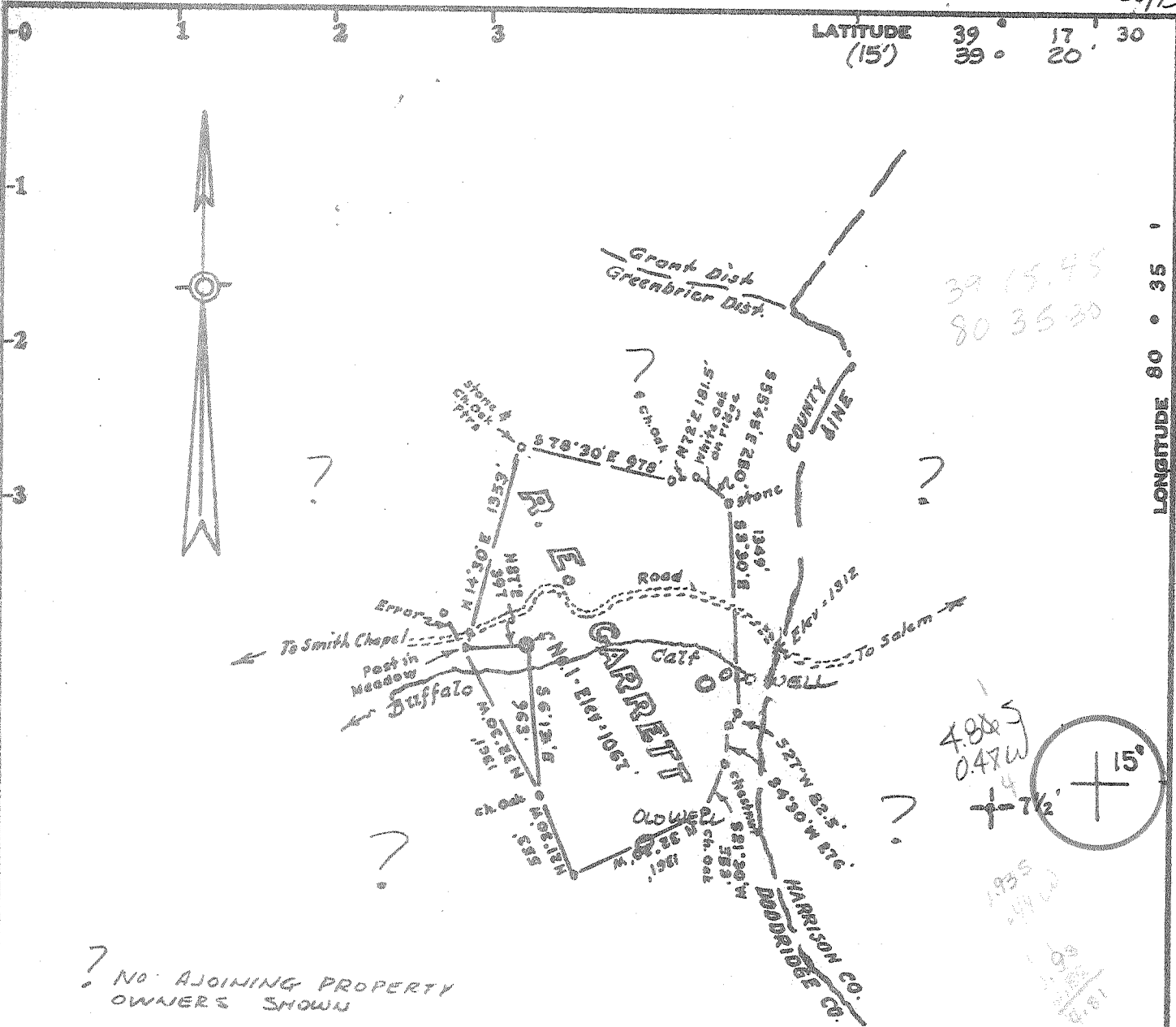


11/26/79



? NO ADJOINING PROPERTY OWNERS SHOWN

**LEGEND**

- Lines plotted from deed calls
- Surveyed Lines
- ..... Roads
- County Line — District Line
- Well Location

**OWNERSHIP**

Coal: - Va. Tetrick et al, Clarksburg, W.Va.  
 Surface: - H. R. Plauger, et ux, R-1, Salem, W.Va.  
 Oil & Gas: - M. E. Garrett, et al

Minimum Error of Closure 1 in 200'

Source of Elevation U.S.G.S. elev at top of hill, 1400' East = 1312

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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.

Signed: M. E. Garrett  
 Map No. \_\_\_\_\_ Squares: N S E W

Company CHASE PETROLEUM  
 Address P.O. Box 297, Glenville, West Va.  
 Farm Garrett Tract (Plauger)  
 Tract \_\_\_\_\_ Acres 74.5 Lease No. \_\_\_\_\_  
 Well (Farm) No. Chase No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1067 SC  
 Quadrangle Salem 7 1/2 Center Point 15  
 County Doddridge District Greenbrier  
 Engineer M. E. Garrett  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 23, 1979 Scale 1" = 1000'

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

**WELL LOCATION MAP**  
 FILE NO. 47-017-2541

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 or 62,500, latitude and longitude lines being represented by border lines as shown.  
 DEC 7 1979  
 — Denotes one inch spaces on border line of original tracing.

5600 Alameda 6-6 Salem (102)

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

Date July 22, 1980

FORM IV-35  
(Obverse)

Operator's  
Well No. Garrett # 1

WELL OPERATOR'S REPORT  
OF

API Well No. 47 - 017 - 254  
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(08-78)

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

LOCATION: Elevation: 1067 Watershed: Buffalo Calf Run  
District: Greenbrier County: Doddridge Quadrangle: Salem 7 $\frac{1}{2}$

WELL OPERATOR Chase Petroleum DESIGNATED AGENT Alton Skinner  
Address PO Drawer 369 Address PO Box 297  
Glenville, WV 26351 Glenville, WV 26351

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_  
**RECEIVED**  
JUL 28 1980

PERMIT ISSUED ON November 26, 1979 OIL & GAS INSPECTOR FOR THIS WORK: Paul Garrett  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5600 feet  
Depth of completed well, 5600 feet Rotary  / Cable Tools   
Water strata depth: Fresh, 53 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: 524-526 Is coal being mined in the area? no  
Work was commenced November 28, 1979, and completed December 8, 1979

CEMENTING AND TUBING PROGRAM

CEMENTING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11 3/4				XX	20	-0-	Minds
Fresh water								
Coal								Sizes
Intermediate	8 5/8		23#	X		1550	1550	CTS
Production	4 1/2		10.5#	X		5563	5563	200 sacks Depth set
Tubing								
Liners								Perforations: Top Bottom

OPEN FLOW DATA 935 MCF  
Producing formation Alexander Pay zone depth 5406-68 feet  
Gas: Initial open flow, 250 Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, 935 Mcf/d Final open flow, 0 bbl/d  
Time of open flow between initial and final tests, 10 hours  
Static rock pressure, 1700 psig (surface measurement) after 7 days shut in

[If applicable due to multiple completion--]  
Second producing formation Benson Pay zone depth 5102-18 feet  
Gas: Initial open flow, 250 Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, 935 Mcf/d Final open flow, 0 bbl/d  
Time of open flow between initial and final tests, 10 hours  
Static rock pressure, 1700 psig (surface measurement) after 7 days shut in

AUG 11 1980

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

Draced Alexander 5406-68, 36 holes, 730bbls total fluid, 20,000 # 80/100  
60,000 # 20/40

Draced Benson 5102-18, 16 holes, 437bbls total fluid, 10,000 # 80/100  
30,000 # 20/40

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of all fresh and salt water, coal, oil and gas
nd.			G.L.	29	Sand & Shale 2610 2675
ed Rock & Shale			29	53	Sand 2675 2680
nd			53	55	Sand & Shale 2680 5080
nd & Shale			55	81	Benson Sand - 5080 5090
nd			81	103	Sand & Shale 5090 5360
nd & Shale			103	130	Alex. Sand ✓ 5360 5410
nd			130	132	Sand & Shale 5410 5425
nd & Shale			132	143	Brown Sand 5425 5435
nd			143	155	Sand & Shale 5435 5600TI
nd & Shale			155	175	
nd			175	250	
nd & Shale			250	524	
al			524	526	
nd & Shale			526	890	
nd			890	913	
ale & Little Red Rock			913	975	
nd			975	987	
ale & Red Rock			987	1070	
nd			1070	1075	
nd Rock & Shale			1075	1093	
nd & Shale			1093	1160	
nd			1160	1173	
ale & Red Rock			1173	1222	
nd & Shale			1222	1260	
nd			1260	1620	
ale			1620	1750	
nd & Shale			1750	1820	
nd			1820	1880	
ale & Sand			1880	2085	
ttle Lime			2085	2095	
ale			2095	2124	
g Lime			2124	2190	
jun Sand			2190	2280	
nd & Shale			2280	2375	
nd			2375	2440	
nd & Shale			2440	2575	
nd			2575	2610	

(Attach separate sheets to complete as necessary)

Chase Petroleum  
Well Operator  
By Alton Skinner  
Tr. a Owner/Agent

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1  
API Well No. 47-017-2541  
State County Permit

WELL TYPE: Oil  / Gas   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
Elevation: 1067 Watershed: Buffalo Calf Run  
District: Greenbrier County: Doddridge Quadrangle: Salem 7-1/2, Center Point 15

WELL OPERATOR Chase Petroleum  
Address P.O. Box 297  
Glenville, W.Va. 26351

DESIGNATED AGENT Alton Skinner  
Address P.O. Box 297  
Glenville, W.Va. 26351

COAL & GAS QUALITY OWNER M.E. Garrett, et al  
Address \_\_\_\_\_

COAL OPERATOR None  
Address: \_\_\_\_\_

COAL SURFACE OWNER Haymond R. & Carol Plauger  
Address Rt. 1  
Salem, W.Va. 26426  
Acreage 74.5

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Va. Tetrick, et al  
c/o Willis G. Tetrick  
Address Union National Center - West  
Clarksburg, W.Va. 26301  
Name \_\_\_\_\_  
Address \_\_\_\_\_

COAL LEASED SALE (IF MADE) TO:  
Name Uncommitted  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_  
**RECEIVED**  
NOV 26 1979

COAL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address Clarksburg, W.Va. 26301

OIL & GAS DIVISION  
DEPT. 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 June 8, 19 79, to the undersigned well operator from Thomas J. & Reva I. Fluharty

[If said deed, lease, or other contract has been recorded:]  
Recorded on July 11, 19 79, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Deed Book 109 at page 173. A permit is requested as follows:

PROPOSED WORK: Drill  / 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 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 GEOLOGICAL LOGS DIRECTLY TO:

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

TELEPHONE: (304) 348-3002

BLANKET BOND

Chase Petroleum  
Well Operator

By Alton Skinner  
As Pres.

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.  
Address Buckhannon, W.Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5600 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 150 feet; salt, 1400 feet.

Approximate coal seam depths: 200 Is coal being mined in the area? Yes      / No X

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		
Conductor	12			X		40	0		Kinds
Fresh water	8-5/8		23#	X		1650	1650	Cts	
Coal	8-5/8		23#	X		1650	1650	Cts	Sizes
Intermediate									
Production	4-1/2		10.5	X		5550	5550	3000	Depths set
Tubing									
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.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-26-80.

[Signature]  
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.

Date: \_\_\_\_\_, 1980

By \_\_\_\_\_

Its \_\_\_\_\_