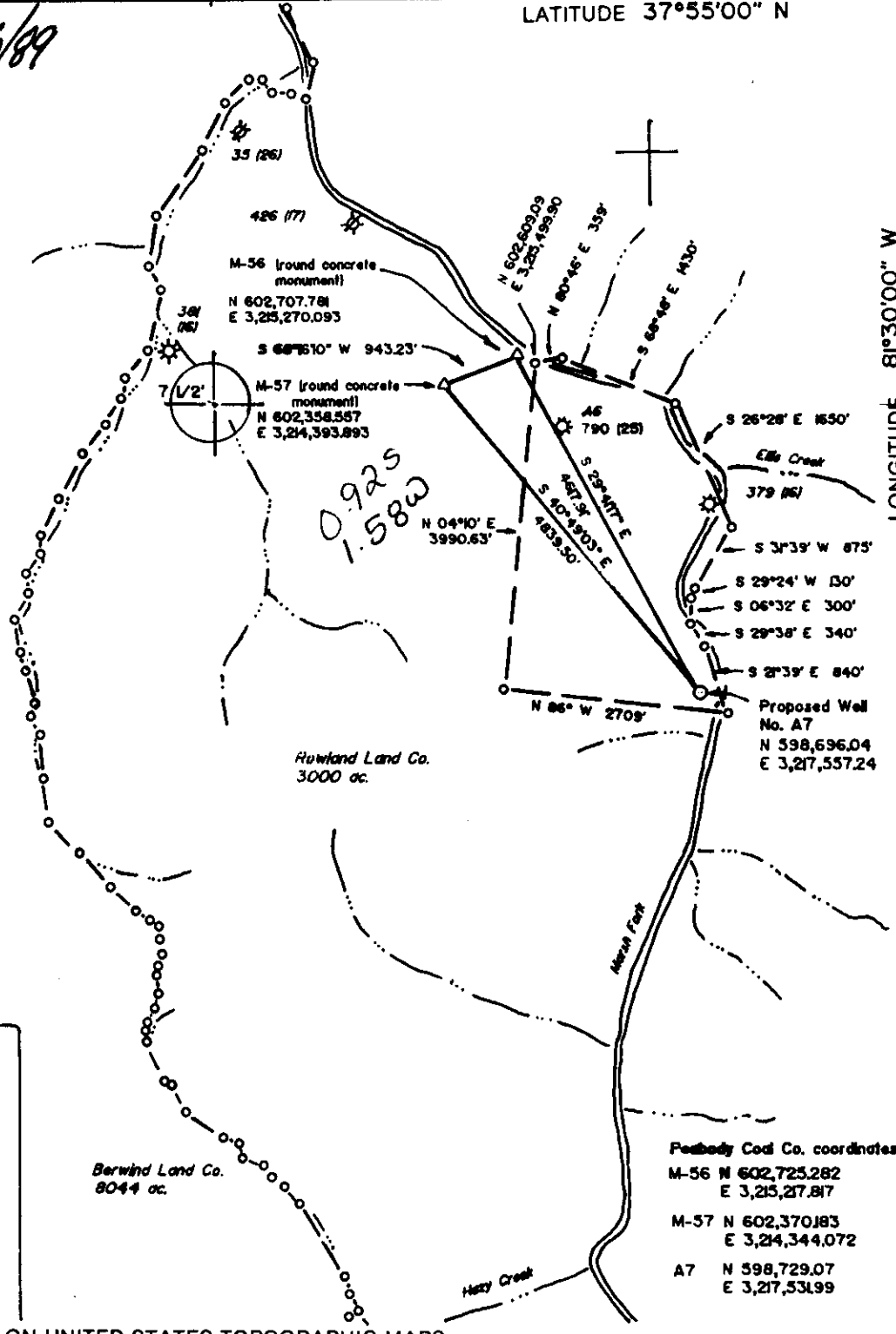
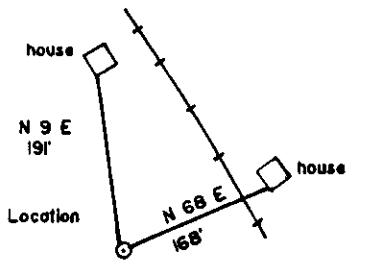


Janie 5/26/89

LATITUDE 37°55'00" N

LONGITUDE 81°30'00" W

Houses within 200' of proposed location:



Coal Operator
Peabody Coal Co.
P.O. Box 1233
Charleston, WV 25324

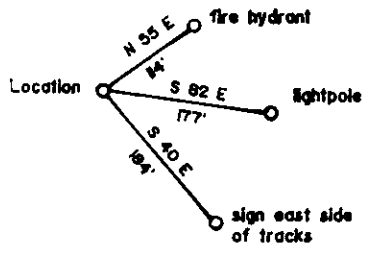
Note:
This survey is based on the Armco
Steel Corp. coordinate system

Rowland Land Co.
3000 ac.

Berwind Land Co.
8044 ac.

Peabody Coal Co. coordinates
M-56 N 602,725.282
E 3,215,217.817
M-57 N 602,370.183
E 3,214,344.072
A7 N 598,729.07
E 3,217,531.99

References



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 in 10,000
PROVEN SOURCE OF ELEVATION M-56 4660' NW of the Location: elev. 930.82'

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 ENERGY.
(SIGNED) [Signature]
R.P.E. _____ L.L.S. 791

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE April 21, 19 88
OPERATOR'S WELL NO. A-7
API WELL NO. 47 081 0867

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 960 WATERSHED Marsh Fork of Big Coal River

DISTRICT Marsh Fork COUNTY Raleigh
QUADRANGLE Whitesville 7 1/2' 677 006 & Bald Knob EC
SURFACE OWNER Rowland Land Co. ACREAGE 3000
OIL & GAS ROYALTY OWNER Rowland Land Co. LEASE ACREAGE 200
LEASE NO. 8458

PROPOSED WORK: DRILL X 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 Weir ESTIMATED DEPTH 2750'
WELL OPERATOR Natural Resource Management Corp. DESIGNATED AGENT Dave Cash, Natural Resource Management Corp.
ADDRESS Foster Plaza VI, 681 Anderson Dr. Pittsburgh, PA 15220 ADDRESS 312 Sixth Ave. Charleston, WV 25303

JUN 2 1989

6-6 Hopkins Fork - Jarrolds Valley (247)

FORM WW-6 H.T. HALL 4-86-73

COUNTY NAME PERMIT

Well Operator's Report of Well Work

Farm name: Rowland Land Company Operator Well No.: Rowland Land A#7

LOCATION: Elevation: 960.00 Quadrangle: Whitesville

District: Marsh Fork County: Raleigh
Latitude: 4400 Feet South of 37 Deg. 55 Min. 00 Sec.
Longitude: 8400 Feet West of 81 Deg. 30 Min. 00 Sec.

Company: NATURAL RESOURCE MANAGEME

681 ANDERSON DR. FOSTER PLAZA 6 | Casing | Used in | Left | Cement

PITTSBURGH, PA 15220-0000

Agent: DAVE CASH

Inspector: JERRY HOLCOMB
Permit Issued: 05/30/89
Well work Commenced: 06/12/89
Well work Completed: 06/30/89
Verbal Plugging
Permission granted on:
Rotary X Cable Rigg
Total Depth (feet) 2756
Fresh water depths (ft) 38', 100', 148', 190', 230'
Salt water depths (ft) 1150'

Size	Drilling	in Well	Fill Up Cu. Ft.
13 3/8	30'	30'	Conductor
9 5/8	480'	480'	CTS
7"	1256'	1256'	150' ³
4 1/2'	2635'	2635'	89' ³

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 45', 143', 301'

OPEN FLOW DATA

Producing formation Weir Sand Pay zone depth (ft) 2408'
Gas: Initial open flow odor MCF/d Oil: Initial open flow - Bbl/d
Final open flow 300 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure 835 psig (surface pressure) after 48 Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow 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 psig (surface pressure) after 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.

For: William A. Straslicka
NATURAL RESOURCE MANAGEMENT CORP.

By: William A. Straslicka, Regional Engineering Mgr.
Date: July 10, 1989

NOV 30 1989

TAILS OF PERFORATED INTERVALS, FRACTURING, PHYSICAL CHANGES

perforated upper Weir Sand with 19 shots from 2409 to 2440'. Fracture stimulated with 14 bbls of 25# gelled water with 2% KCL and 250 scf/bbl N₂. AIP=1836 psi AIR=21.6BPM ISIP=154 psi. Flow back on 1/2" checks to clean up. Placed 500 sic of 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD/SOFT	TOP FEET	BOTTOM FEET	REMARKS
B.T.G.			0	10	
Sand & Sand			10	40	38' 1" Stream
Sand			40	50	
Sand & Shale			50	100	1" H ₂ O @ 100'
Sand			100	148	2" H ₂ O @ 148'
Sand			148	301	1" H ₂ O @ 190'
Sand			301	304	230' Stream open flow
Sand & Shale			304	417	
Sand			417	568	Hole wet out from under 9 5/8"
Sand & Shale			568	602	1" - 1 1/2" H ₂ O
Sand			602	724	
Sand			724	821	
Sand & Shale			821	915	
Sand & Shale			915	1077	
Alt Sand			1077	1132	
Sand			1132	1227	
Sand & Shale			1227	1321	
Sand & Shale			1321	1414	
Rock			1414	1490	
Ston			1490	1970	Gas check at 1508 no show.
Little Lime			1970	1980	
Sand & Shale			1980	1989	Gas check no show.
g Lime			1989	2300	Gas check no show at 2130.
Sand			2300	2408	Gas check no show.
ir Sand			2408	2440	No show at TD
Sand			2440	2756	TD 6 1/4 Hole at 2756.