



1) Date: April 2, 19 85
 2) Operator's Well No. Costilow #1
 3) API Well No. 47 - 033-3196
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 990' Watershed: Simpson Creek
 District: Simpson 8 County: Harrison Quadrangle: Rosemont 587
- 6) WELL OPERATOR Sheldon & Sheldon, Inc. 7) DESIGNATED AGENT David J. Sheldon
 Address 901 W. Main St., Suite 201 Address Same
Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Steve Casey Name unknown
 Address Rt. 2, Box 232D Address _____
Jane Lew, WV 26378
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 4700 feet
- 13) Approximate trata depths: Fresh, 75 feet; salt, _____ feet.
- 14) Approximate coal seam depths: 60'; 450'; 600' Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM 720' and 780'

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 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11-3/4	H44	42		X	30	30		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8	J55	20	X		825	825	to surface	Neat
Production	4-1/2	J55	10.5	x		4350	4350	250 scs.	Depths set Or as req. by rule 15.01
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3196 Date April 29, 19 85

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

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

Permit expires April 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>139</u>	<u>SW</u>	<u>MM</u>	<u>MM</u>	<u>2582</u>

Margaret J. Hassel
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

Reverse



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL LOCATION: B (If Gas, Production) / Shallow / Deep / Underground storage / Washed / Unwashed / Cased / Open / Other

2) WELL OPERATOR: Section 21000 & 22000, Inc. / Address: 301 W. Main St., State 201 / City: Parkersburg, W. 26101

3) DRILLING CONTRACTOR: Name: [] / Address: []

4) PROPOSED WELL WORK: Drill / Redrill / Replug / Other physical change in well (specify): []

5) GEOLOGICAL TARGET FORMATION: []

6) APPROXIMATE DEPTH OF COMPLETED WELL: []

7) APPROXIMATE TEST DEPTH: []

8) APPROXIMATE COAL SEAM DEPTH: []

9) CASING AND TUBING PROGRAM: []

Casing or Tubing Type	Size	Weight	Length	Joints	Cemented	Packers	Other	Footage Interval	
								Start	End
Production	4 1/2"	10.8	100	0	X			825	825
Intermediate	6"	22	100	0	X			825	825
Case	8"	30	100	0	X			825	825

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Hand	Acct	Flar	Casing	Fee
131	8w			

SURFACE OWNER'S COPY

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APR 12 1985



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 2) Operator's Well No. Castillon #1
 3) API Well No. 47 033 - 3196
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 990' Watershed: Simpson Creek
 District: Simpson County: Harrison Quadrangle: Rosemont
- 6) WELL OPERATOR Sheldon & Sheldon, Inc. 7) DESIGNATED AGENT David I. Sheldon
 Address 901 W. Main St., Suite 201 Address Same
Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Steve Casey Name unknown
 Address Rt. 2, Box 232D Address
Jana Lev, WV 26378
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation X /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Reason
- 12) Estimated depth of completed well, 4700 feet
 13) Approximate trata depths: Fresh, 75 feet; salt, feet.
 14) Approximate coal seam depths: 60'; 450'; 600' Is coal being mined in the area? Yes / No X
- 15) CASING AND TUBING PROGRAM 720' and 780'

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor	<u>1-3/4</u>	<u>N44</u>	<u>42</u>		<u>X</u>		
Fresh water						<u>30</u>	Kinds
Coal						<u>30</u>	
Intermediate	<u>5/8</u>	<u>I55</u>	<u>20</u>	<u>X</u>		<u>825</u>	Sizes
Production	<u>1-1/2</u>	<u>I55</u>	<u>10.5</u>	<u>X</u>		<u>4350</u>	to surface <u>Neat</u>
Tubing						<u>250</u>	Depths set <u>by rule 15.03</u>
Liners							Perforations:
							Top
							Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME:
 By
 Its Date

George C. Sand Date: 4-10-85
 (Signature)
 Date:
 (Signature)
Agent

**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- “(1) The proposed well work will constitute a hazard to the safety of persons; or
- “(2) The plan for soil erosion and sediment control is not adequate or effective; or
- “(3) Damage would occur to publicly owned lands or resources; or
- “(4) The proposed well work fails to protect fresh water sources or supplies.”

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Mary M. Costilow & Lena Winter	Sheldon & Sheldon, Inc.	1/8	DB 1147, P 670



1) Date: April 9, 1985
2) Operator's Well No. COSTILOW #1
3) API Well No. 47-033-3196
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name George Sandy
Address Rt. 1, Box 119
Bridgeport, WV 26330
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR N/A
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Hillman Coal &Coke Co.
Address Grant Building
Pittsburgh, PA 15219

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

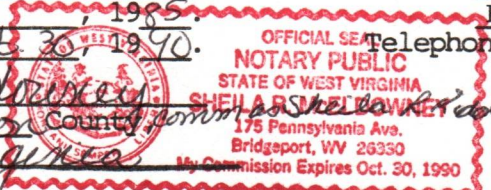
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by David J. Sheldon this 9th day of April, 1985.
My commission expires Oct. 30, 1990.

Sheila K. Meldrum
Notary Public, Barry County, West Virginia
State of West Virginia

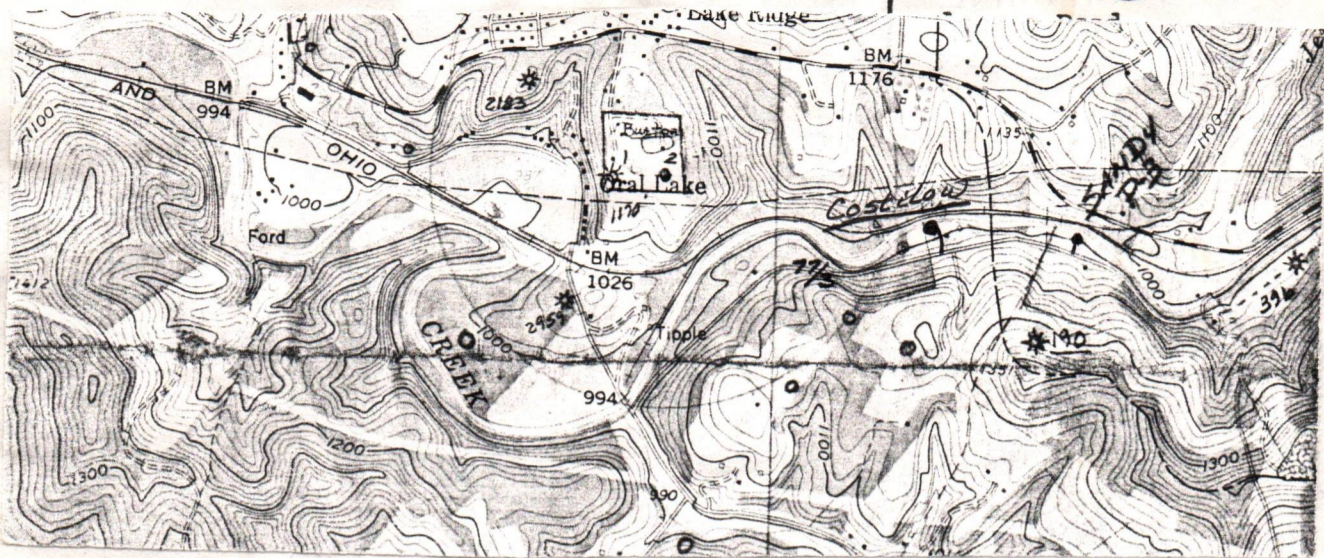


WELL OPERATOR SHELDON AND SHELDON, INC.
By David J. Sheldon
Its President
Address 901 W. Main St., Suite 201
Bridgeport, WV 26330
Telephone (304) 624-4296

OIL & GAS DIVISION
DEPT. OF MINES
APR 12 1985
RECEIVED

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Rosemont

LEGEND
Well Site ⊕



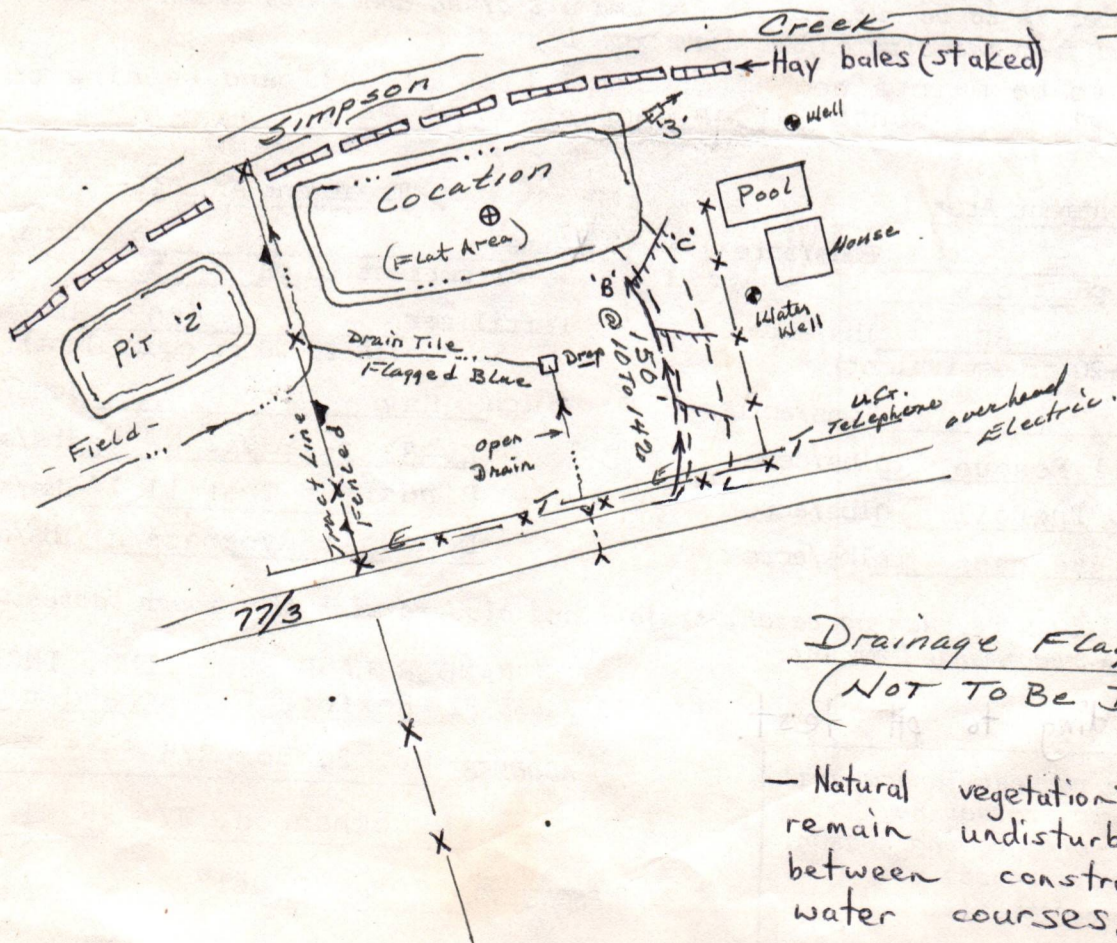
WELL SITE PLAN

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	—x—x—	Wet spot	♂
Planned fence	—/—/—	Building	■
Stream	~ ~ ~ ~	Drain pipe	—○→○→○→
Open ditch	—••••→	Waterway	⇄⇄⇄⇄

- Topsoil to be stock piled for reclamation work.
- ALL CUTS TO BE ON A 2:1 SLOPE UNLESS IN ROCK..
- Place staked hay bales in ditch line for sediment control.



- Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.

RECEIVED



IV-9
(Rev 8-81)

APR 12 1985

DATE 5 February 1985

WELL NO. Costilow # 1

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines

Oil and Gas Division

API NO. 47-033-3196

Rec'd. (WFSCD)

MAR 4 1985

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sheldon & Sheldon, Inc.
Address 118 Westwood Ave.
Bridgeport, WV 26330
Telephone 304-624-4296

DESIGNATED AGENT David J. Sheldon
Address 118 Westwood Ave.
Bridgeport, WV 26330
Telephone 304-624-4296

LANDOWNER George Sandy
Revegetation to be carried out by _____

SOIL CONS. DISTRICT West Fork SCD
Coastal Corp. (Agent)

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 3/22/85
(Date)

Kenneth E Knight
(SCD Agent)

THIS REVIEW IS MADE FOR SITE AS SHOWN. A
CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT.
OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES
THIS PLAN NOT ACCEPTABLE TO WFSCD.

ACCESS ROAD

LOCATION

Structure Culverts (A)
(accord to O&G Manual) (at natural drains)
Spacing AS Shown and as needed.
(15" min. when leaving a State road.)
Page Ref. Manual 2-7 with riprapped outlet

Structure Diversion Ditch (1)
Material soil (2% max. slope)
Page Ref. Manual 2-12

Structure Drainage Ditch (B)
(Inside road cuts)
Spacing To be constructed along road.
Page Ref. Manual 2-12

Structure Drilling Pit (2)
Material Soil
Page Ref. Manual _____

Structure Cross Drains (C)
5%-135' 15%-60'
Spacing 10%-80' 20%-45'
with riprapped outlet
Page Ref. Manual 2-4

Structure Sediment trap (3)
Material Soil
Page Ref. Manual _____

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.

Note: Drainage to be maintained after completion of well and seeding to
commence within 3 months after completion of well.

REVEGETATION

Treatment Area I

Treatment Area II

*lime 3 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 Tall Fescue 30 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Domestic Ryegrass 10 lbs/acre

*lime 3 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 Tall Fescue 30 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Domestic Ryegrass 10 lbs/acre

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

*lime according to pH test.

OSTRANDER LAND SURVEYING, INC.
PLAN PREPARED BY Rexford L. Ostrander

ADDRESS Rt. 2, Box 375-6
Buckhannon, WV 26201

PHONE NO. 304-472-0817

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



SHELDON & SHELDON, INC.

Oil & Gas Exploration & Production

901 W. Main St. • Suite 201 • Bridgeport, WV 26330 • 304-624-4296

037-3196

April 22, 1985

I hereby consent and authorize Sheldon and Sheldon, Inc., to drill and operate a gas well known as the Costilow #1 at a distance of less than Two Hundred Feet (200') from my residence located in Simpson District of Harrison County, as applicable to Chapter and Code No. 22-4-8A.

George E. Sandy
GEORGE SANDY

DEPT. OF MINES
OIL & GAS DIVISION

APR 25 1985

STATE OF WEST VIRGINIA,
COUNTY OF HARRISON, TO-WIT:

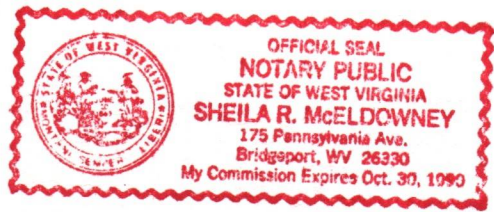
I, Sheila R. McEldowney, A Notary of the said County and State, do hereby certify that GEORGE SANDY, whose name is signed to the foregoing writing, bearing date the 22nd day of April, 1985, has this day acknowledged the same before me in my said County.

Given under my hand this 22nd day of April, 1985.

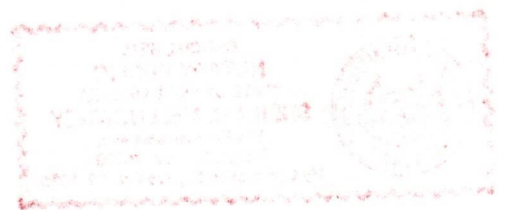
My commission expires: Oct. 30, 1990

Sheila R. McEldowney
NOTARY PUBLIC

COMMISSIONED AS SHEILA R. KIDD



COMMISSIONED AS SHEILA R. KIDD



COAL-OWNER'S COPY
RECEIVED
APR 12 1985



1) Date: April 2, 19 85
2) Operator's Well No. Costlow #1
3) API Well No. 47 State West Virginia County Wayne Permit 033-3196

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 990' Watershed: Simpson Creek
District: Simpson County: Harrison Quadrangle: Rosemont
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Address: 901 W. Main St., Suite 201
Bridgesport, WV 26330
- 7) DESIGNATED AGENT: David J. Sheldon
Address: Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name: Steve Casey
Address: Rt. 2, Box 232D
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:
Name: Unknown
Address: _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 4700 feet
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- 14) Approximate coal seam depths: 60', 450', 600', 720' and 780' Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	Top
Conductor									
Fresh water	<u>11-3/4</u>	<u>H44</u>	<u>42</u>		<input checked="" type="checkbox"/>	<u>30</u>	<u>30</u>		Kinds
Coal									Sizes
Intermediate									
Production	<u>8-5/8</u>	<u>J55</u>	<u>20</u>	<input checked="" type="checkbox"/>		<u>825</u>	<u>825</u>	<u>to surface</u>	Next
Tubing	<u>4-1/2</u>	<u>J55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>4350</u>	<u>4350</u>	<u>250 sec.</u>	Depths set
Liners									Perforations: or as req. by rule 15.01

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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 the receipt of this Application by the Department.

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 the filing of the Application.

WAIVER

The undersigned coal operator [Signature] / 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 regulations.

Date: April 5, 19 85

By Hillman Coal Company
[Signature] X
Its Agent

Coal Owner



IV-35
(Rev 8-81)

Date 07-26-85
Operator's
Well No. Costilow # 1 (S-21)
Farm Costilow
API No. 47 - 033 - 3196

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OCT 11 1985

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPT. OF ENERGY

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 x /)

LOCATION: Elevation: 990' Watershed Simpson Creek
District: Simpson County Harrison Quadrangle Rosemont

COMPANY Sheldon and Sheldon, Inc.

ADDRESS 901 W. Main St. Suite 201 BRPT WV

DESIGNATED AGENT David J. Sheldon

ADDRESS 118 Westwood Ave. BRPT

SURFACE OWNER George Sandy

ADDRESS Rt. 1 Bridgeport, WV 26330

MINERAL RIGHTS OWNER Mary Costilow

ADDRESS 406 Philad Ave. BRPT, WV 26330

OIL AND GAS INSPECTOR FOR THIS WORK

Steve Casey ADDRESS Rt. 2 Box 232-D Jane Lew WV

PERMIT ISSUED 4-2-85

DRILLING COMMENCED 6-11-85

DRILLING COMPLETED 6-17-85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	124'	129'	100scs
9 5/8			
8 5/8	882	882	220scs
7			
5 1/2			
4 1/2		4179	350scs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4106 feet

Depth of completed well 4179 feet Rotary x / Cable Tools

Water strata depth: Fresh 40,75,85 feet; Salt feet

Coal seam depths: 171,217,459 Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4101-4106 feet

Gas: Initial open flow 532 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 516 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1790 psig (surface measurement) after 90 hours shut in
(If applicable due to multiple completion--)

Second producing formation none 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)

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DIVISION OF OIL & GAS

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

Perf - 4101 - 4106 - 13. Hole .39

Fraced using 10,000 # 80-100 Sand, 60,000 # 30-40 Sand, 280bbbls. Water

580 gal Acid, and 700,000 SCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top Soil	Gray	soft	0	25	
Sand & Shale	"	"	25	171	H28 1/2" 40'
Coal	Black	"	171	178	1/2" 75'
Sand & Shale	Gray	"	178	217	2" 85'
Coal	Black	"	217	223	1/4" 265'
Sand & Shale	Gray	"	223	459	
Coal	Black	"	459	463	
Sand & Shale	Gray	"	463	514	
Sand	Gray & White	Hard	514	803	
R.R.	Red	soft	813	811	
Sand & Shale	Gray	"	811	825	
Red Rock	Red	"	825	830	
Sand	Gray	Hard	830	840	
R.R.	Red	soft	840	852	Gas Show 2264
Sand & Shale	Gray & White	Med.	852	925	" " 4019
R.R.	Red	soft	925	950	
Sand & Shale	Gray	"	950	1097	
Big Lime	"	Hard	1097	1142	
Big Inj	"	Med	1142	1260	
Shale & Sand	"	soft	1260	1586	
Sand	White	Hard	1586	1675	
Sand & Shale	Gray	soft	1675	2039	
4th Sand	"	Hard	2039	2069	
Shale	"	soft	2069	2113	
5th Sand	"	Med	2113	2160	
Shale & Sand	"	soft	2160	4080	
Benson Sand	"	"	4080	4107	
Shale	"	"	4103	4271	
			4271	T.D.	

(Attach separate sheets as necessary)

Shelby Shelden, Inc.
Well Operator
By: Shelby Shelden
Date: 7-22-85

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
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 33-3196

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Sheldon + Sheldon</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Sandy</u>	13			
Well No. <u>Castilow 1</u>	10			Size of _____
District <u>Simpson</u> County <u>Harco</u>	8 1/4			
Drilling commenced <u>6-10-85</u>	6%			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water <u>40 75 85</u> feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names CDI 4

Remarks: 11 3/4 125' 100 SKS - BJH

6-12-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT OIL & GAS DIVISION

DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 33-3196

Company Sheldon + Sheldon
 Address _____
 Farm Sandy
 Well No. Costilow 1
 District _____ County Harrison
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 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 AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT 459 FEET 48 INCHES
217 FEET 60 INCHES 171 FEET 84 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names UDI 4

Remarks: 8 5/8 880' 220 SKB, BJH

6-14-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR



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

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Sheldon + Sheldon

PERMIT NO 33-3196 (4-29-85)

FARM & WELL NO Sandy Costlow

DIST. & COUNTY Simpson Harv.

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

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

SIGNED Steve Casey
DATE 10-9-85

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. ...
Administrator-Oil & Gas Division

October 29, 1985

DATE

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number (If not assigned, leave blank. 14 digits.)	47 - 033 - 3196			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	Category Code <u> </u>		
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above)	4,106			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	SHELDON AND SHELDON, INC.			Seller Code: <u> </u>
	Name 901 W. Main St. Suite 201			
	Street Bridgeport, WV			State WV
	City			Zip Code 26330
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name)	Field Name Harrison			
	County WV			
(b) For OCS wells	Block Number <u> </u>			
	Date of Lease			
	Mo. Day Yr.			OCS Lease Number <u> </u>
(c) Name and identification number of this well (35 letters and digits maximum)	Costilow # 1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum)	<u> </u>			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Eastern Pipeline Corporation			
	Name			
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	Million Cubic Feet			
		(a) Base Price	(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.)	S/MMBTU	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	-----	-----	-----
9.0 Person responsible for this application:	SHELDON AND SHELDON, INC.			
Agency Use Only Date Received by Juris. Agency JUL 30 1985 Date Received by FERC	Name	President		Title
	Signature <i>Sheldon</i>		(304) 624-4296	
	Date Application is Completed August 8, 1985		Phone Number	

JUL 30 1985
OIL & GAS DIVISION
DEPT. OF MINES

AUG 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 07-26, 19 85

44675

AGENCY USE ONLY

Applicant's Name: Sheldon and Sheldon, Inc.

Address: 901 W. Main St. Suite 201
Bridgeport, WV 26330

Gas Purchaser Contract No. Pending

Date of Contract Pending
(Month, day and year)

First Purchaser: Eastern American Pipeline Corp.

Address: P.O. Box N.
(Street or P.O. Box)
Glenville, WV 26351
(City) (State) (Zip Code)

FERC Seller Code 103

WELL DETERMINATION FILE NUMBER
850730-1030-033-3196
Use Above File Number on all
Communications Relating to This Well

Designated Agent: David J. Sheldon

Address: 118 Westwood Ave.
Bridgeport, WV 26330

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: David J. Sheldon (Print) President (Title)

Signature: *David J. Sheldon*

Address: 901 W. Main St. Suite 201
(Street or P.O. Box)
Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: 304 (Area Code) 624-4296 (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
 - 103 New Onshore Production Well

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

- 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

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JUL 30 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

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

Date 07-26 1985

Operator's Well No. Costilow # 1 (S-21)

API Well No. 47 - 033 - 3196
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT David J. Sheldon
ADDRESS 118 Westwood Ave. Bridgeport, WV 26330

WELL OPERATOR Sheldon and Sheldon
ADDRESS 901 W. Main St. Suite 201
Bridgeport, WV 26330

LOCATION: Elevation 990'
Watershed Simpson Creek
Dist. Simpson County Harrison Quad. Rosemont

GAS PURCHASER Hope Natural Gas Co.
ADDRESS _____

Gas Purchase Contract No. Pending
Meter Chart Code Pending
Date of Contract Pending

* * * * *

Date surface drilling was begun: 6-11-85

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

P ₁ =	Rock Pressure	=	1790	
T =	Temp.	=	511	
G =	SC	=	.81	
L =	Length	=	4104	
X =	.81 x 4104	=	3324	= .122
	53.34 x 511	=	27256.74	
X =	.122	=	1.1275	
B.H.P. =	1790 x 1.1275	=	2018	
B.H.P. =	2018 P.S.I.			

AFFIDAVIT

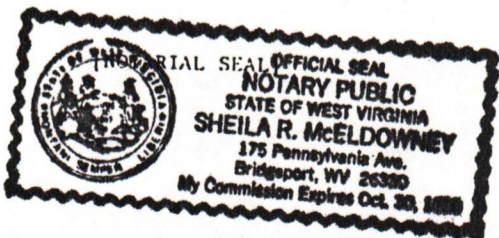
I, David J. Sheldon, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in 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.

STATE OF WEST VIRGINIA,
COUNTY OF HARRISON TO WIT:

I, Sheila R. McEldowney a Notary Public in and for the state and county aforesaid, do certify that David J. Sheldon, whose name is signed to the writing above, bearing date the 26th day of July, 19 85, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 26th day of July, 19 85.

My term of office expires on the 30th day of October, 19 90.



Sheila R. McEldowney
Notary Public
Commissioned as Sheila R. Kidd

4-12-85

10,150'

LATITUDE 39° 17' 30"

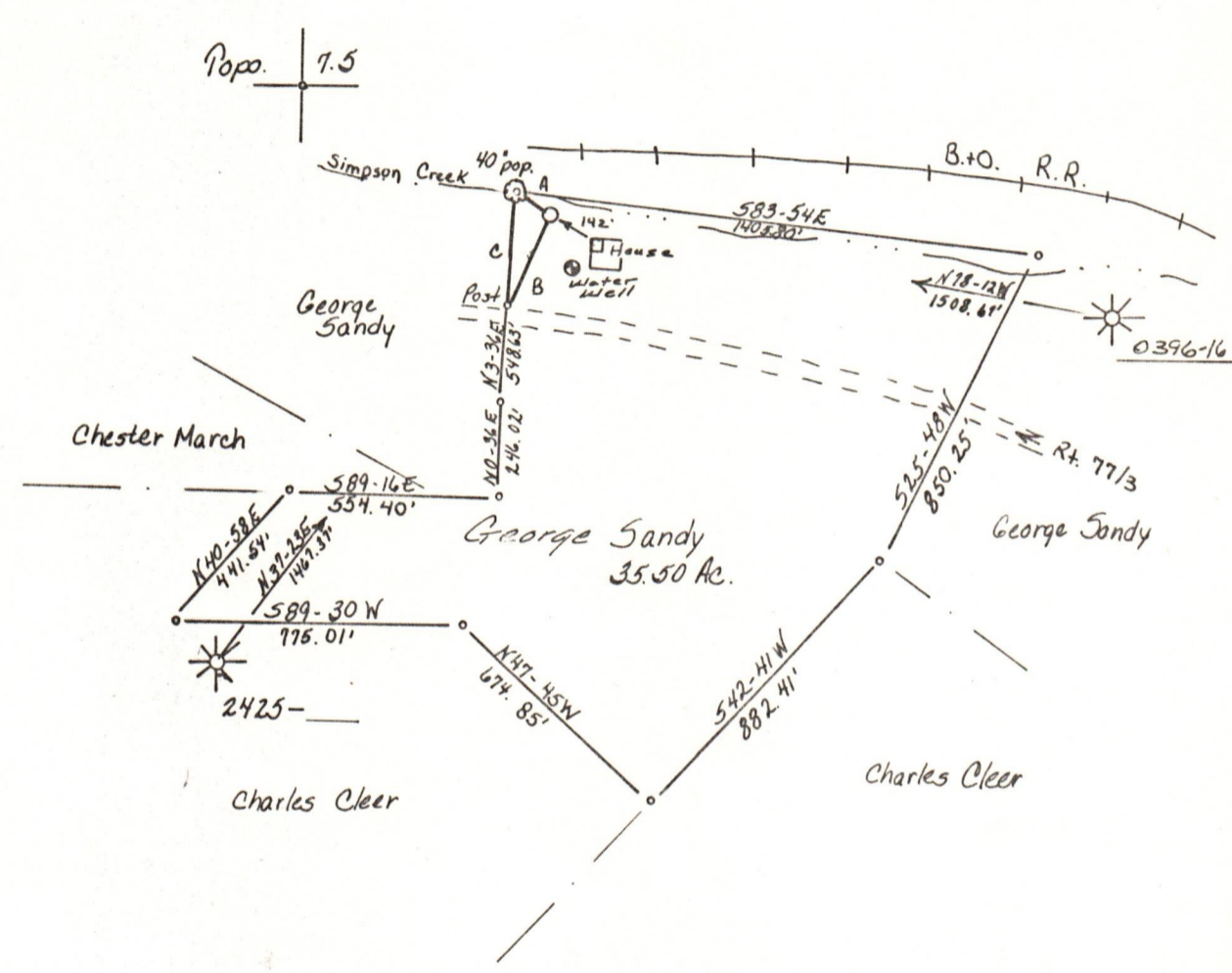
LONGITUDE 80° 10' 00"

6,300'

Reference Lines same as Location Ties.

- A. 555-26E, 114.51'
- B. N27-09E, 269.52'
- C. N05-23E, 306.14'

NORTH



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

FILE NO. 466.01
 DRAWING NO. 85-3
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS Bm 1005' at Rosemont, Rosemont Quad.

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) Rayford S. Ostrowski
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE February 5, 1985
 OPERATOR'S WELL NO. Sandy
 API WELL NO. Costilow #1
47 - 033 - 3196
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 990' WATERSHED Simpson Creek
 DISTRICT Simpson COUNTY Harrison
 QUADRANGLE Rosemont

SURFACE OWNER George Sandy ACREAGE 35.8
 OIL & GAS ROYALTY OWNER Costilow LEASE ACREAGE 35.8

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 BENSON ESTIMATED DEPTH 4300'

WELL OPERATOR Sheldon & Sheldon, Inc. DESIGNATED AGENT David J. Sheldon
 ADDRESS 118 Westwood ADDRESS 118 Westwood Ave.
Bridgeport, W. Va. 26330 Bridgeport, W. Va. 26330

COUNTY NAME 033

PERMIT 3196