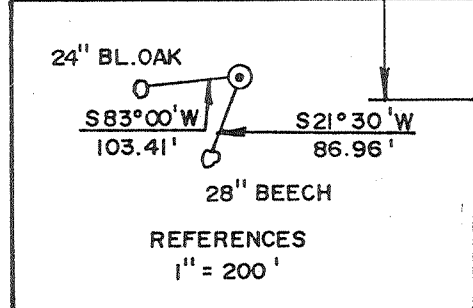
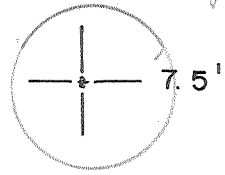


NOTES:

- 1) TWO KNOWN WELLS WITHIN 2400' OF PROPOSED WELL
- 2) PROPERTY CORNERS CALC. BY ON GROUND SURVEY TO EXISTING WELLS A-1 B-23



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION KNOWN ELEV. OF EXISTING WELL A-1

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 ENERGY
 (SIGNED) Fredrick D. Keller
 R.P.E. 6999 L.L.S. _____
 WOOLPERT CONSULTANTS

PLACE SEAL HERE

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



DATE 7 - 28, 19 87
 OPERATOR'S WELL NO. CITIES SERVICE
 OIL CO. FLYNN 29
 API WELL NO. GW-1973
47 67 - 0656
 STATE COUNTY PERMIT

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1426.91 WATER SHED BEECH RUN
 DISTRICT JEFFERSON 4 COUNTY NICHOLAS
 QUADRANGLE ANSTED 213 042 3
 SURFACE OWNER FLYNN COAL & LUMBER CO ACREAGE 50.17
 OIL & GAS ROYALTY OWNER FLYNN COAL & LUMBER CO LEASE ACREAGE 9226.12
 LEASE NO. WV-411
 PROPOSED WORK: DRILL X 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 DEVONIAN ESTIMATED DEPTH 6230'
 WELL OPERATOR CITIES SERVICE DESIGNATED AGENT PAUL D. PHILLIPS
 ADDRESS OIL & GAS CORP. ADDRESS P.O. BOX 873 CHAS. W.V 25323
P O BOX 873 CHAS. WV 25323

DEEP WELL 6-6 Gauley Mountain (263)



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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date February 1, 1988
Operator's
Well No. A-29, GW-1973
Farm Flynn Coal & Lumber Co.
API No. 47 - 067 - 0656

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: 1426.91 Watershed Beech Run
District: Jefferson County Nicholas Quadrangle Ansted

COMPANY Cities Service Oil and Gas Corporation

ADDRESS P. O. Box 873, Charleston, WV 25323

DESIGNATED AGENT Paul D. Phillips

ADDRESS P. O. Box 873, Charleston, WV 25323

SURFACE OWNER Flynn Coal & Lumber Company

ADDRESS 322 Brady Ave, Summersville, WV 26651

MINERAL RIGHTS OWNER Flynn Coal & Lumber Co.

ADDRESS 322 Brady Ave, Summersville, WV 26651

OIL AND GAS INSPECTOR FOR THIS WORK Rodney

Dillon ADDRESS P.O. Box 1526, Sophia,

PERMIT ISSUED 8-17-87 WV 25921

DRILLING COMMENCED September 14, 1987

DRILLING COMPLETED September 29, 1987

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.			
13 1/8"	28	28	15 sx
9 5/8	250	250	Surface
8 5/8			
7	1567	1567	Surface
5 1/2			
4 1/2	6379	6379	TOC 1150
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2170-6328 feet

Depth of completed well 6388 feet Rotary x / Cable Tools _____

Water strata depth: Fresh 184 feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale/Keener/Big Lime Pay zone depth 2170-6328 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 267 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 190 psig (surface measurement) after 336 hours 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 Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours **FEB 16 1988**

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

Devonian Shale 5441-6328' Frac'd w/ 60,000# 20/40 sd, 1008 MSCF N2, TL&T 360, 40 BPM Foam
 Devonian Shale 4551-5327' Frac'd w/ 90,000# 20/40 sd, 1069 MSCF N2, TL&T 404, 50 BPM Foam
 Devonian Shale 2170-3093' Frac'd w/ 90,000# 20/40 sd, 950 MSCF N2, TL&T 460, 50 BPM Foam
 Keener/Big Lime 1807-1865' Frac'd w/ 70,000# 20/40 sd, 800 MSCF N2, TL&T 380, 60 BPM Foam
 Big Lime 1636-44' Acidized w/ 4000 gal 15% acid @ 15 BPM, TL&T 121 bbls

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Surface Sands			0	700	FW @ 184
Shaley Sand			700	850	
Shale			850	1000	
Ravencliff			1000	1110	
Sandy Shale			1110	1460	
Little Lime			1460	1500	
Shale			1460	1560	
Big Lime			1560	1800	
Keener			1800	1830	
Big Injun			1830	1870	
Sunbury Shale <i>Pocano <BT</i>			1870	2230	
Devonian Shale			2230	6350	
Onondaga Lime			6350	6388	

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Cities Service Oil and Gas Corporation
 Well Operator

By: *Paul D. Phillips*
 Paul D. Phillips, Operations Manager

Date: February 1, 1988

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."

FEB 16 1988



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1) Date: July 31, 1987
2) Operator's Well No. GW-1973 Flynn Coal & Lumber A-29
3) API Well No. 47-067-0656 State County Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X /
B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
5) LOCATION: Elevation: 1426 Watershed: Beech Run
District: Jefferson County: Nicholas Quadrangle: Ansted 7.5 213
6) WELL OPERATOR Cities Service CODE: 9900 7) DESIGNATED AGENT Paul D. Phillips
Address P. O. Box 873 Charleston, WV 25323
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Rodney Dillon Address P. O. Box 1526 Sophia, WV 25921
9) DRILLING CONTRACTOR: Name N/A Address
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, Big Injun, Big Lime, Devonian Shale
12) Estimated depth of completed well, 6230 feet
13) Approximate trata depths: Fresh, 197 feet; salt, 1038 feet.
14) Approximate coal seam depths: 120 Is coal being mined in the area? Yes / No X

15) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

OFFICE USE ONLY DRILLING PERMIT

Permit number 47-067-0656 August 17 19 87 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. 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 August 17, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Fee (223), Other

22074

John D. Johnston by Margaret J. Hearn Director, Division 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.