

LATITUDE 37° 20' 00"  
LONGITUDE 81° 45' 00"  
10.563'

PROPOSED POND CREEK 110-106-154

7.5' LOC.

S 78°11'04" E 158.01'  
S 63°53'04" E 143.31'

12" OAK  
25" HICKORY

REFERENCES | SCALE 1"=100'

WELL COORDINATES  
WV STATE PLANE  
SOUTH ZONE NAD 1927  
N. 111727.84  
E. 1776292.06

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

**TEE Engineering Company, Inc.**  
320 Cutlers Hill Court  
Lexington, KY 40509  
(859) 263-5350  
Fax (859) 263-5345

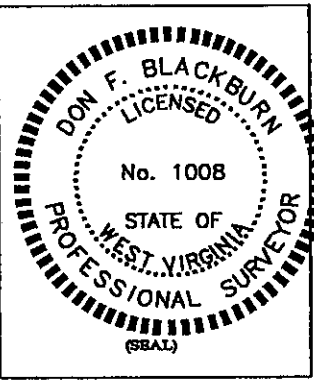
**GeoMet Operating Company, Inc.**  
**Well No. Pond Creek 110-106-154**

FILE NO. 1883-08/2004 WELLS  
DRAWING NO. POND CREEK 154 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. \_\_\_\_\_ R.P.S. 1008



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

DATE JUNE 1, 2004  
OPERATOR'S WELL NO. POND CREEK 110-106-154

API WELL NO. 47 - 047 01933-C  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,819.65' NORTHING 111727.84 EASTING 1778292.06  
DISTRICT BIG CREEK WATER SHED MUDLICK BR. OF LITTLE SLATE CREEK  
QUADRANGLE BRADSHAW COUNTY MCDOWELL

SURFACE OWNER THE FORESTLAND GROUP LLC ACREAGE 9,909.37  
CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS LP. LEASE ACREAGE 9,909.37  
LEASE NO. \_\_\_\_\_ RECORDING IN PROGRESS \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
STIMULATE X 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 1,544'  
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

6-6 BRADSHAW (270)

JUL 09 2004

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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: The ForestLand Group LLC OPERATOR WELL NO.: Pond Creek 110-106-154

LOCATION:

Elevation: 1,819.65' Quadrangle: Bradshaw

District: Big Creek County: McDowell  
Latitude: 3,547' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 10,563' 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: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244	13-3/8"	25'	25'	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Bill Hatfield</u>	8-5/8"	311'	311'	79/Pumped 120
Date Permit Issued: <u>July 9, 2004</u>				
Date Well Work Commenced: <u>September 3, 2004</u>	5-1/2"	1544'	1544'	392/Pumped 293
Date Well Work Completed: <u>October 8, 2004</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable <u>      </u> Rig <u>      </u>				
Total Depth (feet): <u>1555'</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): 353, 383, 439, 444, 456, 504, 591, 616, 622, 701, 742, 764, 815, 824, 860, 918, 996, 1005, 1031, 1054, 1117, 1143, 1196, 1263, 1264, 1270, 1329

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow 9 MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow \_\_\_\_\_ MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of Open Flow between initial and final tests \_\_\_\_\_ Hours  
Static Rock Pressure 83 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: Allen Lige  
DATE: 10-20-04

RECEIVED  
Office of Oil & Gas  
Office of Chief  
OCT 29 2004  
WV Department of  
Environmental Protection

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**DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC**

**COMPANY: GEOMET**

**HOLE #: POND CREEK #154**

**LOCATION: BUG HURLEY**

**DRILL RIG #: 94**

**DATE STARTED:09-02-04**

**DATED COMPLETED: 09-10-04**

**ELECTRIC LOGGED:YES**

**GROUTED:YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION,VOIDS ETC	
0	20	20	OVERBURDEN	
20	25	5	SANDY SHALE / SAND STONE	
25	30	5	SAND STONE 24.75' W/13-3/8" CASING	
30	92	62	SAND STONE / SANDY SHALE STR	
92	123	31	SAND STONE / COAL / SAND STONE / SANDY SHALE STR	
123	154	31	SAND STONE / SANDY SHALE STR / SAND STONE	
154	185	31	SAND STONE STR / SANDY SHALE / COAL STR	
185	215	30	SAND STONE / SANDY SHALE	
215	245	30	SAND STONE / COAL STR / SAND STONE / SANDY SHALE	
245	275	30	SAND STONE	
275	305	30	SAND STONE / SANDY SHALE / COAL	
305	325	20	SANDY SHALE 311.10'W/8-5/8" CASING	
325	330	5	SAND STONE	
330	360	30	SANDY SHALE/SHALE STR/ COAL STR	
360	390	30	SAND STONE / COAL 2 W/SHALE / SAND STONE	
390	420	30	SAND STONE	
420	450	30	SAND STONE / SANDY SHALE STR	
450	480	30	SAND STONE / COAL STR / SANDY SHALE	
480	510	30	SANDY SHALE / 2 COAL STR: 1 & 2)	
510	540	30	SANDY SHALE / COAL STR / COAL STR	
540	570	30	SANDY SHALE / COAL STR / SANDSTONE STR	
570	600	30	SANDY SHALE / COAL 2 W/ SHALE / SAND STONE STR	
600	630	30	SANDY SHALE / COAL / SHALE/2 COAL / SHALE /3 COAL / SANDY SHALE	
630	660	30	SAND STONE / SANDY SHALE STRKS	
660	690	30	SAND STONE / SHALE STRKS	
690	720	30	SAND STONE / COAL 2 / SANDY SHALE / SAND STONE / SANDY SHALE	
720	750	30	SANDY SHALE / SAND STONE/2 COAL	

750	780	30	/ SAND STONE SAND STONE / COAL 1 / SAND STONE / SANDY SHALE STR
780	810	30	SAND STONE
810	840	30	SAND STONE / COAL STR 2 / SANDY SHALE STR
840	870	30	SAND STONE / 2 COAL STR / SANDY SHALE
870	900	30	SAND STONE / SANDY SHALE STR / COAL 2 W/SHALE
900	930	30	SAND STONE STR / COAL 1-2 / SANDY SHALE
930	990	60	SANDY SHALE
990	1020	30	SANDY SHALE / 2 COAL STR / SAND STONE
1020	1050	30	SANDY SHALE / 3 COAL SMS 2
1050	1080	30	SAND STONE / SAND STONE / COAL
1080	1110	30	SANDY SHALE / SAND STONE / COAL 2
1110	1140	30	COAL / SANDY SHALE / SAND STONE / SANDY SHALE
1140	1170	30	SANDY SHALE / SAND STONE
1170	1200	30	SAND STONE / SANDY SHALE / COAL 2
1200	1230	30	SANDY SHALE / SAND STONE
1230	1260	30	SAND STONE (HARD)/SANDY SHALE
1260	1285	25	SANDY SHALE / POSS COAL STR / SAND STONE
1285	1315	30	SAND STONE / SANDY SHALE STRKS
1315	1345	30	SAND STONE / SANDY SHALE / COAL 2 / SAND STONE W / SHALE STRKS
1345	1375	30	SAND STONE (HARD) W / SHALE STRKS
1375	1405	30	SAND STONE STR / SANDY SHALE / COAL 2 / SHALE / COAL 2 / SANDY SHALE
1405	1435	30	SANDY SHALE/SAND STONE (HARD)SANDY SHALE STR
1435	1450	15	SANDY SHALE / SAND STONE
1450	1465	15	SAND STONE / SHALE STRKS
1465	1495	30	SAND STONE / SANDY SHALE STR
1495	1525	30	SAND STONE / SANDY SHALE / SAND STONE W / SHALE STRKS
1525	1555	30	SAND STONE/SHALE STRKS 1544.20' W/5-1/2" CASING

TOTAL DEPTH: 1,555'  
24.75' W/13-3/8" CASING  
311.10' W/8-5/8" CASING  
1544.20' W/5-1/2" CASING

Mc Dow 1983

1981 1 4 2005

Well Name Pond Creek 154

PBTD

1540'

**Zone and Perforation Table**

	Ball Out		Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	590	592			
N2 Scf	308,000		615' - 617'/622' - 625' 550' B/O w/36 Balls	25,000	26,000
Acid	500				
Gel Volume	8,800				
ISIP	1,551				
ATP	2,503				
AIR	29	BPM			
Stage 7 Interval	443	445			15,000
N2 Scf	147,000		455' - 457'/503' - 505' B/O w/36 Balls No Plug		
Acid	500				
Gel Volume	5,670				
ISIP	673				
ATP	2,016				
AIR	27.0	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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**GeoMet Operating Company, Inc.  
Perforation and Frac Volume Specification**

Well Name Pond Creek 154 PBTD 1540'

**Zone and Perforation Table**

Frac	1195'-1197'		Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
	1328	1330				
Stage 1 Interval	279,000		w/24 Perf Balls 30 Balls on Plug @ 1180'		18,000	19,000
N2 Scf	250					
Acid	7,880	Gal				
Gel Volume	1,341					
ISIP	2,805					
ATP	27	BPM				
AIR						
Stage 2 Interval	287,000		1142' - 1144' B/O w/30 Perf Balls		25,000	26,000
N2 Scf	500					
Acid	9,240					
Gel Volume	1,327					
ISIP	2,318					
ATP	28	BPM				
AIR						
Stage 3 Interval	385,000		1004' - 1006'/1030' - 1032' 1054' - 1056' B/O w/40 Balls 940'		30,000	30,000
N2 Scf	500					
Acid	10,880					
Gel Volume	1,083					
ISIP	2,672					
ATP	27	BPM				
AIR						
Stage 4 Interval	312,000		823' - 825'/859' - 861' 917' - 919' B/O w/48 Balls 780'		25,000	25,500
N2 Scf	500					
Acid	9,910					
Gel Volume	957					
ISIP	1,922					
ATP	31	BPM				
AIR						
Stage 5 Interval	140,000		741' - 743'/763' - 765' B/O w/36 Balls 650'		25,000	6,000
N2 Scf	500					
Acid	6,210					
Gel Volume	4,000					
ISIP	2,690					
ATP	27	BPM				
AIR						