



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 28 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE Sept. 16 1981

Surface Owner Paul E. & Betty L. Dutton

Company Bison, Inc.

Address 511 6th St. St. Marys, WV. 26170

Address St. Marys, WV. 26170

Mineral Owner Same

Farm Paul Dutton Acres 2

Address _____

Location (waters) M.J. Creek

Coal Owner N/A

Well No. 1 Elevation 665'

Address _____

District Union County Pleasants

Coal Operator _____

Quadrangle Raven Rock 7.5'

Address _____

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 6-8-82.

INSPECTOR _____

TO BE NOTIFIED Phillip Tracy

ADDRESS Rt. 3 Alma, WV. 23620

PHONE 304-758-4573

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 Aug. 16 17 19 81 by D.C.I.D. Oil & Gas made to Bison, Inc. and recorded on the 8 day of Aug. 19 81, in Pleasants County, Book 167 Page 103

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

Very truly yours,

(Sign Name) Bison, Inc. By Harold E. Wilson Pres
Well Operator

Address of Well Operator

Rt. 2 Box 83
Street
St. Marys, WV.
City or Town
WV.
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.

47-073-1326 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 Harold E. Wilson

BLANKET BOND

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 Unknown _____ NAME Bison, Inc. _____
 ADDRESS _____ ADDRESS St. Marys, WV. 26170 _____
 TELEPHONE _____ TELEPHONE 304-684-3994 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4850' _____ 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 THE UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30'	30'	
9 - 5/8			
8 - 5/8	750'	750'	Cement to ground level
7			
5 1/2			
4 1/2	4850'	4850'	Cement up to 2700'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 350' FEET 1000' SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? No 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

#684

Form IV-9
(01-80)

Date 9/17 1981
Well No. 1
API No. 47 - 073 - 1326
State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Bison, Inc. Designated Agent Harold E. Wilson
Address Rt. 2 St. Marys, WV. Address Rt # 2 Box 83 St Marys, WV 24720
Telephone 684-3994 Telephone 304-684-3994
Landowner Paul E. & Betty L. Dutton Soil Cons. District Upper Ohio
Revegetation to be carried out by Bison Inc. (Agent)
This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan. 9/18/81 Kimberly D. Glenn
(Date) (SCD Agent)

Access Road	Location
Structure <u>N/A</u> (A)	Structure <u>Dispersion Ditch</u> (1)
Spacing _____	Material <u>SOIL</u>
Page Ref. Manual _____	Page Ref. Manual <u>1:9</u>
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

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All structures should be inspected regularly and repaired if necessary. SEP 28 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Revegetation

Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/Acre or correct to pH <u>7.6</u>
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>HAY OR STRAW 2</u> Tons/Acre	Mulch <u>HAY OR STRAW 2</u> Tons/Acre
Seed* <u>KY 31 FESCUE 35</u> lbs/acre <u>Red Top</u> <u>5</u> lbs/acre	Seed* <u>KY 31 FESCUE 35</u> lbs/acre <u>Red Top</u> <u>5</u> lbs/acre

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

All timber will be cut, stacked, and disposed.

Attach or photocopy section of involved Topographic map. Quadrangle BARREN ROCK 7.5'

Legend: ⊕ Well Site

— Access Road



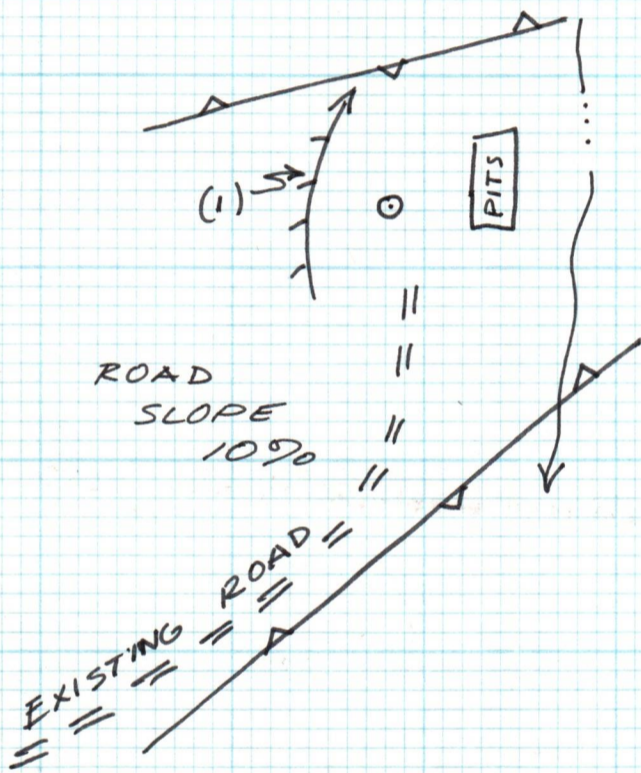
Well Site Plan

- Legend:
- Property Boundary
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

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

WELL SITE PLAN
PAUL DUTTON NO. 1



Comments: Logs will be piled for Farmers these brush will be piled before location is built

Signature: Harold E Wilson Rt # 2 Box 83 St Marys Mo 64170 304-684-3997
Phone Number

Please request landowners cooperation to protect new seeding for one growing season.



RECEIVED

FEQ - 6 1985

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

OIL & GAS DIV.
DEPT. OF MINES

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Bryten Minerals Inc. (the transferor) to Pethtel oil & gas (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) Zed Pethtel, (address) P.O. Box 21 St. George W. Va. 26170, is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. Fifty Thousand and 00/100--(\$50,000.00) Dollars. Bond No. S-37001 Issued by Lyn E. Landry (Ass't Secretary Of National Grange Mutual Insurance Co. Keene, New Hampshire

(Transferee) BRYTEN MINERALS INC.
By John K. Tenney
Its VICE PRESIDENT

Taken, subscribed and sworn to before me this 5th day of Feb. 19 85

Notary Public Charles Greene
My commission expires May 16, 19 85

(Transferor) Pethtel oil & gas
By Zed Pethtel
Its Pres.

Taken, subscribed and sworn to before me this 5th day of Feb. 19 85

Notary Public Charles Greene
My commission expires May 16, 19 85

ACCEPTED THIS 13th DAY OF NOV, 1985
BY: [Signature]
Director - Division of Oil and Gas

IV-35
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

Date 2-12-82
Operator's
Well No. PAUL DUTTON #
Farm P. DUTTON
API No. 47-073-1326

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

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

LOCATION: Elevation: 665 Watershed M. I. Creek
District: UNION County PLEASANTS Quadrangle RAVEN ROCK

COMPANY BISON, INC.
ADDRESS RT. 2 BOX 83 ST. MARYS, W. Va.
DESIGNATED AGENT HAROLD E. WILSON
ADDRESS SAME
SURFACE OWNER PAUL DUTTON
ADDRESS ST. MARYS, W. Va.
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK PHIL TRACY ADDRESS Middlebourne, W. Va.
PERMIT ISSUED 9-28-81
DRILLING COMMENCED 12-2-81
DRILLING COMPLETED 12-10-81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	767	767	175
7			
5 1/2			
4 1/2		4500	280
3	RECEIVED		
2			
Liners used	APR 7 - 1982 OIL AND GAS DIVISION WV DEPARTMENT OF MINES		

GEOLOGICAL TARGET FORMATION Benson Depth 4450 feet
Depth of completed well 4491 feet Rotary X / Cable Tools
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4097-4383 feet
Gas: Initial open flow 337,000 Mcf/d Oil: Initial open flow 2 Bbl/d
Final open flow 337,000 Mcf/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests 8 hours
Static rock pressure 490 psig (surface measurement) after 12 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

(Continue on reverse side)

Rec'd 1326

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

15 - .49 Holes 4097-4383

FRAC TURE

FOAM FRAC USING 100,000 # 20/40 SAND,
* 768,000 SCF, N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fractures and salt water, coal, oil and gas
1ST SALT			948	964	
2nd SALT			1060	1135	
3rd SALT			1154	1194	
MAXON			1277	1306	
BIG Lime			1322	1378	
Keener			1416	1448	
BIG INJUN			1495	1557	
Weir			1758	1786	
Berea			1900	1910	
50 FT			2040	2063	
30 FT			2206	2226	
Gordon			2318	2340	
4TH SAND			2434	2446	
5TH SAND			2496	2512	
Tiowa			3024	3042	
Speckly			3204	3218	
BALL TOWN			3324	3352	
			3396	3422	
BRADFORD			3586	3600	
ELK			3720	3740	
Riley			4138	4165	
BENSON			4430	4450	

(Attach separate sheets as necessary)

Bison, Inc

Well Operator

By: Ruth A. Blum

Date: 2-11-82

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."



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SEP 11 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
August 31, 1984

COMPANY Bison, Inc. dba/Resources Inter- PERMIT NO 073-1326 (7-8-81)
national, Ltd.
Route 2, Box 83 9520 No. May-Suite 270 FARM & WELL NO Paul Dutton #1
Oklahoma City, Oklahoma 73120
St. Marys, West Virginia 26170-- DIST. & COUNTY Union/Pleasants

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

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

SIGNED R.A. Lowther
DATE Sept 7, 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.L. r. B.B.
Administrator-Oil & Gas Division

October 9, 1984

TMS/chm

DATE

1326

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-073-1243</u>			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA	<u>D</u> Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>4383</u> feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>BISON, INC.</u> <u>Route 2 Box 83</u> <u>ST. MARYS W. Va. 26170</u> <small>State Zip Code</small>			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>ST. MARYS</u> <u>PLEASANTS</u> <u>W. Va.</u> <small>State</small>			
(b) For OCS wells:	<u>N/A</u> <small>Area Name</small>	<u>N/A</u> <small>Block Number</small>		
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>DUTTON #1</u>			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>N/A.</u>			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>COLUMBIA GAS TRANS. CORP.</u> <small>Name</small>			
(b) Date of the contract:	<u>N/A.</u> <small>Mo. Day Yr.</small>			
(c) Estimated annual production:	<u>29</u> MMcf			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<u>DeRegulated</u>			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>DeRegulated</u>			
9.0 Person responsible for this application	<u>Ruth A. Blum</u> <small>Name</small>			
<small>Agency Use Only</small> Date Received by Juris. Agency FEB 26 1982 <small>Date Received by</small>	<u>Prod. Analyst</u> <small>Title</small> <u>Ruth A. Blum</u> <small>Signature</small> <u>304-684-7919</u> <small>Phone Number</small>			

Date of completion is Completed

DUTTON #1

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

3801 2 8 837

JUN 29 1982

PARTICIPANTS:

DATE:

BUYER-SELLER CODE

WELL OPERATOR:

Bison, Inc

FIRST PURCHASER:

Columbia Gas Trans. Corp.

OTHER:

004030

W. Va. Department of Mines, Oil & Gas Division

WELL DETERMINATION FILE NUMBER

8202²⁶~~82~~-107-073-1326

Use Above File Number on all Communications Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 Items not completed - Line No. 7.0 + 8.0 Deregulated

2. IV-1 Agent Harlod E. Wilson

3. IV-2 Well Permit

4. IV-6 Well Plat

5. IV-35 Well Record Drilling Deepening

6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio

7. IV-39 Annual Production years

8. IV-40 90 day Production Days off line:

9. IV-48 Application for certification. Complete?

10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? Affidavit Signed

18-28. Other: Survey Logs Geological Charts Structure Map 1: 4000 Map Well Tabulations Gas Analyses

(5) Date commenced: 12-2-81 Date completed 12-10-81 Deepened

(5) Production Depth: 4697-4383

(5) Production Formation: Benson

(5) Final Open Flow: 337 MCF

(5) After Frac. R. P. 490# 12 hrs.

(6) Other Gas Test:

(7) Avg. Daily Gas from Annual Production:

(8) Avg. Daily Gas from 90-day ending w/1-120 days

(8) Line Pressure: PSIG from Daily Report

(5) Oil Production: From Completion Report

10-17. Does lease inventory indicate enhanced recovery being done

10-17. Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? YES

Additional information Does computer program confirm?

Was Determination Objected to By Whom?

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

Date 2-12-82
Operator's Well No. DUTTON #1
SP. Well No. 47 073 1326
State

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

WELL OPERATOR BISON, Inc.
ADDRESS Route 2 Box 83
ST. MARYS, W. Va. 26170
GAS PURCHASER Columbia Gas Trans. Corp.
ADDRESS 1700 MacCorkle Ave.
Charleston, W. Va.

DESIGNATED AGENT HAROLD E. Wilson
ADDRESS Route 2 Box 83
ST. MARYS, W. Va. 26170
LOCATION Elevation 665
Watershed M. I. CREEK
Dist UNION County PLEASANTS
Gas Purchase Contract No. N/A
Meter Chart Code N/A
Date of Contract N/A

Date surface drilling began: 12-2-81

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP = P_1 + P_1 \left(\frac{GL}{53.34 T - 1} \right)$$

$$P = 490$$

$$T = 120^\circ$$

$$G = .70$$

$$L = 4383$$

$$BHP = 939.86$$

AFFIDAVIT

I, HAROLD E. WILSON, having been first sworn according to law, state that, I have calculated the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

Harold E. Wilson

STATE OF WEST VIRGINIA,
COUNTY OF Pleasants, TO WIT.

I, Donald B. [Signature], a Notary Public in and for the state and county aforesaid, do certify that Harold E. Wilson, whose name is signed to the writing above, bearing date the 10th day of Feb, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 10 day of Feb, 1982

My term of office expires on the 2 day of Sept, 1991

[Signature]
Notary Public

[NOTARIAL SEAL]

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

Date 2-12, 1982

Operator's Well No. DUTTON #1

API Well No. 47 - 073 - 1326
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR BISON, INC
ADDRESS Route 2 Box 83
ST. MARYS, W. VA. 26170

DESIGNATED AGENT HAROLD E. WILSON
ADDRESS Route 2 Box 83
ST. MARYS, W. VA. 26170

Gas Purchase Contract No. N/A and Date N/A
Meter Chart Code N/A. (Month, Day and year)

Name of First Purchaser COLUMBIA GAS TRANS. CORP.
1700 MacCORKLE Ave.
CHARLESTON W. VA. 26170
(Street or P. O. Box) (City) (State) (Zip Code)

FERC Seller Code 023237 FERC Buyer Code 004030

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 107 Category Code D
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

HAROLD E. WILSON Pres.
Name (Print) Title
Harold E. Wilson
Signature
Route 2 Box 83
Street or P. O. Box
ST. MARYS, W. VA. 26170
City State (Zip Code)
(304) 684-7919
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1975, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

FEB 26 1982

J. B. Murray
Director

Received by _____
Jurisdictional Agency

By _____
Title _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS
 1615 Washington Street, East
 Charleston, West Virginia 25311
 Telephone: 348-3500

ARCH A. MOORE, JR.
 Governor

IN THE MATTER OF)
 PERMIT DENIAL AS)
 PROVIDED IN W.VA.)
 CODE 22B-1-6 (h))

CAUSE NO. 45-D

ORDER NO. 2

REPORT OF THE OFFICE

Pursuant to the powers of the Division in denying permits, under 22B-1-6 (h) the office has issued the following order:

FINDINGS OF FACT

The following violations have been abated this date for Bison, Inc.:

47-073-1324	Reclamation	Abatement Date	7-7-83
47-073-1326	Reclamation	Abatement Date	7-7-83
47-073-1419	No I.D.	Abatement Date	7-7-83
47-073-1420	Reclamation	Abatement Date	7-7-83
47-095-0964	Reclamation	Abatement Date	7-7-83
47-095-0965	Reclamation	Abatement Date	7-7-83

CONCLUSION OF LAW

The Division of Oil and Gas of the Department of Energy has authority to issue Orders to implement 22B-1-et. seq. of the code as outlined in 22B-1-3 through 22B-1-6 of the Code.

ORDER

Wherefore, it is hereby ordered that Order Number 1 of this Cause is rescinded and permits may be issued again.

Entered in Charleston, W.Va., this 10th. day of September 19, 85.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 

IV-27
11/23/81



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: June 30 1983
Well No: 1
API NO: 47 - 073 1326
State County Permit

**Oil and Gas Division
NOTICE OF VIOLATION**

WELL TYPE: Oil / Gas Liquid Injection / Waste Disposal /
Of "Gas" - Production / Storage / Deep / Shallow /
LOCATION: Elevation: 665 Watershed: Middle Island Creek
District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR Bison Inc DESIGNATED AGENT Harold C. Wilson
Address Rt 2 Box 83 Address Rt 2 Box 83
St Marys W.Va. 26170 St Marys W.Va. 26170

The above well is being posted this 30 day of June, 1983, for a violation of Code 22-4-7.03 and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to identify well with API number

RECEIVED

JUL - 5 1983

**OIL & GAS DIVISION
DEPT. OF MINES**

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until July 7, 1983, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert A. Lowlther
Oil and Gas Inspector

Address Middlebourne
W.Va. 26149

Telephone: 758-4764

IV-27
11/23/81



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: June 30 1983
Well No: 1
API NO: 47 - 073 1326
State County Permit

**Oil and Gas Division
NOTICE OF VIOLATION**

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
Of "Gas" - Production / Storage / Deep / Shallow /
LOCATION: Elevation: _____ Watershed: Middle Island Creek
District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR Bison Inc DESIGNATED AGENT Harold E. Wilson
Address Rt 2 Box 83 Address Rt 2 Box 83
St Marys W.Va. 26170 St Marys W.Va. 26170

The above well is being posted this 30 day of June, 1983, for a violation of Code 22-4-12B and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to Re Claim well site within 6 months after completion of Drilling

RECEIVED
JUL - 5 1983

OIL & GAS DIVISION
DEPT. OF MINES

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until July 7, 1983 to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert A. Lowther
Oil and Gas Inspector

Address Middlebourne W.Va. 26149

Telephone: 758-4764

279

RECEIVED
JUL 25 1985

0850 279

Date: July 23 1985
Operator's 1
Well Number _____
API Well No.: 47 - 073 - 1326
State County Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

NOTICE OF ABATEMENT

WELL TYPE: Oil _____ / Gas / Liquid Injection _____ / Waste disposal _____

Underground
If "Gas" - Production / Storage _____ / Deep _____ / Shallow

LOCATION: Elevation: _____ Watershed: _____

District: union County: pleasants Quadrangle: _____

WELL OPERATOR Bison INC DESIGNATED AGENT _____

Address St. Marys W. Va. Address _____

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on July 23, 19 85.
The violation of Code § 22-B-1-30 heretofore found to exist on June 15, 19 83, by Form IV-27, "Notice of Violation" / Form IV-28, "Imminent Danger Order" _____ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

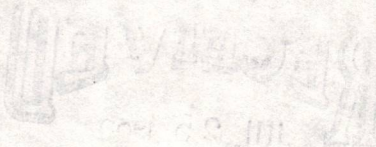
well site is Re claimed

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

R.A. Luthie
Oil and Gas Inspector

Address _____

Telephone _____



DEPARTMENT OF ENERGY
DIVISION OF OIL & GAS

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

NOTICE OF ABATEMENT

Date: July 23 1983
Operator: [Signature]
Well Number: 1
API Well No.: 47-073-1356
State: West Virginia County: [Blank] Permit: [Blank]

WELL TYPE: Gas Oil Liquid Injection Waste disposal

LOCATION: Production Storage Deep Shallow Underground

Elevation: [Blank] Direction: [Blank] County: pleasants District: [Blank]

WELL OPERATOR: [Signature] Address: [Blank]

DESIGNATED AGENT: [Signature] Address: [Blank]

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on July 23 1983. The violation of Code 25-2-1-50 hereafter found to exist on July 15 1983 by Form IV-27, "Notice of Violation", Form IV-28, "Imminent Danger Order", of that name has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS: well site is claimed

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Oil and Gas Inspector: [Signature]
Address: _____
Telephone: _____

Date: August 9, 19 83
Operator's Well Number 1
API Well No. 47 - 073 - 1326
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL AND GAS
ORDER FOR FAILURE TO ABATE VIOLATION

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
If "Gas" - Production / Underground Storage / Deep / Shallow

LOCATION: Elevation: 665 Watershed: Middle Island Creek
District: Union County: Pleasant Quadrangle: Raven Rock

WELL OPERATOR: Bison INC c/o Resources International Limited
Address: Suite 270 9520 N Maryland St City OK 73120

DESIGNATED AGENT: _____
Address: _____

Notice is hereby given that the undersigned authorized oil and gas inspector has made a special inspection of the above-named well on August 8, 19 83.

- Upon the expiration of a period of time originally fixed for abatement.
- Upon the order of the Administrator for the Office of Oil and Gas at the request of the well operator.
- Upon the request of the Administrator for the Office of Oil and Gas.

The violation of Code 22-4-1g, heretofore found to exist on June 30, 19 83 by Form IV-27, "Notice of Violation" 0 /, Form IV-28, "Imminent Danger Order" _____ / of that date has not been totally abated and it has been determined that no further extension of time should be permitted for the following reasons:

(USE REVERSE SIDE OF THIS ORDER IF NECESSARY)

Failure to Re Claim well site
Failure to Identify well By A P I number

Therefore, in accordance with the provisions of Code 22-4-1g, the well operator is hereby ORDERED:

- To continue cessation of operations until the imminent danger is fully abated.
- To cease further operations until the violation has been fully abated.

In accordance with Code 22-4-1, a well operator or complaining coal operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.

RECEIVED
AUG 10 1983

Robert A. Louthier
Oil and Gas Inspector
Address: Middle Island Creek
W.D. 26149
Telephone: 304-758-4764

PURCHASER: _____
Address: _____
OIL & GAS DIVISION
DEPT. OF MINES

(Copies of this ORDER have been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.)

RECEIVED
NOV 14 1984

Date: Nov 10, 1984
Operator's Well No. 1
API Well NO. 47 - 073 1326
State County Permit

OIL & GAS DIVISION
DEPT. OF MINES
STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

NOTICE EXTENDING ABATEMENT TIME

WELL TYPE: Oil / Gas Liquid Injection / Waste disposal
Of "Gas" - Production / Storage / Deep / Shallow
LOCATION: Elevation: _____ Watershed: _____
District: Union County: Pleasants Quadrangle: _____
WELL OPERATOR Bison Inc DESIGNATED AGENT _____
Address St Marys W. Va Address _____

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on Nov 10, 1984.
The violation of Code 22-4-12B, heretofore found to exist on _____, 19_____, by Form IV-27, "Notice of Violation" / Form IV-28, "Imminent Danger Order" _____ / of that date has not been totally abated. Accordingly, the well operator is—

_____ required to continue the cessation of operations until the imminent danger is totally abated.
 granted an extension of time to totally abate the violation, until May 1, 1985.
This is the first / second _____ / final / extension of said Notice of Violation.

COMMENTS: (USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)
CO is going to Re Treat well and it will be Re claimed after Treatment

R.A. Lowther
Oil and Gas Inspector
Address _____
Telephone 758-4764

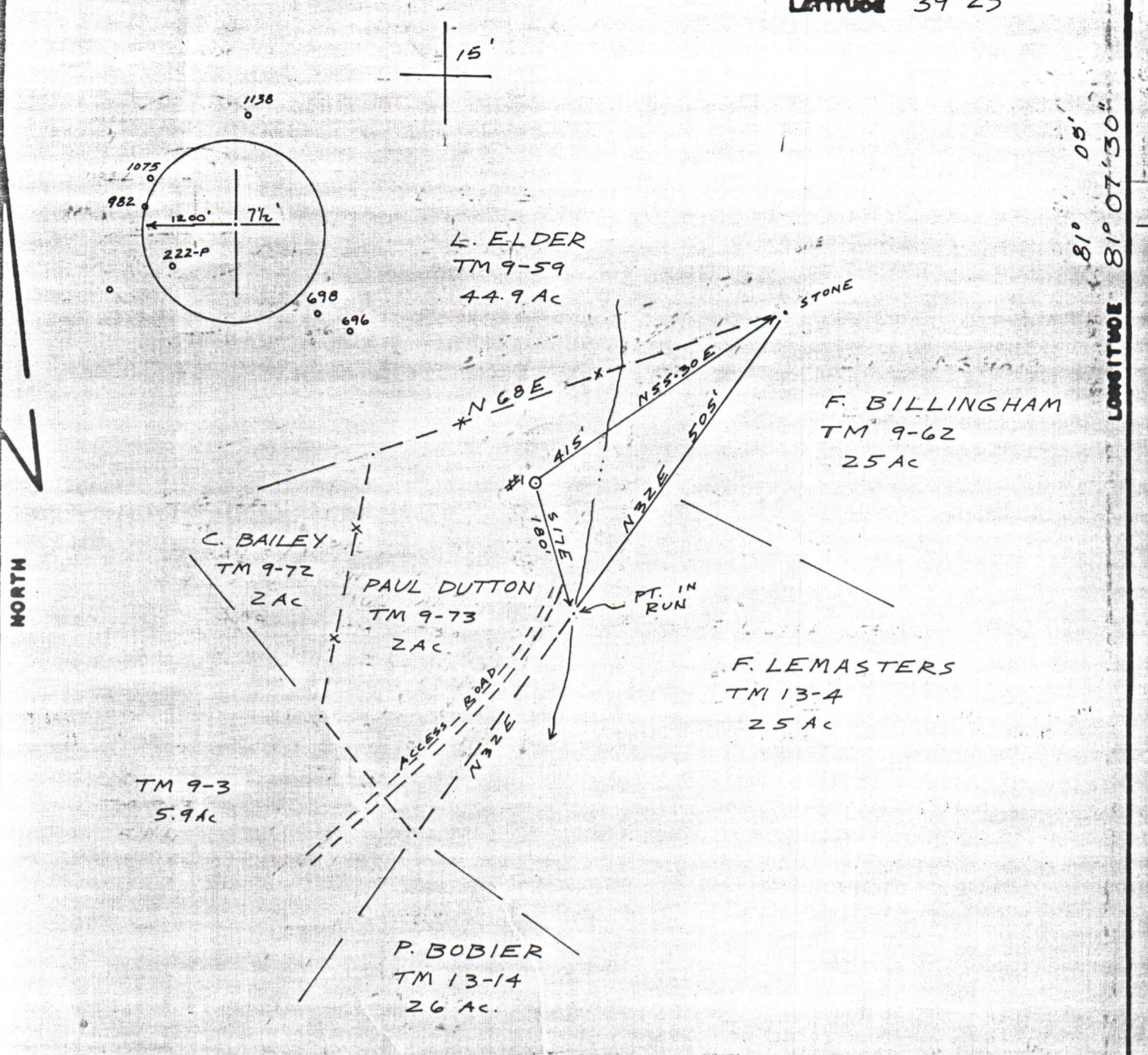
9/29

12,280'

LATITUDE 39°25'

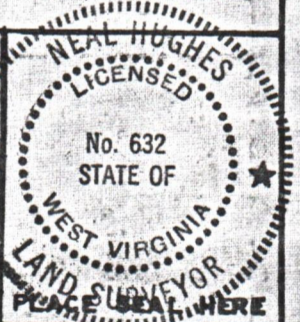
LONGITUDE 81°07'30"

3,400'



FILE NO. 81-37
 DRAWING NO. 1
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION KNOB 855

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) Neal Hughes
 R.P.E. _____ L.L.S. 632



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



DATE SEPT 14, 19 81
 OPERATOR'S WELL NO. P. DUTTON
 API WELL NO. NO. 1
47 - 073 - 1326
 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 665 WATER SHED M.I. CREEK
 DISTRICT UNION COUNTY PLEASANTS
 QUADRANGLE RAVEN ROCK 7.5
 SURFACE OWNER PAUL DUTTON ACREAGE 2
 OIL & GAS ROYALTY OWNER PAUL DUTTON LEASE ACREAGE 2
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEV. SHALE ESTIMATED DEPTH 4850
 WELL OPERATOR BISON, INC. DESIGNATED AGENT HAROLD WILSON
 ADDRESS RT. 2 BOX 83 ADDRESS RT. 2 BOX 83
ST. MARYS, W.V. ST. MARYS, W.V.