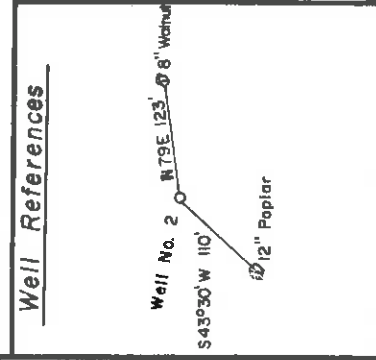
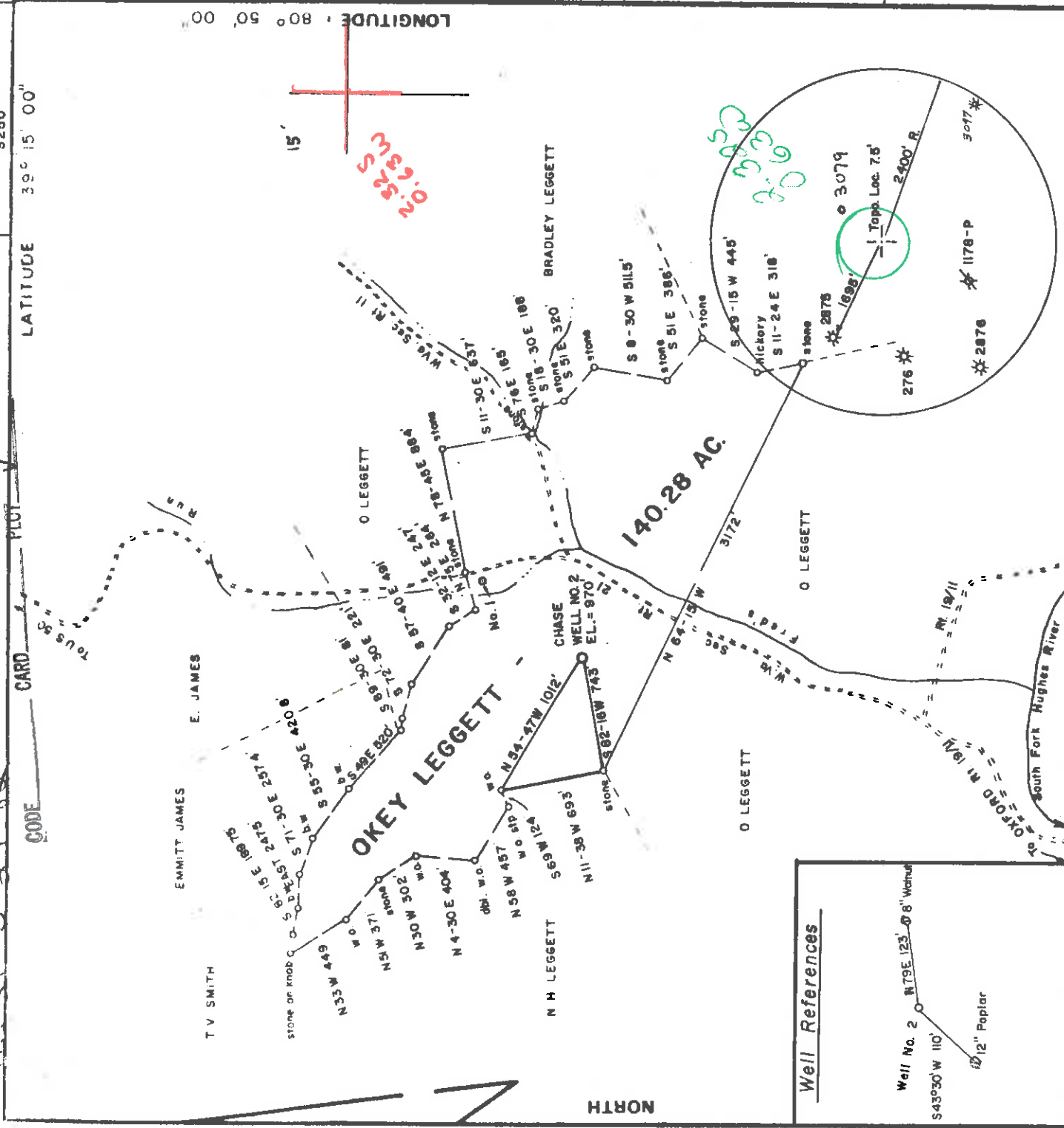


W-3-29-82

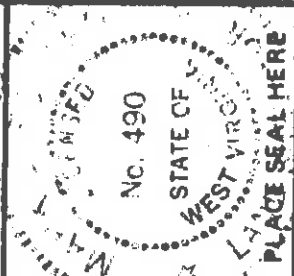
3250' LATITUDE 39° 15' 00" LONGITUDE 80° 50' 00"

Dodd. 3089



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF _____
 ACCURACY 1/200
 PROVEN SOURCE OF _____
 ELEVATION Jet. roads E of Loc. _____
 ELEV. = 869'

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.
 (SIGNED) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8.78)



DATE OCTOBER 11 1984
 OPERATOR'S WELL NO. TWO
 API WELL NO. 47-017-3374
 STATE COUNTY PERMIT
 Formerly: DOD-3089

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 970 WATER SHED FRED'S RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5 Hobcock 15' NC
 SURFACE OWNER OKEY LEGGETT HEIRS
 OIL & GAS ROYALTY OWNER OKEY LEGGETT HEIRS
 LEASE NO. _____ LEASE ACREAGE 140.28

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 MARCELLUS SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC DESIGNATED AGENT MR ALTON SKINNER
 ADDRESS P.O. BOX 297
 GLENVIEW, W.V. 26351

6-6 Straightfork-Bluestone Creek (1.33)

NOV 13 1984

TRASCO

IV-35
(Rev 8-81)

RECEIVED

FEB 27 1985

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



Date February 25, 1985
Operator's Well No. Okey Leggett #2
Farm Okey Leggett
API No. 47 - 017 - 3374

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 /

LOCATION: Elevation: 970 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 James Leggett

ADDRESS Lexington, KY 40502

MINERAL RIGHTS OWNER James Leggett

ADDRESS Lexington, KY 40502

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED 11/2/84

DRILLING COMMENCED 12/4/84

DRILLING COMPLETED 12/9/84

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 Cond.			
13-10"	30	0	
9 5/8			
8 5/8	1159	1159	270
7			
5 1/2			
4 1/2	5201	5201	820
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale

Depth of completed well 5350 feet Rotary X / Cable Tools
none

Water strata depth: Fresh 270 feet; Salt recorded feet

Coal seam depths: 214-216 Is coal being mined in the area? No
5026-5074
4357-4757
3336-3656

OPEN FLOW DATA

Benson

Producing formation Alexander, & Riley, Balltown Pay zone depth

Gas: Initial open flow 70 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 610 Mcf/d Final open flow Show Bbl/d

Time of open flow between initial and final tests N/A hours

Static rock pressure 1710 psig (surface measurement) after 4 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

MAR 11 1985

(Continue on reverse side)

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

Fraced Alexander 5026-5074, 14 holes, 580 Bbls Water, 40,000# 20/40, 10,000# 80/100
 Fraced Benson & Riley ^{Riley} 4357-4757, 12 holes, 562 Bbls Water, 40,000# 20/40, 10,000# 80/100
 Fraced Balltown ^{Balltown} 3336-3656, 13 holes, 553 Bbls Water, 40,000# 20/40, 10,000# 80/100

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Sand, Shale			0	60	
Red Rock, Sand, Shale			60	214	
Coal			214	216	
Sand, Shale			216	1805	1/2" stream H2O @ 270'
Little Lime			1805	1820	
Big Lime			1820	1880	
Sand, Shale			1880	1884	
Injun			1884	1904	
Sand, Shale			1904	1938	
Squaw			1938	1952	
Sand, Shale			1952	2116	
Weir			2116	2244	
Sand, Shale			2244	2312	
Berea			2312	2314	
Sand, Shale			2314	2742	
Fifth Sand			2742	2750	
Sánd, Shale			2750	3200	
Speechley			3200	3240	
Sand, Shale			3240	3336	2/10-1" F.M. W/H2O @ 3500'
Balltown			3336	3656	4/10-1" F.M. W/H2O @ 4011'
Sand, Shale			3656	4357	4/10-1" F.M. W/H2O @ 4494'
Benson, Riley			4357	4757	8/10-1" F.M. W/H2O @ 4782'
Sand, Shale			4757	5026	14/10-1" F.M. W/H2O @ 5007'
Alexander			5026	5074	TD
Sand, Shale			5074	5350	

(Attach separate sheets as necessary)

Chase Petroleum, Inc.
Well Operator

By: *Victor K...*
Date: February 25, 1985

Notes: 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, shale, limestone, etc. encountered in the drilling of a well."



1) Date: October 16, 19 84

2) Operator's Well No. Okey Leggett #2

3) API Well No. 47-017-30893374
State County Permit

Renewal (formerly 3089)

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 Undergrnd storage Deep Shallow
5) LOCATION: Elevation: 970 Watershed: Fred's Run
District: Southwest County: Doddridge Quadrangle: Oxford 7.5
6) WELL OPERATOR: Chase Petroleum 7) DESIGNATED AGENT: Alton Skinner
Address: P.O. Drawer 369 P.O. Drawer 369
Glenville, WV 26351 5800 Glenville, WV 26351
8) OIL & GAS INSPECTOR TO BE NOTIFIED: 9) DRILLING CONTRACTOR:
Name: Mike Underwood Name: Unknown
Address: Route 2-Box 114 Address:
Salem, WV 26426

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

11) GEOLOGICAL TARGET FORMATION: Marcellus Shale
12) Estimated depth of completed well, 5990 feet
13) Approximate trata depths: Fresh, 100 feet; salt, 300 feet.
14) Approximate coal seam depths: None Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh water						
Coal						
Intermediate	8-5/8		20#	400	400	CTS
Production	4-1/2		10.5#	5940	5940	725 Sks
Tubing						
Liners						

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3374 Date November 2, 19 84

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 2, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
35	TS	TS	TS	3774

Margaret J. Skoer
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

