



LONGITUDE : 80° 47' 30"

NORTH

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Spot El. at road, SE of Location ELEV. = 858'

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
 (SIGNED) MARK C. ECHARD

R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE FEBRUARY 28, 19 83
 OPERATOR'S WELL NO. THREE
 API WELL NO. 47 - 017 - 3304
 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 1320' WATER SHED SHEEP RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' 507 Holbrook 15' NE₃
 SURFACE OWNER THOMAS C. GREEN et al ACREAGE 70.25
 OIL & GAS ROYALTY OWNER BRADLEY LEGGETT LEASE ACREAGE 70.25
 LEASE NO. _____
 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 162 ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC. DESIGNATED AGENT MR. ALTON SKINNER
 ADDRESS P.O. BOX 297 ADDRESS P.O. BOX 297
GLENVILLE, W.Va. 26351 GLENVILLE, W.Va. 26351

APR 16 1984

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IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date July 19, 1984
Operator's Well No. Bradley Leggett #3
Farm T.C. Green, et al
API No. 47 - 017 - 3304

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1320 Watershed Sheep 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 T.C. Green, et al
ADDRESS Route 1, West Union, WV 26426
MINERAL RIGHTS OWNER Bradley Leggett
ADDRESS Routel, Box 79, West Union, WV 26426
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Salem, WV 26486
PERMIT ISSUED 4/09/84
DRILLING COMMENCED 4/15/84
DRILLING COMPLETED 4/21/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.	229	229	100
13-10"			
9 5/8			
8 5/8	1416	1416	240
7			
5 1/2			
4 1/2	5500	5500	700
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5990 feet
Depth of completed well 5700 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 170 feet; Salt - feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander, Balltown, Speechley pay zone depth 3408 - 3574 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 780 Mcf/d Final open flow Show Bbl/d
Time of open flow between initial and final tests N/A hours
Static rock pressure 1720 psig (surface measurement) after 2 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 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 Alexander ⁴³⁶ 5326 to 5370, 18 holes, 610 Bbls total fluid, 10,000# 80/100, 60,000# 20/40
 Fraced Balltown ⁴³⁶ 3888 to 4182, 11 holes, 550 Bbls total fluid, 10,000# 80/100, 45,000# 20/40
 Fraced Speechley ⁴³⁷ 3408 to 3574, 15 holes, 565 Bbls total fluid, 10,000# 80/100, 45,000# 20/40

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres. and salt water, coal, oil and ga
Clay and Shale			0	10	
Shale, Sand, Redrock			10	140	
White Sand			140	160	
Shale, Sand, Redrock			160	870	Damp at 170' ½" stream
Sand			870	890	
Shale, Sand, Redrock			890	1265	Damp at 1150' Oil odor
Sand			1265	1440	
Sand, Shale			1440	2005	Wet at 1570' 2" stream
Little Lime			2005	2020	
Sand, Shale			2020	2046	
³⁴⁰ Big Lime			2046	2110	
³⁶² Injun			2110	2194	Oil odor at 2120'
Shale			2194	2350	
³²⁷ Weir			2350	2470	
Shale			2470	2589	
Berea			2589	2596	
Sand, Shale			2596	2770	
⁴¹⁹ Gordon			2770	2790	
Sand, Shale			2790	2920	
⁴⁰¹ Fifth Sand			2920	2930	
Sand, Shale			2930	3410	
⁴³² Speechley			3410	3590	
Sand, Shale			3590	3800	
⁴³³ Balltown			3800	4200	
Sand, Shale			4200	4490	
Riley			4490	4894	
Sand, Shale			4894	5044	
⁴⁰⁵ Benson			5044	5052	
Sand, Shale			5052	5330	
Alexander			5330	5392	
Sand, Shale			5392	5700 TD	

(Attach separate sheets as necessary)

Chase Petroleum, Inc.
 Well Operator
 By: Alton Shiner
 Date: July 19, 1984

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 ^{encountered}, encountered in the drilling of a well."



1) Date: February 17, 19 84
 2) Operator's Well No. Bradley Leggett #3
 3) API Well No. 47 - 017 - 3304
 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 / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1320 Watershed: Sheep Run
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5
- 6) WELL OPERATOR Chase Petroleum, Inc. 7) DESIGNATED AGENT Alton Skinner
 Address P.O. Drawer 369 Address P.O. Drawer 369
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name H. Mike Underwood 9) DRILLING CONTRACTOR:
 Name S.W. Jack Drilling Co.
 Address Rt 2--Bx 114 Address Buckhannon, WV 26201
Salem, WV 26426
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander (Devonian Shale)
- 12) Estimated depth of completed well, 5990 feet
 13) Approximate trata depths: Fresh, 120 feet; salt, 1200 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes

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OIL & GAS DIVISION
 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	For drilling	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		20#	X		400	400	CTS	Depths set
Production	4-1/2		10.5#	X		5940	5940	725 Sks	
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3304 Date April 9, 1984

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 April 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond <u>MARKET</u>	Agent: <u>LP</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>3171</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) Cut 200 feet 15" hole. If dusting at 200', change over to 11" or 10-5/8" to 400' and run 8-5/8". If there is water in first 200', must run 200' of 11-3/4" casing and cement to surface (by rule 15.05), and then ~~drill to 400'~~ drill to 400', and run 8-5/8" casing.

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	<u>Date</u>	<u>Date(s)</u>
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____