



IV-35
(Rev 8-81)

RECEIVED
SEP 26 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 9, 1982
Operator's Well No. Fitzwater No.1
Farm Rodney Fitzwater
API No. 47-073 - 1421

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 ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1046 Watershed Ohio River
District: McKim County Pleasants Quadrangle Ellenboro 7.5'

COMPANY Geophysical Properties
ADDRESS 401 Highview Place, Morgantown, WV 26505
DESIGNATED AGENT L. Z. Shuck
ADDRESS 401 Highview Place
Morgantown, WV 26505
SURFACE OWNER Rodney Fitzwater
ADDRESS W.Va Route 16, South St. Marys, WV
MINERAL RIGHTS OWNER Rodney Fitzwater
ADDRESS W.Va. Route 16, South St. Marys, WV

OIL AND GAS INSPECTOR FOR THIS WORK
Phillip Tracy ADDRESS Rt. 23, Alma, WV 26320
PERMIT ISSUED January 12, 1982
DRILLING COMMENCED January 15, 1982
DRILLING COMPLETED January 22, 1982

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. 11-3/4 13-10"	20'	20'	to surface
9 5/8			
8 5/8			
7	1182'	1182'	(313 cubic ft. to surface)
5 1/2			
4 1/2	5107	5107	5115' up to 2900'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5126 feet
Depth of completed well 5107 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 75' feet; Salt - feet
Coal seam depths: N/A Is coal being mined in the area? No.

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3310' to 4968' feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 500 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 840 psig (surface measurement) after 24 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)

PLEASANTS 1721

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

Perforations: 240 from 3310' to 4968'

Six million cubic feet nitrogen frac

400

(E)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
			0	1502	
			1502	1533	
			1533	1575	
			1575	1610	
			1610	1642	
282		SALT SAND	1642	1848	1672
		Shale	1848	1900	
		Sand	1900	2003	
		Shale	2003	2012	
365		Sand BIG INJUN	2012	2035	
		Shale	2035	2350	
395		Sandstone(Berea)	2350	2360	
		Devonian Shale	2360	2805	
414		GORDON	2805	2811	
		SHALE	2811	4740	
434		RILEY	4740	4752	
		SHALE	4752	4952	
435		BENSON	4952	4959	
		SHALE	4959	5115 TD	

(Attach separate sheets as necessary)

DEPT. OF MINES
OIL & GAS DIVISION
SEP 26 1984
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Geophysical Properties, 401 Highview Place, Morgantown, W
Well Operator

By: L. Z. Shuck

L. Z. Shuck

Date: 10-9-82

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."



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL-TYPE: Oil ___ / Gas X /

(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow ___ /

LOCATION: Elevation: 1046' Watershed: _____
District: McKim County: Pleasants Quadrangle: Ellenboro 7.5'

WELL OPERATOR Gene Stalnaker, Inc.
Address P.O. Box 178
Glenville, WV 26351

DESIGNATED AGENT Gene Stalnaker
Address P.O. Box 178
Glenville, WV 26351

OIL AND GAS
ROYALTY OWNER Rodney Fitzwater et al
Address Rt. 1, Box 299
St. Marys, W.Va. 26170
Acreage 35.5

COAL OPERATOR n/a
Address _____

SURFACE OWNER Rodney Fitzwater et al
Address _____
Acreage 35.5

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME n/a
Address _____
NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME n/a
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME n/a
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip L. Tracy
Address Rt. 23
Alma, WV 26320
Telephone 758-4573

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JAN 12 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated 10/31, 1981, to the undersigned well operator from Rodney D. Fitzwater et al.

(If said deed, lease, or other contract has been recorded:)

Recorded on _____, 19___, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 169 Book at page 300. A permit is requested as follows:

PROPOSED WORK: Drill X / 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Gene Stalnaker, Inc.
Well Operator

By: Gene Stalnaker
Its: President

BLANKET BOND

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Gene Stalnaker, Inc.
Address P.O. Box 178
Glenville, WV 26351

GEOLOGICAL TARGET FORMATION Devonian
Estimated depth of completed well 5600 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 75 feet; salt, feet.
Approximate coal seam depths: n/a
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	11-3/4					20'	20'		Kinds
Fresh water	7"			X		1200'	1200'	Required amount	Sizes
Coal									
Intermed.									
Production Tubing	4 1/2"			X			5600'	5560 Scks or Required amount	depths set
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, of the W. Va. Code, the location is hereby approved for drilling operations.

This permit shall expire if operations have not commenced by 9-21-82

J. P. Hargrett
Deputy Director - Oil & Gas Division

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:

W A I V E R

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 regularions.

Date: , 19 .

By:

Its:



823

IV-9
(Rev 8-81)

DATE December 18, 1981

WELL NO. 1

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47-073-1421

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Gene Stalnaker, Inc.
Address P.O. Box 178, Glenville, WV
Telephone 304-462-5701

DESIGNATED AGENT Gene Stalnaker
Address P.O. Box 178, Glenville, WV
Telephone 304-462-5701

LANDOWNER Rodney Fitzwater, et. al.

SOIL CONS. DISTRICT Upper Ohio SCD
(Agent)

Revegetation to be carried out by Gene Stalnaker, Inc.

This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan: 1/6/82
(Date)
Kenneth R. Mason
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Diversion ditch (A)
Spacing 100
Page Ref. Manual 1:3,4,5

Structure Diversion ditch (1)
Material Earthen
Page Ref. Manual 1:11

Structure Sediment Barriers (B)
Spacing N/A
Page Ref. Manual 1:15

Structure Sediment Barriers (2)
Material Brush or stone
Page Ref. Manual 1:15

Structure Stream crossing (C)
Spacing _____
Page Ref. Manual 1:18

Structure _____
Material _____
Page Ref. Manual _____

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

REVEGETATION

Treatment Area I & II

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Ky - 31 35 lbs/acre
_____ lbs/acre
Crownvetch 10 lbs/acre

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.


NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

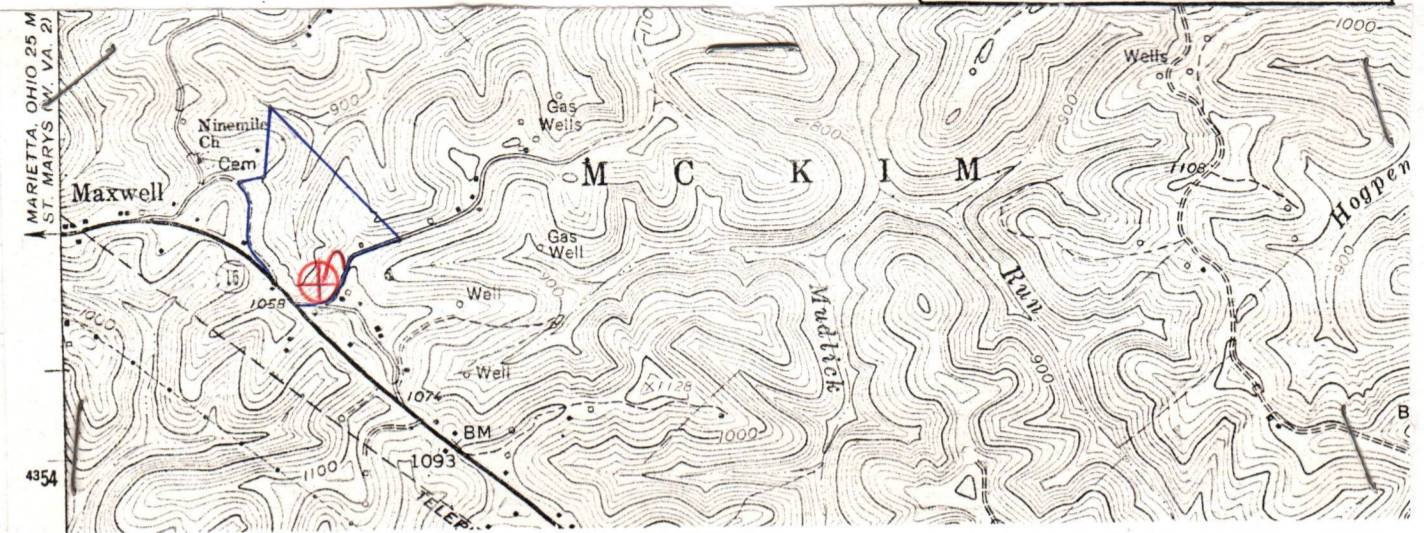
PLAN PREPARED BY Technology Development, Inc.
ADDRESS 208 High View Place
Morgantown, WV 26505
PHONE NO. 304-292-7590

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Ellenboro 7.5'

LEGEND

Well Site 


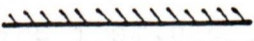


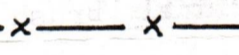

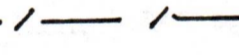

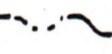
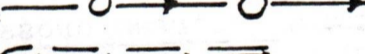
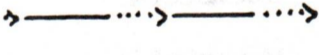
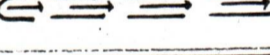
Access Road 

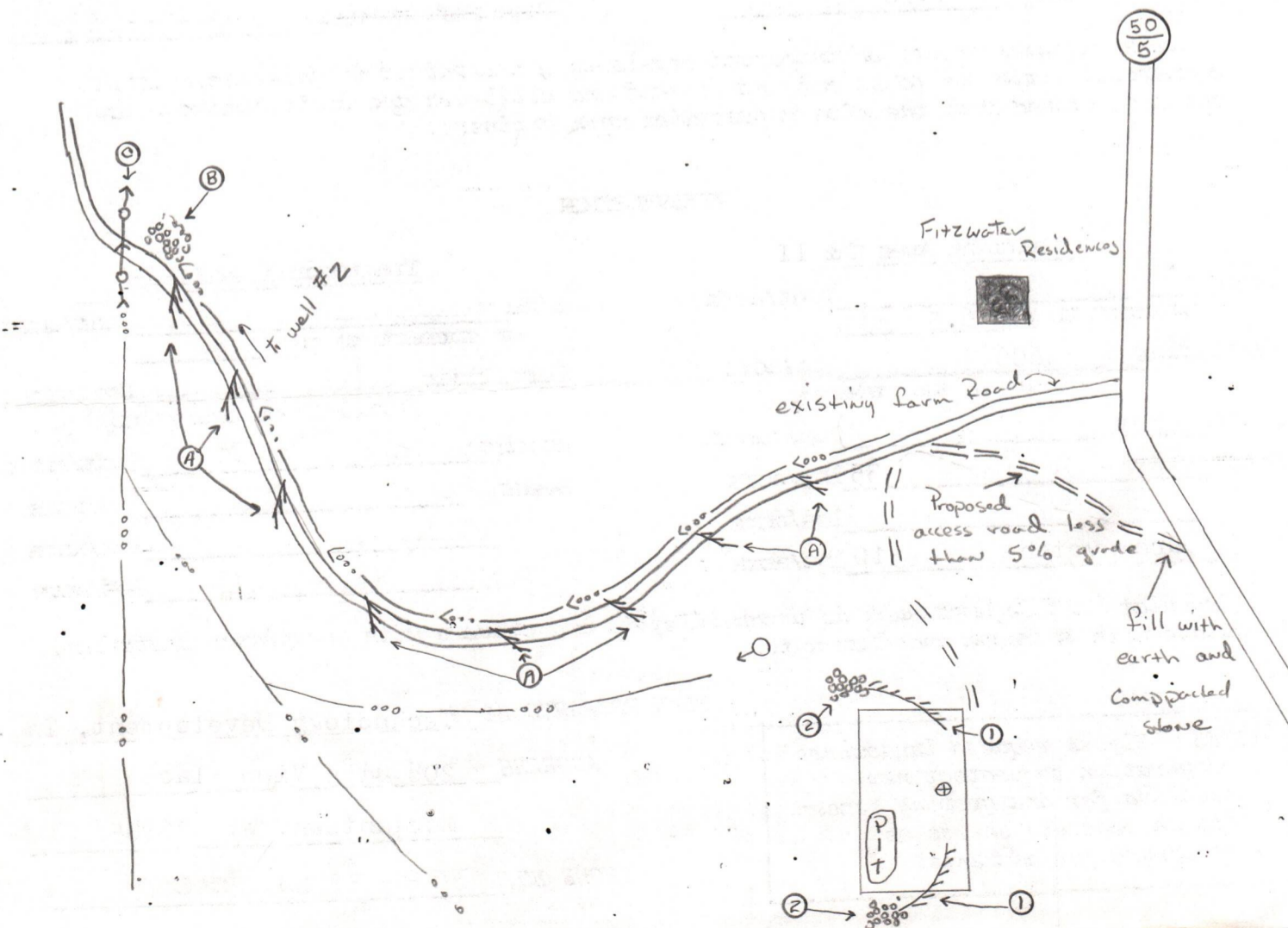


WELL SITE PLAN

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

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



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

INSPECTOR'S WELL REPORT

Permit No. 47-073-1421

Oil or Gas Well _____
(KIND)

Company Gene Italsaker INC
Address P.O. Box 178
Glennville W. Va
Farm Rodney Filzwater
Well No. 1
District Mc Kim County Pleasant

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 ^{5/8}	1167	1167	
6 ^{5/8}			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

Drilling commenced _____
Drilling completed _____ Total depth 1188
Date shot _____ Depth of shot _____
Initial open flow _____ /10ths Water in _____ Inch
Open flow after tubing _____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING CEMENTED 8^{5/8} SIZE 1167 No. FT. 218-82 Date
NAME OF SERVICE COMPANY Haliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Ivan nichols Tool Pusher
CO. owned Rig #6
Remarks:

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FEB 22 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

2-18-82

Robert Lowther 512

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

58-87-2

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

INSPECTOR'S WELL REPORT

Permit No. 47-073-1421

Oil or Gas Well _____
(KIND)

Company <u>Gene Stalnaker inc</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Glenville W. Va.</u>	Size			
Farm <u>Rodney Filzwater</u>	16			Kind of Packer
Well No. _____	13			
District <u>McKim</u> County <u>Pleasant</u>	10			Size of
Drilling commenced _____	8 1/4	<u>1188</u>	<u>1188</u>	
Drilling completed <u>2-21-82</u> Total depth <u>5109</u>	6 3/8			Depth set
Date shot _____ Depth of shot _____	<u>4 5/8</u>	<u>5100</u>	<u>5100</u>	
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used	RECEIVED FEB 26 1982 OIL AND GAS DIVISION WV DEPARTMENT OF MINES		Perf. top
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>5100</u> SIZE <u>4 1/2</u> No. FT. <u>2-2282</u> Date			Perf. bottom
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Ivan nichols Tool pusher
CO contractor

Remarks:

2-27-82

Robert Lowther 512

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner _____ Location _____ Amount _____ Packer _____ Location _____

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

08-56-C



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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
October 22, 1984

COMPANY Gene Stalnaker, Inc.
P. O. Box 178
Glenville, West Virginia 26351

PERMIT NO 073-1421
FARM & WELL NO Rodney Fitzwater #1
DIST. & COUNTY McKim/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 Nov 1, 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. [Signature]
Administrator-Oil & Gas Division

January 9, 1985

DATE

1.0 API well number
(If not available, leave blank. 14 digits.) 47-073-1421

2.0 Type of determination being sought:
(Use the codes found on the front of this form.) 103
Section of NGPA

3.0 Use the line deepest completion location:
(Only needed if sections 103 or 107 in 2.0 above.) 4968 feet OCT 25 1982

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)
Name Geophysical Properties, Inc.
Street 401 Highview Place
City Morgantown, W. Va. State W. Va. Zip Code 26505

5.0 Location of this well: [Complete (a) or (b).]
(a) For onshore wells (35 letters maximum for field name.)
Field Name McKim District
County Pleasants County State W. Va.

(b) For OCS wells:
Area Name N/A Block Number _____
Date of Lease: _____
Mo. Day Yr. _____ OCS Lease Number _____

(c) Name and identification number of this well: (35 letters and digits maximum.)
Rodney Fitzwater No.1

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)
N/A

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)
Name Haight, Inc. Buyer Code _____

(b) Date of the contract:
6 1 82
Mo. Day Yr.

(c) Estimated annual production:
20 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>5.252</u>	-----	-----	<u>5.252</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>5.252</u>	-----	-----	<u>5.252</u>

9.0 Person responsible for this application:
Name L. Zane Shuck, Title Vice President and Treasurer
Signature [Signature]
Date Application is Completed April 2, 1982 Phone Number 304-292-7590

Agency Use Only
Date Received by this Agency OCT 25 1982
Date Recd. by FERC _____

OIL & GAS DIVISION
DEPT. OF MINES

PARTICIPANTS:

DATE: FEB 16 1983

BUYER-SELLER CODE

WELL OPERATOR: Geophysical Properties, Inc.
FIRST PURCHASER: Haught, Inc.
OTHER:

BUYER-SELLER CODE
-
-
-

1500'

Qual [Signature]

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
821025-103-073=1421
Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 [check] Items not completed - Line No. 7.0 + 8.0 b/c
2. IV-1 Agent L. Z. Shuck
3. IV-2 Well Permit -
4. IV-6 Well Plat [check]
5. IV-35 Well Record [check] Drilling [check] 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? [check]
10-17. IV Form 51 - 52 - 53 - 54 55 - 56 - 57 - 58 Complete? [check] Affidavit Signed [check]
18-28. Other: Survey - Logs - Geological Charts -
Structure Map - 1: 4000 Map - Well Tabulations -
Gas Analyses -
(5) Date commenced: 1-15-82 Date completed 1-22-82 Deepened -
(5) Production Depth: 3310-4968
(5) Production Formation: Devonian Shale
(5) Final Open Flow: 500 MCF
(5) After Frac. R. P. 840# 24 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 Rep
(5) Oil Production: From Completion Report
10-17. Does lease inventory indicate enhanced recovery being done No
10-17. Is affidavit signed? [check] Notarized? [check]
Does official well record with the Department confirm the submitted information? Yes
Additional information Does computer program confirm?
Was Determination Objected to By Whom?

YB

STATE APPLICATION FOR WELL CLASSIFICATION

Operator's Well No. Fitzwater No. 1
API Well No. 073 1421
State County Perm
Previous File No.
(If Applicable)

WELL OPERATOR Geophysical Properties
ADDRESS 401 Highview Place
Morgantown, WV 26505

DESIGNATED AGENT L. Z. Shuck
ADDRESS 401 Highview Place
Morgantown, WV 26505

Gas Purchase Contract No. 25283 and Date June 1, 1982
(Month, day and year)

Master Chart Code
Name of First Purchaser Haught, Inc.
5825 Emerson Avenue or 4424 Emerson Avenue, Zip 26104
(Street or P. O. Box)
Parkersburg, WV 26178
(City) (State) (Zip Code)

FERC Seller Code FERC Buyer Code

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 103 Section of NGPA Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

L. Zane Shuck President
Name (Print) Title
[Signature]
Signature
401 Highview Place
Street or P. O. Box
Morgantown, WV 26505
City State (Zip Code)
(304) 292-7590
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); 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 , 1982 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

OCT 25 1982

Date received by
Jurisdictional Agency

By [Signature]
Title

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

Operator's Well No. Fitzwater No. 1

API Well No. 47 State 073 County 1421 Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT L. Z. Shuck
ADDRESS 401 Highview Place
Morgantown, WV 26505

WELL OPERATOR Geophysical Properties
ADDRESS 401 Highview Place
Morgantown, WV 26505

LOCATION: Elevation 1046
Watershed Ohio River
Dist. McKim County Pleasants Quad Ellenboro 7.5'

GAS PURCHASER Haught, Inc.
ADDRESS 4424 Emerson Avenue,
Parkersburg, WV 26104

Gas Purchase Contract No. Haught, Inc. (no number)
Meter Chart Code _____
Date of Contract June 1, 1982

* * * * *

Date surface drilling was begun: January 15, 1982

Indicate the bottom hole pressure of the well and explain how this was calculated:
 $P_{bh} = P_s e^{GD/53.34T}$ where P_s = surface pressure, G = specific gravity, D = deepest producing zone depth
and $T = 460 + t(^{\circ}F)$
 $P_{bh} = 840 e^{(.6)(4968)/53.34(561)}$
 $P_{bh} = 927.98$ psi

AFFIDAVIT
I, L. Z. Shuck, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

L. Z. Shuck

STATE OF WEST VIRGINIA.
COUNTY OF MORGANTOWN, TO WIT:
I, John Lawrence Strickland, a Notary Public in and for the state and county aforesaid, do certify that L. Z. SHUCK, whose name is signed to the writing above bearing date the 9 day of October, 1982, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 18 day of October, 1982. My term of office expires on the 28 day of August, 1985.

[NOTARIAL SEAL]

John Lawrence Strickland
Notary Public

1.0 API well number: (If not available, leave blank. 14 digits.)	47-073-1421								
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	Section of NGPA: <u>107</u> Category Code: <u>3</u>								
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>4968</u> feet								
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Geophysical Properties, Inc.</u> Name <u>401 Highview Place</u> Street <u>Morgantown, W.Va. 26505</u> City State Zip Code Seller Code: _____								
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>McKim District</u> Field Name <u>Pleasants County</u> County <u>W.Va.</u> State								
(b) For OCS wells:	<u>N/A</u> Area Name Block Number Date of Lease: _____ Mo. Day Yr. OCS Lease Number								
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Rodney Fitzwater No.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>Haught, Inc.</u> Name Buyer Code								
(b) Date of the contract:	<u>6 1 82</u> Mo. Day Yr.								
(c) Estimated annual production:	<u>20</u> MMcf.								
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">(a) Base Price (\$/MMBTU)</th> <th style="width:20%;">(b) Tax</th> <th style="width:20%;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="width:30%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>5.252</u></td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;"><u>5.252</u></td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	<u>5.252</u>	---	---	<u>5.252</u>
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)						
<u>5.252</u>	---	---	<u>5.252</u>						
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;"><u>5.252</u></td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;"><u>5.252</u></td> </tr> </tbody> </table>	<u>5.252</u>	---	---	<u>5.252</u>				
<u>5.252</u>	---	---	<u>5.252</u>						
9.0 Person responsible for this application:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; padding: 5px;"> Agency Use Only Date Received by Agency OCT 25 1982 Date Received by FERC </td> <td style="padding: 5px;"> <u>L. Zane Shuck</u>, Vice President and Treasurer Name Title <u>L. Zane Shuck</u> Signature <u>April 2, 1982</u> Date Application is Completed <u>304-292-7590</u> Phone Number </td> </tr> </table>	Agency Use Only Date Received by Agency OCT 25 1982 Date Received by FERC	<u>L. Zane Shuck</u> , Vice President and Treasurer Name Title <u>L. Zane Shuck</u> Signature <u>April 2, 1982</u> Date Application is Completed <u>304-292-7590</u> Phone Number						
Agency Use Only Date Received by Agency OCT 25 1982 Date Received by FERC	<u>L. Zane Shuck</u> , Vice President and Treasurer Name Title <u>L. Zane Shuck</u> Signature <u>April 2, 1982</u> Date Application is Completed <u>304-292-7590</u> Phone Number								

PARTICIPANTS:

DATE: FEB 16 1983

BUYER-SELLER CODE

WELL OPERATOR: Geophysical Properties, Inc.

FIRST PURCHASER: Haught, Inc.

OTHER:

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
821025-107-073-1421
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~DEFERRED~~
 need affidavit
 QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 7.0 + 8.0 b/c
- 2. IV-1 Agent L. Z. Shuck
- 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: 1-15-82 Date completed 1-22-82 Deepened -
- (5) Production Depth: 3310-4968
- (5) Production Formation: Devonian Shale
- (5) Final Open Flow: 500 MCF
- (5) After Frac. R. P. 840# 24 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 Rep -
- (5) Oil Production: - From Completion Report -
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 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? -

YB

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

WELL OPERATOR Geophysical Properties
ADDRESS 401 Highview Place Morgantown, WV 26505

DESIGNATED AGENT L. Z. Shuck
ADDRESS 401 Highview Place Morgantown, WV 26505

Gas Purchase Contract No. 25283 and Date June 1, 1982
(Month, day and year)

Meter Chart Code
Name of First Purchaser Haught, Inc.
5825 Emerson Avenue or 4424 Emerson Avenue, Zip 26104
(Parkway or P. O. Box)
Parkersburg, WV 26178
(City) (State) (Zip Code)

FERC Seller Code FERC Buyer Code

TYPE OF DETERMINATION BEING SOUGHT:

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

L. Z. Shuck President
Name (Print) Title
Signature
401 Highview Place
Morgantown, WV 26505
City State (Zip Code)
(304) 292-7590
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 107 under the Natural Gas Policy Act of 1976 (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 1982 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.

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

OCT 25 1982

Date received by Jurisdictional Agency

By [Signature] Title

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Fitzwater No.1
API Well No. 47-073-1421
47 - 073 - 1421
State County Permit

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

DESIGNATED AGENT L. Z. Shuck
401 Highview Place
ADDRESS Morgantown, WV 26505

LOCATION Elevation 1046
Watershed Ohio River

WELL OPERATOR Geophysical Properties
25 West 43rd Street, Suite 310
ADDRESS New York, N.Y. 10036

Dist. McKim County Pleasant Quad. Ellenboro 7.5'

Gas Purchase Haught, Inc.
Contract No. _____

GAS PURCHASER Haught, Inc.
4424 Emerson Avenue
ADDRESS Parkersburg, WV 26104

Meter Chart Code _____

Date of Contract June 1, 1982

* * * * *

Date surface drilling began: January 15, 1982

Indicate the bottom hole pressure of the well and explain how this was calculated.
 $P_{bh} = P_s e^{GD/53.3T}$ where P_s = surface pressure, G = specific gravity, D = deepest producing zone depth, and $T = 460 + t(^{\circ}F)$

$P_{bh} = 840 e^{(.6)(4968)/(53.34)(561)}$

$P_{bh} = 927.98$ psi

AFFIDAVIT

I, L. Zane Shuck, 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 in 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.

L. Zane Shuck

STATE OF WEST VIRGINIA

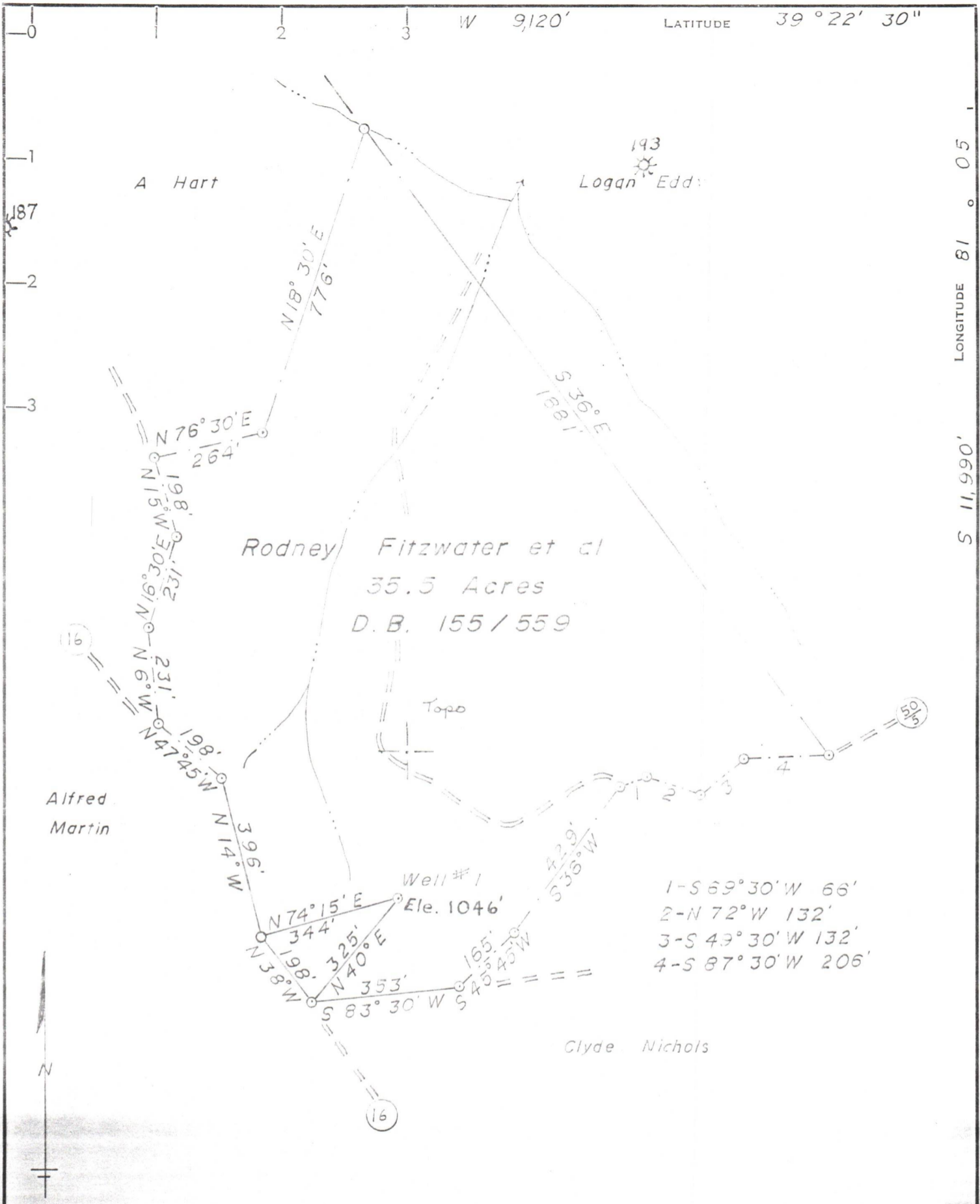
COUNTY OF Monongalia, TO-WIT:

I, Patricia C. DeWeese, a Notary Public in and for the state and county aforesaid, do certify that L. Zane Shuck, whose name is signed to the writing above, bearing date the 7th day of August, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 9th day of August, 1983.
My term of office expires on the 16th day of September, 1986.

(NOTARIAL SEAL)

Patricia C. DeWeese
Notary Public



CERTIFICATE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
 Minimum degree of accuracy is one part in 200
 Signed J. B. Clark, P.E. 4596

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY Gene Stalnaker, Inc.
 ADDRESS P O Box 178 Glenville, WV
 FARM Rodney Fitzwater et al
 MAP _____ ACRES 35.5 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 1046'
 QUADRANGLE Ellenboro 7.5
 COUNTY Pleasants DISTRICT McKim
 POINT OF PROVEN ELEVATION Road Intersection
Elevation 1058'
 FILE NO. _____ DRAWING NO. _____
 DATE 12-2-81 SCALE 1" = 300'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-073-1421
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC
 MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES
 BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

Sheet - Alluvium