

FILE NO. _____
 DRAWING NO. W-4-82
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION HIGH PT ON RIDGE
AT PROPERTY CORNER #23
EL. 2507.00

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) Donald J. Bay
 R.P.E. _____ L.L.S. 247

PLACE SEAL HERE

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



DATE JULY 15, 1982
 OPERATOR'S WELL NO. T-2, GW-1939
 API WELL NO. _____
47 - 093 - 0063
 STATE COUNTY PERMIT

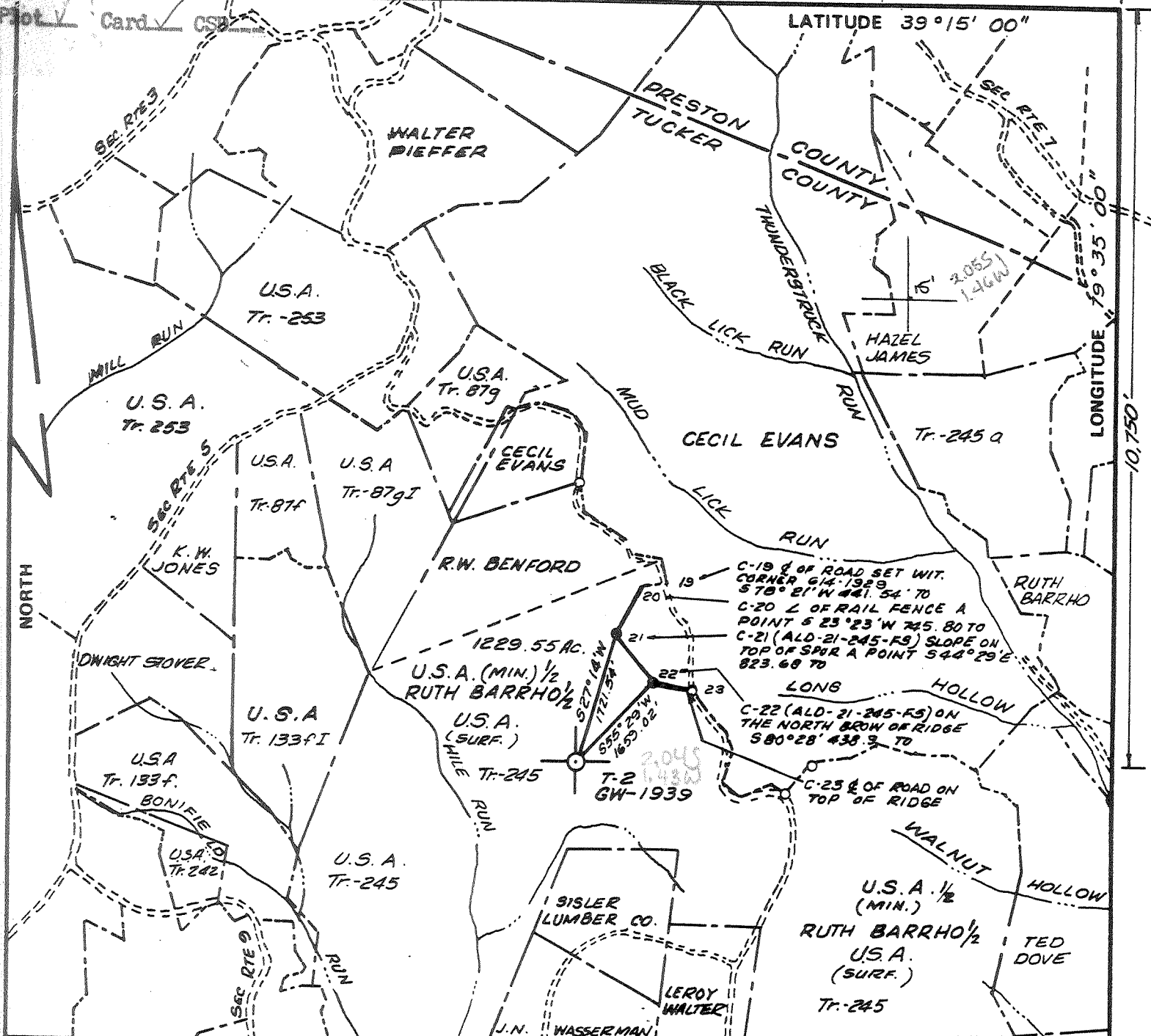
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2289.99 WATER SHED HILE RUN OF HORSESHOE RUN
 DISTRICT ST. GEORGE COUNTY TUCKER
 QUADRANGLE LEAD MINE 7 1/2'
 SURFACE OWNER U.S.A ACREAGE 1229.55
 OIL & GAS ROYALTY OWNER U.S.A, RUTH BARRHO 1/2 LEASE ACREAGE 1229.55
 LEASE NO. 342-3038/348
 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 TUSCARORA ESTIMATED DEPTH 9,200' APR 25 1983
 WELL OPERATOR CITIES SERVICE CO. DESIGNATED AGENT PAUL D. PHILLIPS
 ADDRESS P.O. BX 873, CHARLESTON WV. 25323 ADDRESS P.O. BX 873, CHARLESTON WV 25323

DEEP WELL

TUCKER 0063 F



FILE NO. _____
 DRAWING NO. W-4-82
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION HIGH PT ON RIDGE
AT PROPERTY CORNER #23
EL. 2507.00

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 (SIGNED) Wmald J Bay
 R.P.E. _____ L.L.S. 247

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JULY 15, 19 82
 OPERATOR'S WELL NO. T-2, GW-1939
 API WELL NO. 47-093-0063 **FP**
 STATE COUNTY PERMIT

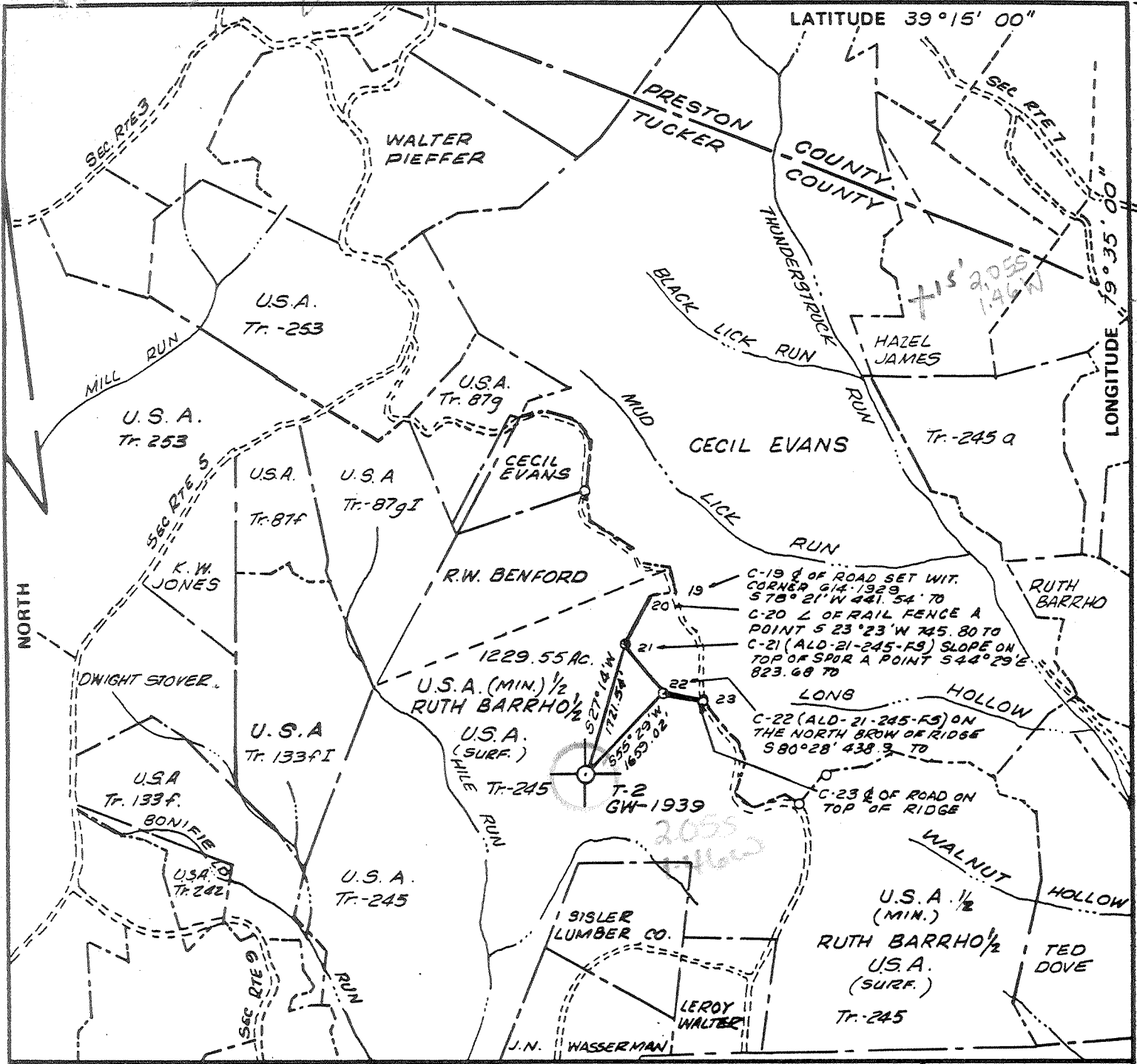
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2289.99 WATER SHED HILE RUN OF HORSESHOE RUN
 DISTRICT ST. GEORGE COUNTY TUCKER
 QUADRANGLE LEAD MINE 7 1/2'
 SURFACE OWNER U.S.A ACREAGE 1229.55
 OIL & GAS ROYALTY OWNER U.S.A, RUTH BARRHO 1/2 LEASE ACREAGE 1229.55
 LEASE NO. 342-3080/342
 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 TUSCARORA ESTIMATED DEPTH 9,200'
 WELL OPERATOR CITIES SERVICE CO. DESIGNATED AGENT PAUL D. PHILLIPS
 ADDRESS P.O. Bx. 873, CHARLESTON WV. 25323 ADDRESS P.O. Bx 873, CHARLESTON WV 25323

FEB 28 1983

H. T. HALL

DEEP WELL 5-0 Leadmine (325)

TUCKER 0063 FP



FILE NO. _____
 DRAWING NO. W-4-82
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION HIGH PT ON RIDGE
 AT PROPERTY CORNER #23
 EL. 2507.00

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) [Signature]
 R.P.E. _____ L.L.S. 247

PLACE SEAL HERE

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



DATE JULY 15, 19 82
 OPERATOR'S WELL NO. T-2, GW-1939
 API WELL NO. 47-093-0063
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2289.99 WATER SHED HILE RUN OF HORSESHOE RUN
 DISTRICT ST. GEORGE COUNTY TUCKER
 QUADRANGLE LEAD MINE 7 1/2' Parsons 15 NC
 SURFACE OWNER U.S.A ACREAGE 1229.55
 OIL & GAS ROYALTY OWNER U.S.A, RUTH BARRHO 1/2 LEASE ACREAGE 1229.55
 LEASE NO. 342-3030/348
 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 TUSCARORA ESTIMATED DEPTH 9,200'
 WELL OPERATOR CITIES SERVICE CO. DESIGNATED AGENT PAUL D. PHILLIPS
 ADDRESS P.O. Bx. 873, CHARLESTON WV. 25323 ADDRESS P.O. Bx 873, CHARLESTON WV 25323

SEP 20 1982

7-81)

RECEIVED
SEP 10 1982



API # 093 - 0063

WELL NO. "T" #2 (GW-1939)

FARM United States of America

DATE September 8, 1982

OIL AND GAS DIVISION
DEPARTMENT OF MINES
WV DEP.

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

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 2289.99' GL Watershed: Hile Run of Horseshoe Run
District: St. George County: Tucker Quadrangle: Lead Mine

WELL OPERATOR Cities Service Company DESIGNATED AGENT Paul D. Phillips
Address P.O. Box 873 Address P.O. Box 873
Charleston, WV 25323 Charleston, WV 25323

LAND & GAS *United States of America, Bureau of Land Man.
ROYALTY OWNER *Ruth M. Barrko COAL OPERATOR None
Address *3350 S. Pickett Street Address _____
Alexandria, VA 22304
**2107 Washington St., Apt. 3
Wilmington, DE

Acreage 1229.55 COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER U. S. Forest Service Name N/A
Address Monongohela National Forest Address _____
Box 1548

Acreage 1229.55 Name _____
Address _____

FIELD SALE (IF MADE) TO: Name _____
Address _____

LAND & GAS INSPECTOR TO BE NOTIFIED Name N/A
Address _____

Name Robert Stewart Address _____
Address P.O. Box 345
Jane Lew, WV 26378
Phone: 884-7782

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease XX
by contract _____ / dated August 1, 19 52, to the undersigned well operator from United States
Lloyd C. Haynes
of America

(said deed, lease, or other contract has been recorded:)
Recorded on _____, 19_____, in the office of the Clerk of the County Commission of Tucker County, West
Virginia, in Lease Book 5 at page 49. A permit is requested as follows:

PROPOSED WORK: Drill XX / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
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
PHYSICAL LOGS DIRECTLY
TO THE
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMIS-
SION
15 WASHINGTON STREET EAST
CHARLINGTON, WV 25311
PHONE: (304) 348-1092

Cities Service Company
Well Operator
By Paul D. Phillips
Its Region Operations Manager

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown at this time
Address _____

GEOLOGICAL TARGET FORMATION, Silurian Tuscarora

Estimated depth of completed well, 9200 feet Rotary XX / Cable tools _____ /

Approximate water strata depths: Fresh, 250', 480' feet; salt, 6100 feet.

Approximate coal seam depths: None and 1000' Is coal being mined in the area? Yes _____ / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft			For drilling	Left in well		Kinds	Sizes
Conductor	20"	H-40	94	X		55'	55'	50 sacks	None anticipated	
Fresh Water	13 ³ / ₈ "	K-55	68 61	X X		480' 1300'	480' 1300'	900 sacks		
Coal		K-55	40 & 36	X		3360'	3360'		Sizes	
Intermediate	9 ⁵ / ₈ "	N-80 S-95	40 40	X X		5280' 6400'	5280' 6400'	250 sacks		
Production	5 ¹ / ₂ "	K-55 P-110	17 - 14 17	X		--	8380' 9200'	200 sacks	Depths set	
Tubing	2 ⁷ / ₈ "	N-80	6.5	X		--	9100'	--		
Liners	None anticipated.								Unknown at Perforations: this time.	
									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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-15-83
BY [Signature]

Survey

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.

WAIVER

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.

- 1) Date: April 8, 1983
- 2) Operator's Well No. GW-1939
- 3) SIC Code
- 4) API Well No. 47 - 093 - 0063PP
State County Permit
- 5) UIC Permit

DRILLING CONTRACTOR
Cubby Drilling Company

STATE OF WEST VIRGINIA
LIQUID INJECTION OR WASTE DISPOSAL WELL PERMIT APPLICATION

For Both

DEPT. OF MINES, OFFICE OF OIL AND GAS, DNR, DIVISION OF WATER RESOURCES

6) WELL TYPE: Liquid Injection ___ / Temporary Disposal X / Gas Injection ___ /
7) LOCATION: Elevation 2289.99' Watershed Hile Run of Horseshoe Run
District St. George County Tucker Quadrangle Lead Mine

8) WELL OPERATOR Cities Service Oil & Gas Company 12) DESIGNATED AGENT Paul D. Phillips
Address P.O. Box 873 Address P.O. Box 873
Charleston, WV 25323 Charleston, WV 25323

9) ROYALTY OWNER 1) United States of America, BLM 13) COAL OPERATOR None
2) Ruth M. Barrko
Address 1) 3350 S. Pickett Street Address
Alexandria, VA 22304
2) 2107 Washington St. Apt. 3
Wilmington, DE

Acreage 1229.55

10) SURFACE OWNER U.S. Forest Service
Address Monongahela National Forest
P.O. Box 1548
Elkins, WV 26241

Acreage 1229.55

11) OIL AND GAS INSPECTOR TO BE NOTIFIED BEFORE DRILLING, AND 24 HOURS IN ADVANCE OF ANY MECHANICAL INTEGRITY TEST

Name Robert Stewart
Address P.O. Box 345
Jane Lew, WV 26378

14) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____
Name _____
Address OIL & GAS DIVISION
DEPT. OF MINES

15) COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

The undersigned well operator is entitled to operate for liquid injection or waste disposal purposes at the above location under a deed ___ / lease X / other contract ___ / dated August 1, 1952, to ~~the undersigned well operator~~ Lloyd C. Haynes from United States of America (If said deed, lease, or other contract has been recorded:)
Recorded on _____, 19____, in the office of the Clerk of the County Commission of Tucker County, West Virginia, in Lease Book 5 at page 49. A permit is requested as follows:

PROPOSED WORK: Convert ___ / Drill ___ / Drill deeper ___ / Fracture or stimulate ___ / Plug off old formation ___ / Other physical change in well (specify) Inject drilling & treatment fluids into the Huntersville Chert before P & A well.
Date of first liquid injection or waste disposal: April 11, 1983.

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-37 UPON COMPLETION

Estimated depth of completed well 9544 feet Rotary X / Cable tools ___ /
Approximate water strata depths: Fresh, 105'-349' feet; salt, 6860-93' feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes ___ / No X /

GEOLOGICAL TARGET FORMATION Huntersville Chert Depth ___ feet (top) to ___ feet (bottom)

- a) Virgin reservoir pressure in target formation 0 psig; Source _____
- b) Estimated reservoir fracture pressure 50 psig (BHFP)
- c) Perforation intervals 5754'-80' Open-hole intervals None

MAXIMUM PROPOSED INJECTION OPERATIONS

Volume per hour: 60 Ebl. Bottom hole pressure: 3500 psig

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED - PLUS ADDITIVES

KCl water surfactants and completion fluids containing acid and gelled water.

SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL None

FILTERS (IF ANY) None

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	20"	A	94	X		78'	78'	100 sx	Kinds
Fresh water	13-3/8"	A	61 & 68	X		1299'	1299'	950 sx	None
Coal									Sizes
Intermediate									
Production	9-5/8"	A	40	X		6233'	6233'	480 sx	Depths set
Tubing	2-7/8"	A	6.5	X		5770'		None	Above Injection Zone
Liners									Perforations
									Top Bottom
									5754'-80'

28) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed 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.

The person signing this document shall make the following certification:

Cities Service Oil & Gas Company
Well Operator

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

By *Paul D. Phillips*
Paul D. Phillips
Its Region Operations Manager

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: _____, 19____. By: _____
Its _____

OFFICE USE ONLY

Permit number 093-0063 (Disposal) PERMIT Date April 13 19 83

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 prior to the construction of roads, locations and pits for any permitted work. (Refer to No. 10)

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 December 13, 1983 unless work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
<i>Blanket</i>	<i>D.K. m.g.</i>	<i>M.J.</i>	<i>M.J.</i>	<i>N/A</i>

Fred B. ...
Administrator, Office of Oil and Gas

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

RECEIVED

APR 21 1983



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date April 20, 1983 Operator's Well No. "U" #1 (GW-1939) Farm United States of America API No. 47 - 093 - 0063

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 X / Shallow /)

LOCATION: Elevation: 2290' Watershed Hile Run of Horseshoe Run District: St. George County Tucker Quadrangle Leadmine

COMPANY Cities Service Oil & Gas Corporation

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

DESIGNATED AGENT Paul D. Phillips

ADDRESS Same

SURFACE OWNER U. S. Forest Service

ADDRESS P. O. Box 1548, Elkins, WV 26241

MINERAL RIGHTS OWNER USA / Ruth M. Barrko 3350 S. Pickett St. 2107 Washington St. Alexandria, VA 22304 Wilmington, DE 19802

OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart ADDRESS P. O. Box 345, Jane Lew, WV

PERMIT ISSUED September 10, 1982

DRILLING COMMENCED October 19, 1982

DRILLING COMPLETED February 19, 1983

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Tuscarora/Huntersville Chert Depth 9250/5750 feet

Depth of completed well 9594/PBTD5849 feet Rotary X / Cable Tools

Water strata depth: Fresh 105'-349' feet; Salt 6860'-93' feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation N/A Dry hole Pay zone depth feet

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

Final open flow Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

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

(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/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

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

(Continue on reverse side)

TUCKER 0063

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

Well drilled to TD of 9594' and plugged back to 5849'. Perforated Huntersville Chert from 5754'-5780' w/26 shots. Broke down Chert w/48 bbls 20% acid and fraced w/1010 bbls of 40# gel/1000 gal. wtr. and 3% HCl. Used total 44,000# 80/100, & 35,000# 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			0	300	
Shaley Sand			300	1150	
Shale			1150	1700	
Silty Shale			1700	2500	
Shale			2500	3200	
Silty Shale			3200	4800	
Shale			4800	5720	
Huntersville Chert			5720	5950	
Oriskany			5950	6000	
Helderberg			6000	6770	
Lockport			6770	8260	
Rose Hill Shale			8260	9020	
Upper Tuscarora			9020	9240	
Lower Tuscarora			9240	9594	5754 5780 3430 5750 5780 2590

(Attach separate sheets as necessary)

Cities Service Oil & Gas Corporation
Well Operator

By: Donald J. Bay

Date: April 21, 1983

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."

RECEIVED

APR 21 1983

FORM OG-8

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL - Plugback

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

None COAL OPERATOR OR OWNER ADDRESS N/A COAL OPERATOR OR OWNER ADDRESS United States of America/Ruth M. Barrko 3350 S. Pickett St. Alexandria, VA 22304

STATE INSPECTOR SUPERVISING PLUGGING Robert Stewart

AFFIDAVIT

STATE OF WEST VIRGINIA, County of Tucker ss:

Hamida Neghmouche and being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Cities Service Oil & Gas Corporation well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 21st day of February, 1983, and that the well was plugged and filled in the following manner:

Table with columns: SAND OR ZONE RECORD, FILLING MATERIAL, PLUGS USED, CASING. Includes entries for 200 bbls 4% CaCl2, 6% gel and 75 sx class A w/18% NaCl, and 150 sx class A w/18% NaCl and 3/4% CFR-2.

and that the work of plugging and filling said well was completed on the 21st day of February, 1983.

And further deponents saith not. Hamida Neghmouche

Sworn to and subscribed before me this 20 day of April, 1983.

My commission expires: June 11, 1985

Signature of Commissioner

Commissioner Notary Public

Permit No. 093-0063-PP

TUCKER 0063-PP

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

RECEIVED
MAY 9 - 1983

OIL & GAS DIVISION
AFFIDAVIT OF PLUGGING AND FILLING WELL DEPT. OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

N/A
COAL OPERATOR OR OWNER
ADDRESS
N/A
COAL OPERATOR OR OWNER
ADDRESS

Cities Service Oil & Gas Corporation
NAME OF WELL OPERATOR
Box 873, Charleston, WV 25323
COMPLETE ADDRESS
United States of America 19 83
WELL AND LOCATION
St. George District

United States of America/Ruth M. Barrko
LEASE OR PROPERTY OWNER
3350 S. Pickett St. / Apt. 3
Alexandria, VA 22304

Tucker County
Well No. "U" #1 (GW-1939)
Monongahelia National Forest
"United States of America" Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert Stewart

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Tucker } ss:
Blaine W. Minney and Cubby Drilling, Inc.

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Cities Service Oil & Gas Corporation well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 27th day of April, 1983, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
Huntersville Chert	Bentonite Gel	60 sxs 166'	1287	4946' 9-5/8"
Devonian Shale	Bentonite Gel	110 sxs 200'		1299' 13-3/8"
Surface	Bentonite Gel	110 sxs 155'		78' 20"
<p>RECEIVED MAY 23 1983 OIL & GAS DIVISION DEPT. OF MINES</p>				
COAL SEAMS	DESCRIPTION OF MONUMENT			
(NAME)	8' Joint of 7" casing			
(NAME)	GW-1939			
(NAME)	Cities Service Oil & Gas Corporation			
(NAME)	47-093-0063 - Erect monument as perscribed by law.			

and that the work of plugging and filling said well was completed on the 27th day of April, 1983.

And further deponents saith not.

Sworn to and subscribed before me this 27 day of April, 1983.

My commission expires:
June 1, 1989

Blaine W. Minney
Cubby Drilling, Inc.
James J. Bay
Commissioner Notary Public.

Permit No. 47-093-0063 PP-P

TUCKER - 0063-PP-P