

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

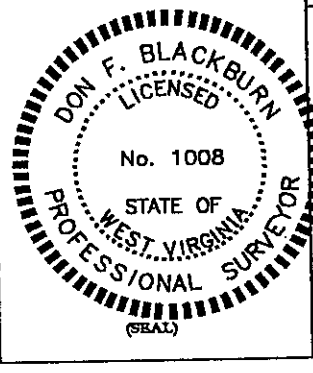
**GeoMet Operating Company, Inc.**  
 Well No. Pond Creek 104-104-152

FILE NO. 1883-08/2004 WELLS  
 DRAWING NO. POND CREEK 152 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. \_\_\_\_\_ R.P.S. 1008



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

DATE MAY 17, 2004  
 OPERATOR'S WELL NO. POND CREEK 104-104-152

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

LOCATION: ELEVATION 1,861.96 NORTHING 107434.23 EASTING 1763727.00  
 DISTRICT SANDY RIVER WATER SHED ALDRICH FORK OF SLATE CREEK  
 QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER THE FORESTLAND GROUP .LLC 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 \_\_\_\_\_ 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 1,609'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 BIRMINGHAM, ALABAMA 35244 ADDRESS 330 HARPER PARK DRIVE SUITE A BECKLEY, WV 25801

(Bradshaw 270) 6-6

JUN 25 2004

McDow 1927C

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 LP

OPERATOR WELL NO.: PC 104-104-152

LOCATION:

Elevation: 1,861.96'

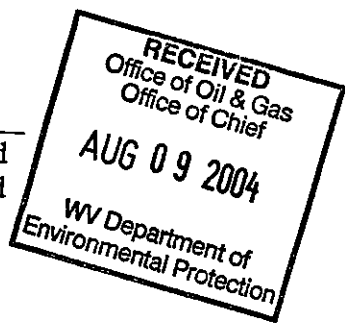
Quadrangle: Bradshaw

District: Sandy River County: McDowell  
Latitude: 5.956 Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 14.980 Feet West of 81 Deg. 47 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>43'</u>	<u>43'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	<u>8-5/8"</u>	<u>332'</u>	<u>332'</u>	<u>78 / Pumped 120</u>
Date Permit Issued: <u>June 23, 2004</u>				
Date Well Work Commenced: <u>July 20, 2004</u>	<u>5-1/2"</u>	<u>1620'</u>	<u>1620'</u>	<u>281 / Pumped 312</u>
Date Well Work Completed: <u>July 29, 2004</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>1629'</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): <u>373, 374, 406, 484, 485, 557, 594, 595, 844, 845, 846, 847, 955, 1111, 1112, 1124, 1125, 1126, 1134, 1135, 1167, 1202, 1203, 1225, 1253, 1298, 1299, 1300, 1350, 1397, 1458, 1459, 1460, 1465, 1492</u>				

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 200 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: Karen Rye  
DATE: August 4, 2004

SEP 24 2004

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# DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: GEOMET

HOLE #: PC-152

LOCATION: BUG HURLEY

DRILL RIG #: 94

DATE STARTED: 07-16-04

DATED COMPLETED: 07-23-04

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	40	40	OVERBURDEN	
40	43	3	SANDSTONE	
43	61	18	SANDSTONE / SANDY SHALE	
61	92	31	43.2' W/ 13 3/8" CASING	
92	123	31	SANDY SHALE / SAND STONE STR /	
123	154	31	COAL STR	
154	185	31	SANDY SHALE / COAL STR	
185	215	30	SANDY SHALE / SAND STONE /	
215	245	30	COAL STR	
245	275	30	SANDY SHALE / COAL STR /	
275	305	30	SAND STONE	
305	335	30	SANDY SHALE / SAND STONE	
335	345	10	SAND STONE / SANDY SHALE /	
345	360	15	SAND STONE / COAL STR	
360	390	30	SAND STONE / SANDY SHALE /	
390	420	30	SAND STONE / SANDY SHALE /	
420	450	30	SAND STONE / SANDY SHALE /	
450	480	30	SAND STONE / SANDY SHALE /	
480	510	30	SAND STONE / SANDY SHALE /	
510	540	30	SAND STONE / SANDY SHALE /	
540	570	30	SAND STONE / SANDY SHALE /	
570	600	30	SAND STONE / SANDY SHALE /	
600	630	30	SAND STONE / SANDY SHALE /	
630	660	30	SAND STONE / SANDY SHALE /	
660	690	30	SAND STONE / SANDY SHALE /	
690	720	30	SAND STONE / SANDY SHALE /	

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FROM	TO	FT.	DESCRIPTION
720	750	30	SAND STONE / SANDY SHALE / SAND STONE
750	780	30	SAND STONE
780	810	30	SAND STONE / SANDY SHALE / SAND STONE
810	840	30	SAND STONE / SANDY SHALE STR / SHALE / COAL 1
840	870	30	COAL 2 / SANDY SHALE / SAND STONE
870	900	30	SAND STONE / SANDY SHALE
900	930	30	SANDY SHALE / SHALE / COAL STR / SAND STONE STR
930	960	30	SHALE / COAL 2 / SANDY SHALE
960	990	30	SANDY SHALE / COAL STR / SAND STONE
990	1020	30	SAND STONE
1020	1050	30	SAND STONE / SANDY SHALE / COAL STR
1050	1080	30	SANDY SHALE / SHALE / COAL
1080	1110	30	SANDY SHALE / SHALE / COAL 2
1110	1140	30	SANDY SHALE / 5 FT COAL / SAND STONE / COAL STR / SAND STONE
1140	1170	30	SAND STONE / SANDY SHALE / COAL 3 / SHALE / SANDY SHALE
1170	1200	30	SANDY SHALE / COAL 3 / SHALE
1200	1230	30	SAND STONE / SANDY SHALE / COAL STR
1230	1260	30	SAND STONE / COAL STR / SANDY SHALE STR
1260	1290	30	SANDY SHALE / SAND STONE / SANDY SHALE
1290	1320	30	SANDY SHALE / COAL 2 / SAND STONE / COAL STR / SANDY SHALE / SAND STONE
1320	1355	35	SAND STONE / SANDY SHALE / SAND STONE
1355	1385	30	SAND STONE / SHALE STRKS / POSS COAL STR
1385	1415	30	SAND STONE / SANDY SHALE / COAL OR SHALE / SAND STONE / SANDY SHALE
1415	1445	30	SAND STONE / SANDY SHALE
1445	1475	30	SANDY SHALE / 67 W/COAL SHALE / SAND STONE STR
1475	1505	30	SAND STONE / POSS COAL & SHALE / SANDY SHALE
1505	1535	30	SANDY SHALE / SAND STONE STR
1535	1565	30	SAND STONE / SANDY SHALE STRKS
1565	1595	30	SAND STONE / SHALE / STRKS
1595	1625	30	SAND STONE / SHALE STRKS

1620.85' W/ 5 1/2" CASING  
 TD 7 7/8" HOLE

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PC 152

1625.00 FT. TOTAL DEPTH  
43.20 FT. OF 13 3/8" CASING  
332.50 FT. OF 8 5/8" CASING  
1620.85 FT. OF 8 5/8" CASING

SEP 24 2004

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

Well Name Pond Creek 152 PBTB 1620'

**Zone and Perforation Table**

Frac Stage	Interval		Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	Start	End				
Stage 1 Interval	1458'	1460'	1410'		15,000	15,500
N2 Scf	1491'	1493'				
Acid	400,000					
Gel Volume	250	15%				
ISIP	8,610	GAL				
ATP	1752					
AIR	3080					
	30	BPM				
Stage 2 Interval	1349'	1351'	1396' - 1398' No Ball Out 1320'		15,000	15,700
N2 Scf	245,000					
Acid	250	15%				
Gel Volume	5,586	GAL				
ISIP	1567					
ATP	2692					
AIR	28	BPM				
Stage 3 Interval	1298'	1300'	48 Balls on Plug @ 1270'		25,000	25,400
N2 Scf	459,000					
Acid	250					
Gel Volume	9,576	GAL				
ISIP	1811					
ATP	3386					
AIR	36	BPM				
Stage 4 Interval	1202'	1204'	1223' - 1225', 1252' - 1254' Ball Out, 1185'		35,000	35,400
N2 Scf	574,000					
Acid	600	15%				
Gel Volume	14,196	GAL				
ISIP	1522					
ATP	2769					
AIR	30	BPM				
Stage 5 Interval	1166	1169	SEP 24 2004 No Plug		20,000	
N2 Scf	48,000					
Acid	400	15%				
Gel Volume	1,472	GAL				
ISIP	3120					
ATP	3800					
AIR	6	BPM				

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Well Name Pond Creek 152

PBTD

1620'

**Zone and Perforation Table**

Stage Interval	1110	1112	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1110	1112				
N2 Scf	707,000		1123' - 1126', 1133' - 1135'	980'	50,000	50,500
Acid	500	15%				
Gel Volume	16,506	GAL				
ISIP	1655					
ATP	2474					
AIR	36	BPM				
Stage 7 Interval	954	956			15,000	15,800
N2 Scf	281,000		48 Balls on Plug @ 865'			
Acid	250	15%				
Gel Volume	5,630	GAL				
ISIP	1229					
ATP	2689					
AIR	36	BPM				
Stage 8 Interval	844	847			30,000	25,500
N2 Scf	456,000		No Plug			
Acid	250	15%				
Gel Volume	8,358	GAL				
ISIP	2986					
ATP	3539					
AIR	29	BPM				
Stage 9 Interval	483	486				10,000
N2 Scf	126,000		556' - 559, 593' - 596'	Acidize & Ball Out		
Acid	500	15%				
Gel Volume	5376	GAL				
ISIP	832					
ATP	2016					
AIR	30	BPM				
Stage 10 Interval	0	0			-	0
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR						

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