


FILE NO. 83-25  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION RD. INTER 861'

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) Neal Hughes  
 R.P.E. \_\_\_\_\_ L.L.S. 632

PLACE SEAL HERE

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

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 935' WATER SHED INDIAN RUN  
 DISTRICT MURPHY 3 057 393 COUNTY RITCHIE  
 QUADRANGLE HARRISVILLE 7 1/2 15 C  
 SURFACE OWNER ORVAL SINNETT ACREAGE 99.8 ± 3.2  
 OIL & GAS ROYALTY OWNER \_\_\_\_\_ LEASE ACREAGE 130  
 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 ESTIMATED DEPTH 5500'  
 WELL OPERATOR PAIGE BLAKEMORE DESIGNATED AGENT CLARENCE CUNNINGHAM  
 ADDRESS SUITE 1020 NEWHOUSE BLD. ADDRESS RT. 1  
10 EXCHANGE PLACE, SALT LAKE CITY, UTAH 84111 CAIRO, W.VA. 26337



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

DATE MAY 16, 19 83  
 OPERATOR'S WELL NO. THARP A1  
 API WELL NO. \_\_\_\_\_  
47 - 085 - 6643  
 STATE COUNTY PERMIT

AUG 08 1983



WR-35  
**RECEIVED**  
SEP 22 1987

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date June 17, 1987  
Operator's  
Well No. Tharp No. A- 1  
Farm Sinnett, Orval  
API No. 47 - 085 - 6643

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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: 935 Watershed Indian Run  
District: Murphy County Ritchie Quadrangle Harrisville 7.5

COMPANY Constitution Petroleum Co.  
ADDRESS Rt. 4, Box 217, Marietta, Ohio  
DESIGNATED AGENT Clarence Cunningham  
ADDRESS Rt. 1, Box 189, Cairo, WV.  
SURFACE OWNER Orval Sinnett  
ADDRESS Rt. 1, Cairo, WV.  
MINERAL RIGHTS OWNER Duane Moats  
ADDRESS Rt. 1, Box 159, Harrisville, WV.  
OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV.  
PERMIT ISSUED 8/2/83  
DRILLING COMMENCED 9/19/83  
DRILLING COMPLETED 9/25/83  
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 Cond.			
<del>11 1/2"</del>	248	248	130 sks.
9 5/8			
8 5/8	2059	2059	NA
7			
5 1/2			
4 1/2	4800	4800	NA
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5500 ± feet  
Depth of completed well 4800 feet Rotary x / Cable Tools     
Water strata depth: Fresh NA feet; Salt    feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Balltown Pay zone depth 4056-4073 feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow approx. 30 Mcf/d Final open flow    Bbl/d  
Time of open flow between initial and final tests NA hours  
Static rock pressure    psig (surface measurement) after    hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Riley Pay zone depth 4370-4409 feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow commingled Mcf/d Oil: Final open flow    Bbl/d  
Time of open flow between initial and final tests NA hours  
Static rock pressure NA psig (surface measurement) after    hours shut in

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

Exact perforations are not available. It is believed that the well was treated with a nitrogen frac at the interval 4056-4073 and later from 4370-4409.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
No log available to 2059					
Sandstone & Shale			0	500	
Sandstone & Shale			500	1000	
Sandstone & Shale			1000	1500	
Sandstone & Shale			1500	2059	
including Big Injun					
Siltstone			2059	2078	
Wier			2078	2169	
Shale			2169	2368	
Berea			2368	2382	
Siltstone			2382	2753	
Gordon			2753	2763	
Shale			2763	3420	
Warren			3420	3500	
Shale			3500	3752	
Speechly			3752	3775	
Shale			3775	4056	
Balltown			4056	4073	
Shale			4073	4370	
Riley			4370	4409	
Shale			4409	4707	
Benson			4707	4713	
Shale			4713	4800	
					TD
404		2382			
813		3657			
822		4700			

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Constitution Petroleum Co.

Well Operator

By: Clarence Cunningham

Date: 9/18/87

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."



1) Date: June 1, 19 83  
 2) Operator's Well No. XXXXXXXXX There # A1  
 3) API Well No. 47 085 6643  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

DRILLING CONTRACTOR: \_\_\_\_\_

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil XX / Gas XX /  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: 935 Watershed: Indian Run  
 District: Murphy County: Ritchie Quadrangle: Harrisville
- 6) WELL OPERATOR Constitution Petroleum Co. 11) DESIGNATED AGENT Clarence Cunningham  
 Address Rt. 4, Box 217 Address Rt. 1, Box 189  
Marietta, Ohio 45750 Cairo, W. Va. 26337
- 7) OIL & GAS ROYALTY OWNER Duane Mosten 12) COAL OPERATOR N.A.  
 Address Rt. 1, Box 159 Address \_\_\_\_\_  
Harrisville, W. Va. 26362
- 8) SURFACE OWNER Orval Sinnott 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address Rt. 1 Name N.A.  
Cairo, W. Va. 26337 Address \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO: Name \_\_\_\_\_ Address \_\_\_\_\_  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name K. Paul Goodnight Address \_\_\_\_\_  
Smithville, W. Va.  
477-3660 558-4280
- 15) PROPOSED WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_ /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, Marcellus formation (Devonian)
- 17) Estimated depth of completed well, 5500 feet  
 18) Approximate water strata depths: Fresh, 150 feet; salt, 1000 feet.  
 19) Approximate coal seam depths: N.A. Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

20) 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		Kinds	
Conductor										Kinds
Fresh water										
Coal										Sizes
Intermediate	<u>8 5/8</u>		<u>23.0</u>	<u>XX</u>			<u>1700</u>	<u>To surface</u>		
Production	<u>4 1/2</u>		<u>10.5</u>	<u>XX</u>			<u>5700</u>	<u>300 sbs</u>		Depths set
Tubing										
Liners										Perforations:
										Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_

Signed: \_\_\_\_\_  
 Its: \_\_\_\_\_

OFFICE USE ONLY  
DRILLING PERMIT

Permit number \_\_\_\_\_

19

Date \_\_\_\_\_

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. 10) 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.)

Permit expires April 2, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas