

PROPOSED HALL SOUTH 112-101-145

16" MAPLE
10" BEECH

REFERENCES SCALE 1"=100'

WELL COORDINATES
WV STATE PLANE
SOUTH ZONE NAD 1927
N. 101967.26
E. 1781891.16

TEE Engineering Company, Inc.

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



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

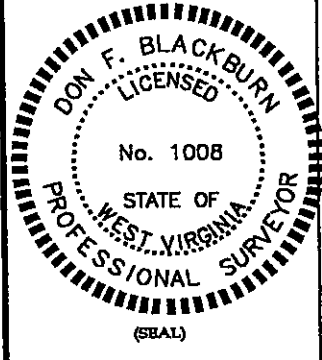
GeoMet Operating Company, Inc.
Well No. Hall South 112-101-145

FILE NO. 1883-08/2004 WELLS
DRAWING NO. WELL HALL SOUTH 145 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.

[Signature]
(SIGNATURE)

R.P.E. _____ R.P.S. 1008



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

DATE JULY 8, 2004
OPERATOR'S WELL NO. HALL SOUTH 112-101-145

API WELL NO. 47 - 047 - 01942-C
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,850.41' NORTHING 101967.26 EASTING 1781891.16
DISTRICT BIG CREEK WATER SHED: STRAIGHT FORK OF LITTLE SLATE CREEK
QUADRANGLE WAR COUNTY McDOWELL

SURFACE OWNER HALL MINING COMPANY et al ACREAGE 339.95
CBM ROYALTY OWNER HALL MINING COMPANY et al LEASE ACREAGE 339.95
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 1,482'
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 20 2004

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

ME

Well Operator's Report of Well Work

FARM NAME: Hall Mining Company, et al

OPERATOR WELL NO.: Hall Mining 112-101-145

LOCATION:

Elevation: 1,850.41' Quadrangle: War

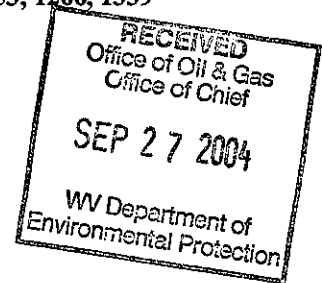
District: Big Creek County: McDowell
Latitude: 11,992' S Feet South of 37 Deg. 17 Min. 30 Sec.
Longitude: 5,123' W Feet West of 81 Deg. 42 Min. 30 Sec.

Company: <u>GeoMet Operating Company</u>	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
Address: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244	13-3/8"	41'	41'	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Carlos Hively</u>	8-5/8"	333'	333'	85/Pumped 120
Date Permit Issued: <u>July 30, 2004</u>				
Date Well Work Commenced: <u>August 3, 2004</u>	5-1/2"	1501'	1501'	260/Pumped 286
Date Well Work Completed: <u>September 8, 2004</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>1508.64'</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): 680, 686, 721, 735, 791, 824, 842, 945, 973, 999, 1047, 1149, 1211, 1219, 1253, 1266, 1339

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 123 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: Karen Rye
DATE: 9/10/2003

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DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: GEOMET

HOLE #: HALL MINING SOUTH 145

LOCATION: BUG HURLEY

DRILL RIG #: 94

DATE STARTED: 08-02-04

DATED COMPLETED: 08-04-04

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	41	41	OVERBURDEN 41' W/ 13 3/8" CASING	
41	60	19	SAND / SANDY SHALE	
60	90	30	SANDY SHALE	
90	120	30	SANDY SHALE / SAND STONE	
120	150	30	SAND STONE / 2 FT COAL / SANDY SHALE / SAND STONE	
150	180	30	SAND STONE / SANDY SHALE STR	
180	210	30	SAND STONE/COAL 3 / SANDY SHALE	
210	240	30	SANDY SHALE / COAL 2 / SAND STONE STR	
240	270	30	SAND STONE	
270	300	30	SAND STONE / SANDY SHALE STR	
300	330	30	SAND STONE / 2 COAL STR / SANDY SHALE	
330	345	15	SANDY SHALE 332.5' W/ 8 5/8" CASING	
345	390	45	SAND	
390	420	30	SAND / SANDY SHALE	
420	450	30	SANDY SHALE / SAND / SANDY SHALE	
450	480	30	SANDY SHALE	
480	510	30	SANDY SHALE / SAND	
510	540	30	SAND / SANDY SHALE	
540	570	30	SANDY SHALE / COAL / SANDY SHALE	
570	600	30	SANDY SHALE / COAL / SANDY SHALE	
600	630	30	SANDY SHALE / SAND	
630	660	30	SAND / SANDY SHALE	
660	690	30	SANDY SHALE / COAL / SANDY SHALE	
690	720	30	SANDY SHALE / SAND / COAL / SAND	
720	750	30	SANDY SHALE / COAL / SANDY SHALE	
750	780	30	SANDY SHALE / SHALE / SANDY SHALE	
780	810	30	SANDY SHALE	
810	840	30	SANDY SHALE / COAL / SANDY SHALE	
840	870	30	SANDY SHALE / COAL / SANDY SHALE / SAND	
870	930	60	SAND	
930	960	30	SAND / SANDY SHALE / COAL / SAND	
960	990	30	SAND / SANDY SHALE / COAL / SANDY SHALE	
990	1020	30	SANDY SHALE / COAL / SANDY SHALE	
1020	1050	30	SHALE / SAND	
1050	1110	60	SAND	
1110	1140	30	SANDY SHALE	

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 GEOMET OPERATING CO
 HALL MINING SOUTH 145

FROM	TO	FT.	DESCRIPTION
1140	1170	30	SANDY SHALE / COAL / SANDY SHALE
1170	1200	30	SANDY SHALE / SAND STONE / COAL STR / SANDY SHALE
1200	1230	30	SANDY SHALE / COAL STR / COAL 2 / SANDY SHALE
1230	1260	30	SNADY SHALE / COAL 2
1260	1320	60	SAND STONE
1320	1350	30	SAND STONE / COAL 2 / SANDY SHALE / COAL STR / SANDY SHALE
1350	1385	35	SANDY SHALE / SAND STONE
1385	1415	30	SAND STONE / POSS OR SHALE STR COAL / SANDY SHALE
1415	1445	30	SANDY SHALE / SAND STONE
1445	1475	30	SAND STONE / SANDY SHALE
1475	1505	30	SANDY SHALE TD 7 7/8" HOLE 1500.84' W/ 4 1/2" CASING

1505.00 FT. TOTAL DEPTH
 41.00 FT. OF 13 3/8" CASING
 332.50 FT. OF 8 5/8" CASING
 1500.84 FT. OF 4 1/2" CASING

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Well Name Hall Mining 145

PBTD

1501'

Zone and Perforation Table

Stage Interval	790	792	Ball Out	Bridge Plug Set @	Est Sand Weight	Actual Sand Weight
Stage 6 Interval	790	792				
N2 Scf	223,000		823' - 825'/841' - 843' B/O Dropped 36 Balls Plug @760'		20,000	16,000
Acid	500	15%				
Gel Volume	6,888				SCREENED OUT	
ISIP	4,300					
ATP	2,438					
AIR	27	BPM				
Stage 7 Interval	679	681				
N2 Scf	202,000		685' - 687'/720' - 722' 734' - 736' No Plug/Drop 48 Balls			
Acid	250					
Gel Volume	7,812				SCREENED OUT	
ISIP	1,739				Got Flush Away	
ATP	2,188					
AIR	29	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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