

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

**GeoMet Operating Company, Inc.**  
 Well No. Pond Creek 112-105-088

FILE NO. 1883-08/2003 WELLS  
 DRAWING NO. POND CREEK 88 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. Blackman*  
 (SIGNATURE)

R.P.E. 8643 R.P.S.

REFERENCES SCALE 1"=100'

WELL COORDINATES  
 WV STATE PLANE  
 SOUTH ZONE NAD 1927  
 N. 109293.78  
 E. 1782041.93

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

DATE MARCH 5, 2003  
 OPERATOR'S WELL NO. POND CREEK 112-105-088

API WELL NO. 47 - 047 - 1781C  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,967.11' NORTHING 109293.78 EASTING 1782041.93  
 DISTRICT BIG CREEK WATER SHED MUDLICK BR. 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 1,959'  
 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

66(0)

APR 25 2003

MCDOWELL 1781C



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

Well Operator's Report of Well Work

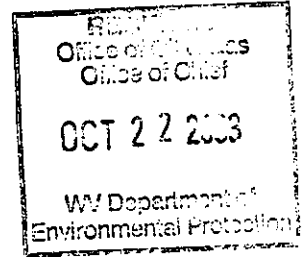
FARM NAME: Plum Creek Timberlands

OPERATOR WELL NO.: 112-105-088

LOCATION:

Elevation: 1,967.11'      Quadrangle: Bradshaw

District: Big Creek      County: McDowell  
Latitude: 11.898' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 12.966' 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>23'</u>	<u>23'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>332'</u>	<u>332'</u>	<u>75/Pumped 120</u>
Date Permit Issued: <u>April 24, 2003</u>				
Date Well Work Commenced: <u>July 10, 2003</u>	<u>5-1/2"</u>	<u>1750'</u>	<u>1750'</u>	<u>304/Pumped 338</u>
Date Well Work Completed: <u>July 22, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1800'</u>				
Fresh Water Depth (feet): <u>Unknown</u>				
Salt Water Depth (feet): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>No</u>				

Coal Depths (feet): 333, 351, 383, 419, 445, 446, 505, 530, 579, 678, 683, 709, 711, 712, 713, 734, 745, 827, 828, 877, 879, 917, 951, 1007, 1081, 1086, 1124, 1159, 1205, 1207, 1208, 1211, 1238, 1295, 1362, 1369, 1428, 1777.

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 12 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: Dundrea Smith  
DATE: \_\_\_\_\_

NOV 14 2003

McDow 1781

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

Well Name Pond Creek 088

PBTD 1750

**Zone and Perforation Table**

Frac			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	Stage 1 Interval	1491   1494				
N2 Scf	264,000		1400'		15,000	14,000
Acid	200	15%				
Gel Volume	8,800					
ISIP	2,886					
ATP	3,409					
AIR	20	BPM				
Stage 2 Interval	1,294	1296				
N2 Scf	324,000		1250'			
Acid	400	7.5%				
Gel Volume	8,100					
ISIP	1,321					
ATP	2,532					
AIR	25	BPM				
Stage 3 Interval	1,205	1211				
N2 Scf	417,000		24 Frac Balls On Plug @ 1180'			
Acid	500	7.5%				
Gel Volume	12,300					
ISIP	1,335					
ATP	2,205					
AIR	30	BPM				
Stage 4 Interval	1,158	1160				
N2 Scf	241,000		1123' -1125'  Ball Out 1050'			
Acid	750	7.5%				
Gel Volume	8,700					
ISIP	1,018					
ATP	2,193					
AIR	30	BPM				
Stage 5 Interval	950	953				
N2 Scf	261,000		36 Frac Balls On Plug @ 935'			
Acid	400	7 1/2 %				
Gel Volume	8,000					
ISIP	974					
ATP	2,374					
AIR	28	BPM				

Well Name Pond Creek 088

PBTD

1750

**Zone and Perforation Table**

Stage Interval	877	880	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf	309,000		896' -899'	Ball Out  850'	30,000	32,000
Acid	750	7.5%				
Gel Volume	10,800					
ISIP	1,652					
ATP	2,502					
AIR	32	BPM				
Stage 7 Interval	827	830				
N2 Scf	162,000		No Plug			
Acid	500	7.5%				
Gel Volume	4,000					
ISIP	1,294					
ATP	2,408					
AIR	25	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						

NOV 14 2003

McDow 1781

**DRILL DATA HOLE – NOAH HORN WELL DRILLING, INC.**

**COMPANY: GEOMET OPERATING**

**HOLE: PC-088**

**LOCATION: BUG HURLEY HOLLOW**

**DRILL: RIG # 25**

**DATE STARTED: 07-09-2003**

**DATE COMPLETED: 07-11-2003**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS ETC
0	2	2	OVERBURDEN	15" DRILLING
2	22	20	SHALEY SAND	
22	30	8	SHALEY SANDSTONE / SANDY SHALE	22.4' W/ 13 3/8" CASING
			10 1/2" DRILLING	
30	61	31	SANDY SHALE / COAL STR / SANDY SHALE	
61	92	31	SANDY SHALE	
92	123	31	SANDY SHALE	
123	154	31	SAND / SANDY SHALE	
154	185	31	SANDY SHALE / SAND	
185	215	30	SAND / SANDY SHALE	
215	245	30	SAND / SANDY SHALE / COAL	
245	275	30	SANDY SHALE	
275	305	30	SANDY SHALE / COAL / SAND	
305	335	30	SANDY SHALE / SAND	332.3' W/ 8 5/8" CASING
335	345	10	SANDY SHALE	
			7 7/8" DRILLING	
345	360	15	SANDY SHALE	
360	380	20	SANDY SHALE / SANDSTONE	
380	382	2	COAL	
382	390	8	SANDY SHALE / SANDSTONE	
390	415	25	SANDSTONE / SANDY SHALE	
415	417	2	COAL	
417	420	3	SANDSTONE / SANDY SHALE	
420	440	20	SANDY SHALE / SANDSTONE	
440	442	2	COAL	
442	450	8	SANDY SHALE / SANDSTONE	
450	480	30	SANDSTONE / SANDY SHALE	
480	510	30	SANDY SHALE	
510	540	30	SANDY SHALE	
			COAL STR @ 525'	
540	570	30	SANDY SHALE / SANDSTONE STR	
570	575	5	SANDY SH / SANDSTONE / SANDY SHALE	
575	577	2	COAL	
577	600	23	SANDY SH / SANDSTONE / SANDY SHALE	
600	630	30	SANDSTONE	
630	660	30	SANDSTONE / SANDY SHALE	
660	690	30	SANDY SHALE / COAL STR / SANDY SHALE	
690	705	15	SANDY SHALE	
705	709	4	COAL STR	
709	720	11	SANDY SHALE	

PAGE 2  
 GEOMET OPERATING COMPANY  
 PC-088

FROM	TO	FT.	DESCRIPTION
720	750	30	SAND / SANDY SHALE
750	780	30	SANDY SHALE / SANDSTONE
780	810	30	SANDY SHALE
810	840	30	SANDY SHALE / SAND
840	855	15	SANDY SHALE / SAND
855	857	2	COAL
857	870	13	SANDY SHALE / SAND
870	900	30	SANDY SHALE / COAL STR
900	960	60	SANDY SHALE / COAL STR / SANDSTONE
960	975	15	SANDY SHALE
975	977	2	COAL
977	990	13	SANDY SHALE
990	1020	30	SHALE STR / COAL STR / SANDY SHALE
1020	1050	30	SANDY SHALE
1050	1080	30	SANDY SHALE / COAL STR
1080	1110	30	COAL STR / SANDY SHALE
1110	1140	30	SANDY SHALE / SANDSTONE
1140	1170	30	SAND / SANDY SHALE
1170	1200	30	SANDY SHALE / COAL 2
1200	1230	30	COAL 3 / SANDY SHALE
1230	1260	30	SANDY SHALE / SAND
1260	1290	30	SAND / COAL / SANDY SHALE
1290	1320	30	SAND / SANDY SHALE
1320	1380	60	SANDY SHALE
1380	1440	60	SAND
1440	1470	30	SAND / SANDY SHALE
1470	1500	30	SANDY SHALE / RED SHALE / SANDY SHALE
1500	1530	30	SANDY SHALE / SANDSTONE
1530	1560	30	SANDSTONE / SANDY SHALE / SANDSTONE
1560	1590	30	SANDSTONE / SANDY SHALE
1590	1620	30	SANDY SHALE / RED SHALE / SANDY SHALE
1620	1650	30	SANDY SHALE
1650	1680	30	SAND STR / SANDY SHALE
1680	1710	30	RED SHALE / SANDY SH STR / RED SHALE
1710	1740	30	RED SHALE STR / SANDY SHALE
1740	1770	30	SHALE / SANDY SHALE / SAND

TD 7 7/8" HOLE

1770.00 FT. TOTAL DEPTH  
 22.40 FT. OF 13 3/8" CASING  
 332.30 FT. OF 8 5/8" CASING

NOV 14 2003

McDow 1781

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

Well Operator's Report of Well Work

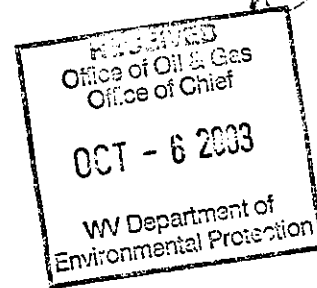
FARM NAME: Pocahontas Mining, LLC

OPERATOR WELL NO.: 112-105-088

LOCATION:

Elevation: 1,967.11' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 11.898' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 12.966' Feet West of 81 Deg. 42 Min. 30 Sec.



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Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>        </u> Rig <u>        </u>				
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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 12 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: Dundrea Smith  
DATE: \_\_\_\_\_

OCT 16 2003

Mc Dow 1781



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

Well Name Pond Creek 088

PBTD

1750

**Zone and Perforation Table**

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
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Acid	200	15%				
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N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR		BPM				
Stage 10 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						

OCT 10 2003

McDOW 1781

**DRILL DATA HOLE – NOAH HORN WELL DRILLING, INC.**

**COMPANY: GEOMET OPERATING**

**HOLE: PC-088**

**LOCATION: BUG HURLEY HOLLOW**

**DRILL: RIG # 25**

**DATE STARTED: 07-09-2003**

**DATE COMPLETED: 07-11-2003**

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855	857	2	COAL
857	870	13	SANDY SHALE / SAND
870	900	30	SANDY SHALE / COAL STR
900	960	60	SANDY SHALE / COAL STR / SANDSTONE
960	975	15	SANDY SHALE
975	977	2	COAL
977	990	13	SANDY SHALE
990	1020	30	SHALE STR / COAL STR / SANDY SHALE
1020	1050	30	SANDY SHALE
1050	1080	30	SANDY SHALE / COAL STR
1080	1110	30	COAL STR / SANDY SHALE
1110	1140	30	SANDY SHALE / SANDSTONE
1140	1170	30	SAND / SANDY SHALE
1170	1200	30	SANDY SHALE / COAL 2
1200	1230	30	COAL 3 / SANDY SHALE
1230	1260	30	SANDY SHALE / SAND
1260	1290	30	SAND / COAL / SANDY SHALE
1290	1320	30	SAND / SANDY SHALE
1320	1380	60	SANDY SHALE
1380	1440	60	SAND
1440	1470	30	SAND / SANDY SHALE
1470	1500	30	SANDY SHALE / RED SHALE / SANDY SHALE
1500	1530	30	SANDY SHALE / SANDSTONE
1530	1560	30	SANDSTONE / SANDY SHALE / SANDSTONE
1560	1590	30	SANDSTONE / SANDY SHALE
1590	1620	30	SANDY SHALE / RED SHALE / SANDY SHALE
1620	1650	30	SANDY SHALE
1650	1680	30	SAND STR / SANDY SHALE
1680	1710	30	RED SHALE / SANDY SH STR / RED SHALE
1710	1740	30	RED SHALE STR / SANDY SHALE
1740	1770	30	SHALE / SANDY SHALE / SAND

TD 7 7/8" HOLE

1770.00 FT. TOTAL DEPTH  
 22.40 FT. OF 13 3/8" CASING  
 332.30 FT. OF 8 5/8" CASING

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