

(+) DENOTES LOCATION OF WELL ON 7.5' TOPOGRAPHIC MAP

12" MAPLE
N 53°04'06" W
198.57'

20" WHITE OAK
N 85°42'07" W
133.84'

PROPOSED POND CREEK
109-107-032

REFERENCES	SCALE 1"=100'
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WELL COORDINATES
WV STATE PLANS
SOUTH ZONE NAD 1927
N. 113330.64
E. 1775063.54

TEE Engineering Company, Inc.

320 Clifton Hill Court
Lexington, KY 40509
(859) 263-5350
Fax (859) 263-5345



P.O. Box 219
Stony Hill, KY 41659
(606) 478-9024
Fax (606) 478-9019

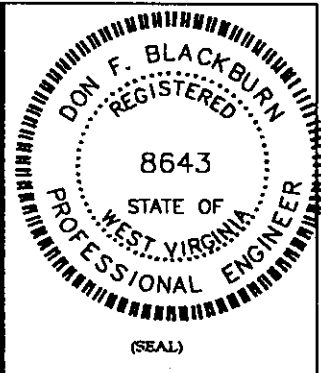
GeoMet Operating Company, Inc.
Well No. Pond Creek 109-107-032

FILE NO. 1883-08/2003 WELLS
DRAWING NO. WELL POND CREEK 32 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 MARCH 5, 2003
OPERATOR'S WELL NO. POND CREEK 109-107-032

WELL NO. 47 - 047 - 1778C
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,910.59' NORTHING 113330.64 EASTING 1775063.54
DISTRICT BIG CREEK WATER SHED RIGHT FORK SLATE CREEK
QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER PLUM CREEK TIMBERLANDS L.P. ACREAGE 9,909.37
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 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 2,008'
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

McDOWELL 1778C

APR 20 2003

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.: 109-107-032

LOCATION:

Elevation: 1910.59'

Quadrangle: Bradshaw

District: Big Creek

County: McDowell

Latitude: 6,789' Feet South of 37 Deg. 20 Min. 00 Sec.

Longitude: 8,987' Feet West of 81 Deg. 45 Min. 00 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>20.65'</u>	<u>20.65'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>338'</u>	<u>338'</u>	<u>76/Pumped 180</u>
Date Permit Issued: <u>April 24, 2003</u>				
Date Well Work Commenced: <u>May 28, 2003</u>	<u>5-1/2"</u>	<u>1767'</u>	<u>1767'</u>	<u>307/Pumped 338</u>
Date Well Work Completed: <u>June 11, 2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u>				
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): 355, 377, 435, 507, 523, 524, 609, 654, 751, 757, 759, 765, 845, 889, 891, 892, 917, 919, 951, 969, 1003, 1053, 1124, 1139, 1222, 1223, 1225, 1265, 1302, 1342, 1343, 1410, 1414, 1540, 1553, 1554, 1726, 1786.

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 9.7 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:

RECEIVED
Office of Oil & Gas
Office of Chief
SEP 25 2003
WV Department of
Environmental Protection

McDow 1778

17 2003

GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name PC 032 PBTB 1772'

Zone and Perforation Table

Frac		Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 1 Interval	1550 1554				
N2 Scf	128,000	NO PLUG		20,000	
Acid	200				
Gel Volume	6,500				
ISIP	3,331				
ATP	3898				
AIR	8 BPM				
Stage 2 Interval	1341 1344			30 Balls on Plug @ 1300'	
N2 Scf	220,000	30 Balls on Plug @ 1300'			
Acid	200				
Gel Volume	7,200				
ISIP	1,541				
ATP	2886				
AIR	23 BPM				
Stage 3 Interval	1222 1225			1263' - 1266' Ball Out	
N2 Scf	511,000	1263' - 1266' Ball Out NO PLUG			
Acid	450				
Gel Volume	14,300				
ISIP	1644				
ATP	3066				
AIR	26 BPM				
Stage 4 Interval	1138 1141			1138' - 1141' Ball Out; No Plug	
N2 Scf	161,000	1138' - 1141' Ball Out; No Plug			
Acid	200				
Gel Volume	6,500				
ISIP	1,792				
ATP	2628				
AIR	20 BPM				
Stage 5 Interval	1002 1005			1002' - 1005' 38 Balls on Plug @ 990'	
N2 Scf	264,000	1002' - 1005' 38 Balls on Plug @ 990'			
Acid	200				
Gel Volume	100				
ISIP	1,786				
ATP	3104				
AIR	18				

Well Name P.C. 032

PBTD

1772'

Zone and Perforation Table

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	917	970		
N2 Scf	323,000		35,000	38,000
Acid	450			
Gel Volume	15,000			
ISIP	1,481			
ATP	2692			
AIR	22	BPM		
	968' - 970', 952' - 954' 917' - 920' Ball Out; No Plug			
Stage 7 Interval	889	892	30,000	32,000
N2 Scf	314,000			
Acid	200			
Gel Volume	11,000			
ISIP	1,782			
ATP	2911			
AIR	22	BPM		
	889' - 892' 850'			
Stage 8 Interval	750	752	30,000	32,000
N2 Scf	318,000			
Acid	200			
Gel Volume	9000			
ISIP	1169			
ATP	3194			
AIR	24	BPM		
	756' - 759' NO PLUG			
Stage 9 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR				
Stage 10 Interval	NONE		NONE	NONE
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR				

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MCDOW 1778

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PC-032

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 23

DATE STARTED: 05-28-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 06-02-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	3	3.00	OVERBURDEN	
3	21	18.00	SHALE/SAND/COAL/SHALE	20.65' OF 13-3/8" PIPE
21	30	9.00	SANDY SHALE	
30	61	31.00	SANDY SHALE/SAND	
61	123	62.00	SAND/SANDY SHALE/SAND	
123	154	31.00	SANDSTONE/SANDY SHALE	
154	185	31.00	SANDY SHALE/SANDSTONE	
185	215	30.00	SANDSTONE	
215	245	30.00	SAND/SANDY SHALE	
245	305	60.00	SANDY SHALE	
305	335	30.00	SANDY SHALE/SAND/SANDY SHALE	
335	350	15.00	SANDY SHALE/SAND	338' OF 8-5/8" PIPE
350	360	10.00	SANDY SHALE	
360	390	30.00	SANDY SHALE/COAL STRKS/SAND	
390	420	30.00	SAND/SANDY SHALE	
420	450	30.00	SANDY SHALE/SAND/SHALE/SAND	
450	480	30.00	SAND/SANDY SHALE	
480	510	30.00	SANDY SHALE	
510	540	30.00	SANDY SHALE/COAL/SANDY SHALE	
540	570	30.00	SANDY SHALE	
570	600	30.00	SANDY SHALE/COAL STRKS/SANDY SH	
600	630	30.00	SANDY SHALE/SAND/SANDY SHALE	
630	660	30.00	SANDY SHALE/COAL/SANDY SHALE	
660	690	30.00	SANDY SHALE/SAND	
690	720	30.00	SAND/SANDY SHALE	
720	750	30.00	SANDY SHAEL/SAND/SHALE	
750	780	30.00	COAL/SHALE/SANDY SHALE/SAND	
780	810	30.00	SANDSTONE	
810	840	30.00	SAND/SANDY SHALE	
840	870	30.00	SANDY SHALE/SAND/SANDY SHALE	
870	900	30.00	SANDY SHALE/COAL STRKS/SANDY SH	
900	930	30.00	SANDY SHALE/SAND	
930	960	30.00	SAND/SANDY SHALE	
960	990	30.00	SANDY SHALE/SAND/SANDY SHALE	
990	1020	30.00	SANDY SHALE/SAND/SANDY SHALE	
1020	1050	30.00	SAND/SANDY SHALE/SAND	

GEO-MET
HOLE #PC-032
PAGE 2

1050	1080	30.00	SAND/SANDY SHALE/SAND
1080	1110	30.00	SANDSTONE/SANDY SHALE
1110	1140	30.00	SANDY SHALE/SAND
1140	1170	30.00	SAND/SANDY SHALE/SAND
1170	1200	30.00	SAND
1200	1230	30.00	SANDY SHALE/COAL/SANDY SHALE
1230	1260	30.00	SANDY SHALE/SAND/POSS.COAL
1260	1290	30.00	SAND STRKS/SANDY SHALE
1290	1320	30.00	COAL W/SHALE/SANDY SHALE
1320	1350	30.00	SANDY SHALE/COAL/SANDY SHALE
1350	1380	30.00	SAND/SANDY SHALE
1380	1410	30.00	SANDY SHALE/SAND/COAL
1410	1440	30.00	SANDY SHALE/SANDSTONE
1440	1470	30.00	SANDY SHALE/COAL STRKS/SAND
1470	1500	30.00	SANDY SHALE/POSS. COAL
1500	1530	30.00	SANDY SHALE/COAL
1530	1560	30.00	SANDY SHALE/SAND/COAL STRKS
1560	1590	30.00	SAND/SANDY SHALE
1590	1620	30.00	SANDY SHALE/SAND STRKS/SANDY SH
1620	1650	30.00	SANDY SHALE/SANDSTONE STRKS.
1650	1680	30.00	SAND/SANDY SHALE
1680	1710	30.00	SANDY SHALE/SAND STRKS/RED SHALE
1710	1740	30.00	RED SHALE/SANDY SHALE/SANDSTONE
1740	1770	30.00	SANDY SHALE/SANDSTONE/SANDY SHALE
1770	1800	30.00	SANDSTONE STRKS/SHALE

TOTAL DEPTH: 1800'
20.65' OF 13-3/8" PIPE
338' OF 8-5/8" PIPE

OCT 17 2003*

Mc Dow 1778