

TEE Engineering Company, Inc.
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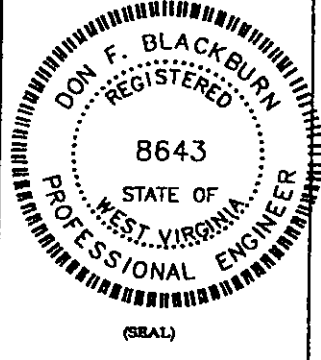
GeoMet Operating Company, Inc.
Well No. Pond Creek 115-104-103

FILE NO. 1883-08/2003 WELLS
DRAWING NO. POND CREEK 103 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 115-104-103
API WELL NO. 47 - 047 - 01804-C
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,666.90' NORTHING 107810.38 EASTING 1788466.70
DISTRICT BIG CREEK WATER SHED 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 1,480'
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

(Beckley 270)

JUN 20 2003

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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: Plum Creek Timberlands OPERATOR WELL NO.: 115-104-103

RECEIVED
Office of Oil & Gas
Office of Chief

OCT - 8 2003

WV Department of
Environmental Protection

LOCATION:

Elevation: 1,666.90' Quadrangle: War

District: Big Creek County: McDowell
Latitude: 5,462' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 14,398' 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>38'</u>	<u>38'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>363'</u>	<u>363'</u>	<u>82/Pumped 210</u>
Date Permit Issued: <u>June 19, 2003</u>				
Date Well Work Commenced: <u>August 5, 2003</u>	<u>5-1/2"</u>	<u>1474'</u>	<u>1474'</u>	<u>256/Pumped 273</u>
Date Well Work Completed: <u>August 13, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u>				
Total Depth (feet): <u>1502'</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): 376, 433, 450, 501, 527, 557, 616, 705, 735, 772, 825, 914, 915, 987, 988, 1104, 1106, 1501.

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 14 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

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

Well Name Pond Creek 103 PBTB 1474

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	N2 Scf	1104	1107			10,000
Acid	145,000		No Plug			
Gel Volume	200					
ISIP	5,000					
ATP	2,624					
AIR	3,280					
	16	BPM				
Stage 2 Interval	913	916			25,000	32,000
N2 Scf	364,000		890'			
Acid	300					
Gel Volume	9,800					
ISIP	1,101					
ATP	2,480					
AIR	31	BPM				
Stage 3 Interval	823	826			20,000	22,000
N2 Scf	255,000		Perf Gun 800'			
Acid	300					
Gel Volume	7,200					
ISIP	2,201					
ATP	2,595					
AIR	26	BPM				
Stage 4 Interval	770	773			20,000	2,600
N2 Scf	203,000		36 Frac Balls On Plug @ 750'			
Acid	100					
Gel Volume	7,600					
ISIP	962					
ATP	2,005					
AIR	26	BPM				
Stage 5 Interval	734	737			20,000	31,000
N2 Scf	221,000		704' -706' Ball Out 600'			
Acid	550					
Gel Volume	9,000					
ISIP	965					
ATP	1,968					
AIR	29	BPM				

Well Name Pond Creek 103

PBTD

1474

Zone and Perforation Table

	556	558	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval						
N2 Scf	146,000		No Ball Out 480'		25,000	22,000
Acid	200	15%				
Gel Volume	5,500					
ISIP	913					
ATP	1,952					
AIR	25	BPM				
Stage 7 Interval	431	434				
N2 Scf	89,000		No Plug			
Acid	200					
Gel Volume	3,800					
ISIP	957					
ATP	1,330					
AIR	16	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						

McDow 1804

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. POND CREEK 103

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 94

DATE STARTED: 08-04-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 08-05-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	30	30	OVERBURDEN	
30	38	08	SHALE/COAL/SANDSTONE	37.60' OF 13-3/8"
38	61	23	SAND/COAL-2'/SANDSTONE	
61	92	31	SANDSTONE/SANDY SHALE/SANDSTONE	
92	123	31	SANDSTONE	
123	154	31	SANDSTONE/SANDY SHALE	
154	185	31	SANDY SHALE/SANDSTONE	
185	215	30	SANDSTONE/SANDY SHALE	
215	245	30	SANDY SHALE/SANDSTONE	
245	275	30	SANDSTONE/SANDY SHALE/COAL STRKS.	
275	295	20	SANDSTONE/SANDY SHALE	
295	300	05	VOID	
300	305	05	SANDSTONE	
305	335	30	SANDSTONE/SANDY SHALE	
335	365	30	SANDY SHALE/SANDSTONE	
365	375	10	SANDSTONE	
			T.D. 363' OF 8-5/8" CASING	
375	390	15	SANDSTONE/SHALE STRKS/POSS. COAL	
390	420	30	SANDSTONE/SANDY SHALE/COAL STRKS.	
420	450	30	SANDY SHALE/COAL STRKS.	
450	480	30	SANDSTONE/SANDY SHALE STRKS.	
480	510	30	SANDSTONE/COAL SANDY SHALE	
510	540	30	SANDY SHALE/COAL	
540	570	30	SANDY SHALE/SANDSTONE/SANDY SHALE	
570	600	30	SANDY SHALE/COAL	
600	630	30	SANDSTONE/SANDY SHALE	
630	660	30	SANDY SHALE/SANDSTONE STRKS.	
660	690	30	SANDY SHALE/COAL	
690	720	30	SANDY SHALE	
720	750	30	SANDY SHALE/SANDSTONE	
750	780	30	SANDSTONE STRKS/SANDY SHALE/COAL	
780	840	60	SANDY SHALE.	
840	870	30	SANDY SHALE/SANDSTONE	
870	900	30	SANDY SHALE/SANDSTONE	
900	930	30	SANDY SHALE	
930	960	30	SANDY SHALE/COAL - 2/SANDSTONE	

GEO—MET OPERATIONS

HOLE #PC-103

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960	990	30	SANDSTONE/SANDY SHALE
990	1020	30	SANDY SHALE/SANDSTONE
1020	1050	30	SANDSTONE/SANDY SHALE/COAL STRKS
1050	1080	30	COAL STRKS/SANDSTONE
1080	1110	30	SANDSTONE/SANDY SHALE/COAL STRKS
1110	1140	30	SANDY SHALE/SANDSTONE
1140	1170	30	SANDSTONE/SANDY SHALE
1170	1200	30	SANDY SHALE/SANDSTONE
1200	1230	30	SANDY SHALE/COAL STRKS/SANDY SH.
1230	1260	30	SANDY SHALE/SANDSTONE
1260	1290	30	SANDSTONE/COAL STRKS/SANDY SHALE
1290	1320	30	R.S.-10'/SANDY SHALE/R.S.-15'
1320	1350	30	SANDY SHALE/R.S.-15'/SANDY SHALE
1350	1380	30	R.S. - 10'/SANDY SHALE
1380	1410	30	SANDY SHALE/R.S.-10'/SANDY SHALE
1410	1440	30	SANDY SHALE/R.S.-15'/SANDY SHALE
1440	1470	30	SANDY SHALE/R.S.-5'
1470	1480	10	SANDY SHALE

TOTAL DEPTH: 1480'

37.60' OF 13-3/8" CASING

363.00' OF 8-5/8" CASING

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