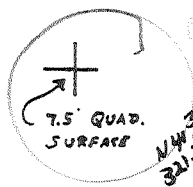
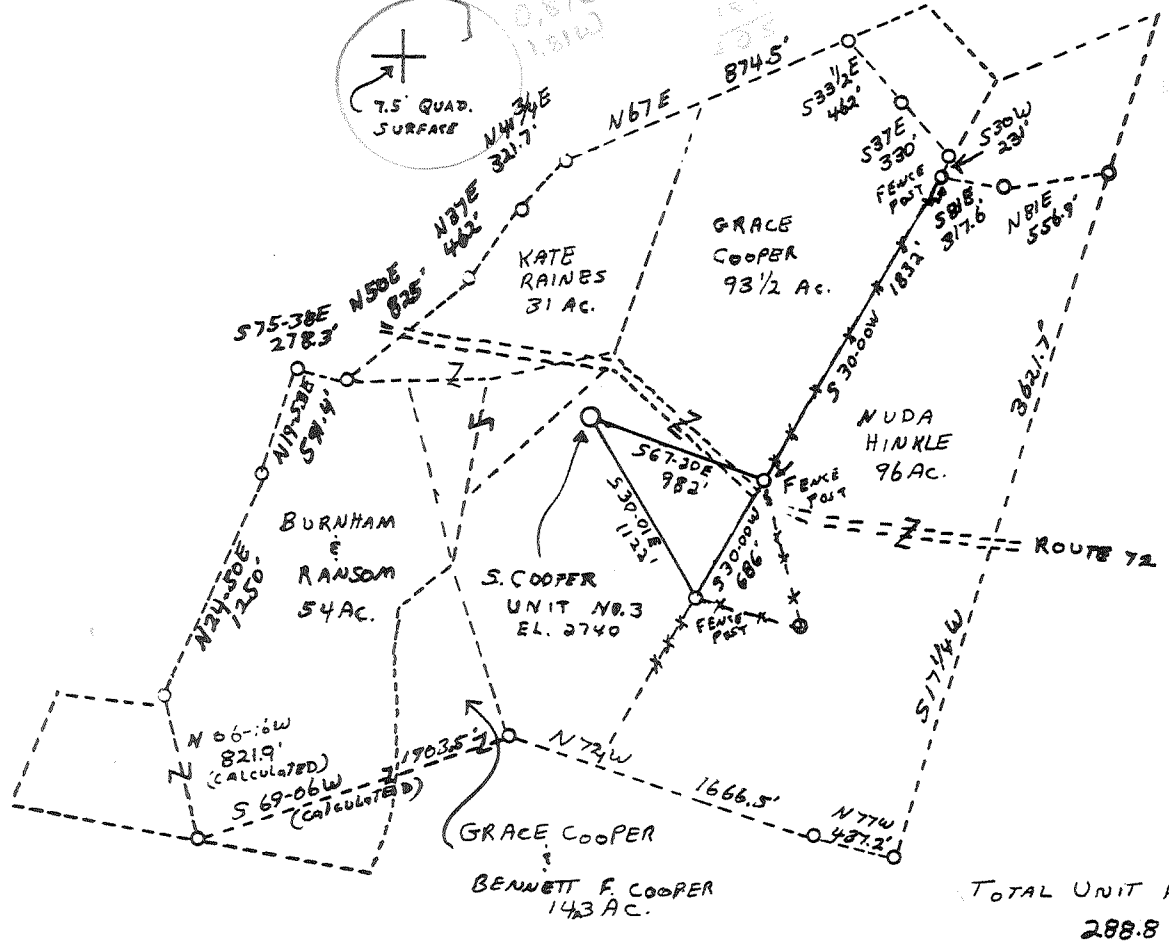


0905
412W



0.895
1.01W



TOTAL UNIT ACREAGE
288.8 ACRES

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION EL. 2596 AT INTERSECTION
OF RTE 72 AT RED CREEK

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) Burl J. Smith
R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
FORM IV-6
(8-78)



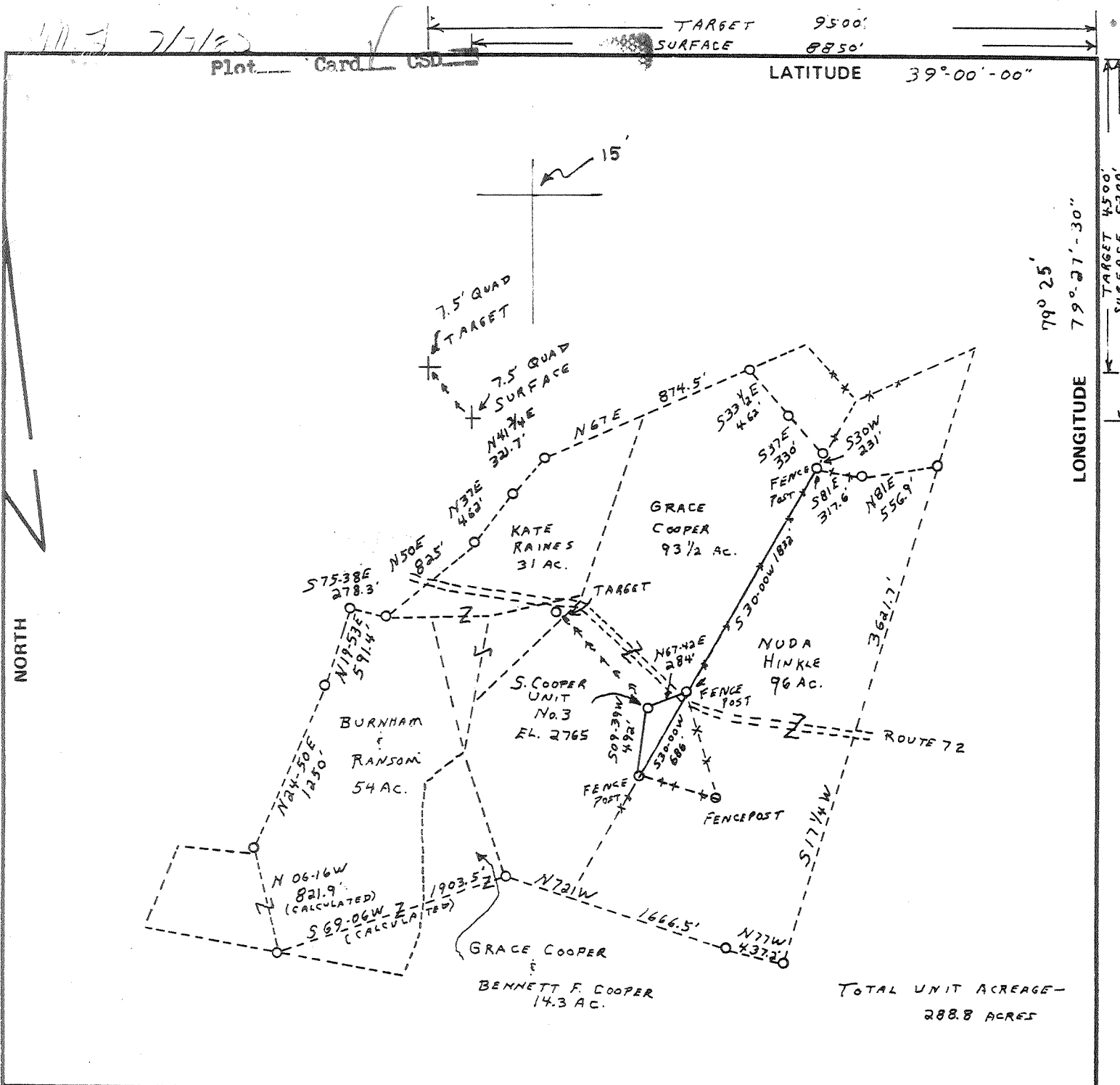
DATE AUG 12, 19 82
OPERATOR'S WELL NO. S. COOPER
API WELL NO. UNIT #3
47 - 093 - 0062
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Formerly: TUC-0061

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 2740' WATER SHED RED CREEK
DISTRICT DRY FORK COUNTY TUCKER
QUADRANGLE LANEVILLE 7.5' Omega 15' NW
SURFACE OWNER GRACE COOPER ACREAGE 93 1/2
OIL & GAS ROYALTY OWNER UNIT - SEE ABOVE LEASE ACREAGE 288.8 UNITIZED
LEASE NO. _____
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 ORISKANY ESTIMATED DEPTH 8500' 6-6 Canaan Valley AUG 30 1982
WELL OPERATOR BEREA OIL & GAS CORP DESIGNATED AGENT MARK SCHUMACHER (287)
ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO NY 14202 BRIDGEPORT WV 26330



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION EL. 2596 AT INTERSECTION OF RTE 72 AT RED CREEK

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.
 (SIGNED) Burl J. Smith
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

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

FORM IV-6 (8-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 17 JUNE, 19 82
 OPERATOR'S WELL NO. S. COOPER UNIT #3
 API WELL NO. 47-093-0061
 STATE COUNTY PERMIT

Cancelled
See: Jucker - 62

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

LOCATION: ELEVATION 2765 WATER SHED RED CREEK
 DISTRICT DRY FORK COUNTY TUCKER
 QUADRANGLE LANEVILLE 7.5'

SURFACE OWNER GRACE COOPER ACREAGE 93 1/2
 OIL & GAS ROYALTY OWNER UNIT - SEE ABOVE LEASE ACREAGE 288.8 UNITIZED
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

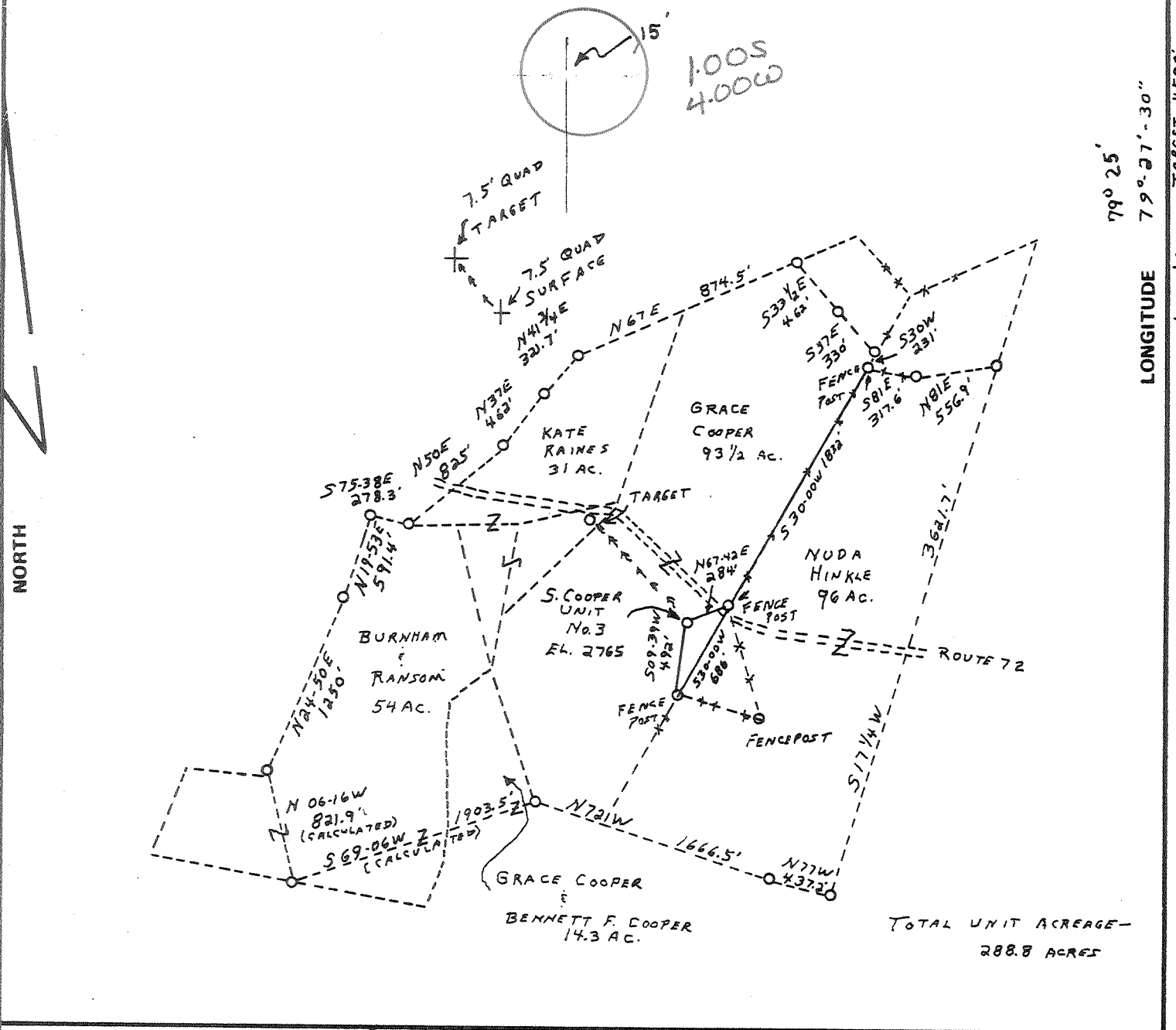
AUG 23 1982

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8500'
 WELL OPERATOR BEREA OIL & GAS CORP DESIGNATED AGENT MARK SCHUMACHER
 ADDRESS 901 CHEMICAL BANK BLDG, 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO, NY 14202 BRIDGEPORT, WV 26330

17.7 7/7/82

TARGET SURFACE 9500' 8850'

Plot Card CSD LATITUDE 39°00'-00"



TOTAL UNIT ACREAGE - 288.8 ACRES

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION EL. 2596 AT INTERSECTION OF RTE 72 AT RED CREEK

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.
 (SIGNED) Burl J Smith
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 17 JUNE, 19 82
 OPERATOR'S WELL NO. S. COOPER UNIT #3
 API WELL NO. 47-093-0061
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2765 WATER SHED RED CREEK
 DISTRICT DRY FORK COUNTY TUCKER
 QUADRANGLE LANEVILLE 7.5' ONEGO 15' NW
 SURFACE OWNER GRACE COOPER ACREAGE 93 1/2
 OIL & GAS ROYALTY OWNER UNIT - SEE ABOVE LEASE ACREAGE 288.8 UNITIZED
 LEASE NO. _____
 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 ORISKANY ESTIMATED DEPTH 8500'
 WELL OPERATOR BEREA OIL & GAS CORP DESIGNATED AGENT MARK SCHUMACHER
 ADDRESS 901 CHEMICAL BANK BLDG, 69 DELAWARE AVE, BUFFALO, NY 14202 ADDRESS ONE BEREA PLAZA BRIDGEPORT, WV 26330

now:62

deep well

JUL 19 1982

RECORDED
NOV 3 1982



Date October 29, 1982
Operator's Well No. G. Cooper #3
Farm Grace Cooper
API No. 47 - 093 - 0062

Oil & Gas Division
State of West Virginia
Department of Mines
Oil and Gas Division

CONFIDENTIAL

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 2740' Watershed Red Creek
District: Dry Fork County Tucker Quadrangle Laneville 7 1/2"

COMPANY Berea Oil & Gas Corp.

ADDRESS PO Box 299, Bridgeport, WV 26330

DESIGNATED AGENT Thomas E. Riley, P.E.

ADDRESS PO Box 299, Bridgeport, WV 26330

SURFACE OWNER Grace Cooper

ADDRESS Dry Fork, WV 26263

MINERAL RIGHTS OWNER See Exhibit A - Attached

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Stewart ADDRESS Box 345, Jane Lew, WV

PERMIT ISSUED 8/19/82

DRILLING COMMENCED 8/31/82

DRILLING COMPLETED 9/24/82

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13 3/8" 13 1/2"		27.10'	
9 5/8	3069'	2978'	1250 sks
8 5/8			
7			
5 1/2			
4 1/2	7801'	7565'	300 sks
3			
2 3/8"		7540'	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8500 feet

Depth of completed well 7801 feet Rotary X / Cable Tools _____
20, 278, 450,

Water strata depth: Fresh 482, 1593 feet; Salt 2320 feet

Coal seam depths: 67', 100', 127' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 7620 feet

Gas: Initial open flow 1.5 M Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow (1.2 M) Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 2475 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

APR 7 1986

(Continue on reverse side)

POF for well
labomcf

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

CONFIDENTIAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandy Shale			696	725	
Shale			725	731	
Sandy Shale			731	739	
Dark Shale			739	749	
Shale			749	767	
Sandy Shale			767	775	
Red Rock			775	806	
Sandy Shale			806	858	
Sand			858	1070	
Sandy Shale			1070	1095	
Sand			1095	1140	
Sandy Shale			1140	1160	
Sand			1160	1297	
Red Rock			1297	1304	
Sandy Shale & Red Rock			1304	1400	
Red Rock			1400	1430	
Sandy Shale			1430	1463	
Red Rock			1463	1470	
Sandy Shale			1470	1474	
Red Rock			1474	1479	
Sandy Shale			1479	1687	Hole damp @ 1593'
Grey Shale			1687	1718	
Sand			1718	1725	
Sandy Shale			1725	1797	
Sand			1797	1800	
Shale			1800	1823	
Sandy Shale			1823	1868	
Sand			1868	1877	
Sandy Shale			1877	1880	
Sand			1880	1887	
Sandy Shale			1887	1897	
Sand			1897	1916	
Shale			1916	1922	
Sand			1922	1933	
Sandy Shale			1933	1946	
Shale			1946	1953	
Sandy Shale			1953	1963	
Shale			1963	1969	
Sand			1969	1982	
Shale			1982	1989	

(Attach separate sheets as necessary)

- CONTINUED ON P. 3 -

BEREA OIL & GAS CORP.

Well Operator

By: *Thomas E. Riley*

Date: October 29, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' shall mean a systematic

None - Natural Flow ✓

093 62

CONFIDENTIAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
From Driller's Log:					
Sand			0	67	1/2" str wtr @ 20'
Coal			67	68	
Sand			68	85	
Shale			85	91	
Sandy Shale			91	100	
Coal			100	103	
Sand			103	127	
Coal			127	130	
Sand & Lime			130	168	
Sandy Shale			168	185	
Shale			185	190	
Sandy Shale			190	195	
Red Rock			195	198	
Sandy Shale			198	200	
Red Rock			200	204	
Sand			204	209	
Shale			209	214	
Sand			214	222	
Sandy Shale			222	233	
Red Rock			233	236	
Sandy Shale			236	250	
Shale			250	278	
Sand			278	285	1" str wtr @ 278'
Red Rock			285	290	
Sandy Shale			290	310	
Shale & Red Rock			310	370	
Sand & Shale			370	445	
Sand			445	500	
Red Rock			500	507	1/8" str wtr @ 450' show of wtr @ 482'
Sandy Shale			507	557	
Red Rock			557	583	
Sandy Shale			583	590	
Sand			590	624	
Grey Shale & Red Rock			624	632	
Sandy			632	641	
Shale			641	650	
Sand			650	660	
Shale			660	674	
Sand			674	696	

(Attach separate sheets as necessary)

- CONTINUED ON P. 2 -

BEREA OIL & GAS CORP.

Well Operator

By Thomas E. Riley

Date: October 29, 1982

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

CONFIDENTIAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand			1989	2000	
Sand & Shale			2000	2296	
Sand			2296	2310	
Sandy Shale			2310	2380	
Sandy			2380	2438	
Shale			2438	2450	
Sandy Shale			2450	2469	
Shale			2469	2475	
Sandy Shale			2475	2484	
Sand			2484	2486	
Shale			2486	2549	
Sand			2549	2554	
Shale			2554	2565	
Sand			2565	2578	
Shale			2578	2588	
Sand			2588	2590	
Shale			2590	2594	
Sandy Shale			2594	2619	
Sand			2619	2890	
Sandy Shale			2890	2968	
Sand			2968	2981	
Sandy Shale			2981	3011	
Shale			3011	3015	
Sandy Shale			3015	3038	
Shale			3038	3064	
Sandy Shale			3064	3069	
Shale			3069	3650	
Sand			3650	3711	
Shale			3711	3720	
Sandy Shale			3720	3773	
Shale			3773	3783	
Sandy Shale			3783	3822	
Sand			3822	3866	
Shale			3866	3897	Gas ck @ 3897' - No show
Sandy Shale			3897	4085	Gas ck @ 4050' - No show
Sand			4085	4110	
Sandy Shale			4110	4203	
Sand			4203	4224	
Sandy Shale			4224	4258	
Shale			4258	4262	

(Attach separate sheets as necessary)

- CONTINUED ON P. 4 -

BEREA OIL & GAS CORP.

Well Operator

By: Thomas E. Ray
Date: October 29, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' shall mean a systematic
detailed description of the well including

APR 7 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

CONFIDENTIAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandy Shale			4262	4296	
Shale			4296	4343	
Sandy Shale			4343	4370	
Sand			4370	4605	Gas ck @ 4388' - No show
Shale			4605	4640	
Sandy Shale			4640	4670	
Shale			4670	4685	
Sand			4685	4700	Gas ck @ 4698' - No show
Sandy Shale			4700	4813	
Sand			4813	4883	
Sandy Shale			4883	4910	
Shale			4910	4980	
Sandy Shale			4980	5291	
Shale			5291	5329	
Sandy Shale			5329	5390	
Shale			5390	5493	
Sand			5493	5774	Gas ck @ 5514' - No show
Sandy Shale			5774	6150	Gas ck @ 5835' - No show
Shale			6150	6296	Gas ck @ 5930' - No show
Sand			6296	6303	Gas ck @ 6216' - No show
Shale			6303	6314	
Sand			6314	6690	Gas ck @ 6556' - No show
Sand & Shale			6690	6900	
Sand			6900	6970	
Shale			6970	7000	
Sand			7000	7160	Gas ck @ 7062' - No show
Sand & Shale			7160	7281	Gas ck @ 7253' - No show
Marcellus			7281	7392	
From Compensated Neutron-Formation Density Log:					
Marcellus Shale			7260	7398	
Onondaga Lime			7398	7436	
Huntersville Chert			7436	7488	
Needmore Shale			7488	7508	
Oriskany Sand			7508	7698	Natural gas flow @ 7620' - 1.5 MMcf
Helderberg Lime			7698	7796	

LTD 7796'
DTD 7801'

(Attach separate sheets as necessary)

BEREA OIL & GAS CORP.

Well Operator

By: *Thomas L. Riley*

Date: October 29, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' 'well log' shall mean a systematic

berea oil & gas corp.

69 Delaware Avenue • 711 Chemical Bank Building • Buffalo, New York 14202-3878
(716) 842-0711

DIRECTIONAL SURVEY

G. COOPER #3
47-093-0062

<u>DEPTH(ft.)</u>	<u>DEVIATION ANGLE</u>	<u>BEARING</u>
530	0° 30'	
1226	1° 00'	
2149	1° 15'	
2732	2° 15'	
3598	3° 45'	S 76 E
3967	4° 00'	S 73 E
4366	4° 15'	S 70 E
4646	4° 30'	S 77 E
4985	5° 30'	N 75 E
5514	6° 15'	N 73 E
5564	6° 15'	N 76 E
5742	6° 30'	N 81 E
5835	6° 15'	N 80 E
5930	5° 45'	N 80 E
6120	5° 30'	S 82 E
6240	5° 30'	N 88 E
6556	7° 45'	S 62 E
6590	7° 45'	S 62 E
6682	7° 30'	S 59 E
6759	7° 30'	S 60 E
6868	7° 15'	S 60 E
7032	6° 15'	S 50 E
7270	5° 15'	S 52 E

jc
10/28/82

• Branch Offices •

Gundy Building
2nd Street & West High Ave. SW
New Philadelphia, Ohio 44663
216 - 364-8847

One Berea Plaza
Routes 50/76
Bridgeport, West Virginia 26330
304 - 842-6931

208 South LaSalle Street
Suite 821
Chicago, Illinois 60604
312 - 346-8318

EXHIBIT A

Attached to and made a part of
Declaration of Pooling
GRACE COOPER UNIT #3
Canaan Valley Field
Dry Fork District
Tucker County, West Virginia

<u>LEASE DESCRIPTION</u>	<u>LANDS INCLUDED IN UNIT</u>
A. OIL AND GAS LEASES CONTRIBUTED BY UNITED RESOURCES INC.:	
1. Grace K. Cooper, Bennett F. & Mabel Cooper Dated 6-23-81 Recorded in Oil & Gas Book 19, Page 178	14.3 acres, being a portion of the lands described in said lease and shown in Exhibit "B".
2. Grace K. Cooper Dated 6-23-81 Recorded in Oil & Gas Book 19, Page 202.	93.5 acres, being a portion of the lands described in said lease and shown in Exhibit "B".
3. Russell & Nuda C. Hinkle Dated 6-22-81 Recorded in Oil & Gas Book 19, Page 186.	94 acres, being a portion of the lands described in said lease and shown in Exhibit "B".
4. James B. & Anne Burnham Dated 6-22-81. Recorded in Oil & Gas Book 19, Page 404.	54 acres, being a portion of the lands described in said lease and shown in Exhibit "B".
5. Kate Raines Dated 6-23-81 Recorded in Oil & Gas Book 19, Page 178.	31 acres, being a portion of the lands described in said lease and shown in Exhibit "B".
B. OIL AND GAS LEASES CONTRIBUTED BY BEREA OIL & GAS CORP.:	
1. Gray C. & Dortha K. Hinkle Dated 6-17-82 Recorded in Oil & Gas Book 20, Page 200	one acre, being all the lands described in said lease.
2. James A. & Barbara L. Hinkle Dated 6-17-82 Recorded in Oil & Gas Book 20, Page 202	one acre, being all the lands described in said lease.

RECEIVED

JUL 06 1982

OIL & GAS DIVISION
DEPT. OF MINES



Date: June 21, 1982

Operator's Well No. S. Cooper Unit #3

API Well No. 47 093 0061
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas
(If "Gas", Production _____ / Underground storage _____ / Deep / Shallow _____ /)

LOCATION: Elevation: 2,765' Watershed: Red Creek
District: Dry Fork County: Tucker Quadrangle: Laneville 7.5'

WELL OPERATOR Berea Oil & Gas Corp. DESIGNATED AGENT Mark Schumacher
Address 170 W. High Avenue Address One Berea Plaza, P.O. Box 299
New Philadelphia, OH 44663 Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER See attached

Address _____

Acreage 288.8

SURFACE OWNER Grace Cooper

Address Dry Fork, WV 26263

Acreage 93.5

FIELD SALE (IF MADE) TO:
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart
Address Box 345, Jane Lew, WV
Phone: (304)884-7782

COAL OPERATOR _____
Address _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease See other contract _____ / dated _____, 19_____, to the undersigned well operator from _____ attached

(If said deed, lease, or other contract has been recorded:)
Recorded on _____, 19_____, in the office of the Clerk of the County Commission of _____ County, West Va., in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

BEREA OIL & GAS CORP.
170 W. High Avenue
New Philadelphia, OH 44663

By Mary Grewell Well Operator
Its Vice President, Land

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
JUL 06 1982
OIL & GAS DIVISION
DEPT. OF MINES

BLANKET BOND

PROPOSED WORK ORDER

(12-81)

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 8,500' feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 100 feet; salt, 2,700 feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	13 3/8	H40	48	X		250'	250'	to surface	Kinds
Fresh Water									
Coal									Sizes
Intermediate	9 5/8	J55	36	X		3,100'	3,100'	1000' Fillup	
Production	4 1/2	N80	11.6	X		9,100'	9,100'	1000' Fillup	Depths set
Tubing	2 3/8	J55	4.7	X		9,000'			
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR _____ drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 3-12-82
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____

Its _____



Date: August 17, 1982

Operator's Well No. G. Cooper Unit #3

API Well No. 47 093 0062
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas
(If "Gas", Production _____ / Underground storage _____ / Deep / Shallow _____)

LOCATION: Elevation: 2740' Watershed: Red Creek
District: Dry Fork County: Tucker Quadrangle: Laneville 7.5'

WELL OPERATOR Berea Oil & Gas Corp. DESIGNATED AGENT Mark Schumacher
Address 170 W. High Avenue Address P.O. Box 299
New Philadelphia, OH 44663 Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER See attached
Address _____

COAL OPERATOR _____
Address _____

Acreege 288.8

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Grace Cooper
Address Dry Fork, WV 26263

Name _____
Address _____

Acreege 93.5

Name _____
Address _____

FIELD SALE (IF MADE) TO:
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart
Address Box 345, Jane Lew, WV
Phone: (304)884-7782

Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease See attached other contract _____ / dated _____, 19_____, to the undersigned well operator from _____

(IF said deed, lease, or other contract has been recorded:)
Recorded on _____, 19_____, in the office of the Clerk of the County Commission of _____ County, West Va., in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED
AUG 19 1982
OIL & GAS DIVISION
DEPT. OF MINES
BLANKET COPY

Berea Oil & Gas Corp.
170 W. High Avenue
New Philadelphia, OH 44663
By Mary Sewell Well Operator
Its Vice President, Land

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____
Address _____

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 8500' feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 100 feet; salt, 2,700 feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	13 3/8	H40	48	X		250'	250'	to surface	Kinds
Fresh Water									
Coal									Sizes
Intermediate	9 5/8	J55	36	X		3,100'	3,100'	1000' Fillup	
Production	4 1/2	N80	11.6	X		9,100'	9,100'	1000' Fillup	Depths set
Tubing	2 3/8	J55	4.7	X		9,000'			
Liners									Perforations:
									Top Bottom

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A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22, ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE IF OPERATIONS HAVE NOT COMMENCED BY 4-20-83.
BY [Signature]

[Handwritten Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____
Its _____