

15" OAK N 40°13'35" W 55.42'

15" OAK N 87°18'41" W 55.01'

PROPOSED PMC NORTH 111-108-120

REFERENCES	SCALE 1"=100'
WELL COORDINATES WV STATE PLANE SOUTH ZONE NAD 1927 N. 115841.76 E. 1779289.72	

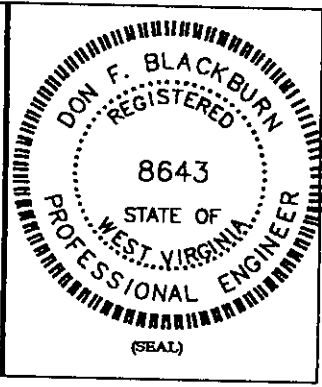
TEE Engineering Company, Inc.
320 Centre Hill Court
Lexington, KY 40509
(859) 263-5330
Fax (859) 263-5345

GeoMet Operating Company, Inc.
Well No. PMC North 111-108-120

FILE NO. 1883-08
DRAWING NO. WELL PMC-N-120 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 SEPTEMBER 18, 2003
OPERATOR'S WELL NO. PMC NORTH 111-108-120
API WELL NO. 47 - 047 - 01838C
STATE - COUNTY - PERMIT

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

LOCATION: ELEVATION 2,200.32 NORTHING 115841.76 EASTING 1779289.72
DISTRICT BIG CREEK WATER SHED LITTLE SLATE CREEK
QUADRANGLE BRADSHAW 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 1934'
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

(Bendshaw 270)

001 3 1 2003

MCDOWELL 1838C

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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.: PMC North 111-108-120

LOCATION:

Elevation: 2,200.32' Quadrangle: Bradshaw

District: Big Creek County: McDowell
Latitude: 2,583 Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 6,441 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>21'</u>	<u>21'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	<u>7"</u>	<u>312'</u>	<u>312'</u>	<u>60 / Pumped 90</u>
Date Permit Issued: <u>October 28, 2003</u>				
Date Well Work Commenced: <u>11/11/2003</u>	<u>4-1/2"</u>	<u>1979.4'</u>	<u>1979.4'</u>	<u>216 / Pumped 228</u>
Date Well Work Completed: <u>11/21/2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>1960'</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): 563, 642, 643, 759, 773, 845, 889, 1020, 1021, 1022, 1023, 1027, 1131, 1132, 1133, 1134, 1180, 1181, 1182, 1201, 1232, 1268, 1287, 1400, 1431, 1432, 1433, 1471, 1599, 1675, 1676, 1710, 1733, 1788, 1789, 1989.

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 103 psig (surface pressure) after 96 Hours

RECEIVED
Office of Oil & Gas
Office of Chief
APR 12 2004
WV Department of
Environmental Protection

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: Agent
DATE: 4-7-04

Mc Dow 1838

JUN 11 2004

GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification

Well Name PMC NORTH 120

PBTD

1980'

Zone and Perforation Table

Frac Stage 1 Interval			Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1732	1734				
N2 Scf			No Break		15,000	
Acid	100					
Gel Volume						
ISIP	3,800					
ATP	4,000					
AIR	BPM					
Stage 2 Interval	1,674	1676				
N2 Scf	160,000		Easy Job			
Acid	50					
Gel Volume	5,650					
ISIP	1,481					
ATP	2,764					
AIR	11	BPM				
Stage 3 Interval	1,469	1472				
N2 Scf	209,000		Screen Out			
Acid	50					
Gel Volume	5,800					
ISIP	4,158					
ATP	3,158					
AIR	11	BPM				
Stage 4 Interval	1,430	1433				
N2 Scf	261,000		Started Tight But Fracted Good			
Acid	50					
Gel Volume	4,700					
ISIP	1,821					
ATP	3,188					
AIR	10.5	BPM				
Stage 5 Interval	1,399	1401				
N2 Scf	172,000		Irratic PSI's			
Acid	50					
Gel Volume	3,890					
ISIP	1,639					
ATP	3,152					
AIR	11	BPM				

Well Name PMC NORTH 120

PBTD

1980'

Zone and Perforation Table

	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	1,231	1,233		
N2 Scf	186,000		18,000	18,000
Acid	50			
Gel Volume	4,030			
ISIP	1,377			
ATP	2,716			
AIR	11	BPM		
	Started Tight But Fracted Low PSI's			
Stage 7 Interval	1,179	1,182	25,000	25,000
N2 Scf	172,000			
Acid	50			
Gel Volume	4,570			
ISIP	1,323			
ATP	2,512			
AIR	11.5	BPM		
	Easy Frac			
Stage 8 Interval	1,130	1,133	25,000	25,000
N2 Scf	287,000			
Acid	50			
Gel Volume	6,216			
ISIP	1,993			
ATP	3,206			
AIR	12	BPM		
	No Luck w/ Samples			
Stage 9 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR	BPM			
Stage 10 Interval				
N2 Scf				
Acid				
Gel Volume				
ISIP				
ATP				
AIR				

McDow 18388
 JUN 11 2004

DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PMC-120

LOCATION: BUG HURLEY

DRILL: RIG 94

DATE STARTED: 11-10-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 11-13-03

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0	5	5	OVERBURDEN	
5	21	16	SOFT SAND/SANDSTONE	
21	25	4	SANDSTONE/SHALE 21' W/13-3/8" CASING	
25	56	31	SANDY SHALE/COAL STR.SANDY SHALE	
56	87	31	COAL STR./SANDY SHALE	
87	118	31	SANDY SHALE/SANDSTONE	
118	149	31	COAL STR./SANDSTONE	
149	180	31	SANDSTONE/SANDY SHALE	
180	210	30	SANDSTONE	
210	240	30	SANDY SHALE/COAL/SANDSTONE	
240	270	30	SANDSTONE/SANDY SHALE	
270	300	30	SANDSTONE	
330	335	05	SANDSTONE/SANDY SHALE 312' W/7" CASING	
335	365	30	SANDY SHALE/COAL STRKS/SANDSTONE STR.	
365	395	30	SANDY SHALE/COAL/SANDSTONE	
395	425	30	SANDSTONE/SANDY SHALE STRKS.	
425	455	30	SANDSTONE/SANDY SHALE STRKS.	
455	485	30	SANDSTONE/COAL STR/SANDY SHALE	
485	515	30	SANDSTONE/SANDY SHALE	
515	545	30	SANDY SHALE/COAL STR.	
545	575	30	SANDY SHALE/COAL/SANDSTONE	
575	605	30	SANDSTONE/SANDY SHALE STR/COAL STR.	
605	635	30	SANDY SHALEJ/COAL SANDSTONE STR.	
635	665	30	SANDSTONE/COAL/SANDY SHALE	
665	695	30	SANDY SHALE/SANDSTONE	
695	725	30	SANDSTONE/COAL - 3/SANDSTONE	
725	755	30	SANDSTONE/SANDY SHALE	
755	785	30	SANDY SHALE/COAL - 3/SANDSTONE	
785	815	30	SANDY SHALE/SANDSTONE	
815	845	30	SANDSTONE STR./SANDY SHALEJ/COAL ST.	
845	875	30	SANDSTONE/SANDY SHALE/COAL STR.	
875	905	30	SANDY SHALE/COAL/SANDSTONE	
905	935	30	SANDY SHALE/SANDSTONE	
935	965	30	SANDY SHALE	
965	995	30	SANDY SHALE/SANDSTONE STRKS.	
995	1025	30	SANDSTONE	
1025	1055	30	SANDY SHALE	
1055	1145	90	SANDSTONE	
1145	1175	30	SANDSTONE/SANDY SHALE	
1175	1205	30	SANDY SHALE	
1205	1235	30	SANDSTONE/SANDY SHALE STR/COAL STR.	
1235	1265	30	COAL STR./SANDY SHALE/SANDSTONE	
1265	1295	30	SANDSTONE	
1295	1325	30	SANDSTONE/SANDY SHALE	
1325	1355	30	SANDY SHALE/SANDSTONE STRKS.	

GEO-MET OPERATING
HOLE #PC-120
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1355	1385	30	SANDY SHALE/COAL STR-3/SANDSTONE
1385	1415	30	SANDSTONE
1415	1445	30	SANDY SHALE STR./SANDSTONE
1445	1475	30	SANDY SHALE/COAL STR/SANDSTONE
1475	1505	30	SANDSTONE/SHALE OR COAL STR.
1505	1535	30	SANDY SHALE/SANDSTONE
1535	1565	30	SANDY SHALE/COAL STR./SANDSTONE
1565	1595	30	SANDY SHALE STR./COAL/SANDSTONE/ COAL-1592-1595
1595	1625	30	SANDY SHALE/SANDSTONE/SANDY SHALE/J SANDSTONE
1625	1655	30	SANDSTONE/COAL/SANDY SHALE/COAL STR./ SANDSTONE
1655	1685	30	SANDSTONE/COAL-1660-1668/SANDY SHALE/ SANDSTONE STRKS.
1685	1715	30	SANDSTONE/SANDY SHALE
1715	1745	30	SANDY SHALE/COAL-1720-1722- 1735-1737
1745	1775	30	SANDY SHALE/SANDSTONE/COAL-1765-1768/ SANDY SHALE
1775	1805	30	COAL-1780-1782/SANDY SHALEJ/SANDSTONE STR
1805	1840	35	COAL/RED SHALE/SANDY SHALE
1840	1870	30	SANDY SHALE/SANDSTONE
1870	1900	30	SANDSTONE
1900	1930	30	SANDSTONE/SHALE STR.
1930	1960	30	SANDSTONE/SHALE STRKS. 1979.40' W/4-1/2" CASING

TOTAL DEPTH: 1960'
21' W/13-3/8" CASING
312' W/7" CASING
1979.40' W/4-1/2" CASING

McDow 1838

JUN 11 2004