

**TEE Engineering Company, Inc.**  
 320 Cutlers Hill Court  
 Lexington, KY 40509  
 (609) 263-5350  
 Fax (609) 263-5345

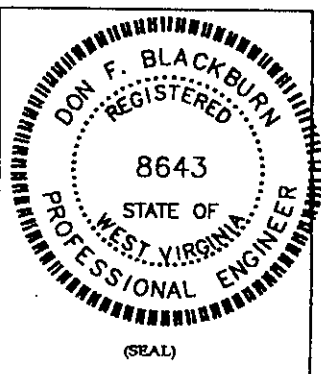
**GeoMet Operating Company, Inc.**  
 Well No. Pond Creek 112-103-091

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. WELL POND CREEK 91 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 AUGUST 14, 2003  
 OPERATOR'S WELL NO. POND CREEK 112-103-091

API WELL NO. 47 - 047 - 01832C  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,917.27 NORTHING 104297.15 EASTING 1781858.70  
 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 X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 STIMULATE X 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 1,721'  
 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

2793  
 LONGITUDE 81° 42' 30"  
 M-Dow 1832 C

M13

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

Well Operator's Report of Well Work

FARM NAME: Plum Creek Timberlands OPERATOR WELL NO.: PC 112-103-091

LOCATION:

Elevation: 1,917.27' Quadrangle: War

District: Big Creek County: McDowell  
Latitude: 12,043 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude: 2,793 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>13-3/8"</u>	<u>20.3'</u>	<u>20.3'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	<u>8-5/8"</u>	<u>332'</u>	<u>332'</u>	<u>73 / Pumped 96</u>
Date Permit Issued: <u>September 24, 2003</u>				
Date Well Work Commenced: <u>October 20, 2003</u>	<u>5-1/2"</u>	<u>1592.3'</u>	<u>1592.3'</u>	<u>276 / Pumped 299</u>
Date Well Work Completed: <u>November 13, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>      </u> Rig <u>      </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>				

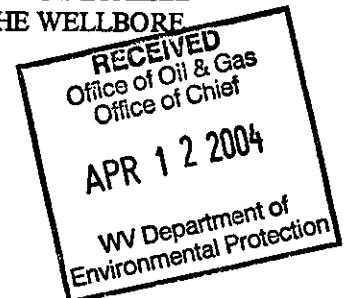
Coal Depths (feet): 341, 423, 460, 733, 735, 736, 739, 740, 771, 787, 844, 845, 877, 878, 1001, 1027, 1067, 1206, 1207, 1283, 1408, 1414, 1602.

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 79 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: AGENT  
DATE: 4-7-04



APR 11 2004

Mc Dow 1832

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

Well Name Pond Creek 091 PBTB 1590'

**Zone and Perforation Table**

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1406	1409				
N2 Scf	184,000		1300'		25,000	6,500
Acid	200					
Gel Volume	3,650					
ISIP	3,096					
ATP	3,642					
AIR	16	BPM				
Stage 2 Interval	1,205	1208				
N2 Scf	298,000		1150'			
Acid	250					
Gel Volume	6,200					
ISIP	1,288					
ATP	2,772					
AIR	28	BPM				
Stage 3 Interval	1,065	1068				
N2 Scf	257,000		24 Frac Balls On Plug @	1050'		
Acid	250					
Gel Volume	6,500					
ISIP	1,627					
ATP	2,284					
AIR	28	BPM				
Stage 4 Interval	1,000	1002				
N2 Scf	272,000		1026-1028 Ball Out	30 Frac Balls 950'		
Acid	500					
Gel Volume	10,800					
ISIP	1,048					
ATP	2,714					
AIR	35	BPM				
Stage 5 Interval	843	845				
N2 Scf	199,000		820'			
Acid	250					
Gel Volume	4,600					
ISIP	1,025					
ATP	2,489					
AIR	23	BPM				

Well Name Pond Creek 091

PBTD

1590'

**Zone and Perforation Table**

Stage Interval	786	788	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	786	788				
N2 Scf	139,000		808-810		20,000	19,000
Acid	400		Ball Out  760'			
Gel Volume	5,600					
ISIP	915					
ATP	1,918					
AIR	28	BPM				
Stage 7 Interval	734	737			30,000	26,000
N2 Scf	142,000		No Plug			
Acid	150					
Gel Volume	5,800					
ISIP	888					
ATP	1,784					
AIR	29	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						

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

COMPANY: GEOMET

HOLE NO.PC-091

LOCATION: BUG HURLEY

DRILL: RIG 94

DATE STARTED: 10-19-03

ELECTRIC LOGGED: YES

DATE COMPLETED:10-22-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	4	4	OVERBURDEN	
4	20.30	16.30	SHALE / SAND	20.3' 13 3/8" CASING
20	30	9.7	SHALE	
30	61	31	SANDSTONE	
61	92	31	SANDSTONE / SHALEY SHALE / COAL STR / SANDSTONE	
92	123	31	SANDSTONE / COAL / SANDY SHALE STR	
123	155	32	SANDY SHALE / COAL STR / SANDSTONE STR	
155	185	30	SANDY SHALE / SANDSTONE	
185	215	30	SANDSTONE / SANDY SHALE STR / COAL STR	
215	245	30	SANDY SHALE / SANDSTONE	
245	275	30	SANDSTONE	
275	305	30	SANDSTONE / SHALE & COAL STR	
305	335	30	SANDSTONE / COAL STR	
335	345	10	COAL / SANDSTONE	332' W/ 8 5/8" CASING
345	360	15	SANDSTONE	
360	390	30	SANDSTONE / SHALE STR	
390	450	60	SANDY SHALE	
450	480	30	SANDY SHALE / SANDSTONE STR	
480	510	30	SANDY SHALE	
510	540	30	SANDSTONE / SANDY SHALE / COAL STR	
540	570	30	SANDY SHALE / SANDSTONE STR	
570	600	30	SANDSTONE	
600	630	30	COAL STR / SANDY SHALE	
630	690	60	SANDY SHALE	
690	720	30	SAND	
720	750	30	SANDY SHALE / COAL 710-15 / SANDY SHALE	
750	780	30	SANDY SHALE / COAL STR / SANDSTONE STR	
780	810	30	SANDY SHALE /3 COAL STR /SANDSTONE STR	
810	840	30	SANDSTONE / SANDY SHALE / COAL	
840	870	30	COAL OR SHALE / SANDSTONE / SANDY SHALE STR	
870	900	30	SANDSTONE / SANDY SHALE STR/2 COAL STR	
900	930	30	SANDSTONE / SANDY SHALE STR	
930	960	30	SANDY SHALE / POSS COAL STR / SANDSTONE STR	

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 GEOMET OPERATING CO  
 PC-091

FROM	TO	FT.	DESCRIPTION
960	990	30	SANDY SHALE / COAL STR / SANDSTONE STR
990	1020	30	SANDY SHALE / COAL / SANDSTONE
1020	1050	30	COAL / SANDY SHALE / SANDSTONE
1050	1080	30	SANDY SHALE / COAL / SANDSTONE STR
1080	1110	30	SANDY SHALE / COAL STR
1110	1140	30	SANDY SHALE / SANDSTONE
1140	1170	30	SANDSTONE / COAL / SANDY SHALE
1170	1200	30	SANDY SHALE / POSS COAL / SANDSTONE
1200	1230	30	COAL/SANDY SHALE / SANDSTONE
1230	1260	30	SANDSTONE / SANDY SHALE / SANDSTONE
1260	1290	30	SANDSTONE / COAL / SANDSTONE STR
1290	1320	30	SANDY SHALE / SANDSTONE
1320	1350	30	SANDSTONE / SANDY SHALE / POSS COAL STR / SANDSTONE STR
1350	1380	30	SANDY SHALE / POSS COAL / SANDSTONE
1380	1410	30	SANDSTONE / COAL 1396-1400 / SANDY SHALE/COAL STR
1410	1440	30	SANDY SHALE STR / SANDSTONE
1440	1470	30	SANDSTONE / SANDY SHALE
1470	1500	30	SANDSTONE
1500	1530	30	SANDY SHALE STR / SAND
1530	1600	70	SANDSTONE TD 7 7/8" HOLE 1592.3' W/ 5 1/2" CASING

1600.00 FT. TOTAL DEPTH  
 20.30 FT. OF 13 3/8" CASING  
 332.00 FT. OF 8 5/8" CASING  
 1592.30 FT. OF 5 1/2" CASING

M. Dow 1832

JUN 11 2004