32,900
Gel Volume	8,075	GAL	48 Perf Holes			
ISIP	1,253	PSI	BALLED OUT W/ 48 BALLS			
ATP	2,295	PSI	BRIDGE PLUG @			
AIR	21	BPM	629			
Stage 7 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	141,000	SCF				
Acid	250	GAL	592-596		17,500	17,400
Gel Volume	3,872	GAL	32 Perf Holes			
ISIP	1,195	PSI	Restricted volume (Beckley)			
ATP	2,095	PSI	BRIDGE PLUG @			
AIR	30	BPM	503			
Stage 8 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	99,000	SCF	421-422			
Acid	500	GAL	465.5-467.5		12,500	12,500
Gel Volume	4,234	GAL	24 Perf Holes			
ISIP	698	PSI	BALLED OUT W/ 24 BALLS			
ATP	1,843	PSI				
AIR	26	BPM				

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APR 14 2006

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**DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC**

**COMPANY: GEOMET**

**HOLE #: PMC-149**

**LOCATION: BUG HURLEY HOLLOW**

**DRILL RIG #:76**

**DATE STARTED: 03-16-06**

**DATED COMPLETED: 03-22-06**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	16	16		
16	35	19		SANDY SHALE
35	65	30		SAND
65	95	30		SANDY SHALE/COAL
95	155	60		SANDY SHALE
155	185	30		SANDY SHALE/COAL
185	215	30		SANDY SHALE
215	275	60		SANDY SHALE/COAL
275	335	60		SANDY SHALE
335	370	35		SANDY SHALE/COAL
370	400	30		SANDY SHALE
400	430	30		SANDY SHALE/COAL
430	460	30		SANDY SHALE
460	490	30		SANDY SHALE/COAL
490	580	90		SANDY SHALE
580	610	30		SANDY SHALE/COAL
610	640	30		SAND
640	670	30		SANDY SHALE/COAL
670	730	60		SAND
730	760	30		SANDY SHALE/COAL
760	790	30		SHALE
790	820	30		SHALE/COAL
820	850	30		SANDY SHALE
850	880	30		SANDY SHALE/COAL
880	910	30		SANDY SHALE
910	940	30		SHALE
940	1000	60		SANDY SHALE
1000	1060	60		SANDY SHALE/COAL
1060	1090	30		SANDY SHALE
1090	1150	60		SANDY SHALE/COAL
1150	1180	30		SANDY SHALE
1180	1210	30		SANDY SHALE/COAL
1210	1240	30		SANDY SHALE
1240	1270	30		SANDY SHALE/COAL
1270	1300	30		SANDY SHALE
1300	1330	30		SHALE/COAL
1330	1390	60		SANDY SHALE
1390	1420	30		SANDY SHALE/COAL
1420	1450	30		SAND/RED SHALE
1450	1510	60		SANDY SHALE
1510	1540	30		SAND
1540	1570	30		SANDY SHALE

**APR 14 2006**

1570

1600

30

SAND/RED SHALE

1600.00 FT. TOTAL DEPTH  
16.00 FT. OF 13 3/8" CASING  
323.97 FT. OF 8 5/8" CASING  
1454.57 FT. OF 5 1/2" CASING

APR 14 2006

MCDOW 18956