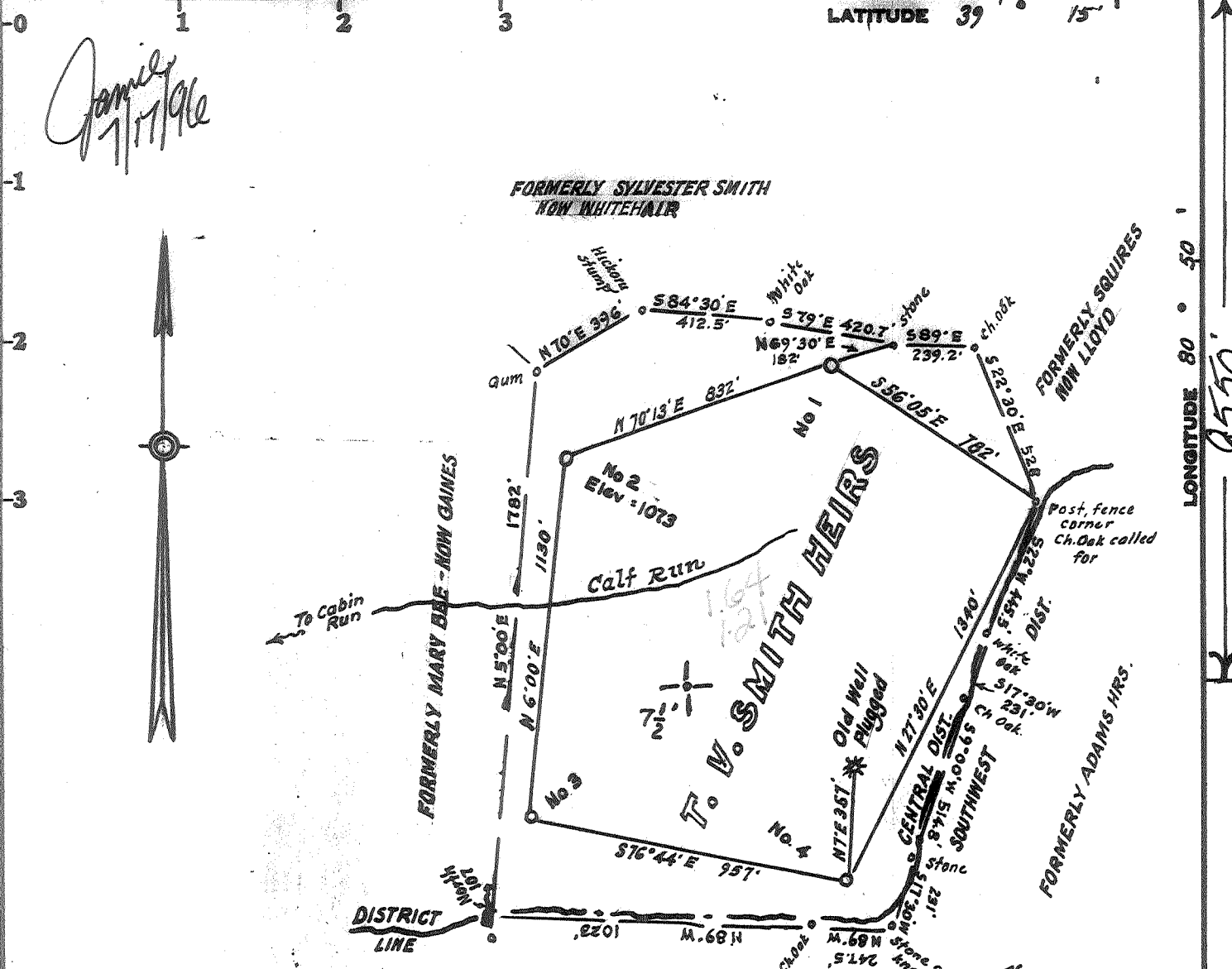


*James  
1/17/96*

6,500'  
LATITUDE 39° 15'



**OWNERSHIP**

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

Minimum Error of Closure Lin 2500'

Source of Elevation Elevation, Well No. 1 = 1082

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.

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

Signed: *[Signature]*  
Squares: N S E W

Meridian Exploration, Inc.  
Penn Center West Two, Suite 325  
Pittsburgh, Pennsylvania 15276

Farm T.V. Smiths Heirs

Tract \_\_\_\_\_ Acres 67 Lease No. \_\_\_\_\_

Well (Farm) No. Two Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1073

Quadrangle Oxford 7 1/2

County Doddridge District Central

Engineer [Signature]

Engineer's Registration No. 1227

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

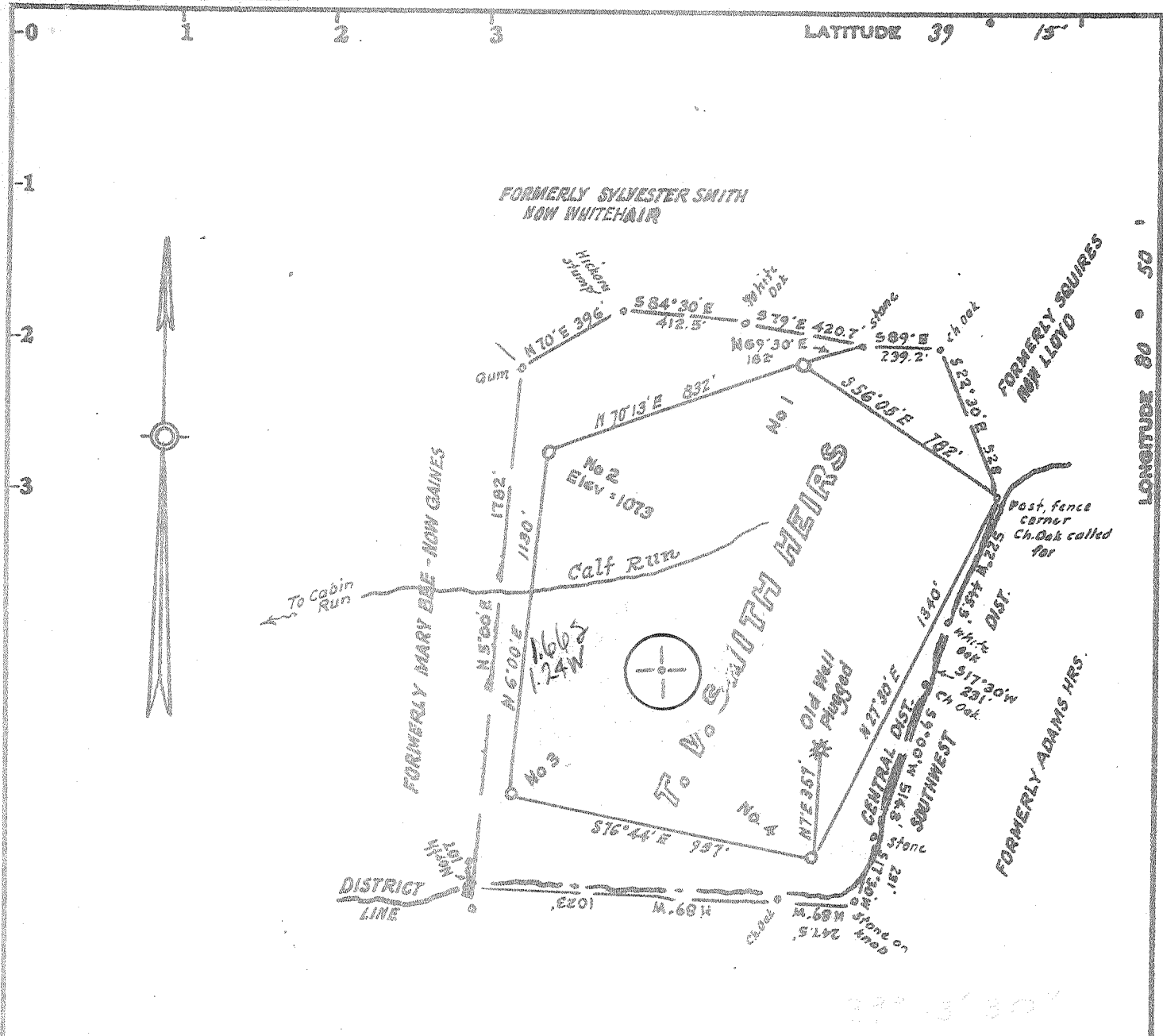
Date Dec. 14, 1979 Scale 1" = 500'

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
NITRO, WEST VIRGINIA 25143

**WELL LOCATION MAP**

*Well No. 47-017-02558-7*

*Well Drilled in 1979.  
TO 5444'  
Production from Alexander  
Benson & Riley 4820'-4980'  
Bulltown 4586'-4604'  
Set Temporary Plug & Repair Bulltown  
incl Riley Corrosion.*



**OWNERSHIP**

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

Minimum Error of Closure Lin 2500'  
 Sources of Elevation Elevation, Well No. 1 = 1073'

- 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: Muskrat  
 Squares: N E E W

Company CHASE PETROLEUM CORP  
 Address PO Box 369, Glenville, W.Va.  
 Farm T.V. Smiths Heirs  
 Tract \_\_\_\_\_ Acres 67 Lease No. \_\_\_\_\_  
 Well (Farm) No. Two Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1073 NC  
 Quadrangle Oxford 7 1/2 Handbook 15'  
 County Doddridge District Central  
 Engineer Muskrat  
 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. 019-2558

+ 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.

Alexander 5200 6-6 Straight Fork-Bluestone Creek (133) JAN 15 1980

JAN 10 1997

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Permitting  
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: JAMES, EMMIT Operator Well No.: T.V.SMITH #2

LOCATION: Elevation: 1,073.00 Quadrangle: OXFORD

District: CENTRAL County: DODDRIDGE  
 Latitude: 8550 Feet South of 39 Deg. 15Min. 0 Sec.  
 Longitude 6500 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: MERIDIAN EXPLORATION CORP  
 PENN CENTER WEST TWO, STE 325  
 PITTSBURGH, PA 15276-0000

Agent: CT CORP. SYSTEM

Inspector: MIKE UNDERWOOD  
 Permit Issued: 06/18/96  
 Well work Commenced: 7/31/96  
 Well work Completed: 8/20/96  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary Cable Rig  
 Total Depth (feet) 5444'  
 Fresh water depths (ft) 40'  
 Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
1 3/4"	20	0	
8 5/8"	1508	1508	CTS
4 1/2"	5444	5444	3500'
2"		5200'	

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): 286'

OPEN FLOW DATA

Producing formation Riley Pay zone depth (ft) 4186'  
 Gas: Initial open flow 500 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 500 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 0 Hours  
 Static rock Pressure 1100 psig (surface pressure) after 24 Hours

Second producing formation Balltown Pay zone depth (ft) 3869'  
 Gas: Initial open flow 500 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 500 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 0 Hours  
 Static rock Pressure 1100 psig (surface pressure) after 29 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MERIDIAN EXPLORATION CORP.

By: John Guide John Guide  
 Date: 1/6/97

## OPEN FLOW DATA

Third producing formation - Speechley. Payzone depth: 3440'-3460'

Gas: Initial open flow 500 mcf/d No oil

Final open flow 500 mcf/d No oil

Time of open flow between initial & final test - 0 hrs

Static rock pressure 1100 psig (surface press) after 24 hrs

Riley: Perforations: 4186'-4196' & 4208'-4218' 4 SPF

Fracture Treatment: 17,500 lbs 20/40 Sand X-link Gel

(0) Zero Nitrogen

250 bbls water

Balltown: Perforations: 3869'-3879' & 3966'-3976' 4 SPF

Fracture Treatment: 16,500 lbs 20/40 Sand X-Link Gel

(0) Zero Nitrogen

250 bbls water

Speechley: Perforations: 3440'-3460' 4 SPF

Fracture Treatment: 16,400 lbs 20/40 Sand X-link Gel

(0) Zero Nitrogen

250 bbls water

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 # 2

[08-78]

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

API Well No. 47 - 017 - 2553  
State County Permit

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

LOCATION: Elevation: 1073 Watershed: CALFRUN  
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  / **RECEIVED** / Fracture or stimulate   
Plug off old formation  / Perforate new formation  **JUL 28 1980**  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON December 20, 19 79  
OIL & GAS DIVISION  
DEPT. OF MINES  
OIL & GAS INSPECTOR FOR THIS WORK:

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5300 feet  
Depth of completed well, 5553 feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 40 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: 286-91 Is coal being mined in the area? no  
Work was commenced December 27, 19 79, and completed January 3, 19 80

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	11 3/4				X	20	-0-		Minds
regh water									
cas									Sizes
intermediate	8 5/8		23#	X		1508	1508	CTS	
production	4 1/2		10.5#	X		5444	5444	750 sacks	Depth set
tubing									
liners									Perforations: Top <u>Bolton</u>

OPEN FLOW DATA

2,000 MCF

Producing formation Alexander Pay zone depth 5254-5304 feet  
Gas: Initial open flow, 125 Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, 2,000 Mcf/d Final open flow, 0 bbl/d  
Time of open flow between initial and final tests, 10 hours  
Static rock pressure, 1700 psig (surface measurement) after 7 days shut in.

[If applicable due to multiple completion--]  
Second producing formation Benson-Riley Pay zone depth 4828-4988 feet  
Gas: Initial open flow, 125 Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, 2,000 Mcf/d Final open flow, 0 bbl/d  
Time of open flow between initial and final tests, 10 hours **AUG 11 1980**  
Static rock pressure, 1700 psig (surface measurement) after 7 days shut in.

CUMULATIVE ZONES

**AUG 22 1980**

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

Fraced Alexander 5254-5304, 15 holes, 236bbls total fluid, 20,000 # 80/100  
60,000 # 20/40

Fraced Benson-Riley 4828-4988, 15 holes, 550bbls total fluid, 15,000 # 80/100  
30,000 # 20/40

Fraced Balltown 4586-4604, 15 holes, 580bbls total fluid, 15,000 # 80/100  
30,000 # 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.			G.L.	29	Big Lime	- 2050 2170
Sand & Shale			29	30	Shale	2170 5004
Sand			30	40	Benson Sand	- 5004 5015
Sand & Shale			40	50	Sand & Shale	5015 5260
Red Rock & Shale			50	65	Alexander	5260 5310
Sand			65	72	Sand & Shale	5310 5553TL
Red Rock & Shale			72	79		
Sand			79	80		
Red Rock & Shale			80	98		
Sand			98	163		
Sand & Shale			163	178		
Sand			178	204		
Sand & Shale			204	218		
Shale			218	225		
Sand			225	260		
Sand & Shale			260	286		
Coal			286	291		
Sand & Shale			291	315		
Sand			315	332		
Shale & Red Rock			332	350		
Sand			350	385		
Red Rock			385	410		
Sand & Shale			410	1274		
Sand			1274	1283		
Sand & Shale			1283	1350		
Sand			1350	1395		
Sand & Shale			1395	1430		
Sand			1430	1465		
Sand & Shale			1465	1580		
Sand			1580	1715		
Sand & Shale			1715	1755		
Sand			1755	1905		
Sand & Shale			1905	1915		
Sand			1915	1970		
Shale			1970	1990		
Shale			1990	2018		
Little Lime			2018	2040		
Sand & Shale			2040	2050		

(Attach separate sheets to complete as necessary)

*Part of log missing*

*T.D. 5553 Balltown*

Chase Petroleum  
Well Operator  
By *Alton Shaw*  
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."

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

Issued 06/18/96 Expires 06/18/98 526

- 1) Well Operator: MERIDIAN EXPLORATION CORPORATION 31805 47 017 2558
2) Operator's Well Number: T V SMITH #2 (1524) 3) Elevation: 1073
4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage / Deep / Shallow /
Proposed Target Formation(s): Riley @ 4250' Balltown @ 3900'
Proposed Total Depth: 5444 feet
Approximate fresh water strata depths: 40'
Approximate salt water depths: None
Approximate coal seam depths: 286'
Does land contain coal seams tributary to active mine? Yes / No X/
Proposed Well Work: Set plug. Perf a Frac Riley @ 4,250'. Perf & Frac Balltown @ 3,900' Drill out plug.

22312

RECEIVED JUL 15 1996 Office of Oil & Gas Permuting Environmental Protection

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, Liners.

PACKERS : Kind N/A Sizes Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: [ ] Well Work Permit [ ] Reclamation Fund [ ] WPCP Plat [ ] WW-9 [ ] WW-2B [ ] Bond [ ] Agent (Type)

Page 1 of \_\_\_\_\_  
Form WW2-A  
(09/87)  
Permit Copy

**RECEIVED**  
WV Division of  
Environmental Protection  
JUL 15 1996

- 1) Date: 5-28-96
- 2) Operator's well number  
T V SMITH #2 (1524)
- 3) API Well No: 47 - 017 - 2558 - F  
State - County - Permit

Permitting  
Office of Oil & Gas

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name EMMIT JAMES  
Address ROUTE 1  
WEST UNION, WV 26456
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector MIKE UNDERWOOD  
Address ROUTE 2 BOX 135  
SALEM, WV 26426  
Telephone (304)-7821043

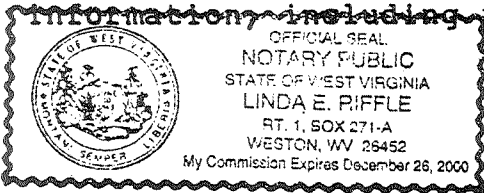
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name NO COAL  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)  
 I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:  
 Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.  
 I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator MERIDIAN EXPLORATION CORP.  
 By: John Guide JOHN GUIDE  
 Its: PENN CENTER WEST TWO, SUITE 325  
 Address PITTSBURGH, PA 15276  
(412) 494 0604  
 Telephone \_\_\_\_\_

Subscribed and sworn before me this 22nd day of May, 1996

Linda E. Riffle Notary Public  
 My commission expires December 26, 2000



[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 2

API Well No. 47 - 017 - 255  
State County Perm

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

LOCATION: Elevation: 1073 Watershed: Calf Run  
District: Central County: Doddridge Quadrangle: Oxford 7-1/2

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

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

OIL & GAS ROYALTY OWNER Clara Smith, et al  
Address Pennsboro, W.Va.  
Acreage 67

COAL OPERATOR None  
Address:     

SURFACE OWNER Emmit James  
Address Oxford, W.Va.  
Acreage 67

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name None  
Address       
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 X / 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 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 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 at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1010 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3000

BLANKET BOND

Chase Petroleum  
Well Operator  
By Alton Skinner  
Pres  
Its

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, Alexander

Estimated depth of completed well, 5300 feet Rotary X / 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 X

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		5200'	5200'	3000	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 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.

All provisions 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.

*[Signature]*

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 \_\_\_\_\_