



**RECEIVED**  
 JAN 31 1984  
 IV-35 DIVISION  
 (MAY 8-81)  
 DEPT. OF MINES



Date January 27, 1984  
 Operator's Bradley Leggett #1  
 Well No. Bradley Leggett #1  
 State of West Virginia  
 Department of Mines  
 Oil and Gas Division  
 Face Bradley Leggett  
 API No. 47 - 017 - 3195

WELL OPERATOR'S REPORT  
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1179 Watershed Fred's Run  
 District: Southwest County Doddridge Quadrangle Oxford 7.5

COMPANY Chase Petroleum, Inc.  
 ADDRESS P.O. Drawer 369, Glenville, WV. 26351  
 DESIGNATED AGENT Alton Skinner  
 ADDRESS P.O. Drawer 369, Glenville, WV. 26351  
 SURFACE OWNER Bradley Leggett  
 ADDRESS West Union, WV.  
 MINERAL RIGHTS OWNER Bradley Leggett Et. Al.  
 ADDRESS West Union, WV.

OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Jane Lew, WV.  
 PERMIT ISSUED December 16, 1983  
 DRILLING COMMENCED December 19, 1983  
 DRILLING COMPLETED December 30, 1983

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

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Crod.			
13-3/4	24	0	
9 5/8			
8 5/8	1234.60	1234.60	225 SKS 304 CF
7			
5 1/2			
4 1/2	5357	5357	650 SKS 850 CF
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale, Alexander Sand Depth 5990 feet

Depth of completed well 5500 feet Rotary X / Cable Tools

Water strata depths: Fresh 500' feet; Salt None feet

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

OPEN FLOW DATA

Producing formation Balltown Sand, Devonian Shale zone depth 3509-3766 feet

Gas: Initial open flow 54313 Mcf/d Oil: Initial open flow Trace Bbl/d

Final open flow 280,000 Mcf/d Final open flow Trace Bbl/d

*280,000  
 25,500 bbl/d*

Time of open flow between initial and final tests 48 hours

Static rock pressure 1375 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation Alexander Sand, Devonian Shale depth 5225-5274 feet

Gas: Initial open flow 54313 Mcf/d Oil: Initial open flow Trace Bbl/d

Final open flow 280,000 Mcf/d Oil: Final open flow Trace Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 1375 psig (surface measurement) after 48 hours shut in

(Continue on reverse side)

FEB 14 1984

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
 Fraced Balltown: 3509-3766; 10 Holes; 631 BBIs. Total Fluid: 10,000 # 80/100  
 50,000 # 20/50  
 Fraced Alexander: 5225-5274: 15 Holes; 649 BbIs. Total Fluid: 10,000# 80/100  
 50,000# 20/50

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga.
Clay			0	3	
Sand Shale & Red Rock			3	1966	
Big Lime, Mississippian Shale			1966	2026	
Injun Sand, Mississippian Shale			2026	2100	Gas @ 2248 = 49,578
Sand & ; Mississippian Shale			2100	2262	
Weir Sand, Mississippian Shale			2262	2386	
Sand & Mississippian Shale			2386	2630	
Sand & Devonian Shale			2630	2890	Gas @ 2885 = 49,578
Fifth Sand & Devonian Shale			2890	2900	
Sand & Devonian Shale			2900	3350	
Spechley Sand & Devonian Shale			3350	3500	
Sand & Devonian Shale			3500	3730	Gas @ 3879 = 49,578
Balltown Sand & Devonian Shale			3730	4122	
Sand & Devonian Shale			4122	4286	Gas @ 4295 = 54,313
Riley Sand & Devonian Shale			4286	4784	Gas @ 4781 = 45,711
Sand & Devonian Shale			4784	4930	
Benson Sand & Devonian Shale			4930	4932	
Brown Sand, Devonian Shale			4932	5188	
Alexander Sand & Devonian Shale			5128	5246	
Sand & Devonian Shale			5246	5500 TD	Gas @ 5290 = 49,578 Gas @ 5500 = 50,793

(Attach separate sheets as necessary)

Chase Petroleum, Inc.  
 Well Operator  
 By: Allen Skinner  
 Date: January 27, 1984

Notes: Regulation 2.02(t) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic  
 detailed geological record of all formations, including  
 events encountered in the drilling of a well."



1) Date: December 13, 1987
2) Operator's Well No.: Bradley Lennett #1
3) API Well No.: 47
State: West Virginia
County: Boone
Permit No.:

DRILLING CONTRACTOR:
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil / Gas
B (If "Gas", Production
5) LOCATION: Elevation:
Underground storage:
Watershed:
6) WELL OPERATOR:
DESIGNATED AGENT:
11)
Address:
12) COAL OPERATOR:
Address:
13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name:
Address:
Name:
Address:
9) FIELD SALE (IF MADE) TO:
Name:
Address:
Name:
Address:

10) OIL & GAS INSPECTOR TO BE NOTIFIED:
Name:
Address:
15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify):
16) GEOLOGICAL TARGET FORMATION,
17) Estimated depth of completed well, feet
18) Approximate water strata depths: Fresh, salt, feet.
19) Approximate coal seam depths: Is coal being mined in the area? Yes / No

20) 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-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

21) 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.)
22) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.
23) Required Copies (See reverse side.)
24) 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.

Notary:
My Commission Expires:
Signed:
Its:

OFFICE USE ONLY
DRILLING PERMIT
Permit number:
Date:

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. 10) 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.
Permit expires:
Bond:
Agent:
Plat:
Casing:
Fee:
unless drilling is commenced prior to that date and prosecuted with due diligence.
Administrator, Office of Oil and Gas

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



Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
- 5) "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 6) Where well is located
- 7) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 8) Use separate sheet if necessary
- 9) Present surface owner at time application is filed.
- 10) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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.**

.....  
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.

WAIVER

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: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
Its \_\_\_\_\_



1) Date: October 26, 19 83 Renewal  
 2) Operator's Well No. Bradley Leggett #1  
 3) API Well No. 47 - 017 - - 3195-Ren  
 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  Elevation: 1179 Underground storage  Fred's Run  Deep  Shallow  )  
 5) LOCATION: District: Southwest County: Doddridge Quadrangle: Oxford 7.5  
 6) WELL OPERATOR: Address: Chase Petroleum P.O. Drawer 369 Glenville, W. Va. 26351 Designated Agent: P.O. Drawer 369 Glenville, W. Va. 26351  
 7) DRILLING CONTRACTOR: Name: Stephen Casey Address: Route 2, Box 232-D Jane Lew, W. Va. 26378 Unknown

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8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name: Stephen Casey Address: Route 2, Box 232-D Jane Lew, W. Va. 26378  
 9) DRILLING CONTRACTOR: Name: Unknown Address: Unknown  
 10) PROPOSED WELL WORK: Drill  Plug off old formation  Redrill  Stimulate   
 Other physical change in well (specify): Alexander (Devonian Shale)  
 11) GEOLOGICAL TARGET FORMATION, Alexander (Devonian Shale) Oil & GAS DIVISION  
 12) Estimated depth of completed well, 5990 feet  
 13) Approximate true depths: Fresh, 125 feet; salt, 1200 feet. Oil & GAS DIVISION  
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes  No  DEPT. OF MINE  
 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		
Conductor								
Fresh water						310	310	CTS
Coal								CTS
Intermediate			23#	X		1800	1800	CTS
Production			4-1/2	X		5940	5940	725 SKS
Tubing								
Lines								

Depths set  
 Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3195-Ren Date November 14, 19 83

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 November 14, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>2795</u>
<b>BLANKET BOND</b>				

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