

316

LATITUDE 37° 20' 00"

LONGITUDE 81° 47' 30"

734'

PLUM CREEK TIMBERLANDS, L.P. - SURFACE AND COAL OWNERS
GEOMET OPERATING COMPANY INC. - CBM LESSEE ACREAGE 9,909.37

PENN VIRGINIA OIL & GAS CORP. - OIL & GAS ONLY
CABOT OIL & GAS CORPORATION - OIL & GAS LESSEE

EQUITABLE CBM LESSEE
APPROX. 376 ACRES

GPS CONTROL
TEC-1

PROPOSED WELL
POND CREEK 106-107-029

1.46
06
7.5' LOC.

REFERENCES | SCALE 1"=100'
WELL COORDINATES
WV STATE PLANE
SOUTH ZONE NAD 1927
N 11469.35
E 1269429.8

TEE Engineering Company, Inc.

3201 Gates Hill Court
Lexington, KY 40509
(502) 263-1100
Fax (502) 263-3345



P.O. Box 319
Stammons, KY 40380
(606) 178-9023
Fax (606) 178-9019

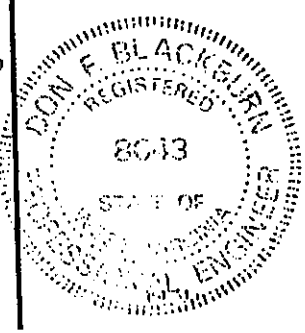
GeoMet Operating Company, Inc.
Well No. Pond Creek 106-107-029

FILE NO. 1925-11
DRAWING NO. WELL 29 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
ISSUED AND PRESCRIBED BY THE
DEPARTMENT OF MINES.

Don F. Blackburn
(SIGNATURE)

R.P.S. 8643 R.P.S.



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

DATE FEBRUARY 5, 2002
OPERATOR'S WELL NO. POND CREEK 106-107-029
WELL NO. 47 STATE 047 COUNTY PERMIT 01626C

WELL TYPE: OIL GAS X CBM LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW
LOCATION: ELEVATION 2,115.12' WATER SHED HITE FORK OF BRADSHAW CREEK
DISTRICT SANDY RIVER COUNTY McDOWELL
QUADRANGLE BRADSHAW
SURFACE OWNER PLUM CREEK TIMBERLANDS, L.P. ACREAGE 9,909.37
CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS, L.P. LEASE ACREAGE 9,909.37
LEASE NO. RECORDING IN PROGRESS
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDEPTH 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 1935'
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT GREGG CLEARY
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 1105 HEATHERWOOD ROAD
BIRMINGHAM, ALABAMA 35244 BLUEFIELD, WV 24701

MAR 15 2002

Mc Dow 1626 C

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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: Plum Creek Timberlands, L.P.

OPERATOR WELL NO.: PC #029

LOCATION:

Elevation: 2,115.12' Quadrangle: Bradshaw

District: Sandy River County: McDowell
Latitude: 316' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 7,734 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>26.65'</u>	<u>26.65'</u>	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	<u>8-5/8"</u>	<u>330'</u>	<u>330'</u>	<u>136/Pumped 180</u>
Date Permit Issued: <u>March 12, 2002</u>				
Date Well Work Commenced: <u>June 18, 2002</u>	<u>5-1/2"</u>	<u>2017'</u>	<u>2017'</u>	<u>350/Pumped 390</u>
Date Well Work Completed: <u>September 23, 2002</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>2040'</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>				

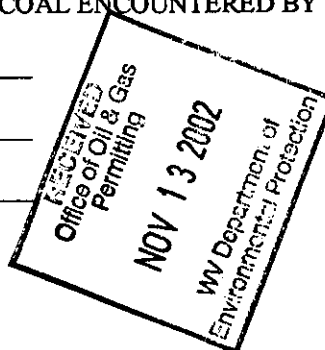
Coal Depths (feet): 592/680/713/792/851/893/1149/1203/1206/1217/1243/1385/1388/1409/1443/1486/1602/1648/1804

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 305 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: *Anna Rice*
DATE: 12-18-2002



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Mc Dow 1626 C

API #: 47-01626C

Operator Well #: PC #029

Farm Name: Plum Creek Timberlands, L.P.

1.) Details of perforated intervals, fracturing or stimulating, physical change, etc.

1st Stage:

Perf P2, 1754' – 1760' & frac on 9/23/02 by Superior with 70Q Foam 25,600 16/30 Sand, 284,000 SCF N2, 286 Total Bbls Fluid. Breakdown Pressure 3155 PSIG, Average Pressure 2766 PSI, 4000 ISIP

2nd Stage:

Perf P3-1, 1647' – 1653' & frac on 9/23/02 by Superior with 70Q Foam 30,000 16/30 Sand, 393,000 SCF N2, 274 Total Bbls Fluid. Breakdown Pressure 3014 PSIG, Average Pressure 2955 PSI, 1232 ISIP

3rd Stage:

Perf P4, 1598' – 1604' & frac on 9/23/02 by Superior with 70Q Foam 41,300 16/30 Sand, 372,000 SCF N2, 274 Total Bbls Fluid. Breakdown Pressure 1988 PSIG, Average Pressure 2728 PSI, 1266 ISIP

4th Stage:

Perf P6, 1438' – 1442'/Perf P5, 1482' – 1486' & frac on 9/23/02 by Superior with 70Q Foam 15,800 16/30 Sand, 301,000 SCF N2, 210 Total Bbls Fluid. Breakdown Pressure 3581 PSIG, Average Pressure 3088 PSI, 1215 ISIP

5th Stage:

Perf P9, 1404' – 1408', No Breakdown @ 3708' PSI

6th Stage:

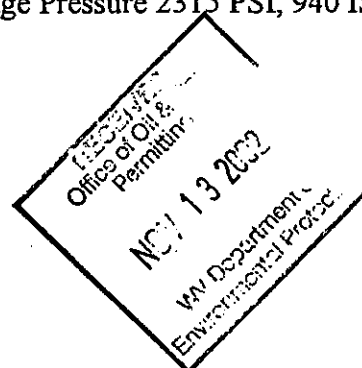
Perf P9-4, 1372' – 1378'/Perf P9-4, 1385' – 1387' & frac on 9/23/02 by Superior with 70Q Foam 66,000 16/30 Sand, 874,000 SCF N2, 571 Total Bbls Fluid. Breakdown Pressure 2496 PSIG, Average Pressure 2525 PSI, 1700 ISIP

7th Stage:

Perf P9-6, 1238' – 1242'/Perf P9-8, 1200' – 1206' & frac on 9/23/02 by Superior with 70Q Foam 41,000 16/30 Sand, 307,000 SCF N2, 238 Total Bbls Fluid. Breakdown Pressure 2817 PSIG, Average Pressure 2055 PSI, 1467 ISIP

8th Stage:

Perf P10, 1146' – 1150' & frac on 9/23/02 by Superior with 70Q Foam 25,000 16/30 Sand, 238,000 SCF N2, 190 Total Bbls Fluid. Breakdown Pressure 2953 PSIG, Average Pressure 2315 PSI, 940 ISIP



DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.

COMPANY: GEOMET OPERATING CO. HOLE NO.: GPPC-029

LOCATION: PEA PATCH DRILL: RIG # 45

DATE STARTED: 06-18-2002 DATE COMPLETED: 06-20-2002

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0.00	10.00	10.00	OVERBURDEN	
10.00	20.00	10.00	SOFT SAND	
20.00	36.00	16.00	SANDSTONE	26.65' W/ 13 3/8" CASING
36.00	65.00	29.00	SAND / COAL	41'-45' / SANDY SHALE / SAND
65.00	127.00	62.00	SANDSTONE	
127.00	160.00	33.00	SAND / COAL STR	145' / SANDY SHALE
160.00	190.00	30.00	SANDY SHALE / COAL	
190.00	220.00	30.00	SANDY SHALE	
220.00	250.00	30.00	SAND	
250.00	280.00	30.00	SANDY SHALE / COAL	
280.00	310.00	30.00	SANDY SHALE	
310.00	340.00	30.00	SAND	
340.00	360.00	20.00	SAND STR / SANDY SHALE / POSS. COAL	
360.00	390.00	30.00	SANDY SHALE / SHALE / COAL	388'-390'
390.00	420.00	30.00	SAND STR / SANDY SHALE / COAL	415'-416.5'
420.00	450.00	30.00	SANDY SHALE / SAND	
450.00	480.00	30.00	SAND / SANDY SHALE	
480.00	510.00	30.00	SANDY SHALE / SAND STR	
510.00	540.00	30.00	SAND / SANDY SHALE / COAL	538'-540' ✓
540.00	570.00	30.00	SANDY SHALE / COAL	555' ✓
570.00	600.00	30.00	SANDY SHALE / COAL	590'-592' / SAND ✓
600.00	630.00	30.00	SAND / SANDY SHALE	
630.00	660.00	30.00	SANDY SHALE / COAL	640'-642' ✓
660.00	690.00	30.00	SANDY SHALE / SAND STR	
690.00	720.00	30.00	SANDY SHALE / COAL	705'-709' / SANDY SHALE / COAL 718' ✓
720.00	750.00	30.00	SANDSTONE	
750.00	780.00	30.00	SAND / SANDY SHALE / COAL STR	775' ✓
780.00	810.00	30.00	SANDY SHALE / COAL	790'-792' / SANDY SHALE / COAL 795' / SAND ✓
810.00	840.00	30.00	COAL	810'-812' / SANDY SHALE / SAND ✓
840.00	870.00	30.00	SAND STR / COAL	845'-849' / SANDY SHALE / SAND ✓
870.00	900.00	30.00	SAND / SANDY SHALE / COAL	887'-889' / SANDY SHALE / SAND ✓
900.00	960.00	60.00	SAND / SANDY SHALE	
960.00	990.00	30.00	SANDY SHALE / POSS. COAL STR	
990.00	1020.00	30.00	SANDY SHALE / POSS. COAL / SAND	
1020.00	1050.00	30.00	SANDSTONE	
1050.00	1080.00	30.00	SAND / SANDY SHALE	
1080.00	1110.00	30.00	COAL	1080'-1082' / SANDY SHALE / SAND ✓
1110.00	1140.00	30.00	COAL STR / SANDY SHALE	

RECEIVED
 Office of Oil & Gas
 Permitting
 NOV 13 2002
 WV Department of
 Environmental Protection

JAN 17 2003

Mc Dow 1626 C

FROM	TO	FT.	DESCRIPTION
1140.00	1200.00	60.00	SANDY SHALE / COAL
1200.00	1230.00	30.00	SANDY SHALE
1230.00	1260.00	30.00	SAND
1260.00	1290.00	30.00	SANDY SHALE / COAL
1290.00	1350.00	60.00	SAND
1350.00	1380.00	30.00	SANDY SHALE
1380.00	1440.00	60.00	SANDY SHALE / COAL
1440.00	1470.00	30.00	SAND
1470.00	1500.00	30.00	SANDY SHALE
1500.00	1530.00	30.00	SAND
1530.00	1620.00	90.00	SANDY SHALE
1620.00	1650.00	30.00	SANDY SHALE / COAL
1650.00	1710.00	60.00	SANDY SHALE
1710.00	1740.00	30.00	SAND
1740.00	1770.00	30.00	SANDY SHALE / COAL
1770.00	1800.00	30.00	SANDY SHALE
1800.00	1830.00	30.00	SANDY SHALE / COAL
1830.00	1860.00	30.00	SANDY SHALE / SANDSTONE
1860.00	1890.00	30.00	SANDY SHALE / SAND / SANDY SHALE STR
1890.00	1920.00	30.00	SANDY SHALE / SAND
1920.00	1950.00	30.00	SANDY SHALE / RED SHALE /
1950.00	1980.00	30.00	RED SHALE / SAND
1980.00	2010.00	30.00	SAND / RED SHALE
2010.00	2040.00	30.00	RED SHALE / SANDY SHALE TD 7 7/8" HOLE

2040.00 FT. TOTAL DEPTH
 26.65 FT. OF 13 3/8" CASING
 330.00 FT. OF 8 5/8" CASING

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