



2.23
1.125
2.58W
39.1400
9052.40
+ 7 1/2
1.125
2.38W
2.58W

OWNERSHIP
 No. Cool
 Oil & Gas: - Gussie Leggett, et al
 West Union, W. Va.
 Surface: - Forrest Britton, et ux
 Rural Route,
 West Union, W. Va.

LEGEND

- Lines plotted from deed calls
- Surveyed Lines
- Roads
- * Active or Plugged wells
- o Well Location

Minimum Error of Closure 1 in 200'
 Source of Elevation USGS B.M. at Way = 823

- 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: W. S. [Signature]
 Squares: N S E W

Map No. _____

Company CHASE PETROLEUM CORP.
 Address P.O. Box 297, Glenville, West Va.
 Farm Forrest Britton LEGGETT
 Tract _____ Acres 168.6 Lease No. _____
 Well (Farm) No. Chase No. 1 Serial No. _____
 Elevation (Spirit Level) 835 NC
 Quadrangle Pullman 7 1/2' (HOLBROOK 15)
 County Doddridge District Central
 Engineer [Signature]
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date July 31, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-017-2463

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
 AUG 13 1979
 — Denotes one inch spaces on border line of original tracing.

54.76 adjacent to Greenwood (89)

FORM IV-35
 (Obverse)

WELL OPERATOR'S REPORT 13
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

[08-78,

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

LOCATION: Elevation: 842 Watershed: Cabin Run
 District: Central County Doddridge Quadrangle: Pullman 7 1/2

WELL OPERATOR Chase Petroleum DESIGNATED AGENT Alton Skinner
 Address P.O. Drawer 369 Address P.O. Box 297
Glenville, W.V. 26351 Glenville, W.V. 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 8/7, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett
 Address Clarksburg, W.V., 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5486 Feet

Depth of completed well, 5430 feet Rotary x / Cable Tools

Water strata depth: Fresh, 35 feet; salt, 1270 feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced 9/15, 1979, and completed 9/21, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-IN OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11				X	30	-0-		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23#	X		1544	1544	CTS	
Production	4-1/2		10.5#	X		3328	3328	1784	Depths set
Tubing	2-3/8			X		3278	3278		
Liners									Perforations:
									2452-2252 Bottom
									3235-3239
									3250-3253

300 + 25 MCF

OPEN FLOW DATA

Producing formation Warren Pay zone depth 3235-39 feet

Gas: Initial open flow, 25 Mcf/d Oil: Initial open flow, 3 Bbl/d
 Final open flow, Mcf/d Final open flow, Bbl/d

Time of open flow between initial and final tests, 24 hours

Static rock pressure, 150 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 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

MAR 23 1981

[08-78]

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

Well plugged back to 3350
Fractured Warren at 3235-39 6 holes, 20000 lb. 80/100, 15000 lb. 20/40

Perforations at 2452-55 and 3250-53 not fractured.

WELL LOG

FORMATION	Color	Hard or Soft	13		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Sand			0	29	
Red Rock & Shale			29	50	
Sand & Shale			50	70	
Sand			70	80	
Red Rock & Shale			80	100	
Sand & Shale			100	160	
Red Rock & Shale			160	170	
Sand			170	172	
Red Rock & Shale			172	220	
Sand & Shale			220	260	
Red Rock			260	280	
Sand & Shale			280	410	
Red Rock & Shale			410	810	
Sand & Shale			810	1105	
Sand			1105	1205	
Sand & Shale			1205	1255	
Sand			1255	1270	
Sand & Shale			1270	1410	
Sand			1410	1462	
Sand & Shale			1462	1723	
Sandy			1723	1731	
Sand & Shale			1731	1755	
Sand			1755	1768	
Shale			1768	1785	
Big Lime			1785	1945	
Sand & Shale			1945	2270	
Shale			2270	4708	
Benson Sand			4708	4725	
Shale			4725	4780	
Benson			4780	4785	
Sand & Shale			4785	5430	

(Attach separate sheets to complete as necessary)

Chase Petroleum
Well Operator
By Alton Skinner
Its 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 - 246
State County Permit

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

LOCATION: Elevation: 1042 Watershed: Cabin Run
District: Central County: Doddridge Quadrangle: ~~_____~~ 7-1/2
PULLMAN

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

DESIGNATED AGENT Alton Skinner
Address Glenville, W.Va. 26351

OIL & GAS ROYALTY OWNER Gussie Leggett
Address Oxford, W.Va.

COAL OPERATOR None
Address _____

Acreage 168.6

SURFACE OWNER Forrest Britton
Address Oxford, W.Va.

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Gussie Leggett
Address Oxford, W.Va.

Acreage 168.6

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

Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

RECEIVED
AUG 6 1979

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 2/20, 1979, to the undersigned well operator from Gussie Leggett

[If said deed, lease, or other contract has been recorded:]
Recorded on 2/26, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 107 at page 480. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper ___ / Redrill ___ / Fracture or stimulate X /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) None

--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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (606) 255-2800

Chase Petroleum
Well Operator
By Alton Skinner
Its Owner - Agent

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.

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5486 feet Rotary / Cable tools _____

Approximate water depths: Fresh, 20' feet; salt, 429' feet.

Approximate coal seam depths: 572' - 575' Is coal being mined in the area? Yes _____ / No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	12"				X	30'	30'	Kinds
Fresh water	12"					30'	30'	
Oil	8-5/8		23		X	1871'	1871'	Cts
Intermediate	8-5/8		23		X	1871'	1871'	Cts
Production	4-1/2		10.5		X	5438'	5438'	2100
Slits								Depths set
Slits								Performances:
								To: _____

Section 2.02 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 22, (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", and a bond for the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless the well is drilled to the same depth, 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 existing well within 100 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well when the fracturing or stimulation is to be part of the work for which a permit is sought and the fee is such as 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 4-7-80.

Robert T. Hill
Deputy Director - Oil & Gas Division

The well application must be completed by the coal operator and by any other 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 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 well being drilled at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By _____
Its _____