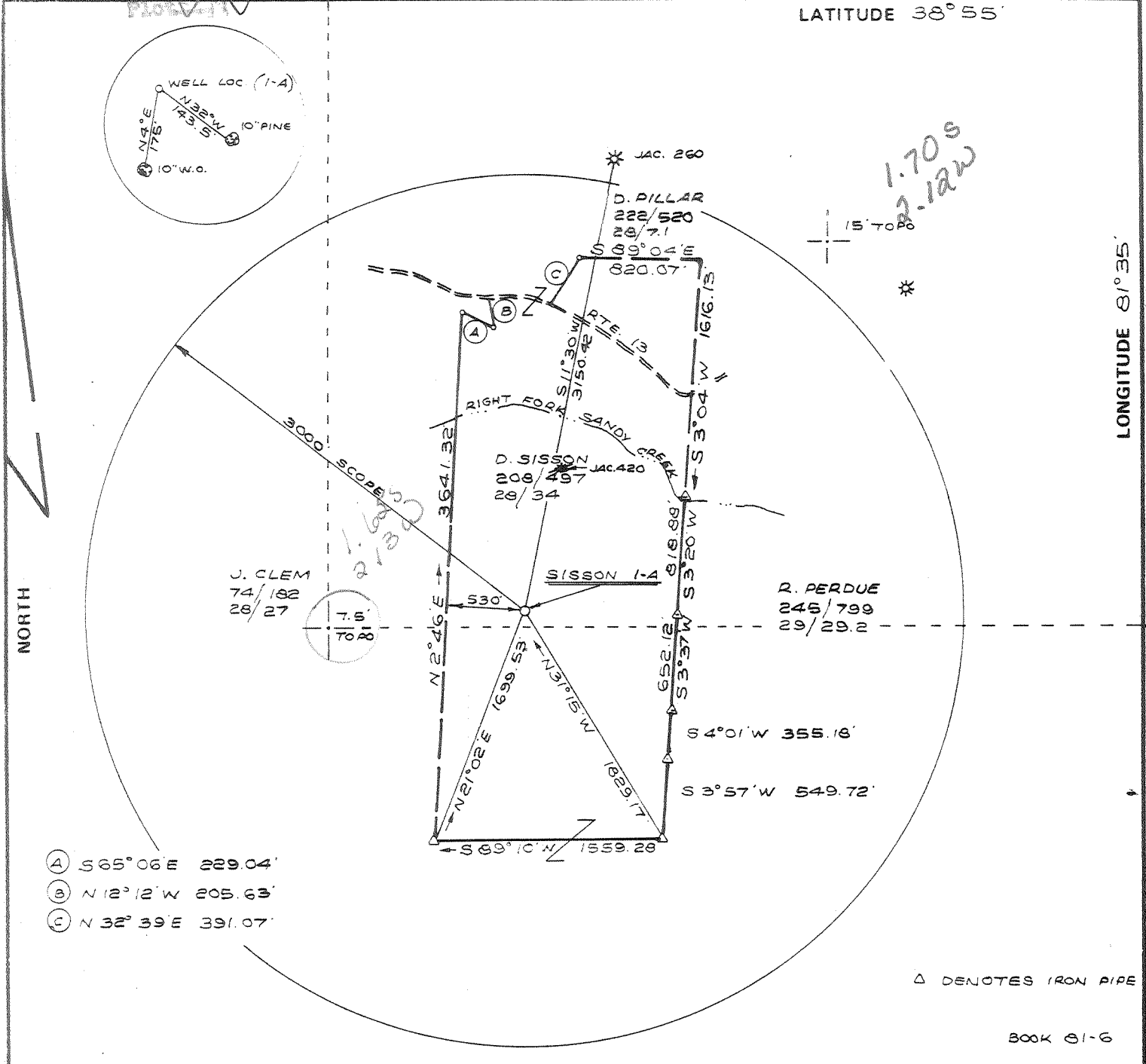
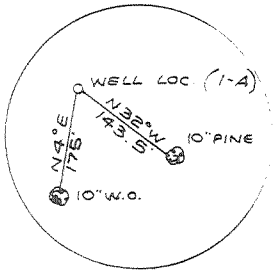


11,100'

LATITUDE 38° 55'

LONGITUDE 81° 35'



- (A) S 65° 06' E 229.04'
- (B) N 12° 12' W 205.63'
- (C) N 32° 39' E 391.07'

Δ DENOTES IRON PIPE

BOOK 81-6

FILE NO. 83-30  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 500  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION FROM TOPO

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) William J. Hutton  
 R.P.E. \_\_\_\_\_ L.L.S. 646

PLACE SEAL HERE

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



DATE JUNE 5, 1994  
 OPERATOR'S WELL NO. SISSON # 1-A  
 API WELL NO. 47 - 035 - 1980  
 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 751' WATER SHED RIGHT FORK OF SANDY CREEK  
 DISTRICT RAVENSWOOD 2 COUNTY JACKSON  
 QUADRANGLE LIVERPOOL 439 Ripley 15112 Cs  
 SURFACE OWNER D. SISSON ACREAGE 144  
 OIL & GAS ROYALTY OWNER BLAIR, SISSON ETAL LEASE ACREAGE 144  
 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 NEWBURG ESTIMATED DEPTH 5900'  
 WELL OPERATOR CARL E. SMITH PETROLEUM INC DESIGNATED AGENT SAME  
 ADDRESS P.O. Box 4 817 ADDRESS \_\_\_\_\_  
SANDYVILLE W.V. 25275

DEEP WELL 6-6 Elk-Poca (Sissonville) (192)

ENERGY  
GAS



MAR 14 1986  
WR-35

*Confidential*  
mailed with  
1 merge log  
3-10-86

Date March 4, 1986  
Operator's #279  
Well No. \_\_\_\_\_  
Farm Sisson  
API No. 47 - 035 - 1980

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

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 \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 751 Watershed Right Fork of Sandy Creek  
District: Ravenswood County Jackson Quadrangle Liverpool

COMPANY Carl E. Smith Petroleum, Inc.  
ADDRESS P.O. Box 4; Sandyville, WV 25275-0004  
DESIGNATED AGENT Carl E. Smith  
ADDRESS P.O. Box 4; Sandyville, WV 25275-0004  
SURFACE OWNER Denver Sisson  
ADDRESS Sandyville, WV 25275  
MINERAL RIGHTS OWNER "See Attachment"  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock ADDRESS Rt. 1, Box 100-A; Ripley, WV 25277  
PERMIT ISSUED July 19, 1984  
DRILLING COMMENCED July 27, 1984  
DRILLING COMPLETED Sept. 10, 1984  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON Nov. 1st, Nov. 16, 1984 & Apr. 15, 1985

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13 3/8	685	685	485 sks
13-10"			
9 5/8			
8 5/8	2541	2541	150 sks
7			
5 1/2	5885'	4277'	156 sks.
4 1/2	4211'	4211'	350' sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Newburg Depth 5900 feet  
Depth of completed well 5961 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? no

OPEN FLOW DATA  
Producing formation Devonian Shale Pay zone depth 3623-4203 feet  
Gas: Initial open flow -0- Mcf/d Oil: Initial open flow -0- Bbl  
Final open flow 50 Mcf/d Final open flow -0- Bbl  
Time of open flow between initial and final tests 48 hours  
Static rock pressure 850 psig (surface measurement) after 24 hours shut  
(If applicable due to multiple completion--)  
Second producing formation N/A Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
(surface measurement) after \_\_\_\_\_ hours shut

MAR 21 1986

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

Tested Newburg formation (5898-5910 KB). Plugged back to 5820' and tested Oriskany formation (5074-5084' KB). Plugged back to 4920' and tested ~~Marcellus~~ formation (4670-4940). Cut 5 1/2" Casing at cement top, pulled out of hole, and then plugged back to 4290'. Ran 4 1/2" casing, cemented through shale and fractured with 1.5 MMSCF of Nitrogen.

3623-4203  
LW Hwan

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and c
		"TOP	HOLE NOT LOGGED"		
Shale			1500	1562	
Sand			1563	1594	
Shale			1595	1696	
Sand			1697	1804	
Shale			1805	1808	
Pencil Cave			1809	1812	
Big Lime			1813	1914	
AD Big Injun			1915	1945	
Squaw			1946	1978	
Shale			1979	2389	
Coffee Shale			2390	2409	
Berea			2410	2412	
Shale			2413	4504	
<del>Marcellus</del>			4504	4950	Show of Gas
Onondaga (Top)			(4951)		
Oriskany			5074	5084	Show of Gas
Newburg			5898	5910	Show of Gas
T.D.				5961	
Plug back T.D.				4300	

From nearby wells:

	• top	thickness
W.C.U.	2412	1200
LW Hwan	3612	600
Jans	4212	150
Angola	4362	230
W. West	4592	280
Shipea	4872	79
Onondaga	4951	

(Attach separate sheets as necessary)

Carl E. Smith Petroleum, Inc.

Well Operator

By: Jack E. Sutherland  
Date: March 4, 1986

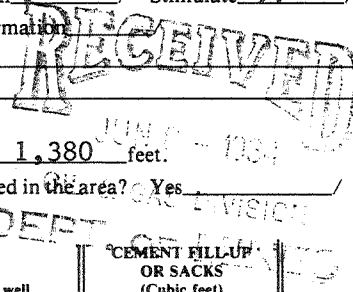
Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic



1) Date: June 5, 1984  
 2) Operator's Well No. #279  
 3) API Well No. 47 - 035 - 1980  
 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            / Underground storage            / Deep X / Shallow           )
- 5) LOCATION: Elevation: 751 Watershed: Right Fork of Sandy Creek (0361)  
 District: Ravenswood County: Jackson Quadrangle: Liverpool
- 6) WELL OPERATOR Carl E. Smith Petroleum, Inc. 7) DESIGNATED AGENT Carl E. Smith  
 Address P. O. Box #4 Address P. O. Box #4  
Sandyville, WV 25275 Sandyville, WV 25275
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Tephabock Name Carl E. Smith Petroleum, Inc.  
 Address Route #1, Box 100A Address P. O. Box #4  
Ripley, WV 25271 Sandyville, WV 25275
- 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, Newburg
- 12) Estimated depth of completed well, 5,900 feet  
 13) Approximate trata depths: Fresh, 200 feet; salt, 1,380 feet.  
 14) Approximate coal seam depths:            Is coal being mined in the area? Yes            / No X /



15) 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	250'		to surface	Kinds by Rule 15:05
Fresh water									
Coal									Sizes
Intermediate	8 5/8				X	2400'		100 sacks	or as required
Production	4 1/2				X	to top of Newburg		200 sacks	Depths set by rule 15:01
Tubing						if productive			
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-035-1980 Date July 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 July 19, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>Blanket</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>7829</u>

Administrator, Office of Oil and Gas

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

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.