

Latitude 38° 45' 0"

Longitude 81° 05'

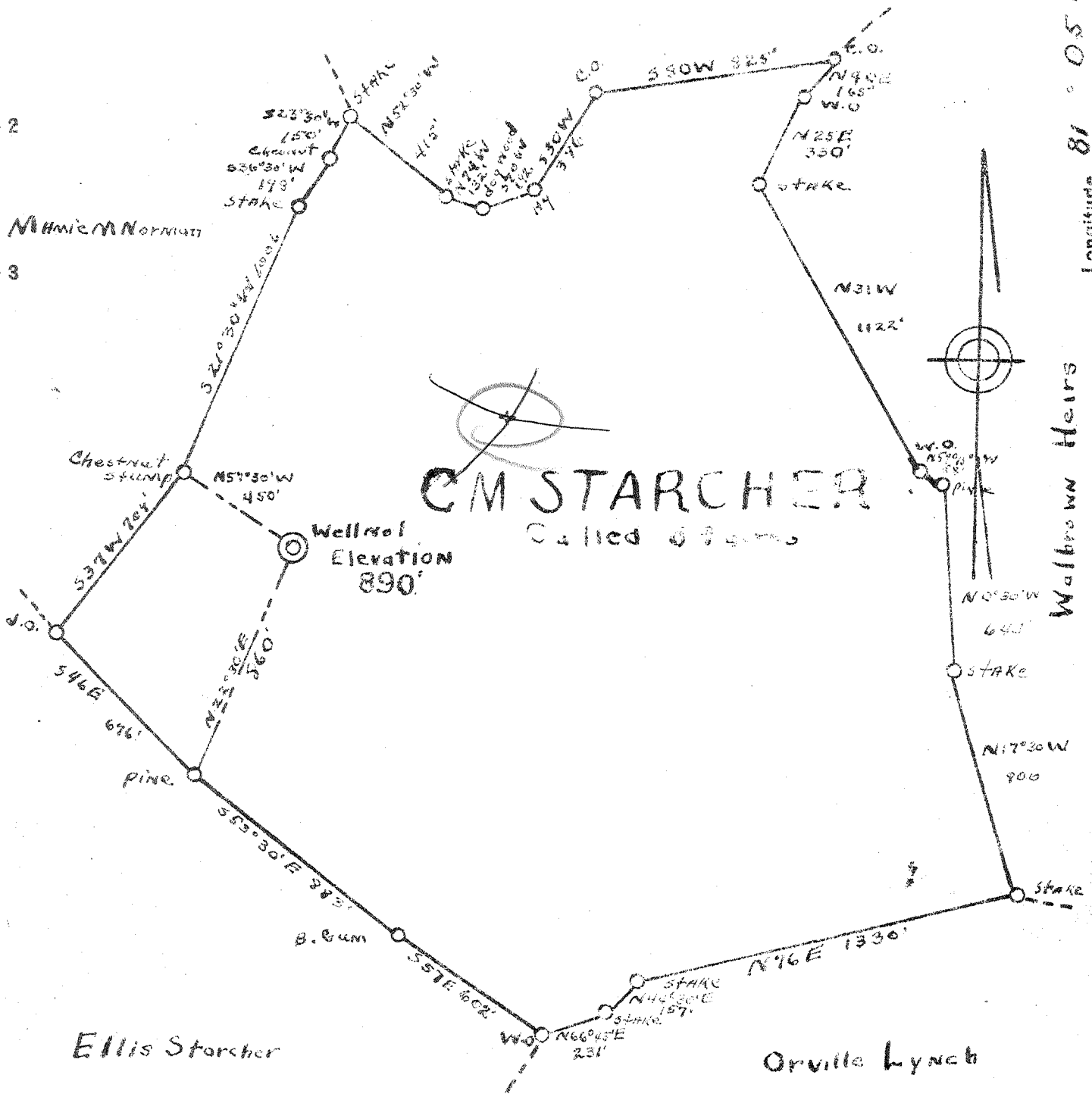
HOMER NORMEN

MINNIE NORMEN

Walbrown Heirs

CM STARCHER
Called 6 8 0 0

Well No. 1
Elevation 890'



- New Location
- Drill Deeper
- Abandonment

Company Gerald D. Jones
 Address Spencer W. Va.
 Farm CM Starcher
 Tract 84 Acres _____ Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 890
 Quadrangle Arnoldsburg Other nc
 County Calhoun District Washington
 Engineer L. F. Dye
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date Jan 15, 1943 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. CAL-743-D

+ 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.

4.25
 4.05W

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NOV 14 1983

(Rev 8-81)



Date August 31, 1982

Operator's Well No. Starcher, # 1

Farm C.M. Starcher, Heirs

API No. 47 - 013 - 743 D.D.

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OIL & GAS DIVISION
DEPT. OF MINES
DEC 2 - 1983

State of West Virginia
Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

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

LOCATION: Elevation: 890 Watershed Sams Run
District: Washington County Calhoun Quadrangle Tariff 7.5

COMPANY Gerald D. Jones
ADDRESS Box 12 Spencer, W.Va. 25276
DESIGNATED AGENT Gerald D. Jones
ADDRESS Box 12 Spencer, W.Va. 25276
SURFACE OWNER C.M. Starcher heirs
ADDRESS Linden, W.Va.
MINERAL RIGHTS OWNER Bret Simmons, et al
ADDRESS Linden, W.Va.
OIL AND GAS INSPECTOR FOR THIS WORK Richard Morris ADDRESS Grantsville, W.Va.
PERMIT ISSUED 9-9-81
DRILLING COMMENCED 9-9-81
DRILLING COMPLETED 9-26-81
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	210	210	60 sks
8 5/8			
7	1980	1980	50 sks
5 1/2			
4 1/2		5980	2400'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 6000 feet
Depth of completed well 5990 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 60 feet; Salt ___ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 5970 feet
Gas: Initial open flow 40 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 500 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1495 psig (surface measurement) after 120 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
_____ hours after _____ hours after _____

DEC 27 1983

Perforation Intervals 5450-5960 Rhinestreet to Marcellus

Well Treatment
 380,000 SCF N₂ 50,000 lbs. 20/40 sand
 80 gal W-22 15 Gal L-53
 252 BBL H₂O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Lime			1980	2026	TD <u>Rhinestreet @ D</u> <u>ANONDAGA @ TD</u>
Big Injun			2026	2140	
Devonian Shale			2140	5970	
Original drilling to 2202'					5970 2550 3420 <u>DD Ag</u>
First deepening in MARCH, 1942, to 2550'					
Records on file in office					

(Attach separate sheets as necessary)

Gerald D. Jones
 Well Operator
 By: Gerald D. Jones Owner
 Date: 12-22-81

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."

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Cal 743
Arnoldsburg Quad.

Company Gerald D. Jones
Address Spncer, W.Va.
Farm C.M. Starcher Acres --
Location Sams Run
Well No One Elev. 910
District Washington Calhoun County
Surface C.M. Starcher
Mineral Brent Simmons, Linden, W.Va.
Commenced --
Completed --
Volume 1,240,000 C.F.
Rock Pressure 800 lbs. 4 hrs.
Fresh Water 2blrs. 50'; 160' 4 blrs.
Salt Water Big Water 1722

Gas Well
CASING & TUBING

10 179'10
8 1/2 810
6 5/8 1965 1965

Slate	0	20	
Red Rock	20	40	
Slate Shells	40	80	
Red Rock	80	120	
Sand	120	175	
Blue Slate	175	280	
Red Rock	280	350	
Blue Slate	350	410	
Red Rock	410	510	
Blue Slate	510	540	
Red Rock	540	680	
Blue Slate	680	730	
Red Rock	730	750	
Blue Slate	750	765	
Black Slate	765	805	
B.D. Sand	805	835	
Black Slate	835	860	
Sand	860	950	
Blue Slate	950	1000	
Sand	1000	1195	
Black Slate	1195	1230	
Sand	1230	1255	
Black Slate	1255	1260	
Sand	1260	1285	
Black Slate	1285	1330	
Sand	1330	1370	
Slate Shells	1370	1595	
Lime	1595	1610	
Sand	H 1610	1650	
Black Slate	1650	1712	
Salt Sand	H 1712	1774	Big Water 1722
Black Lime	1774	1818	
Black Slate	1818	1824	
Black Lime	1824	1890	
Black Slate	1890	1892	
Little Lime	1892	1955	
Pencil Cave	1955	1962	
Big Lime	1962	2125	
Red Rock	2125	2130	
Blue Slate	2130	2182	
Black Shale & Sand	2182	2202	Gas 2182 to bottom

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Cal 743-D
Arnoldsburg, Quad.

Gas Well
CASING & TUBING

Company	Gerald D. Jones		
Address	Spencer, W.Va.	10	179
Farm	C.M. Starcher Acres--	8½	810
Location	Sams Run	6 5/8	1965
Well No.	One		
District	Washington Calhoun County		
Surface	C.M. Starcher 906½ G. St., Charleston, W.Va.		
Mineral	G. Simmons and others, Linden, W.Va.		
Commenced	Feb. 42		
Completed	March ' 42		
Volume	2,000,000 C.F.		

Slate Gr	S	0	20	
Red Rock	S	20	40	
Slate Gr	S	40	80	
Red Rock	S	80	120	
Sand Gr	S	120	175	
Slate Bl	S	175	280	
Red Rock	S	280	350	
Slate Bl	S	350	410	
Red Rock	S	410	510	
Slate Bl	S	510	540	
Red Rock	S	540	680	
Blue Slate	S	680	730	
Red Rock	S	730	750	
Slate Bl	S	750	765	
Slate Bk	S	765	805	
Sand Gr	S	805	835	Big Dunkard Sand
Slate Bk	S	835	860	
Sand Gr	S	860	950	
Slate Bl	S	950	1000	
Sand Gr	S	1000	1195	
Slate Bk	S	1195	1230	
Sand Gr	S	1230	1255	
Slate Bk	S	1255	1260	
Sand Gr	S	1260	1285	
Slate Bk	S	1285	1330	
Sand Gr	S	1330	1370	
Slate & S Gr	S	1370	1595	
Lime Gr	H	1595	1610	
Sand Gr	H	1610	1650	
Slate Bk	S	1650	1712	
Sand Gr	S	1712	1774	
Lime Bk	H	1774	1818	
Slate Bk	H	1818	1824	
Lime Bk	H	1824	1890	
Slate Bk	H	1890	1892	
Lime Wh	H	1892	1955	Little Lime
Slate Bk	S	1955	1962	Pencil Cave
Lime Wh	H	1962	2125	
Red Rock	S	2125	2130	Gas 2182 to 2202
Slate Bl	S	2130	2182	Gas 2300 to 2305
Shale Bk	S	2182	2202	
Slate Bl	S	2202	2550	

2550
2202
348- DDHS

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Starcher #1

API Well No. 47 - 013 - 743-D
State County Permit

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep X / Shallow /)

LOCATION: Elevation: 890 Watershed: Sams Run
District: Washington County: Calhoun Quadrangle: Tariff 7.5

WELL OPERATOR Gerald D. Jones
Address Oak Drive
Spencer, W. Va. 25276

DESIGNATED AGENT Gerald D. Jones
Address Oak Drive
Spencer, W. Va. 25276

OIL & GAS ROYALTY OWNER Bret Simmons et. al.
Address Linden, W. Va.

COAL OPERATOR None
Address

ACREAGE 84

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER C. M. Starcher Heirs
Address Linden, W. Va.

Name
Address

ACREAGE 84

Name

FIELD SALE (IF MADE) TO:

Address

Address

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Richard Morris

Address

Address Grantsville, W. Va.

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SEP 9 - 1981

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 / other contract / dated , 19 , to the undersigned well operator from .
[If said deed, lease, or other contract has been recorded:]

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

PROPOSED WORK: Drill / Drill deeper XX / 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 location 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.

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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
100 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BOND DEEPEN

GERALD D. JONES

Well Operator

By Gerald D Jones
Its Owner

PROPOSED WORK ORDER

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

BILLING CONTRACTOR (IF KNOWN) Gerald D. Jones
Address Oak Drive
Spencer, W. Va. 25276

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 6000 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 5850 feet; salt, feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes / No X

LOGGING AND TUBING PROGRAM

Table with columns: LOGGING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Includes handwritten entries for production tubing with 4.5 size, 10.5 weight, and 5850/6000 footages.

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 deepening. This permit shall expire if operations have not commenced by 5-17-82

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 regulations.

: , 19

By
Its