



**RECEIVED**  
WV Division of  
Environmental Protection

MAY 05 1995

Permitting  
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: SWIGER, JAMES A. Operator Well No.: J. SWIGER #2

LOCATION: Elevation: 1,405.29 Quadrangle: FOLSOM

District: SARDIS County: HARRISON  
Latitude: 14850 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 6300 Feet West of 80 Deg. 30 Min. 0 Sec.

Company: COW RUN LTD. LIABILITY CO  
ROUTE 9, BOX 106F  
MORGANTOWN, WV 26505-0000

Agent: GARY M. HARTSOG

Inspector: TIM BENNETT  
Permit Issued: 03/20/95  
Well work Commenced: 03-28-95  
Well work Completed: 04-05-95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 6043  
Fresh water depths (ft) 390  
  
Salt water depths (ft) 2130  
  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 798

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	32	0	0
8 5/8	1411	1411	390 Sks
4 1/2	3396	3396	240 Sks

OPEN FLOW DATA

Producing formation Fifty Foot Pay zone depth (ft) 3060-3085  
Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 100 MCF/d Final open flow 10 Bbl/d  
Time of open flow between initial and final tests 7 days Hours  
Static rock Pressure 70 psig (surface pressure) after 48 Hours

Second producing formation Gordon 4th Sand Pay zone depth (ft) 3246-55-3210-5  
Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 100 MCF/d Final open flow 10 Bbl/d  
Time of open flow between initial and final tests 7 days Hours  
Static rock Pressure 70 psig (surface pressure) after 48 Hours

\* All formations are co mingled.

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: COW RUN LTD. LIABILITY COMPANY

By: Joseph S Swiger  
Date: 5-4-95

FRACIURE TREATMENT

THIRD STAGE: FIFTY FOOT 3063-3070(12 shots) 12 BBL 15%HCL;23,500 lb 20/40 Sand ; 92,700 Scf N2  
 SECOND STAGE : GORDON 3164-3168 ( 10 shots) : 4th Sand 3212-14(4 shots) : 12 BBL 15% HCL ; 30,000 lb 20/40 Sand;90000lb  
 FIRST STAGE : 4th SAND 3246-50(4 shots) ; 3283-87(8 shots) ; 12 BBL 15%HCL; 30,000lb Sand; 90,000 N2

FORMATION DESCRIPTION

FORMATION	DEPTH	SHOWS
SAND & SHALES	0-798	DAMP @ 390
COAL	798-802	
SAND & SHALE	802-824	
SAND	824-858	
SAND & SHALE	858-946	
SAND	946-1040	
SAND & SHALE	1040-1610	
SAND	1610-1670	
SAND & SHALE	1670-1978	
SAND	1978-1990	
SAND & SHALE	1990-2095	
SAND	2095-2136	1/2" STREAM WATER @ 2130
SAND & SHALE	2136-2415	
SHALE	2415-2430	
LITTLE LIME	2434-2455	
SHALE	2441-2445	
BIG LIME	2445-2490	
KENNER	2490-2508	
BIG INJUN	2508-2582	
SHALES	2582-2710	
SAND	2710-2730	
SHALES	2730-3060	
FIFTY FOOT	3060-3085	
SHALES	3085-3170	GAS CHECK@3167:NO SHOW
GORDON	3170-3185	
SHALES	3185-3210	
FOURTH	3210-3300	
SHALES	3300-3870	GAS CHECK @ 3417: ODOR
SAND	3870-3910	
SHALES & SAND	3910-5375	GAS ODOR @ 4010
RILEY	5375-5420	
SHALES	5420-5495	
BENSON	5495-5530	
SHALES	5530-5775	
ALEXANDER	5575-5830	
SHALES	5830-TD	
DRILLERS TD	6043	GAS CHECK @ TD : ODOR

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

RECEIVED

WELL WORK PERMIT APPLICATION

WV Division of Environmental Protection

Well Operator: Cow Run Limited Company 569 11395 (7) Issued 03/20/95 349

1) Well Operator: Cow Run Limited Company 569 11395 (7)
2) Operator's Well Number: James A. Swiger No. 2 3) Elevation: 1,405'

4) Well type: Oil X / or Gas X /
(b) If Gas: Production X / Underground Storage / Deep / Shallow /

5) Proposed Target Formation(s): Benson Sand 435

5) Proposed Total Depth: 5,200' + feet

7) Approximate fresh water strata depths: 360' Creek - 210' Spring

8) Approximate salt water depths: 1,405'

9) Approximate coal seam depths: Swickley 800' - Pittsburgh 900" + - Freeport 1,000'

10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /

11) Proposed Well Work: Drill and Complete New Well

12)

CASING AND TUBING PROGRAM

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

PACKERS : Kind
Sizes
Depths set

For Office of Oil and Gas Use Only

Fee(s) paid: [X] Well Work Permit [X] Reclamation Fund [ ] WPCP
[ ] Plat [X] WW-9 [X] WW-2B [X] Bond [ ] Agent
(Type) \$500.00

**RECEIVED**  
WV Division of  
Environmental Protection

MAR 15 1995

1) Date: March 8, 1995  
2) Operator's well number  
James A. Swiger No. 2  
3) API Well No: 47 - 033 - 4084  
State - County - Permit

Permitting **STATE OF WEST VIRGINIA**  
Office of Oil & Gas  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name James A. Swiger  
Address P.O. Box 160  
Reynoldsville, WV 26422  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Tim Bennett  
Address 737 Karl Street  
Weston, WV 26452  
Telephone (304)-269-6167

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

xxx 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:

- xxx 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.

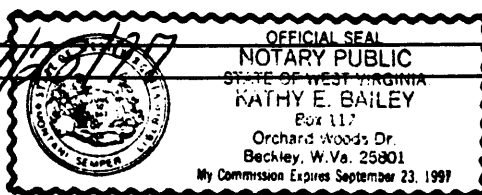
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

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

Well Operator Cow Run Limited Liability Co.  
By: Gary M. Gault  
Its: Agent  
Address P.O. Box 2121  
Beckley, WV 25802-2121  
Telephone 304-255-4131

Subscribed and sworn before me this 14th day of March, 1995

Kathy E. Bailey  
My commission expires \_\_\_\_\_



Notary Public