

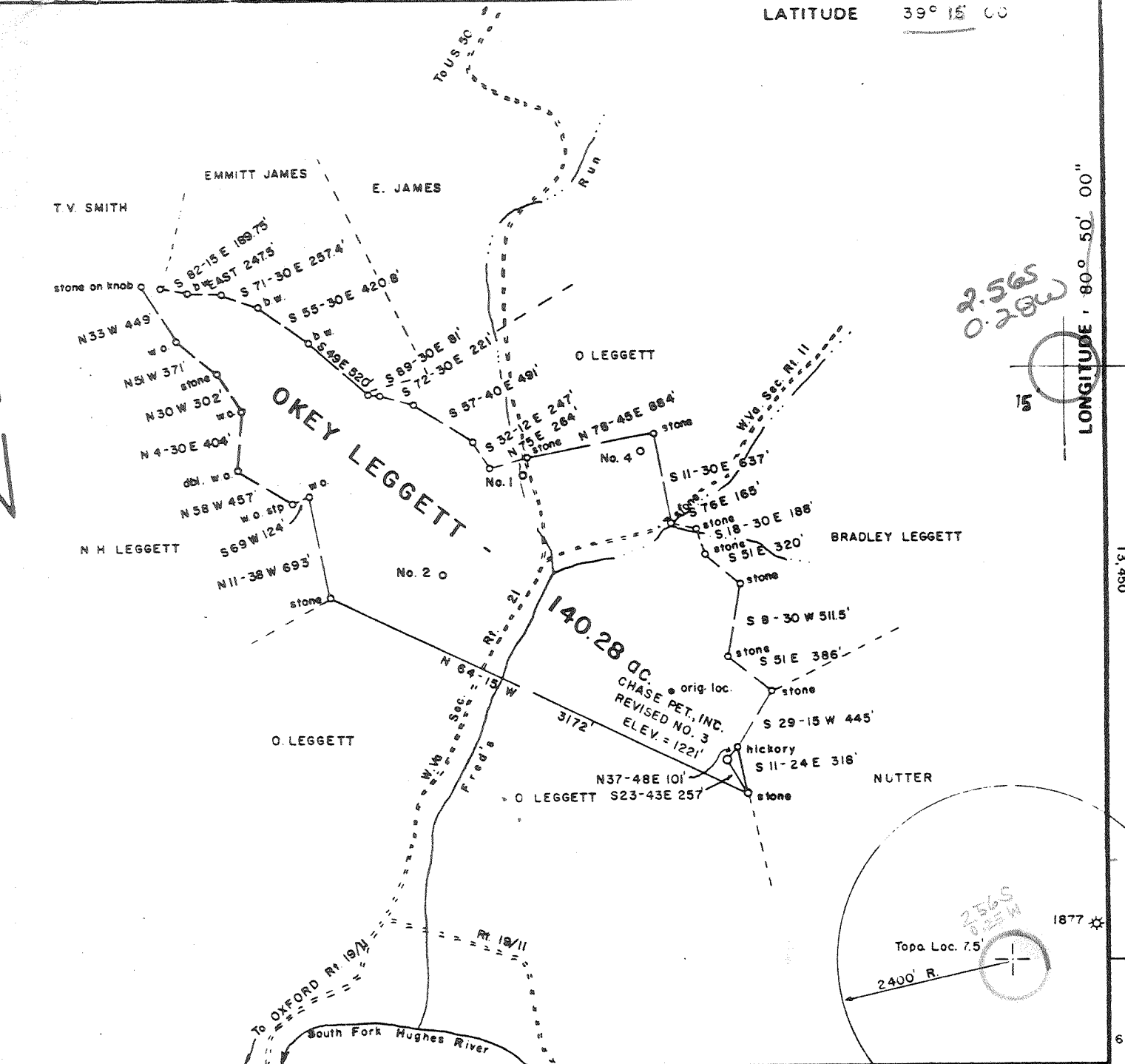
111.2. 9-3-82

1300'

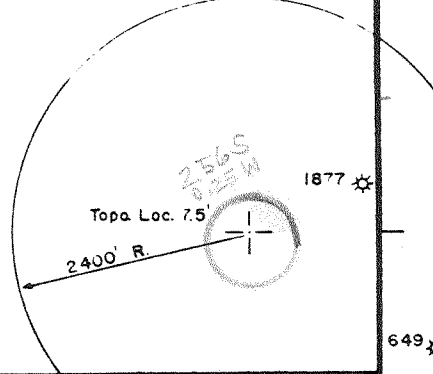
LATITUDE 39° 15' 00"

LONGITUDE 80° 50' 00"

NORTH



2.56S
0.28W



FILE NO. CHASE 1-56
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top of Knob SW of Location ELEV. = 1226'

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

29540 * 2897
 PLACE SEAL HERE

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



DATE FEBRUARY 15, 19 82
 OPERATOR'S WELL NO. THREE (REVISED)
 API WELL NO. _____
47 - 017 - 3097
 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 1221' WATER SHED FRED'S RUN
 DISTRICT SOUTH WEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 75' Hobbrook 15' NC
 SURFACE OWNER OKEY LEGGETT ACREAGE 140.28
 OIL & GAS ROYALTY OWNER OKEY LEGGETT LEASE ACREAGE 140.28
 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) _____

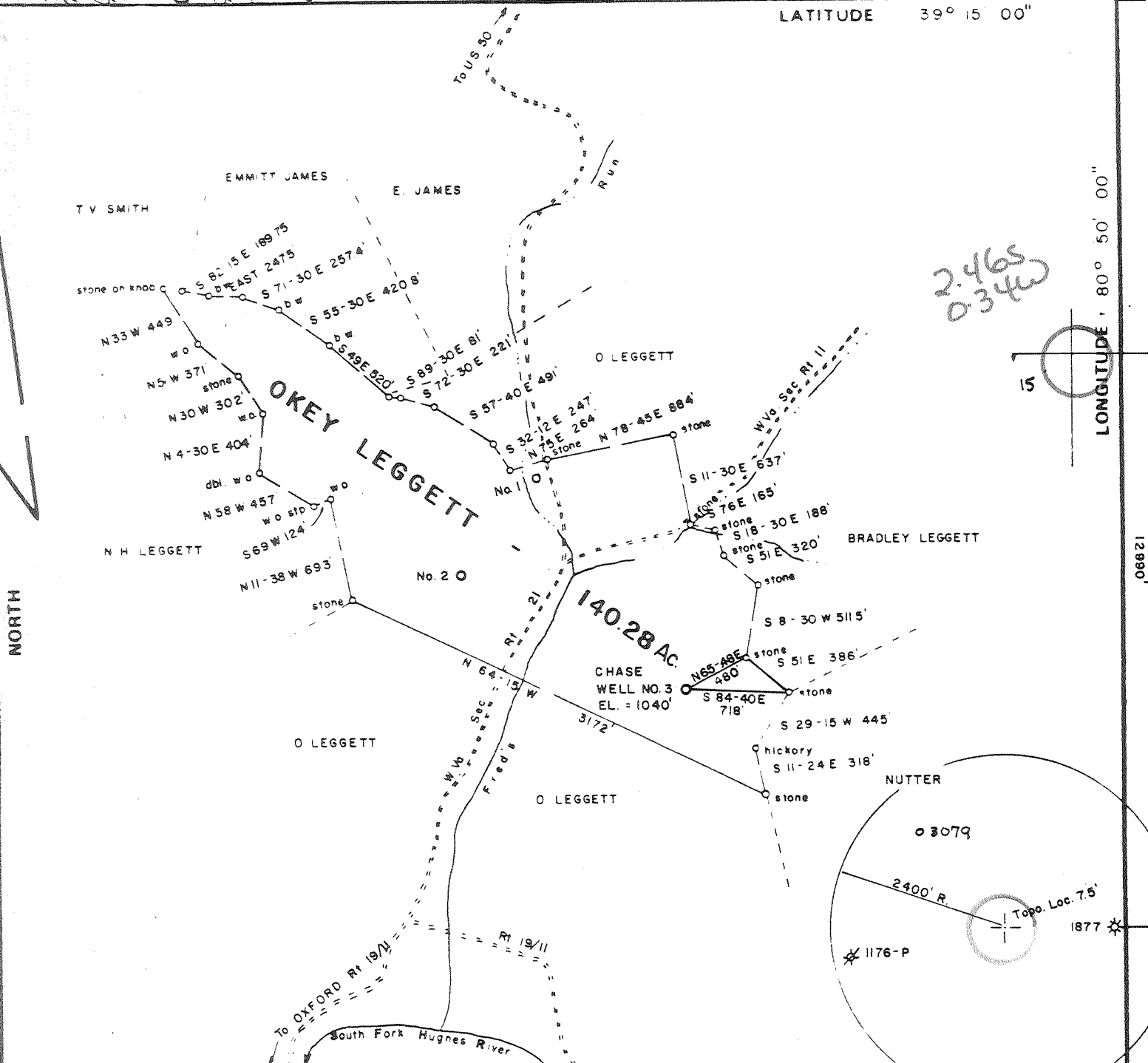
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5990' 6-6 Straight Fork-Blinestone Creek (133)
 WELL OPERATOR CHASE PETROLEUM, INC. DESIGNATED AGENT MR. ALTON SKINNER
 ADDRESS P.O. BOX 297 ADDRESS P.O. BOX 369 APR 28 1982
G. ENV. - E. W. Va. 26351 GLENVILLE, W. Va. 26355

M. 2 3-24-82

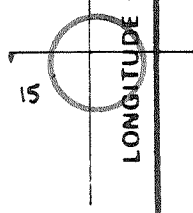
1650'

LATITUDE 39° 15' 00"

LONGITUDE 80° 50' 00"



2.465
0.34w



12890'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Jct. rds NW 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.

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
 (8 781)



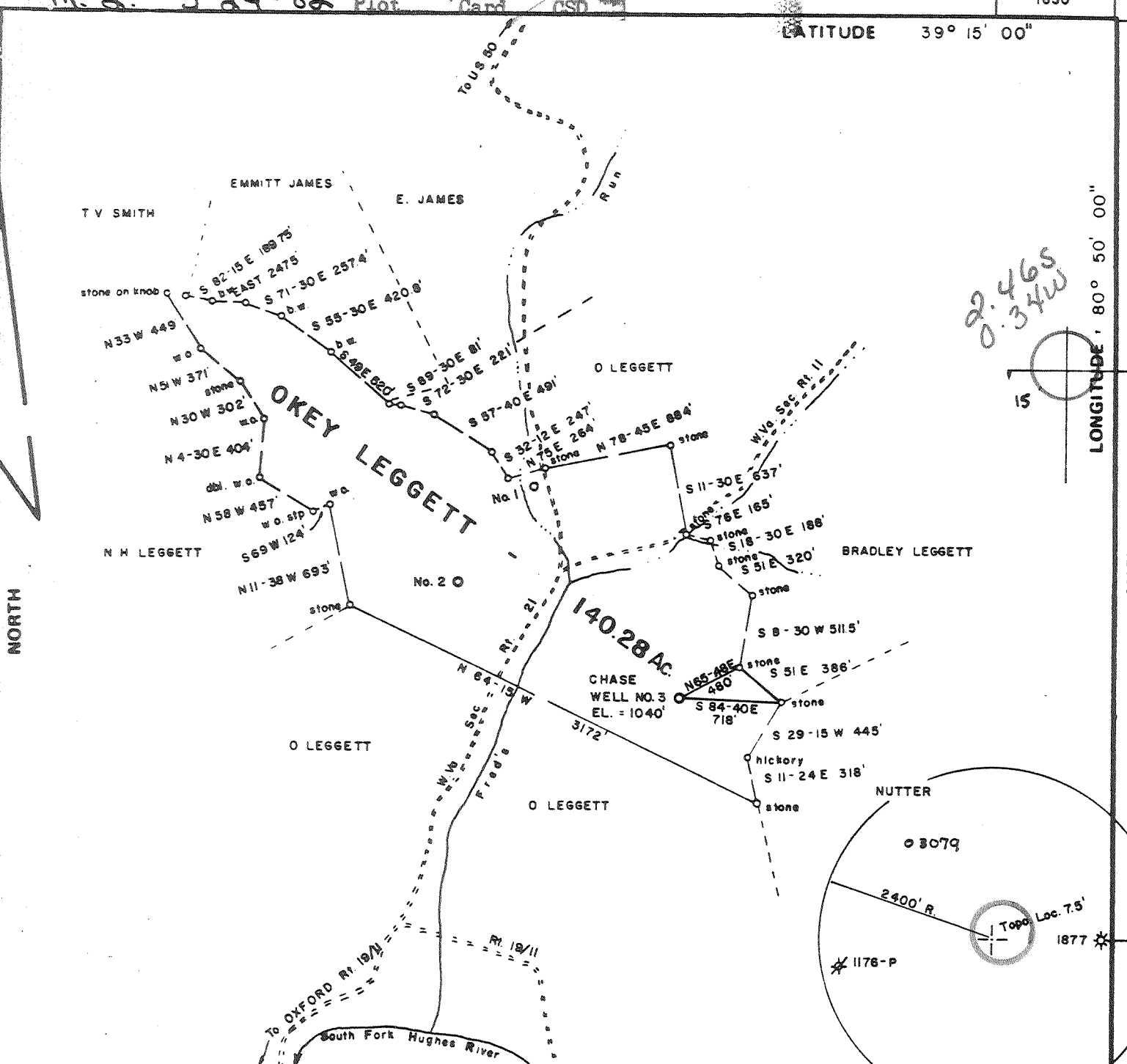
DATE FEBRUARY 15, 1982
 OPERATOR'S WELL NO. THREE
 API WELL NO. _____
47 - 017 - 3090
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Cancel?

WELL TYPE OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS.") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION ELEVATION 1040' WATER SHED FRED'S RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5'
 SURFACE OWNER OKEY LEGGETT ACREAGE 140.28
 OIL & GAS ROYALTY OWNER OKEY LEGGETT LEASE ACREAGE 140.28
 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 MARCELLUS SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC DESIGNATED AGENT MR ALTON SKINNER
 ADDRESS PO BOX 297 ADDRESS PO BOX 369
GLENNVILLE, W.Va 26351 GLENNVILLE, W.Va 26351

APR 28 1982



2.465
0.34W



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Jct. rds NW 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
 R.P.E. _____ L.L.S. 490

2954
 PLACE SEAL HERE

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



DATE FEBRUARY 15 1982
 OPERATOR'S WELL NO. THREE
 API WELL NO. 47-017-3090
 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 1040' WATERSHED FRED'S RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 75' Holbrook 15' NC
 SURFACE OWNER OKEY LEGGETT ACREAGE 140.28
 OIL & GAS ROYALTY OWNER OKEY LEGGETT LEASE ACREAGE 140.28
 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 MARCELLUS SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC DESIGNATED AGENT MR ALTON SKINNER
 ADDRESS PC BOX 297 ADDRESS PC BOX 369
 GLENVILLE, W.Va. 26351 GLENVILLE, W.Va. 26351

APR 6 1982

RECEIVED

JUL 19 1984



IV-35
(Rev 8-81)

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

Date 7/19/84
Operator's Okey Leggett #3
Well No. Okey Leggett #3
Farm Okey Leggett
API No. 47 - 017 - 3097 REN

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: 1221 Watershed Freds 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 Glenville, WV. 26351
SURFACE OWNER Okey Leggett
ADDRESS West Union, WV. 26456
MINERAL RIGHTS OWNER Okey Leggett
ADDRESS West Union, WV. 26456
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Salem, WV. 26426
PERMIT ISSUED January 18, 1984
DRILLING COMMENCED February 2, 1984
DRILLING COMPLETED February 9, 1984
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	24	0	
9 5/8			
8 5/8	1300.90	1300.90	CTS
7			
5 1/2			
4 1/2	5433	5433	550
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale (Devonian) Depth 5990 feet
Depth of completed well 5550 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 210 feet; Salt None feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Alexander, Benson, Balltown Pay zone depth 3771-4155 feet
Gas: Initial open flow 222 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 625 Mcf/d Final open flow Show Bbl/d
Time of open flow between initial and final tests n/a hours
Static rock pressure 1570 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

5224-5262
4135-4895

(Continue on reverse side)

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

439 Fraced Alexander 5224-5262 13 holes 653 Bbls total fluid 10,000# 80/100, 50,000# 20/40
 435 Fraced Benson 4315-4895 13 holes 505 Bbls total fluid 10,000# 80/100, 34,000# 20/40
 43 Fraced Balltown 3771-4155 13 holes 583 Bbls total fluid 10,000# 80/100, 47,000# 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			0	24	
White Sand, Shale & Redrock			24	210	Damp @ 210'
Gray Sand, Shale & Redrock			210	225	
Sand, Shale & Redrock			225	1565	Damp @ 1400'
Black Shale			1565	1615	
White Sand, Shale & redrock			1615	2010	
Big Lime			2010	2072	
Injun Sand			2072	2148	
Sand, Mississippian Shale			2148	2310	117,302 CF Gas @ 2150'
Weir Sand & Mississippian Shale			2310	2440	
Sand & Mississippian Shale			2440	2510	
Sand & Devonian Shale			2510	2712	99,156 CF Gas @ 2662'
Gorden Sand & Devonian Shale			2712	2724	
Sand & Devonian Shale			2724	2875	
Fifth Sand & Devonian Shale			2875	2880	
Sand & Devonian Shale			2880	3370	99,156 CF Gas @ 3174'
Speechly Sand & Devonian Shale			3370	3460	
Sand & Devonian Shale			3460	3774	88,688 CF Gas @ 3655'
Balltown Sand & Devonian Shale			3774	3848	
Sand & Devonian Shale			3848	4320	88,688 CF Gas @ 3655'
Riley Sand & Devonian Shale			4320	4576	
Sand & Devonian Shale			4576	4900	82,960 CF Gas @ 4680'
Stray Benson Sand & Devonian Shale			4900	4906	
Sand & Devonian Shale			4906	4970	
Benson Sand & Devonian Shale			4970	4976	
Sand & Devonian Shale			4976	5230	88,688 CF Gas @ 5188'
Alexander Sand & Devonian Shale			5230	5290	
Sand & Devonian Shale			5290	5550 TD	70,114 CF Gas @ 5550'

(Attach separate sheets as necessary)

Chase Petroleum, Inc.

Well Operator

By: Alton Skinner

Date: 7/19/84

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 ... encountered in the drilling of a well."



Well No. Okey Leggett #3
Farm Okey Leggett
API # 47 - 017 - 3090
Date March 18, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 1040 Watershed: Fred's Run
District: Southwest County: Doddridge Quadrangle: Oxford 7.5

WELL OPERATOR Chase Petroleum, Inc.
Address P.O. Drawer 369
Glenville, WV 26351

DESIGNATED AGENT Alton Skinner
Address P.O. Drawer 369
Glenville, WV 26351

OIL AND GAS
LOYALTY OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OPERATOR none
Address _____

SURFACE OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Lessor (if any)
Address _____

FIELD SALE (IF MADE) TO:
NAME uncommitted
Address _____

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Casey
Address Route 2, Box 232D
Jane Lew, WV 26378
Telephone 884-7470

COAL LESSEE WITH DECLARATION ON RECORD:
NAME none
Address _____

RECEIVED
MAR 22 1982
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 9/23, 1981, to the undersigned well operator from Okey Leggett.

(If said deed, lease, or other contract has been recorded:)

Recorded on 9/24, 1981, in the office of the Clerk of County Commission of

Doddridge County, West Virginia, in Lease 122 Book at page 95. 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) _____

--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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

Chase Petroleum, Inc.
Well Operator
By: Alton Skinner
Its: Agent

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) unknown

Address _____

GEOLOGICAL TARGET FORMATION Marcellus Shale (Devonian)

Estimated depth of completed well 5990 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 30 feet; salt, ---- feet.
Approximate coal seam depths: none
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	11 3/4				X	30	-0-		Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8		23#	X		1400	1400	CTS	
Production Tubing	4 1/2		10.5#	X		5940	5940	700 SKS	Depths set
Liners									Perforations: Top Bottom

NOTE: 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.
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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 11-26-82
BY [Signature]

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:

W A I V E R

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 regularions.

Date: , 19 .

By: _____

Its: _____



Revised
Well No. Okey Leggett #3
Farm Okey Leggett
API # 47 -017 - 3097
Date March 26, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas x /

(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x /

LOCATION: Elevation: 1221 Watershed: Fred's Run
District: Southwest County: Doddridge Quadrangle: Oxford 7.5

WELL OPERATOR Chase Petroleum, Inc.
Address P.O. Drawer 369
Glennville, WV 26351

DESIGNATED AGENT Alton Skinner
Address P.O. Drawer 369
Glennville, WV 26351

OIL AND GAS ROYALTY OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OPERATOR none
Address _____

SURFACE OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Lessor (if any)
Address _____

FIELD SALE (IF MADE) TO:
NAME uncommitted
Address _____

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Casey
Address Route 2, Box 232 D
Jane Lew, WV 26378
Telephone 884-7470

COAL LESSEE WITH DECLARATION ON RECORD:
NAME none
Address _____

RECEIVED

APR 2 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 9/23, 1981, to the undersigned well operator from Okey Leggett.

(If said deed, lease, or other contract has been recorded:)

Recorded on 9/24, 1981, in the office of the Clerk of County Commission of Doddridge County, West Virginia, in Lease Book at page 95. 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) _____

--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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Chase Petroleum, Inc.
Well Operator

By: Alton Skinner
Its: Agent

BLANKET BOARD

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) unknown

Address _____

GEOLOGICAL TARGET FORMATION Marcellus Shale (Devonian)

Estimated depth of completed well 5990 feet. Rotary / Cable tools /
Approximate water strata depths: Fresh, 30 feet; salt, ----- feet.
Approximate coal seam depths: none
Is coal being mined in this area: Yes / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	11 3/4				x	30	-0-		Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8		23#	x		1400	1400	CTS	
Production Tubing	4 1/2		10.5#	x		5940	5940	725 SKS	Depths set
Liners									Perforations: Top Bottom

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR Drilling . THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 12-5-82 .

BY [Signature]

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:

W A I V E R

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 regularions.

Date: , 19 .

By: _____

Its: _____



1) Date: January 3, 19 84
 2) Operator's Well No. Okey Leggett #3 Rev. _____
 3) API Well No. 47 - 017 - 3097-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 X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1221 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 Address P.O. Drawer 369
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name S.W. Jack Drilling Co.
Mike Underwood Address P.O. Drawer 48
 Address P.O. Box 232-D Salem, WV 26426 Buckhannon, WV 26201
James Lew, WV XXXX 26378 782-1043
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale (Devonian)
 12) Estimated depth of completed well, 5990 feet
 13) Approximate strata depths: Fresh, 30 feet; salt, 1200 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No X /

RECEIVED
 JAN 14 - 1984
 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 DEPT. OF MINES
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11-3/4				X	50	50		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23#	X		1400 / 321	1400 / 321	CTS	WEAT
Production	4-1/2		10.5#	X		5940	5940	725 Sks	Depths set
Tubing									or as req. by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3097-Ren Date January 19, 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 January 19, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>3000</u>	Agent: <u>LA</u>	Plat: <u>ML</u>	Casing: <u>ML</u>	Fee: <u>3027</u>
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T. J. ...
 Administrator, Office of Oil and Gas

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