



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION Center of road 1400' NW of Location ELEV. = 1060'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
*Mark C. Echard*  
 MARK C. ECHARD  
 (SIGNED) R.P.E. L.L.S. 490

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)

DATE FEBRUARY 7, 19 83  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. 47-017-3209  
 STATE COUNTY PERMIT



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS.") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1079' WATER SHED F.R.E.D.S. RUN  
 DISTRICT SOUTHWEST COUNTY ROODRIDGE  
 QUADRANGLE OXFORD ACREAGE 83  
 SURFACE OWNER EMMETT JAMES  
 OIL & GAS ROYALTY OWNER A.L. ADAMS HEIRS, et al. LEASE ACREAGE 83

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5990'  
 WELL OPERATOR CHASE PETROLEUM INC. DESIGNATED AGENT MR. ALTON SKINNER  
 ADDRESS P.O. BOX 297 GLENVILLE, W. Va. 26351  
 ADDRESS GLENVILLE, W. Va. 26351

MAR 28 1983

b-b Straight Fork - Bluestone Creek (133)

RECEIVED  
JAN 4 - 1984

IV-35 OIL & GAS DIVISION  
(Rev 8-8) DEPT. OF MINES



State of West Virginia

Department of Mines

Oil and Gas Division

Date January 5, 1983  
Operator's  
Well No. Emmitt James #1  
Farm Emmitt James  
API No. 47 - 017 - 3209 REN

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1079 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 Emmitt James  
ADDRESS Rt.1, West Union, WV. 26456  
MINERAL RIGHTS OWNER Grace Adams et. al.  
ADDRESS Rt.1, Box 14, Grantsville, WV. 26147  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen  
Casey ADDRESS Rt.2, Box 232-D Jane Jew  
PERMIT ISSUED November 17, 1983  
DRILLING COMMENCED December 3, 1983  
DRILLING COMPLETED December 18, 1983

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

Casing Tubing	Used in Drilling in Well	Cement fill up Cu. ft.
Size 20-16		
Cond. 1 3/4		
13-10	24'	0
9 5/8		
8 5/8	1215.35'	1215.35' 2.5 CF.
7		
5 1/2		
4 1/2	5331'	5331' 2.7 CF.
3		
2		
Liners used		

CTS 600  
Sks.

GEOLOGICAL TARGET FORMATION Alexander (Devonian) Depth 5400 feet

Depth of completed well 5400 feet Rotary XX / Cable Tools

Water strata depth: Fresh 895 feet; Salt None feet

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

OPEN FLOW DATA

Producing formation Alexander, Balltown, Riley Pay zone depth 3854-5242 feet

Gas: Initial open flow 69,236 Mcf/d Oil: Initial open flow Trace Bbl/d

Final open flow 1,901,207 Mcf/d Final open flow Trace Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1675 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation Co-mingled 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

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

(Continue on reverse side)

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

Fraced Balltown: 3854-4118 Feet, 17 Holes; 643 Bbls. Total Fluid: 10,000# 80/100  
 45,000# 20/50  
 Fraced Riley: 4306-4818 Feet; 15 Holes; 685 Bbls. Total Fluid: 10,000# 80/100  
 50,000# 20/50  
 Fraced Alexander: 4927-5242 Feet; 17 Holes; 650 Bbls. Total Fluid: 10,000# 80/100  
 50,000# 20/50

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay			0	20	
Red Rock, Sand & Shale			2000	2000	Fresh Water 47Feet to 895 Feet
Injun Sand, Mississippian Shale			2000	2070	Oil Oder 2050 feet
Mississippian Shale, Sand			2070	2234	Gas Indication of 20/10 @ 2124 Up
Mississippian Shale, Weir Sand			2234	2360	
Devonian Shale, Sand & Red Rock			2360	2650	Gas Indication of 14/10 @ 2632 Up
Devonian Shale, Gordon Sand			2650	2670	
Devonian Shale, Sand & Red Rock			2670	3300	Gas Indication of 12/10 @ 3141 Up
Devonian Shale, Speechly Sand			3300	3390	
Devonian Shale, Sand & Red Rock			3390	3700	Gas Indication of 10/10 @ 3654 Up
Devonian Shale, Balltown Sand			3700	3850	
Devonian Shale, Sand & Red Rock			3850	4465	Gas Indication of 78/10 @ 4167 Up
Devonian Shale, Riley Sand			4465	4495	
Devonian Shale, Sand, Red Rock			4495	4890	Gas Indication of 50/10 @ 4681 Up
Devonian Shale, Benson Sand			4890	5158	Gas Indication of 40/10 @ 4871 Up
Devonian Shale, Brown Sand			5158	5195	
Devonian Shale, Alexander Sand			5195	5220	
Devonian Shale, Brown Sand			5220	5400 TD	Gas Indication of 46/10 @ TD Up

(Attach separate sheets as necessary)

Chase Petroleum, Inc.

Well Operator

By:

Date: 1/3/84

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  
 sand, encountered in the drilling of a well."





1) Date: March 22, 1987  
2) Operator's Well No.: Permit James #1  
3) API Well No.: 47 State 017 County Permit

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

- 4) WELL TYPE: A Oil  Gas  Production   
B (If "Gas", Production  Underground storage  Deep  Shallow   
Elevation: 1079 Watershed: FRS & RUIB  
District: SOUTHWEST County: WATERGAS
- 5) LOCATION: CHASS PATRICKUM Quadrangle: WATERGAS  
Address: P.O. STREET 200
- 6) WELL OPERATOR: James Patrickum  
Address: Grantville, W.Va. 26147
- 7) OIL & GAS ROYALTY OWNER: Brace Adams, et al  
Address: Route 1, Box 15
- 8) SURFACE OWNER: James Adams  
Address: Holler
- 9) FIELD SALE (IF MADE) TO: West Union, W.Va. 26386  
Acreage: 103
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name: \_\_\_\_\_ Address: \_\_\_\_\_
- 11) DESIGNATED AGENT: \_\_\_\_\_  
Address: \_\_\_\_\_
- 12) COAL OPERATOR: None  
Address: \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name: \_\_\_\_\_ Address: \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
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, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes  No
- 20) 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								
Fresh water								
Coal								
Intermediate								
Production								
Tubing								
Liners								

- 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: \_\_\_\_\_ Signed: \_\_\_\_\_  
My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

Permit number \_\_\_\_\_  
OFFICE USE ONLY  
**DRILLING PERMIT**  
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.)

Bond:	Agent:	Plat:	Casing	Fee

Permit expires \_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.  
Administrator, Office of Oil and Gas

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.  
 "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.
- 5) Where well is located
- 6) 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
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) 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 28, 19 83  
 2) Operator's Well No. Emmit James #1  
 3) API Well No. 47-017-3209-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  Underground storage  Deep  Shallow   
 B (If "Gas", Production   
 5) LOCATION: Elevation: 1079 Watershed: Fred's Run  
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5  
 6) WELL OPERATOR: Chase Petroleum  
 Address: P.O. Drawer 369  
Glennville, W.Va. 26351  
 7) DESIGNATED AGENT: Alton Skinner  
 Address: P.O. Drawer 369  
Glennville, W.Va. 26351  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name: Stephen Casey  
 Address: Route 2, Box 232-D  
Jane Lew, W.Va. 26378  
 9) DRILLING CONTRACTOR: UNKNOWN  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

10) PROPOSED WELL WORK: Drill  / Redrill \_\_\_\_\_ / deeper \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify): \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION: Alexander (Devonian)

12) Estimated depth of completed well, \_\_\_\_\_ feet  
 13) Approximate true depths: Fresh, 125 feet; salt, 1200 feet.  
 14) Approximate coal seam depths: None Is coal being mined in the area? Y  
DEPT. OF MINES

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		
Conductor							
Fresh water							
Coal							
Intermediate	8-5/8		23#	X		250	CTS Kinds <u>By Pak sizes</u>
Production	4-1/2		10.5#	X		1800	CTS
Tubing						5940	725 SKS Depths set
Liners							Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3209-Ren Date November 17, 1983

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 17, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee
<u>BLANKET BOND</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>2799</u>

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

Administrator, Office of Oil and Gas

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

