

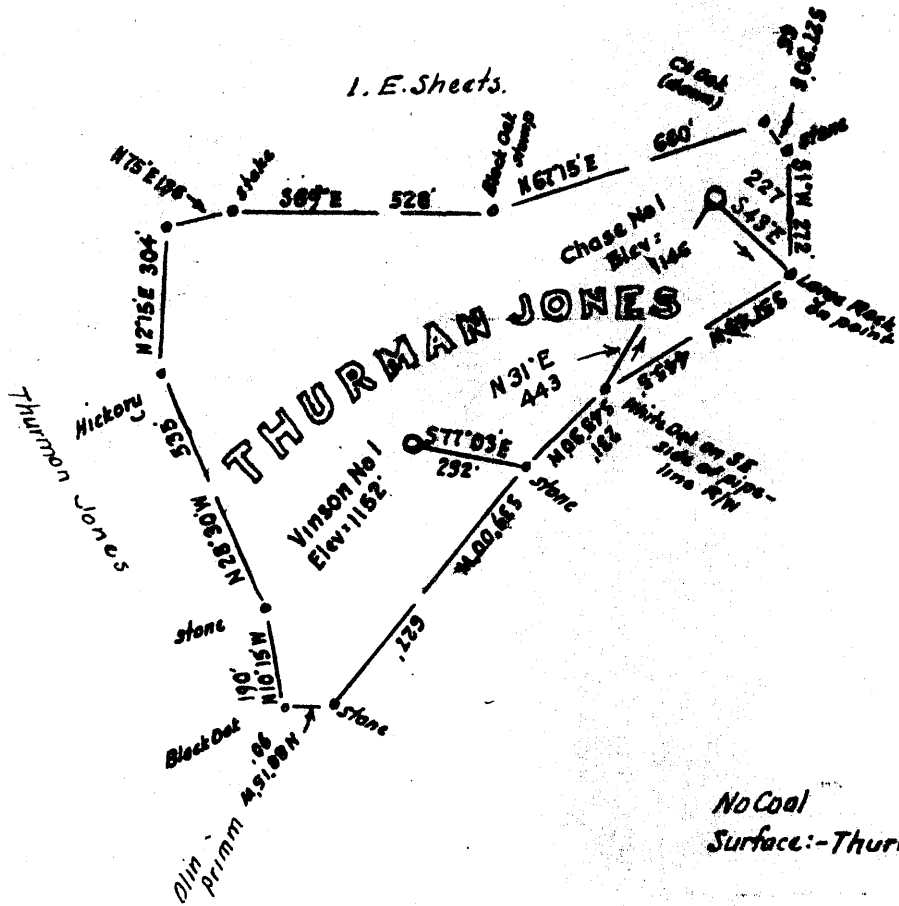
15'  
39°

LATITUDE  
0.048  
1.37W

1 2 3 7 1/2 +

LONGITUDE 80 • 50'

**LEGEND**  
Lines plotted from deed calls  
Surveyed Lines  
Well Locations



Minimum Error of Closure 1 in 200'

Source of Elevation Elev. Well No. 1 (Vinson Gas & Oil Drg Co.)  
= 1152

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.

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

Signed: [Signature]  
Squares: N S E W

Map No.

Company CHASE PETROLEUM CO.  
Address P.O. Box 297, Glenville, W. Va.  
Farm Thurman Jones  
Tract \_\_\_\_\_ Acres 17.5 Lease No. \_\_\_\_\_  
Well (Farm) No. Chase No. 1 Serial No. \_\_\_\_\_  
Elevation (Spirit Level) 1146  
Quadrangle Oxford 7 1/2 Holbrook 15'  
County Doddridge District Central  
Surveyor [Signature]  
Surveyor's Registration No. 1227  
File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
Date August 22, 1939 Scale 1" = 400'

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

**WELL LOCATION MAP**

FILE NO. 47-017-2478

+ Denotes location of well on United States Topographic Maps, scale 1 to <sup>25,000</sup>/<sub>62,500</sub>, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

SEP 7 1979

RECEIVED

FORM IV- (Obverse)

JUN 11 1980

WELL OPERATOR'S REPORT OF

Operator's Well No. Jones #1 API Well No. 47-017-2478 State County Perry

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE OIL & GAS DIVISION

DEPT. OF MINES

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas", Production X / Underground storage / Deep / Shallow /) LOCATION: Elevation: 1146 Watershed: Cabin Run District: Central County: Doddridge Quadrangle: Oxford 7-1/2

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

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate X Plug off old formation / Perforate new formation / Other physical change in well (specify)

PERMIT ISSUED ON August 24, 1979 OIL & GAS INSPECTOR FOR THIS WORK: Name Paul Garrett Address Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5494 feet Depth of completed well, 5741 feet Rotary X / Cable Tools Water strata depth: Fresh, 56 feet; salt, None Coal seam depths: None Is coal being mined in the area? Work was commenced 8/29, 1979, and completed 9/5, 1979

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-IN OR SACKS (Cubic feet), PACKERS. Rows include conductor, fresh water, coal, intermediate, production, tubing, liners.

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5532 feet Gas: Initial open flow, 270 Mcf/d Oil: Initial open flow, Bbl/d Final open flow, 270 Mcf/d Final open flow, Bbl/d Time of open flow between initial and final tests, 10 hours Static rock pressure, 1150 psig (surface measurement) after 24 hours shut in [If applicable due to multiple completion--] Second producing formation Riley Pay zone depth 4831 feet Gas: Initial open flow, 270 Mcf/d Oil: Initial open flow, Bbl/d Final open flow, 270 Mcf/d Final open flow, Bbl/d Time of open flow between initial and final tests, 10 hours Static rock pressure, 1150 psig (surface measurement) after 24 hours shut in

540 MCR

JUL 16 1980

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

Fraced Alexander 5517-63 15 holes 794 bbls Total fluid 15,000-80/100  
 87,000-20/40

Fraced Riley 4831-51 16 holes 638 bbls Total fluid 15,000-80/100  
 55,000-20/40

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil and salt water, coal, etc.
K.B.-G.L.			0	11	
Cond.			11	29	
Sdy. Sh.			29	50	
Red Rock & Shale			50	65	Fresh Water
Sand			65	125	
Red Rock & Shale			125	135	
Sandy Shale & R.R.			135	320	
R.R. & Shale			320	345	
Sandy Shale			345	410	
R.R. & Shale			410	440	
Sandy Shale			440	1508	
Sand			1508	1590	
Shane, Sand			1590	1715	
Sand			1715	1750	Salt Water
Sandy Shale			1750	2180	
Sand			2180	2190	
Shale			2190	2202	
Little Lime			2202	2220	
Shale			2220	2274	
Big Lime			2274	2445	
Sandy Shale			2445	2980	
Sand			2980	3015	
Sandy Shale			3015	5195	
Benson			5195	5205	
Shale			5205	5355	
Sandy Shale			5355	5502	
Sand <i>ALEX.</i>			5502	5575	
Sandy Shale			5575	5741	TD

(Attach separate sheets to complete as necessary)

Chase Petroleum  
Well Operator

By *Alton Skinner*

Its \_\_\_\_\_ Pres.

**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 - 2478  
State County Permit

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)  
LOCATION: Elevation: 1146 Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford 7-1/2

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

OIL & GAS ROYALTY OWNER John Statler  
Address Clarksburg, W.Va. 26301

COAL OPERATOR None  
Address

ACREAGE 17.5  
SURFACE OWNER Thurman Jones  
Address Oxford, W.Va.  
ACREAGE 17.5

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name No. 2  
Address  
AUG 24 1979

FIELD SALE (IF MADE) TO:  
Name Not Committed  
Address

Name  
Address OIL & GAS DIVISION  
DEPT. OF MINE

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

COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
Address

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 June 6, 1979, to the undersigned well operator from Vinson Oil & Gas Drilling Co., Inc.

[If said deed, lease, or other contract has been recorded:]  
Recorded on July 10, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 109 at page 156. 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 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.

Chase Petroleum

Well Operator

By Alton Skinner  
Its Owner

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

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  
304-472-2161

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5494 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 30 feet; salt, 443 feet.  
Approximate coal seam depths: No Coal 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		
Conductor	12"				X	40'	40'	Kinds
Fresh water	12"					40'	40'	
Coal	8-5/8		23.5	X		1885'	1885'	Sizes
Intermediate	8-5/8		23.5	X		1885'	1885'	Cts
Production	4-1/2		10.5	X		5452'	5452'	2200
Tubing								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. This permit shall expire if operations have not commenced by 4-24-80

*[Signature]*

The following information 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.

N/A

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_