

Sp. No.	Surf. el.	GPM	Date col.	Remarks	Sp. No.	Surf. el.	GPM	Date col.	Remarks
1	1554	---	12/5/79	Empfield Spring	31	1465	---	12/26/79	Drain spring
2	1480	8	---	Faith spring	32	1465	23	1/15/80	Drain well 65'
3	1510	2	---	W. Shyster	33	1465	---	---	Drain well 18'
4	1475	212	---	Unnamed tributary	34	1465	---	---	Drain well 18'
5	1475	37	---	Unnamed tributary	35	1465	---	---	Drain well 25'
6	1480	9	---	spring	36	1465	---	---	Drain well 20'
7	1450	889	---	Unnamed tributary	37	1460	2	---	Unnamed tributary
8	1460	299	---	Unnamed tributary	38	1460	2	---	Hill spring
9	1400	112	---	Unnamed tributary	39	1458	5-10	---	W. Shyster well 60'
10	1450	---	---	Unnamed tributary	40	1460	---	---	Drain well 100'
11	1510	---	---	Unnamed tributary	41	1462	---	---	Drain well 100'
12	1510	---	---	Unnamed tributary	42	1470	---	---	Drain well 100'
13	1520	3	---	Unnamed tributary	43	1470	---	---	Drain well 100'
14	1518	---	---	Unnamed tributary	44	1470	---	---	Drain well 100'
15	1522	---	---	Unnamed tributary	45	1470	---	---	Drain well 100'
16	1510	---	---	Unnamed tributary	46	1470	---	---	Drain well 100'
17	1526	5	---	Unnamed tributary	47	1480	---	---	1-16-80 spring
18	1510	---	---	Unnamed tributary	48	1450	12	4-20-81	tributary
19	1485	---	---	Unnamed tributary	49	1450	61	---	---
20	1502	---	---	Unnamed tributary	50	1450	25	---	---
21	1390	2245	---	Penn Run	51	1460	37	---	---
22	1420	2245	---	Penn Run	52	1470	1	---	discharge
23	1500	---	12/28/79	Brown well	53	1480	6.5	---	---
24	1500	---	---	Spring	54	1465	---	---	Seep
25	1460	---	---	Beer well					
26	1450	---	---	Markel well					
27	1468	---	---	R. Loughner					
28	1500	---	---	D. Baughner					
29	1472	---	---	S. Slutzman					
30	1455	---	---	H. Slutzman					

Additional Bond Required	BOND ROLLBACK AMOUNT	Total Bond Previously Paid	TOTAL BOND REQUIRED	RELEASE AREA			Bonding Increment	Landowner	Overburden Category (in acres)	Total (acres)
				Support	Area	Mining				
				I	II	III				
							01	Barnes & Tucker Co., Charles Meers	2.7	16.1
							02	Beulah House	2.9	2.9
							03	Charles Meers	3.2	3.2

ALL AREAS WILL BE RESTORED TO APPROXIMATE ORIGINAL CONTOUR UNLESS OTHERWISE SPECIFIED.
NO SLOPES WILL BE GREATER THAN 20°.
RECONSTRUCTED PRIME FARMLAND WILL BE REPLACED BY HORIZON (E.E., O., B., A., RESPECTIVELY).
LIME AND MULCH WILL BE APPLIED AT NO LESS THAN 3.0 TONS/ACRE EACH.
THE HAUL ROAD WILL BE REMOVED UNLESS LANDOWNER REQUESTS IT REMAIN.
TREATMENT PONDS WILL BE REGRADED TO APPROXIMATE ORIGINAL CONTOUR AND SEEDED AS FINAL BACKFILLING IS BEING COMPLETED.
AFTER STATE IS COMPLETED, SEDIMENT POND AND COLLECTION DITCHES WILL BE REMOVED, REGRADED TO APPROXIMATE ORIGINAL CONTOUR AND REVEGETATED UNLESS LANDOWNER REQUESTS THEY REMAIN AND ENGINEER CERTIFICATION FORM IS PROVIDED.

- ALL AREAS TO BE SEED WITH TEMPORARY COVER CROP.
- ALL LEGUMES SHOULD BE PROPERLY INOCULATED JUST BEFORE SEEDING.
- USE 200 LBS BIRDSEED TREFOIL WITH TREES, SHRUBS.
FOR AREAS TO BE PLANTED IN PASTURELAND, REFER TO SHEET 10A.
FOR AREAS TO BE PLANTED IN WOODLAND, REFER TO SHEETS 10B & 10C.

existing & proposed WOODLAND existing & proposed CROPLAND existing & proposed WILDLIFE HABITAT existing & proposed PASTURELAND

Property lines
Roads
Dwellings
Contour lines
Creeks
Power lines
Telephone lines
Power & tele. lines
Mine drainage line
Mining permit line

Sediment ponds
Collection ditches
Treatment ponds
Groundwater flow
Sediment trap energy dissipators
Collection ponds
Highwall diversion ditch

Mine References
Previously affected
NOTES:
(1) R/W on all roads 33' unless otherwise indicated.
(2) Highwall diversion ditch indicates final highwall unless otherwise stated.
(3) Sediment & Erosion Control Facilities for topsoil files

PFT Prime Farmland Topsoil storage (A & C horizons will be stockpiled separately.)
Prime Farmland

ALL augering to be with the strike or the dip of the coal seam. No augering will be performed to the rise.

Upper Freeport
Lower Freeport

TO BE AFFECTED 437 Ac.

Phase	Pond	Acres
I	1, 2, 3	29.2
II	3, 12, 13	31.5
III	4, 5, 7, 3	27.6
IV	6, 7, 14	35.3
V	8, 1, 4	16.5
VI	9, 1, 5	22.9
VII	10, 1, 5	23.1
VIII	11, 1, 6	1.8

Pond 2, Treatment pond & constructed after backfilling clay lined

B.I.	mining	support	total	Comments
-01	16.1	2.7	18.8	ACTIVE
-02	2.9	2.9	5.8	ACTIVE
-03	2.1	(2.1)		UPGRADE
-04	5.9	1.9	7.8	ACTIVE
-05	30.2	5.4	35.6	ACCUMULATED
-06	8.7	2.0	10.7	PROPOSED
-07	38.9	7.4	46.3	accumulated

No.	U.F.	L.F.	U.K.	U.K.
1	1515	1486	1467	1412
2	1534	1521	*	
3	1450	*	1421	
4	1475	*	1419	*
5	1478	*	1406	*
6	1505	1463	*	1430

USED TO CALCULATE DIP & STRIKE

- Truby Fyock
- J. M. Decker
- Gibson, Mrs.
- Richard Fyock
- Charles Paydence
- Leonard Snyder
- Raymond Cramer
- Grange Hall
- Penn Run Grange No. 1816
- Robert Nuss, Sr.
- Claire Trough
- Fred Slippy
- Sarah Smith
- Raymond Craver
- Jim Wollenschlaeger
- Harry Lohr
- Russel Altamus
- John Barclay
- Robert Barr
- Charles Kopydowski
- Elmer Jayner
- Stanley Stultard
- Cherryhill Twp. Vol. Fire Company
- John Fowler
- Dale Shaffer
- Earl Putt
- Charles Donovan
- Robert Crowe
- Elizabeth Amond
- Ernest Slippy
- Wayne Kirsch
- Harry Houck
- Andy Ryan
- Richard Gressley
- William Packner
- Robert Young
- Dale Shaffer
- Albert Mokin

EXHIBIT 9.0
OPERATIONS MAP

MAP IS FOR: REVISED 8/17/87, 9/28/87, 2/21/89, 7/19/89
5/29/90 6/26/90

MEARS ENTERPRISES INC.
Buterbaugh Strip

Cherryhill twp. Indiana Co., PA
Scale: 1" = 400' Date:
ORIGINAL PLAN BY: MAP BY: C.A.B. MAY '79
PENN LAUREL ASSOCIATES, INC. phone (814)
R. D. 1, Rt. 30 Transfer by: 754-4637
Central City, PA 15926 Vapco Engineers 9/1/89 2/13/90

Imops # 20674