

**TEE Engineering Company, Inc.**  
 320 Cuthers Hill Court  
 Lexington, KY 40509  
 (859) 263-5330  
 Fax (859) 263-5345

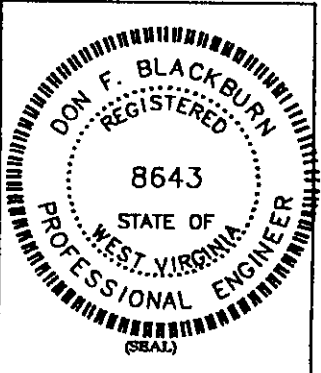
**GeoMet Operating Company, Inc.**  
**Well No. PMC North 110-108-150**

FILE NO. 1883-08  
 DRAWING NO. WELL PMC-N-150 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 110-108-150

API WELL NO. 47 - 047 - 01896C  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2,051.08' NORTHING 116195.13 EASTING 1777885.00  
 DISTRICT BIG CREEK WATER SHED RIGHT FORK OF 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 X CONVERT DRILL DEEPER REDRILL FRACTURE OR  
 STIMULATE X 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 1,826'  
 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

(383) BRADSHAW-CBM 6-6

MAR 26 2004

Mc Dow 1896C

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 110-108-150

LOCATION:

Elevation: 2,051.08' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 3,990 Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 6,099 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>14'</u>	<u>14'</u>	
Agent: <u>Adam Salyers</u>				
Inspector: <u>Barry Stollings</u>	<u>8-5/8"</u>	<u>309'</u>	<u>309'</u>	<u>79/Pumped 108</u>
Date Permit Issued: <u>March 25, 2004</u>				
Date Well Work Commenced: <u>March 10, 2006</u>	<u>5-1/2"</u>	<u>1708'</u>	<u>1708'</u>	<u>296/Pumped 182</u>
Date Well Work Completed: <u>March 29, 2006</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>1840'</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>				

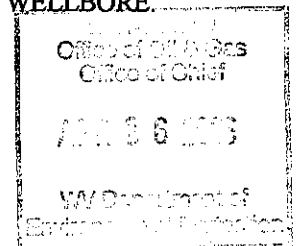
Coal Depths (feet): 312, 337, 390, 440, 514, 565, 572, 576, 643, 691, 700, 718, 762, 883, 885, 893, 959, 1010, 1013, 1067, 1070, 1084, 1114, 1153, 1154, 1193, 1302, 1309, 1323, 1342, 1387, 1421, 1466, 1492, 1539, 1541, 1542, 1544, 1655

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow 26 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 100 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: Karen Dye  
DATE: 4/5/06



APR 07 2006

McDow 1896C

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

<b>Well Name:</b> PMC North 150	<b>PBTD:</b> 1707
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**Formation Type: Pennsylvanian**  
**Zone and Perforation Table**

**Inhibitor: 2040 ran @ .19lbs per sack**  
**Perforating: 6shots per foot 37" penetration**

D A T E						
<b>Stage 1 Interval</b>		<b>HBP</b>			<b>Est Sand Weight</b>	<b>Actual Sand Weight</b>
N2 Scf	193,000	SCF	1538-1544			
Acid	500	GAL	1639.5-1640.5		22,500	23,100
Gel Volume	0	GAL	42 Perf Holes			
ISIP	1,565	PSI	BALLED OUT W/ 42 BALLS			
ATP	2,685	PSI	BRIDGE PLUG @			
AIR	30	BPM	1502			
						3 28 06
<b>Stage 2 Interval</b>		<b>HBP</b>			<b>Est Sand Weight</b>	<b>Actual Sand Weight</b>
N2 Scf	321,000	SCF	1421.5-1422.5			
Acid	500	GAL	1466.5-1468.5		22,500	22,500
Gel Volume	8,276	GAL	18 Perf Holes			
ISIP	1,683	PSI	BALLED OUT W/ 18 BALLS			
ATP	3,429	PSI	BRIDGE PLUG @			
AIR	24	BPM	1405			
						3 29 06
<b>Stage 3 Interval</b>		<b>HBP</b>			<b>Est Sand Weight</b>	<b>Actual Sand Weight</b>
N2 Scf	159,000	SCF				
Acid	250	GAL	1387.5-1389.5		12,500	13,100
Gel Volume	3,833	GAL	12 Perf Holes			
ISIP	1,722	PSI	BRIDGE PLUG @			
ATP	3,263	PSI	1366			
AIR	23	BPM				
						3 29 06
<b>Stage 4 Interval</b>		<b>HBP</b>			<b>Est Sand Weight</b>	<b>Actual Sand Weight</b>
N2 Scf	370,000	SCF	1302-1304	1322.5-1324.5		
Acid	500	GAL	1342-1344		52,500	53,500
Gel Volume	8,926	GAL	36 Perf Holes			
ISIP	1,710	PSI	BALLED OUT W/ 36 BALLS			
ATP	3,270	PSI	BRIDGE PLUG @			
AIR	26	BPM	1278			
						3 29 06
<b>Stage 5 Interval</b>		<b>HBP</b>			<b>Est Sand Weight</b>	<b>Actual Sand Weight</b>
N2 Scf	241,000	SCF	1153-1155	1194-1197		
Acid	500	GAL	1253-1254		30,000	30,600
Gel Volume	7,280	GAL	36 Perf Holes			
ISIP	1,720	PSI	BALLED OUT W/ 36 BALLS			
ATP	2,884	PSI	BRIDGE PLUG @			
AIR	31	BPM	1134			
						3 29 06

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Well Name **PMC North 150**

PBSD

1707

**Zone and Perforation Table**

Stage Interval		HBP			Est Sand Weight	Actual Sand Weight
Stage 6 Interval		HBP				
N2 Scf	235,000	SCF	1067.5-1071.5	1085-1086		
Acid	500	GAL	1114-1115		37,500	38,100
Gel Volume	6,778	GAL	36 Perf Holes			
ISIP	1,199	PSI	BALLED OUT W/ 36 BALLS			
ATP	2,527	PSI	BRIDGE PLUG @			
AIR	31	BPM	1040			
Stage 7 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	217,000	SCF	960-961			
Acid	500	GAL	1009.5-1013.5		26,000	26,000
Gel Volume	7,437	GAL	30 Perf Holes			
ISIP	2,391	PSI	BALLED OUT W/ 30 BALLS			
ATP	2,620	PSI	BRIDGE PLUG @			
AIR	27	BPM	926			
Stage 8 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	183,000	SCF	885-890			
Acid	250	GAL	894-895		32,500	32,900
Gel Volume	4,619	GAL	36 Perf Holes			
ISIP	1,409	PSI	BALLED OUT W/ 36 BALLS			
ATP	2,410	PSI	BRIDGE PLUG @			
AIR	27	BPM	799			
Stage 9 Interval		HBP			Est Sand Weight	Actual Sand Weight
N2 Scf	151,000	SCF	719-720			
Acid	500	GAL	763-765		20,000	20,700
Gel Volume	5,577	GAL	42 Perf Holes			
ISIP	887	PSI	BALLED OUT W/ 42 BALLS			
ATP	2,260	PSI				
AIR	29	BPM				

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APR 07 2006

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

**COMPANY:** GEOMET OPERATING CO    **HOLE #:** PMC-150

**LOCATION:** BUG HURLEY HOLLOW    **DRILL RIG #:** 76

**DATE STARTED:** 03-09-2006    **DATED COMPLETED:** 03-16-2006

**ELECTRIC LOGGED:** YES    **GROUTED:** YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	14	14	OVERBURDEN	
14	30	16	SHALE/ COAL / SAND	
30	61	31	SAND	
61	92	31	SAND/ SHALE / COAL	
92	154	62	SANDY SHALE	
154	185	31	SAND	
185	245	60	SANDY SHALE	
245	275	30	SANDY SHALE / COAL	
275	305	30	SANDY SHALE	
305	335	30	SAND	
335	370	35	SANDY SHALE	
370	400	30	SAND	
400	430	30	SANDY SHALE / COAL	
430	460	30	SANDY SHALE / COAL	
460	490	30	SAND	
490	520	30	SANDY SHALE / COAL	
520	550	30	SAND	
550	580	30	SANDY SHALE / COAL	
580	640	60	SANDY SHALE	
640	670	30	SANDY SHALE / COAL	
670	700	30	SANDY SHALE	
700	730	30	SANDY SHALE / COAL	
730	760	30	SANDY SHALE	
760	790	30	SANDY SHALE / COAL	
790	850	60	SANDY SHALE	
850	880	30	SAND	
880	910	30	SANDY SHALE / COAL	
910	940	30	SANDY SHALE	
940	970	30	SANDY SHALE / COAL	
970	1000	30	SANDY SHALE	
1000	1030	30	SANDY SHALE / COAL	
1030	1090	60	SAND	
1090	1120	30	SANDY SHALE / COAL	
1120	1150	30	SANDY SHALE	
1150	1180	30	SANDY SHALE / COAL	
1180	1210	30	SANDY SHALE	
1210	1240	30	SANDY SHALE / COAL	
1240	1270	30	SANDY SHALE	
1270	1300	30	SAND/ SANDY SHALE	
1300	1330	30	SAND	
1330	1390	60	SANDY SHALE	
1390	1480	90	SANDY SHALE / COAL	

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1480	1510	30	SAND
1510	1540	30	SANDY SHALE / COAL
1540	1600	60	SANDY SHALE
1600	1630	30	SAND
1630	1660	30	SANDY SHALE / COAL
1660	1750	90	SANDY SHALE
1750	1810	60	SAND
1810	1840	30	SAND / RED SHALE

1840.00 FT. TOTAL DEPTH  
 14.00 FT. OF 13 3/8" CASING  
 309.40 FT. OF 8 5/8" CASING  
 1706.29 FT. OF 5 1/2" CASING

APR 07 2006

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