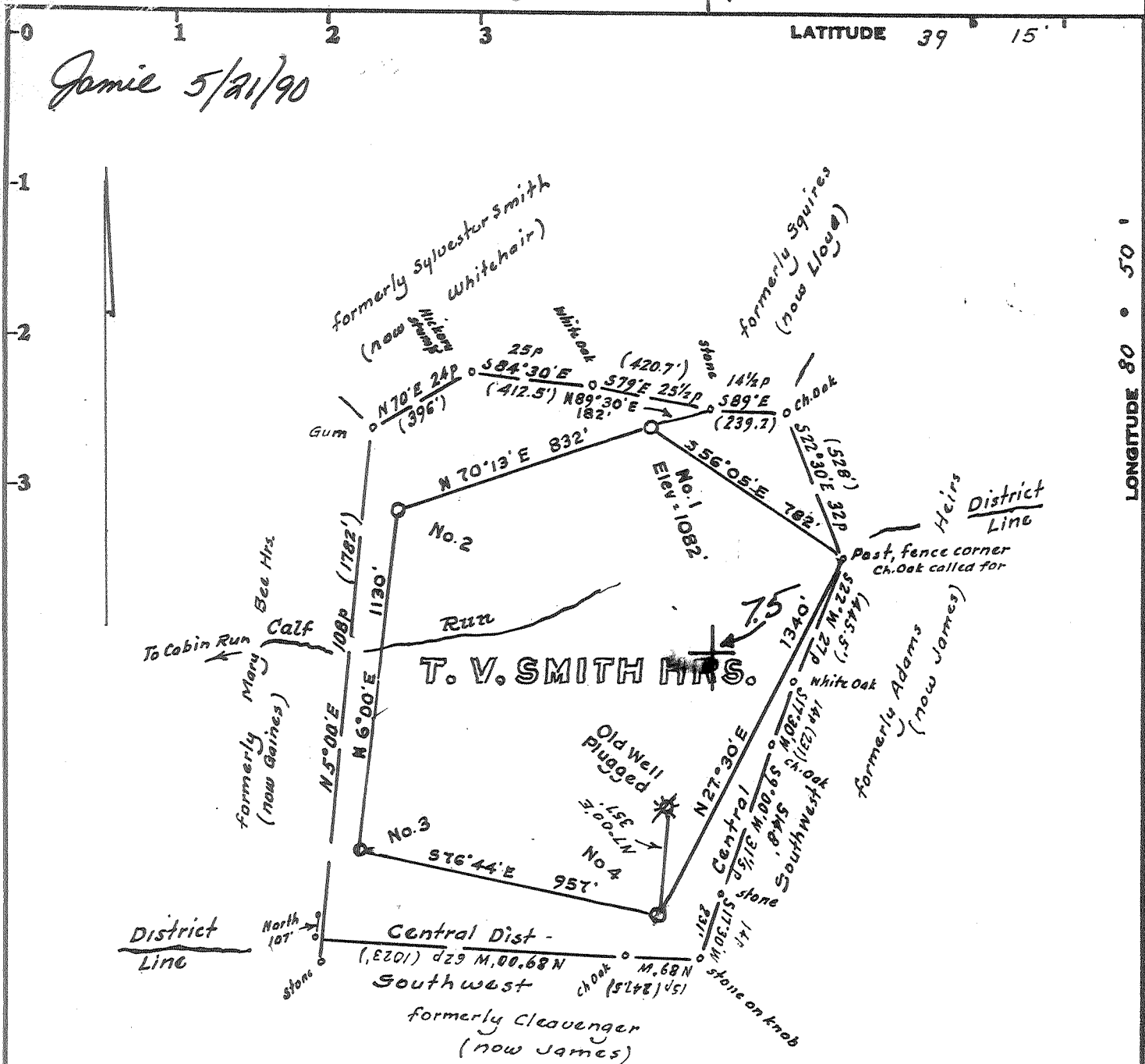


Jamie 5/21/90



OWNERSHIP

No coal
 Minerals: Clara Smith, et al., Pennsboro, W. Va.
 Surface: - Emmitt James, Oxford, W. Va.

Minimum Error of Closure 1 in 2500

Source of Elevation USGS elev on road at District Line 1/2 mi east = 1060

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Map No.

Company CONTINENTAL RESERVES
 Address 147-3 W. MAIN ST. BRIDGEPORT, W.V. 26330
 Farm T. V. Smith's Heirs
 Tract _____ Acres 67 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1082
 Quadrangle Oxford 7 1/2
 County Doddridge District Central
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Dec. 14, 1979 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

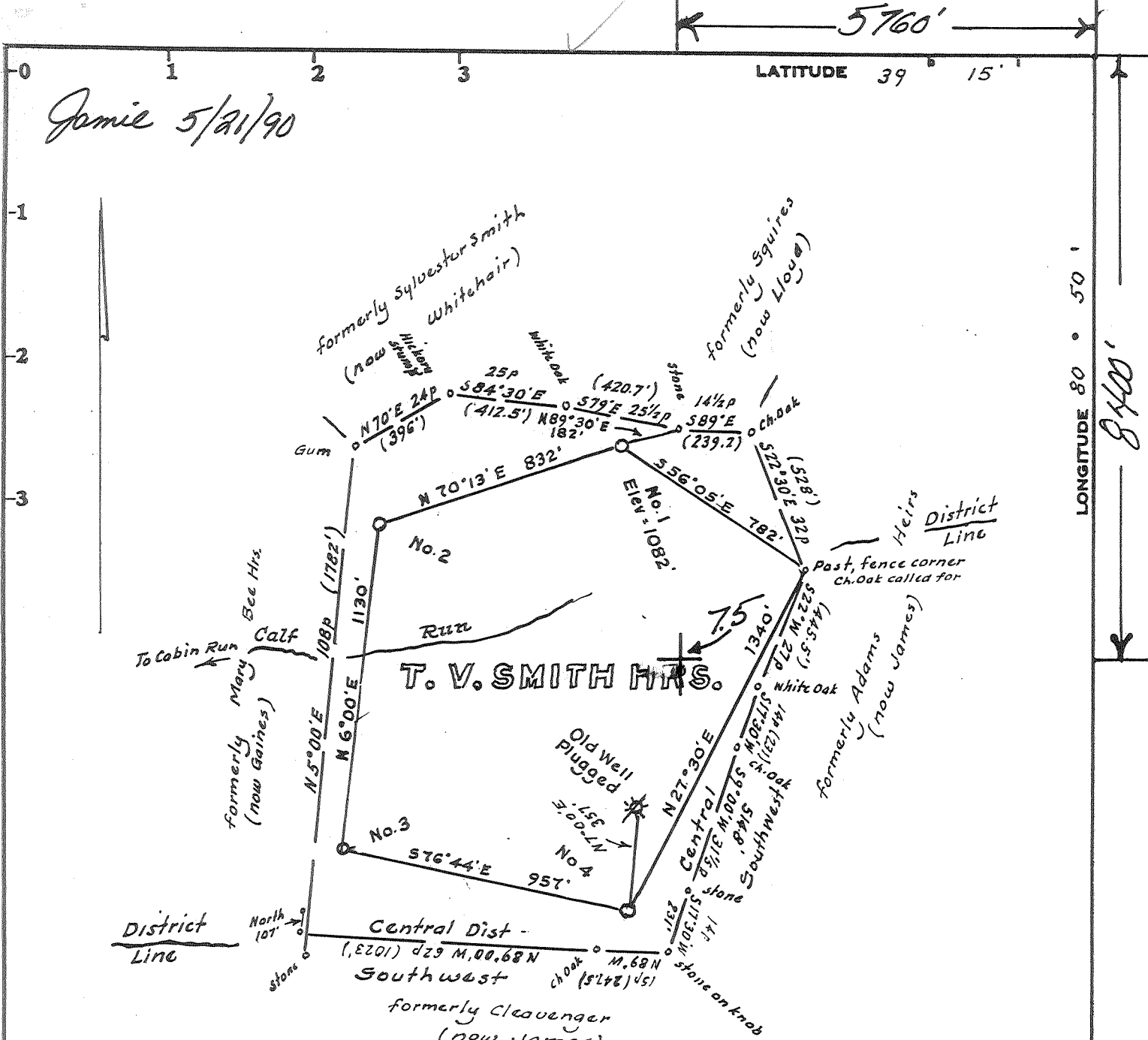
FILE NO. 47-017-2557

CANCELLED

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

LONGITUDE 80° 50' 0400 8400 0600 2557 P

Jamie 5/21/90



OWNERSHIP

No coal
 Minerals: Clara Smith, et al., Pennsboro, W. Va.
 Surface: - Emmitt James, Oxford, W. Va.

Minimum Error of Closure 1 in 2500

Source of Elevation USGS elev on road at District Line 1/2 mi east = 1060

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Company CONTINENTAL RESERVES
 Address 147-3 W. MAIN ST. BRIDGEPORT, W.V. 26330
 Farm T. V. Smith's Heirs
 Tract _____ Acres 67 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1082
 Quadrangle Oxford 7 1/2
 County Doddridge District Central
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Dec. 14, 1979 Scale 1" = 500'

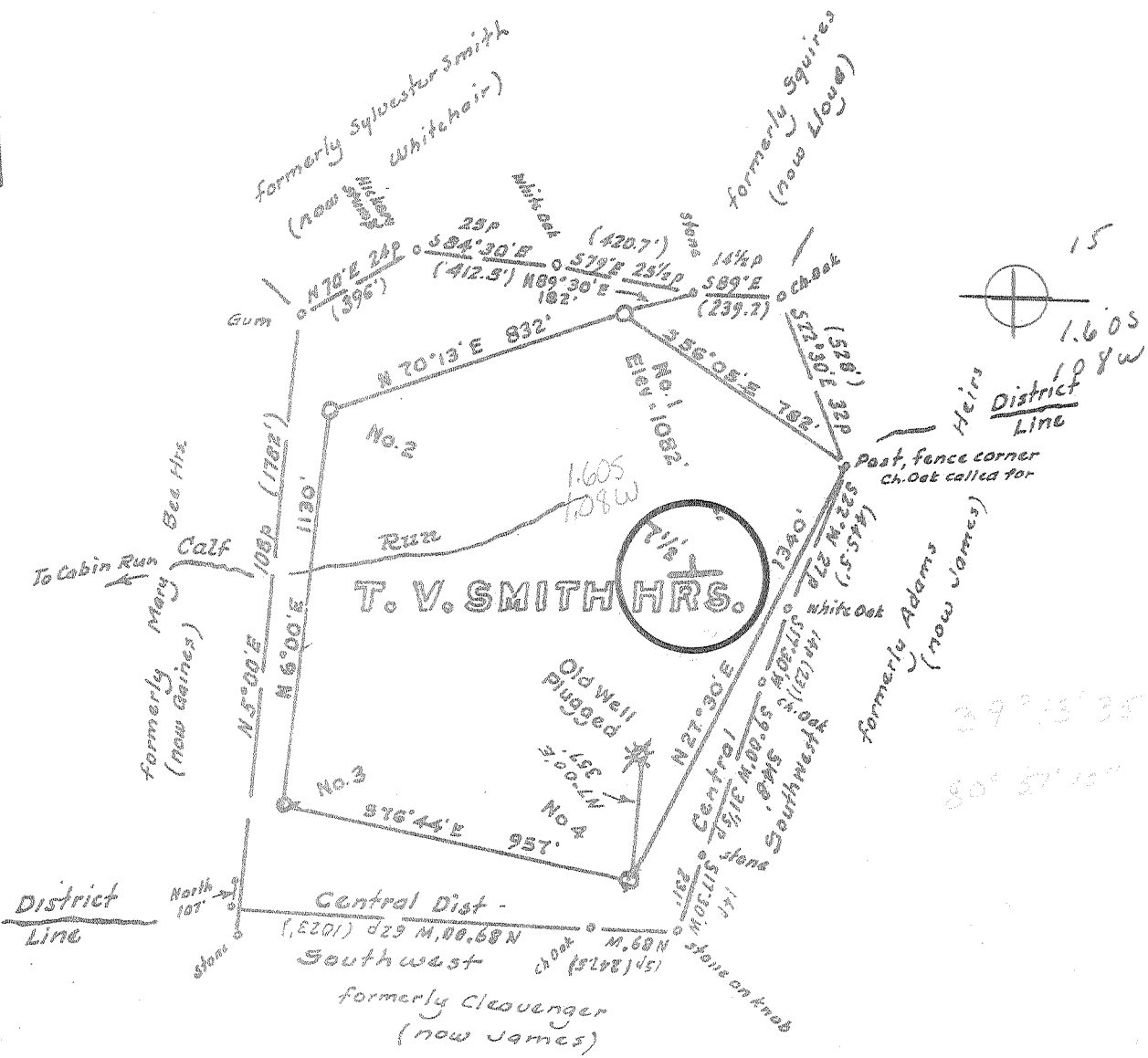
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. 47-017-2557 [Signature]

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



OWNERSHIP

No coal
 Minerals: Clara Smith, et al., Pennsboro, W. Va.
 Surface: - Emmit James, Oxford, W. Va.

Minimum Error of Closure 1 in 2500

Source of Elevation USGS elev on road at District Line 1/2 mi east = 1060

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Map No.

Company CHASE PETROLEUM CORP.
 Address P.O. Drawer 369, Glenville, W. Va
 Farm T.V. Smith's Heirs
 Tract _____ Acres 67 Lease No. _____
 Well (Farm) No One Serial No. _____
 Elevation (Spirit Level) 1082 NC
 Quadrangle Oxford 7 1/2 Holbrook 15'
 County Doddridge District Central
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Dec. 14, 1979 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. 017-2557

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

R. L. Y 4200
 6-6 Straight Fork-Bluestone Creek (133) JAN 15 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date July 24, 1980

FORM IV-35
(Obverse)

Operator's
Well No. T.V. Smith # 1
API Well No. 47 - 017 - 25
State County Perm

[08-78]

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

WELL TYPE: Oil / Gas / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production / Underground storage ___ / Deep ___ / Shallow)
LOCATION: Elevation: 1082 Watershed: Calf Run
District: Central County: Doddridge Quadrangle: Oxford 7 1/2

WELL OPERATOR Chase Petroleum DESIGNATED AGENT Alton Skinner
Address PO Drawer 369 Address PO Box 297
Glenville, WV 26351 Glenville, WV 26351

PERMITTED WORK: Drill / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON December 20, 1979 OIL & GAS INSPECTOR FOR THIS WORK:
Name: Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address 321 Beech Street
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Riley Depth: 4200 feet
Depth of completed well, 3700 feet Rotary / Cable Tools ___
Water strata depth: Fresh, 55 feet; salt, ___ feet.
Coal seam depths: no coal Is coal being mined in the area? no
Work was commenced January 4, 1980, and completed January 8, 1980

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	11 3/4				x	20	-0-	Minds
fresh water								Sizes
intermediate	8 5/8		23#	x		982	982	CTS
production	4 1/2		10.5#	x		3665	3665	450 sacks Depth set
tubing								Perforations:
liners								Perforations: Bottom

OPEN FLOW DATA

Producing formation Weir Pay zone depth 2436-2510 feet
Gas: Initial open flow, 45 Mcf/d Oil: Initial open flow, 3 bbl/d
Final open flow, 1,050 Mcf/d Final open flow, 0 bbl/d
Time of open flow between initial and final tests, 10 hours
Static rock pressure, 800 psig (surface measurement) after 7 days 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 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.

AUG 11 1980

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

Graced Weir 2436-2510, 25 holes, 960bbls total fluid, 60,000 # 80/100
60,000 # 20/40

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Cond.			C.L.	50	
Sand			50	76	
Sand & Shale			76	100	
Sand			100	120	
Red Rock & Shale			120	163	
Sand			163	205	
Sand & Shale			205	235	
Sand			235	245	
Sand & Shale			245	280	
Red Rock & Shale			280	735	
Sand & Shale			735	847	
Sand			845	886	
Sand & Shale			886	902	
Sand			902	906	
Sand & Shale			906	1974	
Sand			1974	2045	
Sand & Shale			2045	2070	
Shale			2070	2080	
Big Lime & Injun Sand			2080	2250	
Sand & Shale			2250	3135	
Sand			3135	3165	
Sand & Shale			3165	3490	
Sand			3490	3700TD	

(Attach separate sheets to complete as necessary)

Chase Petroleum
Well Operator
By Alton Kinman
Its Owner/Agent

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 coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1
API Well No. 47 - 017 - 255
State County Perm

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

LOCATION: Elevation: 1082 Watershed: Calf Run
District: Central County: Doddridge Quadrangle: Oxford 7-1/2

WELL OPERATOR Chase Petroleum
Address P.O. Box 297
Glennville, W.Va. 26351

DESIGNATED AGENT Alton Skinner
Address P.O. Box 297
Glennville, W.Va. 26351

OIL & GAS ROYALTY OWNER Clara Smith, et al
Address Pennsboro, W.Va.

COAL OPERATOR None
Address:

ACREAGE 67

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None

SURFACE OWNER Emmit James
Address Oxford, W.Va.

Name
Address

ACREAGE 67

Name
Address

FIELD SALE (IF MADE) TO:
Name Uncommitted
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, W.Va. 26301

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
DEC 18 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated October 2, 1979, to the undersigned well operator from Clara E. Smith, et al

[If said deed, lease, or other contract has been recorded:]
Recorded on October 3, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 111 at page 388. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
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 the receipt of this Application by the Department.

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 in Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1015 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3000

BLANKET BOND

Chase Petroleum
Well Operator
By Alton Skinner
Pres

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.
Address Buckhannon, W.Va. 26201

GEOLOGICAL TARGET FORMATION, Riley
Estimated depth of completed well, 4200 feet Rotary / Cable tools /
Approximate water strata depths: Fresh, 30 feet; salt, 1200 feet.
Approximate coal seam depths: No Coal Is coal being mined in the area? Yes / No

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	16"				X	30	30	30	Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23#	X		1700	1700	CTS	
Production	4-1/2		10.5#	X		4100	4100	2800	Depths set
Tubing									
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 a part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All conditions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-20-80.

Robert T. Bell

Deputy Director - Oil & Gas Division

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 regulations.

Date: _____

By _____
Its _____