



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

NOV 10 1980

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE November 6, 1980

Surface Owner Tom Hammett
Address St. Marys, W. Va.
Mineral Owner Tom Hammett
Address St. Marys, W. Va.
Coal Owner N/A
Address N/A
Coal Operator N/A
Address N/A

Company Ferrell Prior
Address P. O. Box 1486, Parkersburg, W. Va.
Farm Hammett Acres 92
Location (waters) Cow Creek of Ohio River
Well No. Three Elevation 889
District Grant County Pleasants
Quadrangle Willow Island 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. This permit shall expire if
operations have not commenced by 7-17-81.

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy
ADDRESS Middlebourn, W. Va. 26149
PHONE 758-4573

Fred B. ...
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 14th May 1979 by Tom Hammett made to Santa Fe Drilling Corp and recorded on the 4th day of June 1979 in Pleasants County, Book 152 Page 292

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 are required 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 operators 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.

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

Very truly yours, *Ferrell Prior*
(Sign Name) Ferrell Prior
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

47-073-1025

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 _____

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Pauls Drilling NAME Vearl Summers
 ADDRESS P.O. Box 1365, Parkersburg, W.Va ADDRESS P.O. Box 1486, Parkersburg, W.Va
 TELEPHONE 422-5418 TELEPHONE 485-7419
 ESTIMATED DEPTH OF COMPLETED WELL: 4200 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. 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	250	250	To surface
7			
5 1/2			
4 1/2		4200	250 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 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

Form IV-9
(01-80)

Date OCTOBER 31, 1980
Well No. THREE (3)
API No. 47-073-1025
State OHIO

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name TERRELL PROZ Designated Agent SAME
Address P.O. Box 1486 PARKERSBURG Address _____
Telephone 304-425-7419 Telephone _____
Landowner EDM HAMMER Soil Cons. District UPPER OHIO
Revegetation to be carried out by PROZ OIL COMPANY (Agent)
This plan has been received by Upper Ohio SCD. All corrections
and additions become a part of this plan. 11/4/80 Kenneth R. Plasm
(Date) (SCD Agent)

Access Road
Structure OPEN DITCH (A)
Spacing _____
Page Ref. Manual 1:8
Structure Cross DRAIN (B)
Spacing _____
Page Ref. Manual 1:3
Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Location
Structure DIVERSION
Material _____
Page Ref. Manual 1:14
Structure _____
Material _____
Page Ref. Manual _____
Structure _____
Material _____
Page Ref. Manual _____

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OIL & GAS DEPT.
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary.
All commercial timber is to be cut and stacked. All brush and small timber
to be cut and removed from site before dirt work begins.

Revegetation

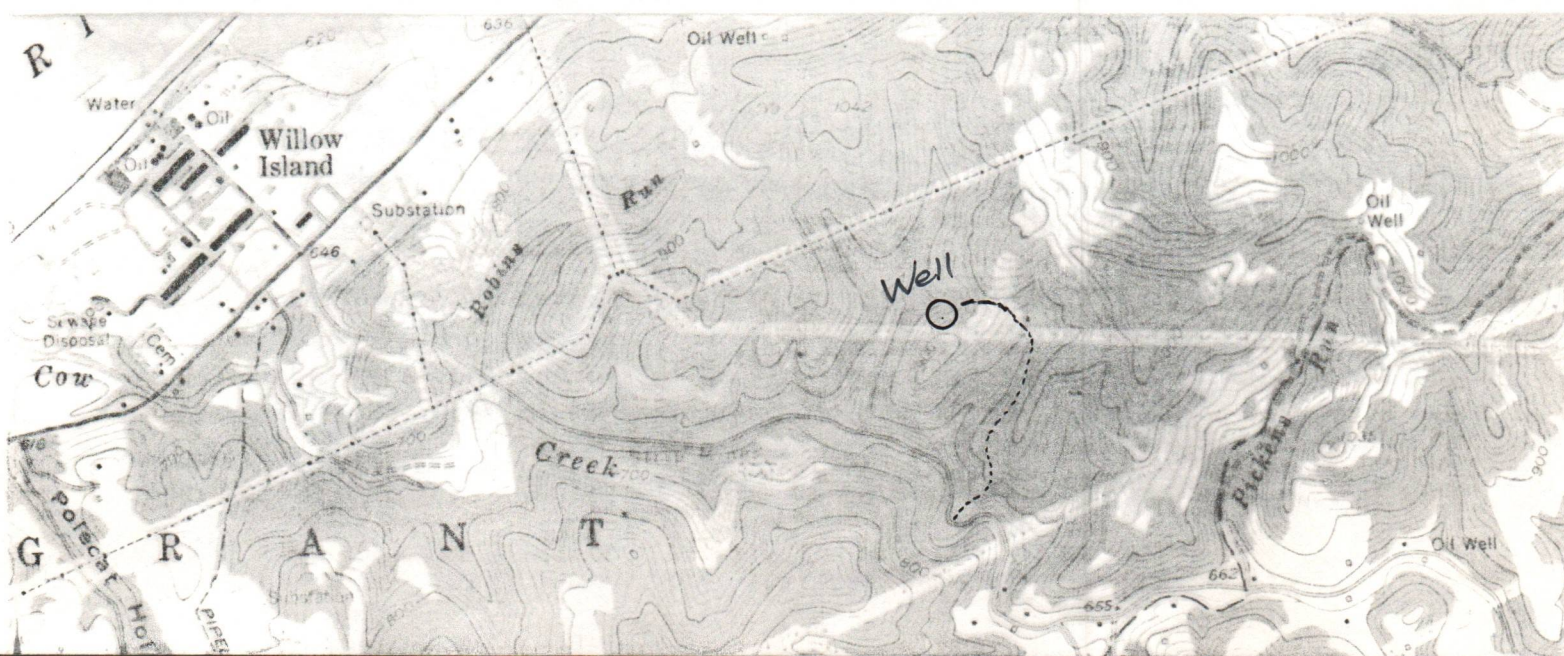
Treatment Area I
Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch HAY (2) Tons/Acre
Seed* TALL FESCUE 40 lbs/acre
CROWN VETCH 10 lbs/acre
_____ lbs/acre

Treatment Area II
Lime _____ Tons/Acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/Acre
Seed* _____ lbs/acre
_____ lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

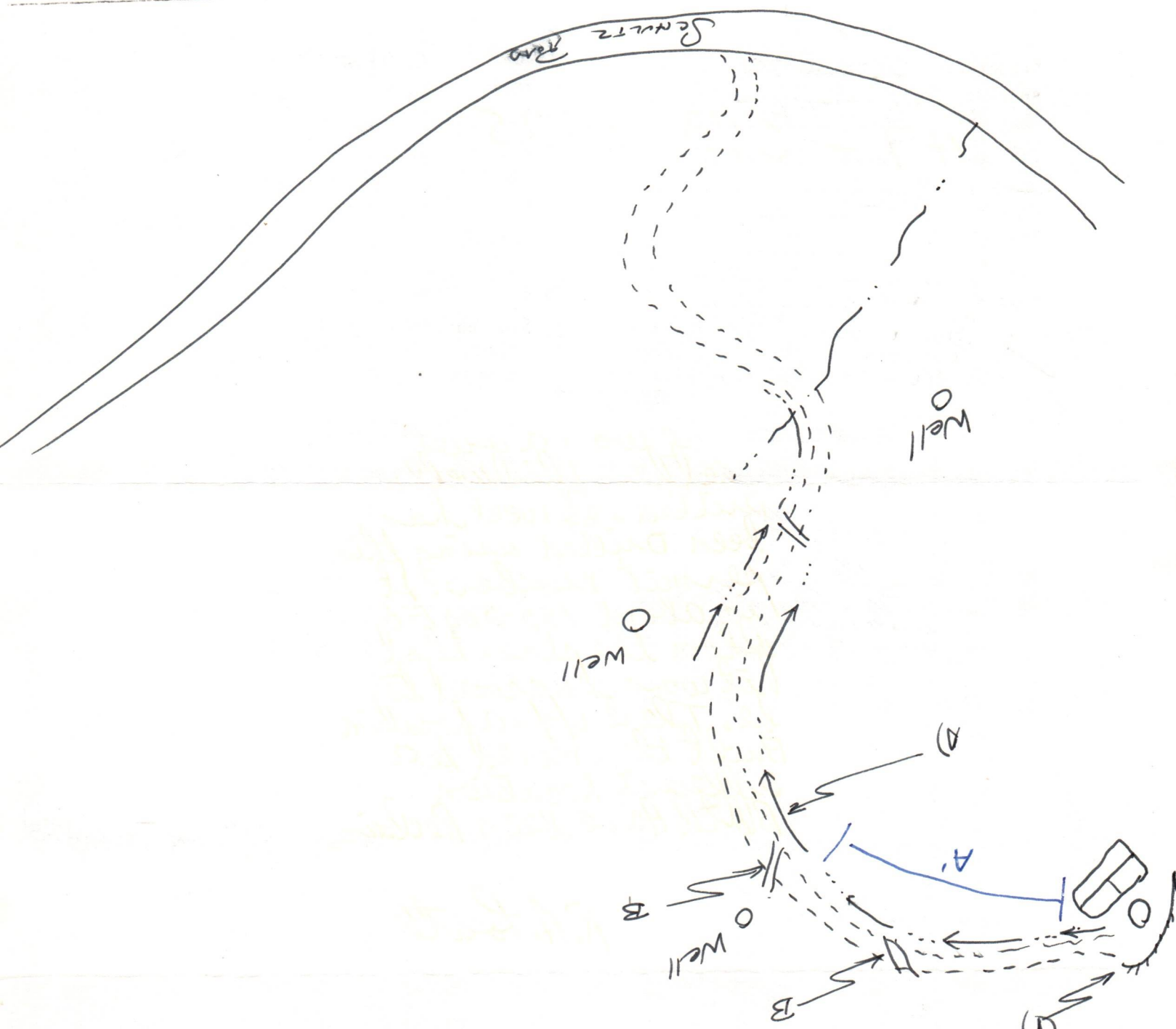
Attach or photocopy section of involved Topographic map. Quadrangle WILLOW ISLAND 7.5'

Legend:  Well Site
 Access Road



Farmers cooperation to protect new seedling for one growing season
 Address: Donald C. Johnson
 Phone Number: 304-925-7419
 WV Box 1486 Parkersburg

Slope of Road \rightarrow A' 10%



Sketch to include well location, existing access road, roads to be constructed with first part of this plan. Include all natural drainage. Well site, drilling pits and necessary structures numbered or lettered to correspond

- Legend:
- Property Boundary ————
 - Road = = = =
 - Existing Fence — x —
 - Planned Fence — - - - -
 - Stream ————
 - Open Ditch ————
 - Diversion ————
 - Spring —○—
 - Wet Spot —○—
 - Building —■—
 - Drain Pipe —○—
 - Waterway ————

Well Site Plan

47 - 073 - 1025

There was a question
whether this well was
drilled. The well has
been drilled using this
permit number. It
is about 150-200 ft
from the place that
it was supposed to
be. There was a location
built then moved to a
different location
Both have been reclaimed

R. A. Lowther



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

RECEIVED
NOV 17 1983

OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Willow Island 7.5

Permit No. 47-073-1025

Company <u>Ferrell Prior</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 1486, Parkersburg, W. Va.</u>				
Farm <u>Hammett</u> Acres <u>92</u>				
Location (waters) <u>Cow Creek of the Ohio River</u>				
Well No. <u>Three (3)</u> Elev. <u>889</u>	20-16			
District <u>Grant</u> County <u>Pleasants</u>	Cond.			
The surface of tract is owned in fee by <u>Tom Hammett</u>	13-10"			
Address <u>St. Marys, W. Va.</u>	9 5/8			
Mineral rights are owned by <u>Tom Hammett</u>	8 5/8	250	250	To surface
Address <u>St. Marys, W. Va.</u>	7			
Drilling Commenced <u>December 12, 1980</u>	5 1/2			
Drilling Completed <u>December 17, 1980</u>	4 1/2		2980	335 sks. Cement
Initial open flow <u>show</u> cu. ft. <u>show</u> bbls.	3			
Final production <u>1,000,000</u> t. per day <u>60</u> bbls.	2			
Well open <u>4</u> hrs. before test <u>980</u> RP.	Liners Used			

Well treatment details:

Attach copy of cementing record.

B-J Hughes Nitrogen Frac. January 23, 1981

960,000 SCF of Nitrogen

Coal was encountered at None Feet _____ Inches _____
Fresh water 50 Feet 110 Salt Water None Feet _____
Producing Sand Berea, Gantz Gordon; Fifth Depth 1349 - 1355; 1450 - 1480;
Sand and Brown Shale 1580 - 1620; 1746-1790;
2520 - 3100

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	15		
Sand			15	187		
Shale			187	230		
Sand			230	350		
Shale			350	500		
Sand			500	540		
Shale			540	610		
Sand			610	644		
Shale			644	700		
Big Lime			700	774		
Keener			774	852		
Pocono Sand			852	1349		
Berea			1349	1450	Oil and Gas	
Gantz			1450	1580	Oil and Gas	
Gordon			1580	1620	Oil and Gas	
Fifth Sand			1620	1790	Oil and Gas	
Brown Shale			1790	3100		
Total Depth			3100			
						Perforations:
						1464 1 hole
						1471 1 hole
						1485 1 hole
						1588 1 hole
						1602 1 hole
						1608 1 hole

PLEAS. 1025

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
						1751 1 hole 1765 1 hole 1770 1 hole 1777 1 hole

Date 11/15 1983

APPROVED Stephen J Jordan ~~Owner~~

By Geologist
(Title)

RECEIVED
 MAY 18 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

Date: May 15, 1984

Operator's
 Well No. Three (3)

API Well No. 47 - 073 - 1025
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
 OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Ferrell Prior
 Address 4818 Rosemar Road
Parkersburg, W. Va. 26101

DESIGNATED AGENT Ferrell Prior
 Address 4818 Rosemar Road
Parkersburg, W. Va 26101

GEOLOGICAL TARGET FORMATION: Brown Shale Depth 3100 feet
 Perforation Interval 1349 - 3100 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE <u>2-9-83</u>	TIME <u>7:00AM</u>	END OF TEST-DATE <u>2/10/83</u>	TIME <u>7:00AM</u>	DURATION OF TEST <u>24 hours</u>
TUBING PRESSURE <u>N/A</u>	CASING PRESSURE <u>980</u>	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
OIL PRODUCTION DURING TEST <u>60</u> bbls.	GAS PRODUCTION DURING TEST <u>1,000</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>0</u> bbls. ppm.		
OIL GRAVITY	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>flowing</u>			

GAS PRODUCTION			
MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>			POSITIVE CHOKE <input checked="" type="checkbox"/> CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER <u>.25</u>	PIPE DIAMETER (INSIDE DIAM.) <u>2"</u>	NOMINAL CHOKE SIZE - IN.	
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN.	
DIFFERENTIAL	STATIC	GAS GRAVITY (Air-1.0) MEASURED _____ ESTIMATED <u>.68</u>	
GAS GRAVITY (Air-1.0) <u>.68</u>	FLOWING TEMPERATURE <u>520 F Absolute</u>	GAS TEMPERATURE <u>75.36</u> °F	
24 HOUR COEFFICIENT <u>25.61</u>	24 HOUR COEFFICIENT PRESSURE - _____ psia		

TEST RESULTS			
DAILY OIL <u>60</u> bbls.	DAILY WATER <u>0</u> bbls.	DAILY GAS <u>1,000</u> Mcf.	GAS-OIL RATIO <u>1666</u> SCF/STE

Ferrell Prior

Well Operator

By: Stephen Jordan

Its: Geologist

Gas

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MAY 18 1894

OIL & GAS DIVISION
DEPT. OF MINES

DEPARTMENT OF MINES, OIL AND GAS DIVISION
STATE OF WEST VIRGINIA

WELL OPERATING REPORT
OF
INITIAL GAS-OIL RATIO TEST

PRODUCTION GASES SPECIMENS: _____
ADDRESS: _____
OPERATOR'S NAME: _____
CONVEYANCE INTERVAL: _____

DATE OF TEST: _____

In a number of wells tested on May 18, 1894, the gas-oil ratio test was conducted. The test was conducted during the first few days of the month. The test was conducted on the following wells: _____

WELL NO.	DATE OF TEST	TIME OF TEST	DURATION OF TEST
101	May 18	7:00	1:00

WELL NO.	DATE OF TEST	TIME OF TEST	DURATION OF TEST
102	May 18	7:00	1:00

WELL NO.	DATE OF TEST	TIME OF TEST	DURATION OF TEST	TYPE OF TEST	RESULTS
101	May 18	7:00	1:00	Initial Gas-Oil Ratio	Gas 100, Oil 100
102	May 18	7:00	1:00	Initial Gas-Oil Ratio	Gas 100, Oil 100

WELL NO.	DATE OF TEST	TIME OF TEST	DURATION OF TEST
103	May 18	7:00	1:00

Well Operator



RECEIVED
MAY 1 1984

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
May 11, 1984

COMPANY Ferrell Prior
P. O. Box 1486
Parkersburg, West Virginia 26101

PERMIT NO 073-1025
FARM & WELL NO Tom Hammett #3
DIST. & COUNTY Grant/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strength		
15.05	Cement Type		
23.02	Maintained, Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.A. Lutzke

DATE May 16, 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. r. B.
Administrator-Oil & Gas Division

May 30, 1984

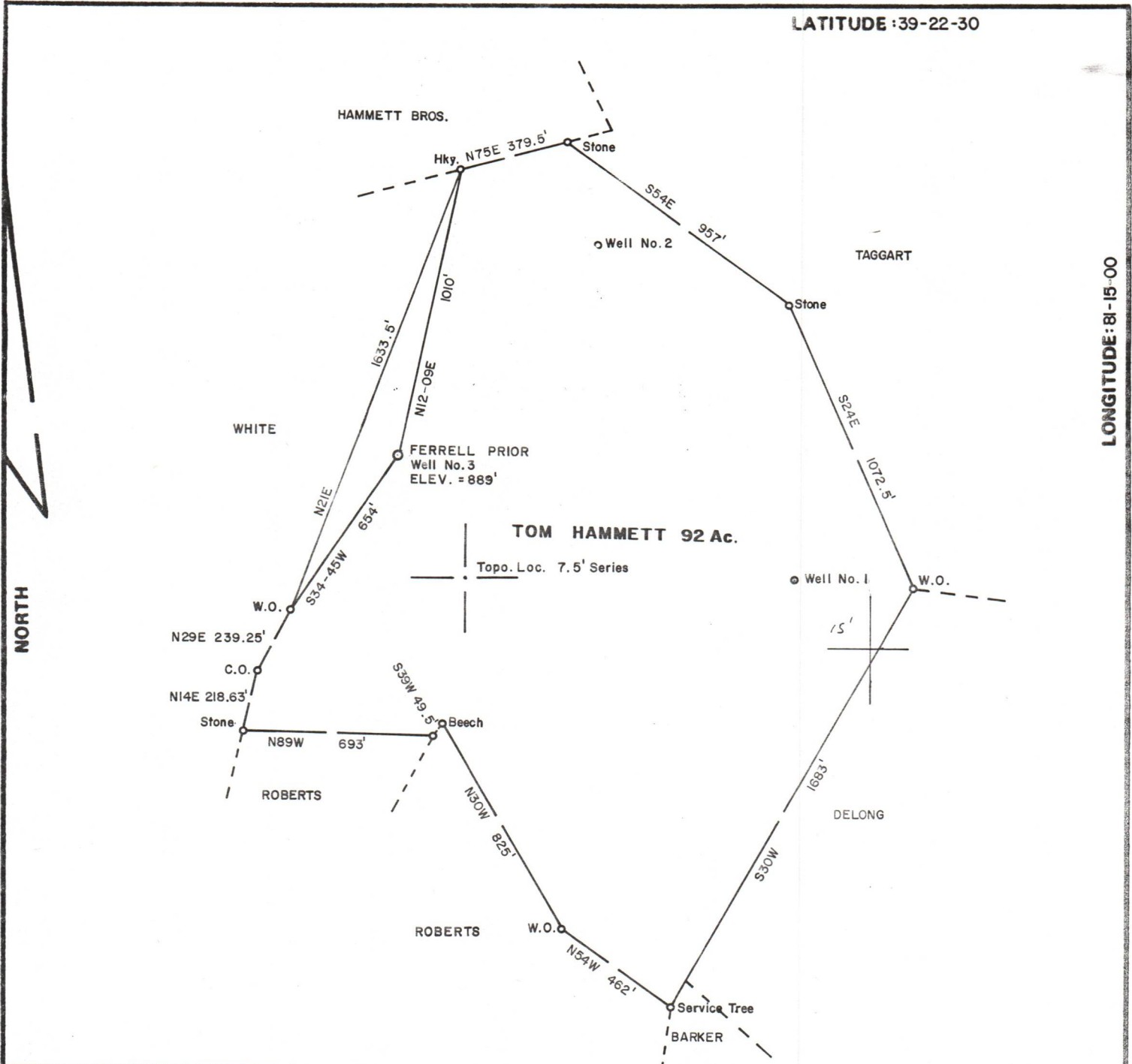
DATE

02 11/15/80

39° 25'

LATITUDE : 39-22-30

LONGITUDE : 81-15-00



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 500 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 2600' NW of Location, Elev. = 1042'

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-6 (8-78)



DATE October 17, _____, 19 80
 OPERATOR'S WELL NO. THREE
 API WELL NO. _____
47 - 073 - 1025
 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 889' WATER SHED COW CREEK of OHIO RIVER
 DISTRICT GRANT COUNTY PLEASANTS
 QUADRANGLE WILLOW ISLAND 7.5' M1 15
 SURFACE OWNER TOM HAMMETT, St. Marys, W.V. ACREAGE 92
 OIL & GAS ROYALTY OWNER TOM HAMMETT, St. Marys, W.V. LEASE ACREAGE 92
 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 DEVONIAN SHALE ESTIMATED DEPTH 4200'±
 WELL OPERATOR FERRELL PRIOR DESIGNATED AGENT FERRELL PRIOR
 ADDRESS BOX 1486 ADDRESS BOX 1486
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101