

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

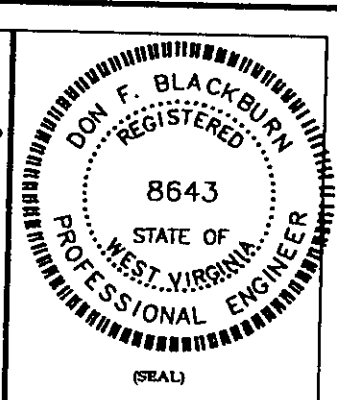
**GeoMet Operating Company, Inc.**  
 Well No. Pond Creek 113-106-108

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. POND CREEK 108 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 APRIL 15, 2003  
 OPERATOR'S WELL NO. POND CREEK 113-106-108

API WELL NO. 47 - 047 - 1807-C  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2,046.75' NORTHING 110825.01 EASTING 1784373.97  
 DISTRICT BIG CREEK WATER SHED STRAIGHT FORK OF LITTLE SLATE CREEK  
 QUADRANGLE WAR COUNTY McDOWELL

SURFACE OWNER PLUM CREEK TIMBERLANDS L.P. ACREAGE 9,907.37  
 CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS L.P. LEASE ACREAGE 9,907.37  
 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 1825'  
 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

(Bestshaw 270)

JUN 20 2003

Mc Dow 1807-C

RECEIVED  
Office of Oil & Gas  
JAN 09 2004  
WV Department of  
Environmental Protection

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

*My*

Well Operator's Report of Well Work

FARM NAME: Plum Creek Timberlands OPERATOR WELL NO.: PC 113-106-108

LOCATION:

Elevation: 2,046.75' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 9,577 Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 11,416 Feet West of 81 Deg. 42 Min. 30 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>16"</u>	<u>18'</u>	<u>18'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	<u>8-5/8"</u>	<u>344'</u>	<u>344'</u>	<u>77 / Pumped 180</u>
Date Permit Issued:				
Date Well Work Commenced: <u>Sept. 25, 2003</u>	<u>5-1/2"</u>	<u>1729'</u>	<u>1729'</u>	<u>300 / Pumped 286</u>
Date Well Work Completed: <u>October 7, 2003</u>				
Verbal Plugging:				
Date Permission granted on: <u>June 19, 2003</u>				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1709'</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): 334, 387, 451, 452, 453, 511, 512, 574, 584, 641, 642, 769, 770, 781, 782, 783, 879, 961, 964, 1017, 1057, 1058, 1074, 1169, 1195, 1233, 1227, 1369, 1443, 1449, 1450, 1521, 1564, 1754.

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 17 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: [Signature]  
BY: Dundrea Smith  
DATE: 1-6-04

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FEB 2 0 2004

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

Well Name Pond Creek 108

PBTD 1709'

**Zone and Perforation Table**

Frac Stage 1 Interval	1448-1450		Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1520	1522				
N2 Scf	259,000		1553-1555  Ball Out  1410'		30,000	14,000
Acid	450					
Gel Volume	9,200					
ISIP	1,621					
ATP	2895					
AIR	31	BPM				
Stage 2 Interval	1367	1370				
N2 Scf	197,000			1320'		
Acid	250					
Gel Volume	5,000					
ISIP	2,946					
ATP	3205					
AIR	26	BPM				
Stage 3 Interval	1276	1279				
N2 Scf	222,000			1260'		
Acid	250					
Gel Volume	6,400					
ISIP	1703					
ATP	2475					
AIR	27	BPM				
Stage 4 Interval	1232	1235				
N2 Scf	233,000		24 Frac Balls On Plug @	1220'		
Acid	250					
Gel Volume	7,200					
ISIP	1,144					
ATP	2352					
AIR	28	BPM				
Stage 5 Interval	1168	1170				
N2 Scf	281,000		1194-1196  Ball Out  1100'			
Acid	450					
Gel Volume	9,700					
ISIP	1,167					
ATP	2492					
AIR	30	BPM				

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Well Name Pond Creek 108

PBTD

1709'

**Zone and Perforation Table**

Stage Interval	1015	1018	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1015	1018				
N2 Scf	145,000		1000'		20,000	21,000
Acid	250					
Gel Volume	4,600					
ISIP	909					
ATP	2052					
AIR	27	BPM				
Stage 7 Interval	960	964				
N2 Scf	169,000		No Plug !			
Acid	250					
Gel Volume	7,000					
ISIP	826					
ATP	1744					
AIR	29	BPM				
Stage 8 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						
Stage 9 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						
Stage 10 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						

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

COMPANY: GEO-MET OPERATIONS

HOLE NO. PC-108

LOCATION: BUG HURLEY

DRILL: RIG 23

DATE STARTED: 09-24-2003

ELECTRIC LOGGED: YES

DATE COMPLETED: 09-29-2003

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	18	18	OVERBURDEN	18'W/16" CASING
18	25	07	SANDSTONE	
25	54	29	SANDSTONE/COAL STR./SANDY SHALE	
54	80	26	SANDY SHALE/SANDSTONE	
80	110	30	SANDSTONE	
110	140	30	SANDSTONE/SANDY SHALE STR.	
140	260	120	SANDSTONE	
260	350	90	SANDY SHALE	344' W/8-5/8" CASING
350	380	30	SANDY SHALE/SANDSTONE	
380	410	30	SHALE 400-COAL	
410	440	30	SHALE 420-COAL	
440	500	60	SHALE 480-COAL	
500	560	60	SHALE 550-COAL	
560	590	30	SHALE 580-COAL	
590	650	60	SHALE 630-COAL	
650	740	90	SHALE	
740	770	30	SANDY SHALE/COAL-3/SANDSTONE	
770	800	30	SANDSTONE/SANDY SHALE	
800	830	30	SANDY SHALE/SANDSTONE/COAL STR.	
830	860	30	SANDY SHALE/SANDSTONE	
860	890	30	SANDSTONE/SANDY SHALE	
890	920	30	SANDY SHALE/SANDSTONE/COAL STR.	
920	950	30	SANDY SHALE	
950	980	30	SANDY SHALE/SANDSTONE	
980	1010	30	SANDSTONE/SANDY SHALE/COAL STR.	
1010	1040	30	COAL STR./SANDY SHALE/SANDSTONE	
1040	1070	30	SANDSTONE/COAL-3/SANDSTONE	
1070	1100	30	SANDSTONE	
1100	1130	30	SANDSTONE/SANDY SHALE	
1130	1160	30	SANDY SHALE/SANDSTONE	
1160	1190	30	SANDSTONE/SANDY SHALE	
1190	1220	30	COAL-2/SANDSTONE	
1220	1250	30	SANDSTONE/COAL/SANDY SHALE	
1250	1280	30	SANDY SHALE/SANDSTONE	
1280	1310	30	SANDSTONE/COAL/SANDSTONE	
1310	1340	30	SANDSTONE/SANDY SHALE	
1340	1370	30	SANDY SHALE/SANDSTONE	

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GEO-MET OPERATIONS  
HOLE #PC-108  
PAGE 2

1370	1400	30	SANDSTONE/COAL STR.
1400	1430	30	SANDSTONE/SANDY SHALE
1430	1460	30	SANDY SHALE/COAL STR.
1460	1490	30	SANDSTONE/SANDY SHALE
1490	1520	30	SANDSTONE/COAL STR./SANDSTONE
1520	1580	60	SHALE
1580	1730	150	SANDY SHALE - T.D 1728.64' W/5-1/2"

TOTAL DEPTH: 1730'  
18' W/16" CASING  
344' W/8-5/8" CASING  
1728.64' W/5-1/2" CASING

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