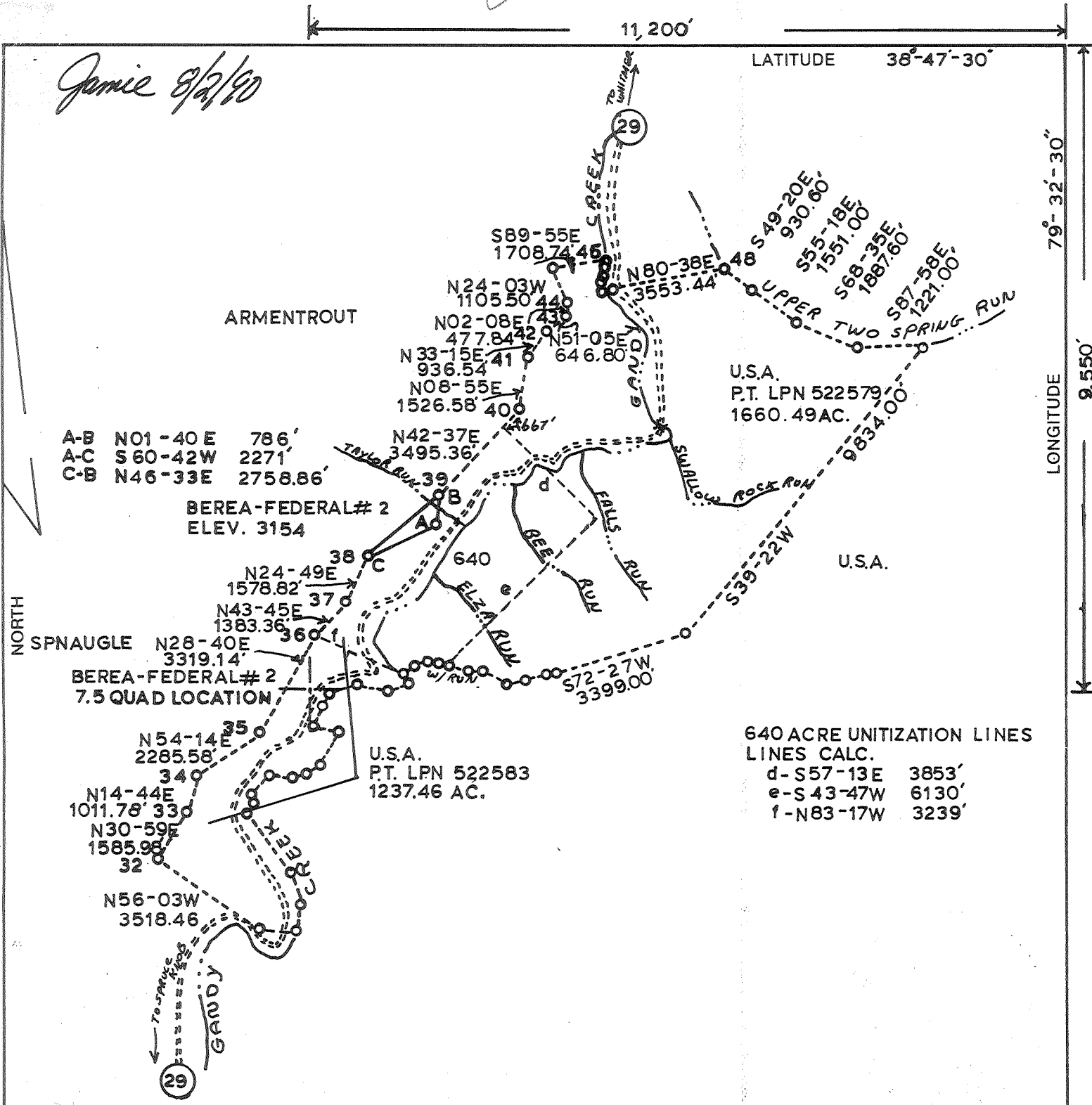


Janice 8/2/90



A-B N01-40E 786'
 A-C S60-42W 2271'
 C-B N46-33E 2758.86'

BEREA-FEDERAL# 2
 ELEV. 3154

SPNAUGLE N28-40E 3319.14'
 BEREA-FEDERAL# 2
 7.5 QUAD LOCATION

U.S.A.
 PT. LPN 522583
 1237.46 AC.

640 ACRE UNITIZATION LINES
 LINES CALC.
 d-S57-13E 3853'
 e-S43-47W 6130'
 f-N83-17W 3239'

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 4000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION EL 3154 ON RTE 29@TAYLOR RUN

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) Burd Jones
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE FEBRUARY 9, 19 84
 OPERATOR'S WELL NO. BEREA-FEDERAL# 2
 API WELL NO. 47-083-0884-P

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3154 WATERSHED GANDY CREEK
 DISTRICT DRY FORK COUNTY RANDOLPH
 QUADRANGLE WHITMER
 SURFACE OWNER U.S.A. ACREAGE 1237.46 AC
 OIL & GAS ROYALTY OWNER U.S.A. LEASE ACREAGE TOTAL 2897.95 AC
 LEASE NO. _____ 640 AC UNITIZED

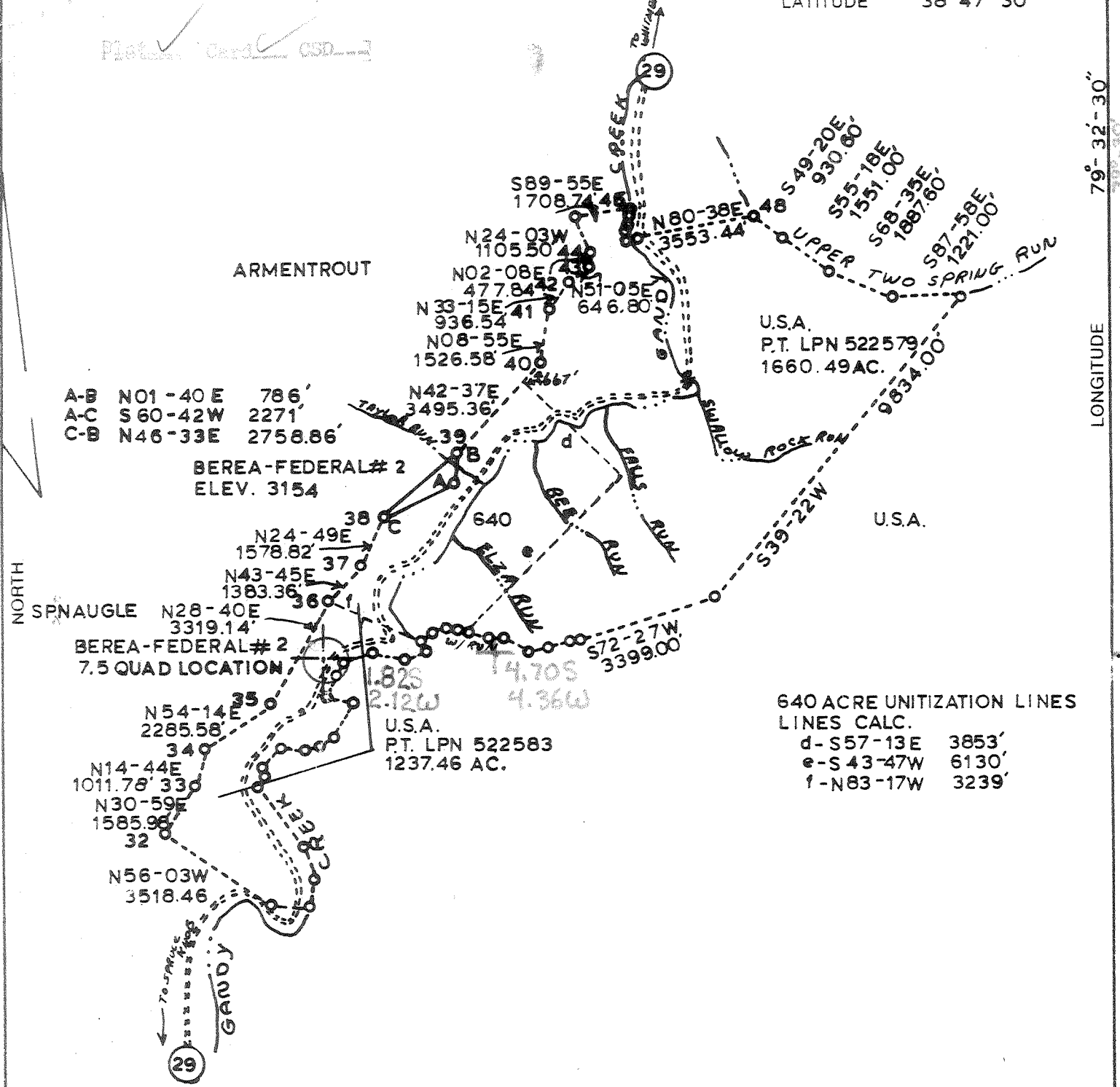
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) DEEP WELL

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 7400
 WELL OPERATOR BEREA OIL & GAS CORP. DESIGNATED AGENT MARK SCHMACHER
 ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS PO BOX 299

AUG 6 1990

COUNTY NAME RAND
 PERMIT 884

FORM IV-6 (8-78)
 H.T. HALL



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 4000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION EL 3154 ON RTE 29 @ TAYLOR RUN

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 Jones
 R.P.E. 6985 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE FEBRUARY 9, 19 84
 OPERATOR'S WELL NO. BEREA-FEDERAL # 2
 API WELL NO.

47 - 083 - 0884
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 3154 WATER SHED GANDY CREEK
 DISTRICT DRY FORK COUNTY RANDOLPH
 QUADRANGLE WHITMER 678 HORTON 15' SE

SURFACE OWNER U.S.A. ACREAGE 1237.46 AC
 OIL & GAS ROYALTY OWNER U.S.A. LEASE ACREAGE 640 AC TOTAL 2897.95 AC
 LEASE NO. _____ 640 AC UNITIZED

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 7400
 WELL OPERATOR BEREA OIL & GAS CORP. DESIGNATED AGENT MARK SCHMACHER
 ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO NY 14202 BRIDGEPORT WV 26330

FEB 27 1984

Deep Well H-1 unnamed (0)

FORM IV-6 (8-78)

COUNTY NAME PERMIT



CONFIDENTIAL

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 7, 1984
Operator's Well No. Berea Federal Unit #2
Farm USA-ES-10008 Tract 38B
API No. 47 - 083 - 0884

RECEIVED
AUG 16 1984

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION
DEPT. OF MINES

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

LOCATION: Elevation: 3154' Watershed Gandy Creek
District: Dry Fork County Randolph Quadrangle Whitmer

COMPANY Berea Oil & Gas Corp.
ADDRESS P. O. Box 299, Bridgeport, WV 26330
CONSULTED AGENT Thomas E. Riley, P.E.
ADDRESS P. O. Box 299, Bridgeport, WV 26330
OFFICE OWNER USA
ADDRESS
MINERAL RIGHTS OWNER USA
ADDRESS
ENGINEER AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
ADDRESS Ellamore, WV
PERMIT ISSUED 2-17-84
DRILLING COMMENCED 2-28-84
DRILLING COMPLETED 3-26-84

Casing Tubing	Used in Drilling	Left in Well	Current fill up Cu. ft.
Size <u>XXX-15' Corl.</u>		212	115 sks.
<u>13 3/8" XXXXXX</u>	556'	530'	170 sks.
9 5/8	2714'	2652'	900 sks.
8 5/8			
7			
5 1/2			
4 1/2	7830'	7772'	600 sks.
3			
2 3/8		7600'	
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR SHALLOPPING. VERBAL PERMISSION OBTAINED

MINERAL TARGET FORMATION Oriskany Depth 7400 feet
Depth of completed well 7830 feet Rotary X / Cable Tools
Water strata depths: Fresh 83', 107', 175', 266' feet; Salt feet
Coal seam depths: Is coal being mined in the area? no

WELL FLOW DATA
Producing formation Oriskany See Well Treatment Details feet
Gas: Initial open flow 2700 Mcf/d Oil: Initial open flow none Bbl/d
Final open flow 3700 Mcf/d Final open flow none Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 2100 psig (surface measurement) after 1 1/2 hours shut in
(If applicable due to multiple completion--)
Second producing formation Fay 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

Date: 4/20/824

APR 22 1985

(Continue on reverse side)

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

4/10/84 Oriskany (PERF)

7446' - 7448' (2)
 7526' - 7534' (8)
 7566' - 7570' (4)
 7621' - 7623' (2)
 7636' - 7640' (2)

4/13/84 Oriskany (FRAC)

Formation broke @ 2500#. Avg. pump rate
 40BPM @ 4300#. ISIP 3200#, 5 min. 3000#
 75,000# 20/40 sand.

CONFIDENTIAL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fr. and salt water, coal, oil and
T. Soil			0	10	
Sand			10	88	1/2" water @ 83'
Shale			88	92	
Sand			92	94	
Shale			94	97	
Sand			97	104	
Shale			104	107	3" water @ 107'
Sand			107	115	
Shale			115	168	
Sand			168	174	
Shale			174	207	6 - 7" water @ 175'
Sand			207	266	
Shale			266	280	
Sand			280	357	1 1/2" water @ 266'
Shale			357	360	
Sand			360	368	
Shale			368	409	
Sand			409	441	
Shale & Sand			441	854	
Shale			854	870	
Sand			870	994	
Shale			994	1000	
Sand			1000	1040	
Shale			1040	1048	
Sand			1048	1056	
Sand			1056	1095	
Shale			1095	1100	
Sand			1100	1123	
Shale			1123	1135	
Sand			1135	1236	
Sandy Shale			1236	1280	
Sand			1280	1306	
Sandy Shale			1306	1478	
Sand			1478	1541	
Sandy Shale			1541	1676	
Sand			1676	1679	
Shale			1679	1697	
Sand			1697	1699	

Continued on page two

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

Thomas E. Riley

By: Thomas E. Riley, P.E., Manager of Engineering

Date: May 7, 1984

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 coal, 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	FEET
					FEET
Continued from page one					
Shale			1699	1728	
Sand			1728	1744	
Shale			1744	1756	
Sand			1756	1758	
Shale			1758	1802	
Sand			1802	1806	
Shale			1806	1837	
Sand			1837	1849	
Shale			1849	1850	
Sand			1850	1851	
Shale			1851	1853	
Sand			1853	1875	
Shale			1875	1899	
Sand with Shale			1899	1939	
Sand			1939	2015	
Shale			2015	2021	
Sand			2021	2031	
Shale			2031	2059	
Sand			2059	2064	
Shale			2064	2071	
Sand with Shale			2071	2120	
Sandy Shale			2120	2492	
Sand			2492	2494	
Shale & Sand			2494	2714	
Shale			2714	3074	
Sand			3074	3086	
Shale			3086	3367	
Sandy Shale			3367	3411	
Sand			3411	3417	
Shale			3417	3460	
Sandy Shale			3460	3512	
Sand			3512	3520	
Sandy Shale			3520	3629	
Sand			3629	3635	
Shale			3635	3716	
Sandy Shale			3716	3837	
Shale			3837	3891	
Sandy Shale			3891	4953	

Continued on Page Three

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

Thomas E. Riley

By: Thomas E. Riley, P.E., Manager of Engineering

Date: May 7, 1984

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 coal, encountered in the drilling of a well."

APR 22 1985

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 fluids and salt water, coal, oil and gas
Continued from Page Two					
Sandy Shale			4953	4960	
Shale			4960	4976	
Sandy Shale			4976	4986	
Shale			4986	5214	
Sandy Shale			5214	5218	
Shale			5218	5746	
Sand			5746	5763	
Shale			5763	5852	
Shale			5852	5902	
Sand			5902	5906	
Shale			5906	6211	
Sandy Shale			6211	6270	
Limey Shale			6270	6490	
Silty Shale			6490	6550	
Tully Lime			6710	6734	
Limey Shale			6734	6890	
Shale			6890	7030	
Shale Marcellus			7030	7250	
Lime			7250	7314	
Chert Hunterville			7314	7380	
Shale			7380	7436	
Criskany Sand			7436	7645	
Helderberg Lime			7645	7830	
				TD.	

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

Thomas E. Riley

By: Thomas E. Riley, P.E., Manager of Engineering

Date: May 7, 1984

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 coal, encountered in the drilling of a well."



1) Date: February 16, 1984
2) Operator's Well No. Berea Federal Unit #2
3) API Well No. 47 - 083 - 0884
State County Permit

RECEIVED
FEB 16 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Gas / X
B (If "Gas", Production / Underground storage _____ / Deep / Shallow _____)
- 5) LOCATION: Elevation: 3154' Watershed: Gandy Creek
District: Dry Fork County: Randolph Quadrangle: Whitmer
- 6) WELL OPERATOR Berea Oil & Gas Corp. 7) DESIGNATED AGENT Mark Schumacher
Address P.O. Box 569 Address P.O. Box 299
Dover, OH 44622 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracey
Address Elkins, WV 26241
(304)636-8798
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
Plug off old formation _____ / Perforate new formation _____ /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 7400 feet
13) Approximate trata depths: Fresh, 40 feet; salt, -- feet.
14) Approximate coal seam depths: -- Is coal being mined in the area? Yes _____ / No

15) 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	16	H40	65#	X		200'	200'	to surface	Kinds
Fresh water	13 3/8	H40	48#	X		500'	500'	to surface	NEAT
Coal									Sizes
Intermediate	9 5/8	J55	40#	X		2600'	2600'	to surface	
Production	4 1/2	N80	11.60#	X		7350'	7350'	1500' fillup	Depths set or as req. by
Tubing									Rule 15.01
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-083-0884

February 17, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>O.K.</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>31183</u>
----------------------	--------------------	-----------------	-------------------	-------------------

Margaret J. Hesse
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: DEPARTMENT OF INTERIOR Operator Well No.:BEREA-FEDERAL 2

LOCATION: Elevation: 3154.00 Quadrangle: WHITMER
District: DRY FORK County: RANDOLPH
Latitude: 9550 Feet South of 38 Deg. 47 Min. 30 Sec.
Longitude 11200 Feet West of 79 Deg. 32 Min. 30 Sec.

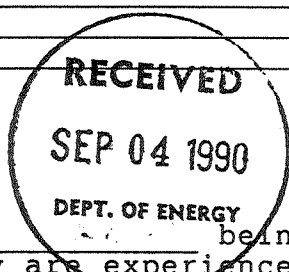
Well Type: OIL _____ GAS x

Company: Berea Oil & Gas Corp.
69 Delaware Ave.
Buffalo, NY 14202

Coal Operator n/a
or Owner _____

Agent: Mark V. Schumacher
Inspector: Phil Tracy
Permit Issued: 08/02/90

Coal Operator n/a
or Owner _____



AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Harrison ss:

Mark Schumacher and Ron Shull being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Berea Oil & Gas Corp, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 27th day of August, 1990, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CL A Cement	7,638'	7,428'	2 3/8" - 7,420'	4 1/2" -2,381'
6% Gel	7,428'	7,400'	4 1/2" - 5,391'	9 5/8" -2,652'
Solid Bridge Plug	7,400'	7,398'		13 3/8" -530'
6% Gel	7,398'	5,440'		16" - 212'
CL A Cement	5,440'	5,190'		
6% Gel	5,190'	2,707'		
CL A Cement	2,707'	2,597'		
6% Gel	2,597'	231'		
CL A Cement	231'	0		

Description of monument: 6" line pipe w/plate

and that the work of plugging and filling said well was completed on the 29th day of August, 1990.

And further deponents saith not.

Mark V. Schumacher
Ron Shull
C. J. Piscura
Notary Public
SEP 24 1990

Sworn and subscribe before me this 30th day of August, 1990

My commission expires: May 28, 1996
NOTARY PUBLIC
STATE OF WEST VIRGINIA
C. J. PISCURA
Rt. 1, Box 190
Bridgeport, WV 26330
My Commission Expires May 28, 1996

