

TEE Engineering Company, Inc.
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 Lexington, KY 40509
 (759) 263-5350
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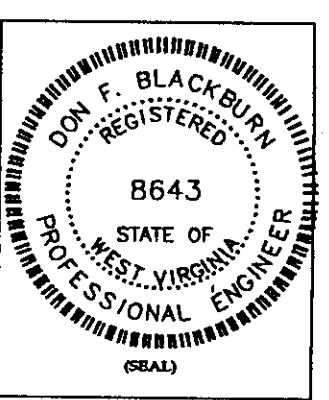
GeoMet Operating Company, Inc.
 Well No. PMC North 114-107-148

FILE NO. 1883-08
 DRAWING NO. WELL PMC-N-148 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 114-107-148

WELL NO. 47 STATE 047 COUNTY 018940 PERMIT

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

LOCATION: ELEVATION 1,704.93' NORTHING 112764.27 EASTING 1785387.49
 DISTRICT BIG CREEK WATER SHED LITTLE SLATE CREEK
 QUADRANGLE WAR COUNTY MCDOWELL

SURFACE OWNER POCAHONTAS MINING, LLC. ACREAGE 1,252
 CBM ROYALTY OWNER POCAHONTAS MINING, LLC. LEASE ACREAGE 1,252
 LEASE NO. RECORDING IN PROGRESS

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE 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 1,370'
 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

6-6 Bradshaw - CBM (383)

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

MP

Well Operator's Report of Well Work

FARM NAME: Pocahontas Mining, LLC OPERATOR WELL NO.: PMC North 114-107-148

LOCATION:

Elevation: 1,704.93' Quadrangle: War

District: Big Creek County: McDowell
Latitude: 8,579 Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 9,469 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>21'</u>	<u>21'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	<u>8-5/8"</u>	<u>520'</u>	<u>520'</u>	<u>116.8 / Pumped 210</u>
Date Permit Issued: <u>March 25, 2004</u>				
Date Well Work Commenced: <u>May 25, 2004</u>	<u>5-1/2"</u>	<u>1375'</u>	<u>1375'</u>	<u>238 / Pumped 273</u>
Date Well Work Completed: <u>June 11, 2004</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1378'</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): 587, 588, 589, 673, 733, 764, 765, 832, 879, 905, 906, 944, 951, 952, 953, 954, 955, 1033, 1034, 1109, 1111, 1218

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 85 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: Gregg Cleary
 DATE: 7-13-04 [Signature]

RECEIVED
Office of Oil & Gas
Office of Chief
JUL 20 2004
WV Department of
Environmental Protection

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DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: GEOMET

HOLE #: PC-148

LOCATION: BUG HURLEY

DRILL RIG #: 94

DATE STARTED: 05-21-04

DATED COMPLETED:05-26-04

ELECTRIC LOGGED:YES

GROUTED:YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	11	11	OVERBURDEN	
11	21	10	SHALE/SAND STONE	
			20.8' W/ 13 3/8" CASING	
21	30	9	SANDY SHALE	
30	61	31	SANDY SHALE / COAL /SANDY SHALE	
61	92	31	SANDY SHALE / SANDY SHALE	
92	123	31	SANDY SHALE / COAL /SANDY SHALE	
			/ SAND	
123	155	32	SANDY SHALE / SAND	
155	185	30	SAND / COAL / SANDY SHALE	
185	215	30	SANDY SHALE / SANDY SHALE	
215	245	30	SAND STONE / SANDY SHALE /	
			SAND STONE	
245	275	30	SAND STONE / SANDY SHALE / 2 COAL STR /	
			SAND STONE	
275	305	30	SAND STONE / SANDY SHALE	
305	335	30	SANDY SHALE / COAL STR	
335	365	30	SANDY SHALE	
365	395	30	SANDY SHALE / SAND STONE STR	
395	425	30	SANDY SHALE / COAL STR / SAND STONE	
425	453	28	SAND STONE / SANDY SHALE / LITTLE COAL	
453	457	4	VOID	
457	485	28	SANDY SHALE / SAND STONE	
485	515	30	SAND STONE / SANDY SHALE	
515	545	30	SANDY SHALE / SAND STONE	
			520' w/ 8 5/8" casing	
545	570	25	SANDY SHALE / SAND	
570	600	30	SANDY SHALE / COAL / SANDY SHALE	
600	630	30	SANDY SHALE / SAND	
630	660	30	SAND / SANDY SHALE	
660	690	30	SANDY SHALE / COAL / SANDY SHALE	
690	720	30	SANDY SHALE / SAND	
720	750	30	SAND / SANDY SHALE / COAL /SANDY SHALE	
750	780	30	SAND / COAL / SANDY SHALE	
780	810	30	SANDY SHALE / SAND	
810	870	60	SAND / SANDY SHALE	
870	900	30	SANDY SHALE / COAL/ SANDY SHALE	
900	960	60	SANDY SHALE / SAND	
960	990	30	SANDY SHALE / COAL / SANDY SHALE	
990	1050	60	SAND	
1050	1080	30	SAND / SANDY SHALE	
1080	1110	30		

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GeoMet Operating Co
Pond Creek 148

FROM	TO	FT.	DESCRIPTION
1110	1165	55	SAND
1165	1195	30	SAND / SANDY SHALE / SAND
1195	1225	30	SAND / COAL / SANDY SHALE
1225	1255	30	SANDY SHALE / SAND
1255	1285	30	SAND / SANDY SHALE
1285	1315	30	SANDY SHALE / SAND
1315	1345	30	SAND STONE
1345	1375	30	SAND STONE / SHALE / SANDY SHALE / SAND STONE

1375.00 FT. TOTAL DEPTH
20.80 FT. OF 13 3/8" CASING
520.00 FT. OF 8 5/8" CASING

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GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name Pond Creek 148 PBTD 1364'

Zone and Perforation Table

Frac Stage Interval	Ball Out		Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1217	1219			
N2 Scf	223,000		No Plug	10,000	6,000
Acid	250	15%			
Gel Volume	5,122	GAL			
ISIP	3,149				
ATP	3,588				
AIR	19	BPM			
Stage 2 Interval	1,107	1109	36 Frac Balls Plug @ 1055'	10,000	11,000
N2 Scf	226,000				
Acid	250	15%			
Gel Volume	5,594	GAL			
ISIP	1,565				
ATP	3,116				
AIR	27	BPM			
Stage 3 Interval	1,032	1034	Shot twice; Could not Break down! No Plug	18,000	0
N2 Scf					
Acid	250	7.5%			
Gel Volume		GAL			
ISIP					
ATP					
AIR		BPM			
Stage 4 Interval	943	945	952' - 954' No Ball Out/too close together Screened Out 36 Perf No Plug	35,000	22,600
N2 Scf	237,000				
Acid	250	15%			
Gel Volume	5,375	GAL			
ISIP	4,118				
ATP	3,248				
AIR	30	BPM			
Stage 5 Interval	879	881	905' - 907' Ball Out	25,000	28,000
N2 Scf	349,000				
Acid	650	15%			
Gel Volume	11,938				
ISIP	997				
ATP	2,698				
AIR	27	BPM			

Well Name Pond Creek 148

PBTD

1364'

Zone and Perforation Table

	587'	589'	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf	160,000		No Plug		25,000	27,000
Acid	250	15%				
Gel Volume	6,132					
ISIP	1,528					
ATP	1,810					
AIR	28	BPM				
Stage 7 Interval						
N2 Scf						
Acid						
Gel Volume						
ISIP						
ATP						
AIR		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						

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