

TOPO. LOC. T.S. SERIES
0.20W
2.50S

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/300
PROVEN SOURCE OF ELEVATION TCT ROAD 3600' ± SE OF LOC. - ELEV. = 820'

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.
Mark C. Echard
(SIGNED) MARK C. ECHARD
R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE MARCH 2, 1981
OPERATOR'S WELL NO. 072
API WELL NO. 47-085 - 4763-RE
STATE _____ COUNTY _____ PERMIT _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

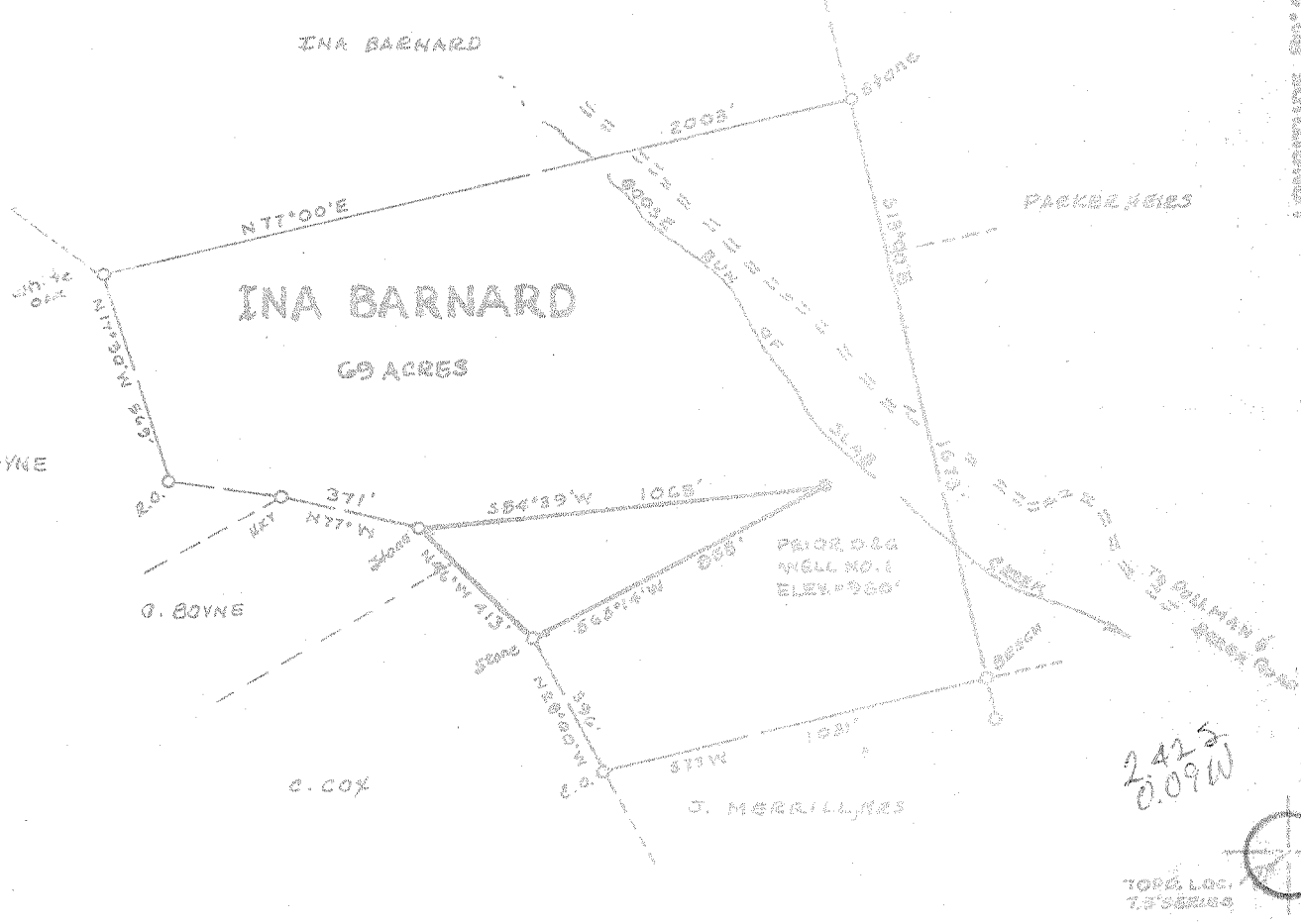
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 992' WATER SHED GOOSE RUN OF SLAB CREEK
DISTRICT Union COUNTY Ritchie
QUADRANGLE Pullman T.S. HOLMWORKS NW
SURFACE OWNER Doris Smith & Paul Mulder ACREAGE 112.50
OIL & GAS ROYALTY OWNER INA BARNARD, CT & CO. LEASE ACREAGE 103.0'
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 Seaca ESTIMATED DEPTH 2440'
WELL OPERATOR FERRELL L. PRIOR DESIGNATED AGENT MR. FERRELL L. PRIOR
ADDRESS P.O. Box 1486 ADDRESS P.O. Box 1486
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101

LATITUDE 39°12'30"

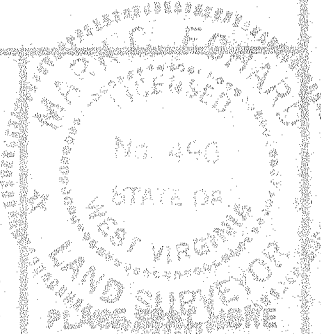
LONGITUDE 80°57'30"

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1350'SW OF LOC - ELEV = 1129'

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. *mark c. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 480



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



DATE MARCH 15, 1980
 OPERATOR'S WELL NO. ONE
 API WELL NO. _____
 47 - 085 - 4763
 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 980 WATER SHED GOOSE RUN OF BLAB CREEK
 DISTRICT UNION COUNTY FITCHIE
 QUADRANGLE PULLMAN T.5' NW Halbrook 15'
 SURFACE OWNER INA BARNARD ACREAGE 69
 OIL & GAS ROYALTY OWNER INA BARNARD LEASE ACREAGE 69
 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 BEREA ESTIMATED DEPTH 2430
 WELL OPERATOR ERELLI PRIOS DESIGNATED AGENT MR VERAL SUMMERS
 ADDRESS P.O. BOX 1486 ADDRESS P.O. BOX 1486
 PARKERSBURG W.VA. 26101 PARKERSBURG W.VA. 26101

MAY 6 1980



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Pullman 7.5

Permit No. 47-085-4763

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Ferrell L. Prior
Address P. O. Box 1486, Parkersburg, W. Va. Casing and
Farm Ina Barnard Acres 69 Tubing
Location (waters) Goose Run of Slab Creek Size
Well No. One (1) Elev. 980
District Union County Ritchie 2016
The surface of tract is owned in fee by Ina 1310
Barnard 958
Address Pullman, W. Va. 858
Mineral rights are owned by Ina Barnard 7
Address Pullman, W. Va. 512
Drilling Commenced 2/5/81 412
Drilling Completed 2/11/81 3
Initial open flow Show cu ft. Show bbls
Final production 750,000 cu ft. per day 1 bbls
Well open 4 hrs. before test 680P

Used in Drilling	Left in Well	Cement fill up Cu. Ft. (Sks)
250	250	To surface
	2446	150 sks

Well treatment details:

Dowell Frac

Attach copy of cementing record.

Coal was encountered at N/A Feet _____ Inches
Fresh water 60 Feet _____ Salt Water _____ Feet
Producing Sand Injun ; Weir Depth 1940 2015; 2196-2305

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Soil			0	70		
Sand			70	137		
Shale			137	229		
Sand			229	414		
Shale			414	483		
Sand			483	509		
Shale			509	707		
Sand			707	758		
Shale			758	860		
Sand			860	1014		
Shale			1014	1031		
Sand			1031	1290		
Shale			1290	1367		
Sand			1367	1447		
Shale			1447	1470		
Sand			1470	1550		
Shale			1550	1640		
Sand			1640	1660		
Shale			1660	1712		
Sand			1712	1728		
Shale			1728	1738		
Sand			1738	1772		
Shale			1772	1794		
Maxon			1794	1827		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1827	1900		
Lime (Big)			1900	1920		
Keener			1920	1940		
Injun			1940	2015	Oil & Gas	
Shale			2015	2043		
Squaw			2043	2049		
Shale			2049	2196		
Weir			2196	2305	Oil & Gas	
Shale			2305	2446	Total Depth	

Date _____ 19__

APPROVED _____ Owner

By *Donald C. [Signature]*
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE December 29, 1980

Surface Owner Ina Barnard
Address Pullman, W. Va.

Company Ferrell L. Prior
Address P.O. Box 1486, Parkersburg, W. Va.

Mineral Owner Ina Barnard
Address Pullman, W. Va.

Farm Ina Barnard Acres 69

Coal Owner N/A

Location (waters) Goose Run of Slab Creek

Address N/A

Well No. One (1) Elevation 980

Coal Operator N/A

District Union County Ritchie

Address N/A

Quadrangle Pullman 7.5

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling renewed. This permit shall expire if operations have not commenced by 10-3-81

INSPECTOR
TO BE NOTIFIED K. P. Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-3660

Fred B. Burdette
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 31 December 19 79 by Ina Barnard made to Ferrell Prior and recorded on the 21 day of January 19 80 in Ritchie County, Book 129 Page 835

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or any request to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operator or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, Ferrell Prior
(Sign Name) Ferrell Prior
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

P. O. Box 1486
Street
Parkersburg
City or Town
West Virginia 26101
State

*SECTION 3... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-085-4763-REN. PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

Sumner

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL DEEPEN FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME StoneStreet NAME Ferrell Prior
 ADDRESS Spencer, W. Va. 25276 ADDRESS P.O. Box 1486, Parkersburg, W. Va.
 TELEPHONE 927-2392 TELEPHONE 485-7419
 ESTIMATED DEPTH OF COMPLETED WELL: 2430 ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: 2430
 TYPE OF WELL: OIL GAS COMB X STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	FEET IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	230	230	to surface
7			
5 1/2			
4 1/2	2430	2430	240 100sks or as reqd.
3			Perf. Top <i>by rule 15.01</i>
2			Perf. Bottom
LINKS			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? N/A BY WHOM?

TO DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Gene Stalnaker Inc. NAME Vearl Summers
 ADDRESS P.O. Box 178, Glenville, W. Va. ADDRESS P. O. Box 1486, Parkersburg, Wva
 TELEPHONE 462-5701 TELEPHONE 485-7419
 ESTIMATED DEPTH OF COMPLETED WELL: 2430 ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 TYPE OF WELL: OIL _____ GAS _____ COMB. X STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	230	230	To surface
7			
5 1/2			
4 1/2	2430	2430	100 sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? N/A BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

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TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

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For Coal Company

Official Title