

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

AN INVESTIGATION TO DETERMINE COMPLIANCE)
TO 807 KAR 5:022 BY KENTUCKY OHIO GAS) CASE NO.
COMPANY REGARDING CONSTRUCTION OF A GAS) 95-023
TRANSMISSION PIPELINE)

O R D E R

On February 28, 1995 and March 13, 1995, the Commission received the attached reports regarding ongoing testing of welds on the Kentucky Ohio Gas Company pipeline being constructed on Meadow Lane and Meade Springer Road in Boyd County, Kentucky. The Commission on its own motion HEREBY ORDERS that the reports be made a part of the record in this proceeding.

IT IS FURTHER ORDERED that any party to this proceeding may file comments regarding the contents of the reports within 15 days of the date of this Order.

Done at Frankfort, Kentucky, this 24th day of March, 1995.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:


Executive Director



Energy Management & Services Company

Technical Expertise Serving The Oil & Gas Industry

Ed
LLA

February 27, 1995

Mr. Scott Smith, P.E.
Kentucky Public Service Commission
P.O. Box 615
730 Schenkel Lane
Frankfort, KY 40601

RECEIVED

FEB 28 1995

DIVISION OF UTILITY
ENGINEERING & SERVICES

Re: Kentucky-Ohio Gas Acquisition
Completion of Excavation
For X-Ray Purposes

Dear Scott:

We are glad to report the completion of the excavation of previously backfilled pipe to expose welds for x-raying purposes along a section of Meadow Lane (2,112') and Meade Springer (2,856') Roads in Boyd County, Kentucky where an insufficient number of the welds were nondestructively tested during actual construction. This deficiency of x-rays for this section of pipeline was the topic of KPSC Order dated September 27, 1994.

A total of one hundred twenty five (125) welds were x-rayed. Seven of the welds were rejected through the x-ray process. One of these welds was repaired successfully. The remaining six were cut out. A copy of the x-ray reports are enclosed for your files.

Six of these rejected welds were on fittings, one was on straight pipe. We have reviewed the earlier construction with inspectors and technicians and learned that there are four fittings within those pipe sections that were not x-rayed 100%. We have x-rayed the two welds on one of the fittings and found one weld unacceptable. It has been repaired. The welds on the remaining fittings will be uncovered and x-rayed as another step to insure we are building a pipeline of high integrity.

As we reported earlier, very little damage was done to the coating during excavation. All damaged coating was repaired before backfilling.

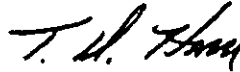
Mr. Scott Smith
February 27, 1995
Page Two

In summary, according to available records, all the welds along the section of pipeline in question have now been nondestructively tested. All the welds rejected by x-ray have been repaired or cut out and replaced with welds that passed x-ray.

Please call if you have any questions pertaining to any portion of the project.

Sincerely,

ENERGY MANAGEMENT & SERVICES CO.



T.D. HONN, P.E., L.S.
PRESIDENT

cc: Mr. Tim Sutherland w/o enc
Mr. Jeff Brown w/o enc
Mr. Jack Hughes w/o enc
Mr. Glenn Templeton w/o enc

KOGA/105



NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
HURRICANE, WV 25528
PHONE: (304) 562-8836 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
1 DC-1	✓	Ky. OH ↓					.188 wall
2 DO-2	✓						MED Spring EB
3 DO-3	✓						74' From Road Cross
4 DO-4	✓						
5 DO-5	✓						VAN BUBBER
6 DO-6	✓						
7 DO-7	✓						
8 DO-8	✓						
9							
10							
11							
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25							

RADIOGRAPHER: <i>LARRY CHAPMAN</i>	HELPER:
INSPECTOR: <i>Franklin Taylor</i>	
TOTAL WELDS: <i>8</i>	TOTAL HOURS:
MILES: START	END: <i>100 miles (RT)</i>
CONTRACTOR:	LOCATION: <i>KY MED SPRINGS</i>
CODE: <i>PPI 1104</i>	
DATE: <i>1-13-95</i>	PAGE: <i>1</i> OF <i>1</i>

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
A.C.	LOW CAP
H.B.	HOLLOW BEAD
C.B.	CONCAVE BEAD
S.I.	SLAG INCLUSIONS
I.U.	INTERNAL UNDERCUT
E.U.	EXTERNAL UNDERCUT

GAMMA RAY — ULTRASONIC — MAGNETIC PARTICLE —
INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT



NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
HURRICANE, WV 25528
PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
100-9	✓	KY-07	B+L		3"		.188 wall
200-10	✓						
300-11	✓						
400-12	✓						NEED STENCILS
500-13	✓						
6							
7							
8							
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25							

RADIOGRAPHER: *Fredy Chopra* HELPER: *T. Davis*
 INSPECTOR: *Franklin King*
 TOTAL WELDS: *5* TOTAL HOURS: *4*
 MILES: START _____ END: *100 miles pt*
 CONTRACTOR: *B+L* LOCATION: *KY*
 CODE: *API 1104*
 DATE: *1-14-94* PAGE: *1* OF *1*

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
H.B.	HOLLOW BEAD
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RADIOGRAPHIC INSPECTION REPORT

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1 DO-14	✓	K1-0H	B+L			3"		188 WALL		
2 DO-15	✓									
3 DO-16	✓									NEED SPRING FR
4 DO-17	✓									
5 DO-18	✓									
6 DO-19	✓									
7 DO-20	✓									
8 DO-21	✓									
9 DO-22	✓									
10 DO-23	✓									
11										
12										
13										
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24										
25										

RADIOGRAPHER: <i>LARRY CHAMBERS</i> HELPER:		RADIOGRAPHIC TERMS:	
INSPECTOR: <i>Frank R. Vign...</i>		B.T.	BURN THRU
TOTAL WELDS <i>10</i> TOTAL HOURS		O.P.	OVER PENETRATION
MILES: START	END <i>100 miles E of</i>	L.P.	LACK OF PENETRATION
CONTRACTOR: <i>B+L</i> LOCATION: <i>Cathedralburg</i>		N.F.	NON FUSION
CODE: <i>API 1104</i>		P.H.	PIN HOLE
DATE <i>1-17-94</i>	PAGE <i>1</i> OF <i>1</i>	I.P.	INSUFFICIENT PURGE
		C.	CRACK
		P.	POROSITY
		L.C.	LOW CAP
		H.B.	HOLLOW BEAD
		C.B.	CONCAVE BEAD
		S.I.	SLAG INCLUSIONS
		I.U.	INTERNAL UNDERCUT
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
1 20-24	✓	NY-04	B+L				MEADE SPRINGER
2 20-25	✓						
3 20-26	✓						
4 20-27	✓						
5 20-28	✓						
6 20-29	✓						
7 20-30	✓						
8 20-31	✓						
9 20-32	✓						
10 20-33	✓	↓	↓		↓		
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RADIOGRAPHER: *Sandy Chapman* HELPER:
 INSPECTOR: *Franklin Dyer*
 TOTAL WELDS *10* TOTAL HOURS *8*
 MILES: START END *100 miles Rd.*
 CONTRACTOR: *BTL* LOCATION: *Cathlamet Ky*
 CODE: *APR 1104*
 DATE *1-18-95* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
H.B.	HOLLOW BEAD
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1. DO-34	✓		Ky-04	BLL					Macle Springs 188 well
2. DO-35	✓								
3. DO-36	✓								
4. DO-37	✓								
5. DO-38	✓								
6									
7									
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25									

RADIOGRAPHER: *Larry Chapman* HELPER: _____
 INSPECTOR: *James M. Ugg*
 TOTAL WELDS: *5* TOTAL HOURS: *8*
 MILES: START _____ END: *100 miles RT*
 CONTRACTOR: *BLL* LOCATION: *Catlettsburg Ky*
 CODE: *API 1101*
 DATE: *1-19-95* PAGE 1 OF 1

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O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
H.B.	HOLLOW BEAD
C.B.	CONCAVE BEAD
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT / REJECT		SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1			NY-01	BTL					
2									
3									
4									
5									
6									
7									
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25									

STAND BY DO LINE

100 WALL

RADIOGRAPHER: *LARRY CHAPMAN* HELPER: _____
INSPECTOR: *Stephen King*
TOTAL WELDS: *0* TOTAL HOURS: *5 stand by.*
MILES: START _____ END: *100 miles Rt*
CONTRACTOR: *BTL* LOCATION: *Catlettsburg Ky*
CODE: *APJ 1104*
DATE: *1-20-95* PAGE: *1* OF *1*

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L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
1 DO-39	✓	Kyrath	B+L	L.P.	8"		EXITING MEADE SPRINGER +
2 DO-40	✓						FROM ROAD CROSSING TO
3 DO-41	✓	Cut Out		L.P.			EXITING MEADOW LANE
4 DO-42	✓						
5 DO-43	✓						
6 DO-44	✓						
7 DO-45	✓						
8 DO-46	✓						
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RADIOGRAPHER: LARRY Chapman HELPER:

INSPECTOR: [Signature]

TOTAL WELDS 8 TOTAL HOURS 8

MILES: START END 100 miles Rt.

CONTRACTOR: B+L LOCATION: Callahan Ky.

CODE: API 1104

DATE 1-23-94 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
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 HURRICANE, WV 25526
 PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT		SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DC-47	✓		Bx-0A	B+L			8"		1.8"
2 DC-48	✓								
3 DC-49	✓								
4 DC-50	✓								
5 DC-51	✓								
6 DC-52	✓								
7 DC-53	✓								
8 DC-54	✓								
8 DC-39 R	✓								
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RADIOGRAPHER: Larry Chapp HELPER: _____
 INSPECTOR: [Signature]
 TOTAL WELDS 9 TOTAL HOURS 8
 MILES: START _____ END 100 miles RT
 CONTRACTOR: B+L LOCATION: Cannon Ledge
 CODE: 1104
 DATE 1-25-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
H.B.	HOLLOW BEAD
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 HURRICANE, WV 25526
 PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
1 DO-55	✓	K4-OH	B+L		8"		Meade Springs
2 DO-56	✓						
3 DO-57	✓						
4 DO-58	✓						
5 DO-59	✓						
6 DO-60	✓						
7 DO-61	✓						
8 DO-62	✓						
9 DO-63	✓						
10		↓	↓		↓		
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RADIOGRAPHER: LARRY Chapman HELPER: _____
 INSPECTOR: J. H. [Signature]
 TOTAL WELDS 8 TOTAL HOURS 8
 MILES: START _____ END 100 miles et
 CONTRACTOR: B+L LOCATION: Cannonburg Ky
 CODE: AP5 1104
 DATE 1-26-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
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HURRICANE, WV 25528
PHONE: (304) 562-8835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DO-64	✓	HY-ON	B+L					
2 DO-65	✓							meade Springs
3 DO-66	✓							
4 DO-67	✓							next to Meadow Lane
5 DO-68	✓							
6 DO-69	✓							188 Wall
7 DO-70	✓							
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RADIOGRAPHER: LARRY Chapman HELPER:

INSPECTOR: [Signature]

TOTAL WELDS 7 TOTAL HOURS 8

MILES: START END 100 miles Et.

CONTRACTOR: B+L LOCATION: Cannon Burg ky

CODE: API 1104

DATE 1-27-94 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DO-71	✓		Hy-ON	B+L			8"		
2 DO-72	✓								Meadow Lane
3 DO-73	✓								
4 DO-74	✓								188 walk
5 DO-75	✓								
6 DO-76	✓								
7 DO-77	✓								
8 DO-78	✓								
9									
10									
11									
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RADIOGRAPHER: *Paul Chapman* HELPER: _____
 INSPECTOR: *Paul Chapman*
 TOTAL WELDS _____ TOTAL HOURS 6
 MILES: START _____ END 100 miles (ET)
 CONTRACTOR: B+L LOCATION: Cannon Run
 CODE: APR 1104
 DATE 2-1-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DO-79	✓	✓	Ky-04	B+L			84		188 wall
2 DO-80	✓	✓							
3 DO-81	✓	✓							MEADOW LAKE
4 DO-82	✓	✓							
5 DO-83	✓	✓							
6									
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24									
25									

RADIOGRAPHER: *Sam Chapman* HELPER:
INSPECTOR: *Frank R. Vign...*
TOTAL WELDS *5* TOTAL HOURS *5*
MILES: START END *105 miles Rt*
CONTRACTOR: *B+L* LOCATION: *Cannonburg Ky*
CODE: *AD2 1104*
DATE *2-2-95* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:	
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L.P.	LACK OF PENETRATION
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GAMMA RAY — ULTRASONIC — MAGNETIC PARTICLE —
INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT



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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DC-84	✓	84-24	BH			2"		Window Line
2 DC-85	✓							188 weld
3 DC-86	✓							
4 DC-87	✓							
5 DC-88								
6 DC-89								
7 DC-90								
8 DC-91								
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RADIOGRAPHER: *John Chapp* HELPER: _____
 INSPECTOR: *James Dyer*
 TOTAL WELDS *3* TOTAL HOURS *5*
 MILES: START _____ END *100 miles RT*
 CONTRACTOR: _____ LOCATION: *Cannonburg Ky*
 CODE: *API 1164*
 DATE *2-3-75* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROBITY
L.C.	LOW CAP
H.B.	HOLLOW BEAD
C.B.	CONCAVE BEAD
S.I.	SLAG INCLUSIONS
I.U.	INTERNAL UNDERCUT
E.U.	EXTERNAL UNDERCUT



NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
HURRICANE, WV 25526
PHONE: (304) 862-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
100-92	✓		Ry. OH	B+L					180 W/LI medium beam
200-93	✓								
300-94	✓								
400-95	✓								
500-96	✓								
600-97	✓								
7									
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RADIOGRAPHER: *James Chapman* HELPER:

INSPECTOR: *James Chapman*

TOTAL WELDS 6 TOTAL HOURS 6

MILES: START END 100 miles Rt

CONTRACTOR: B+L LOCATION: Canmanning Key

CODE: API 1104

DATE 2-6-75 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
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N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDER'S STENCIL	SIZE	WELD CLASS	REMARKS
1 100-98	✓		BY OH	BTL					100 wall
2 100-99	✓								
3 100-100	✓								Window line
4 100-101	✓								
5 100-102	✓								
6 100-103	✓								
7 100-104	✓								
8 100-105	✓								
9									
10									
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RADIOGRAPHER: *Janet May* HELPER: _____
 INSPECTOR: *Frank W. Wiggins*
 TOTAL WELDS 8 TOTAL HOURS 6
 MILES: START _____ END 100 miles of
 CONTRACTOR: BH LOCATION: Cannonsburg
 CODE: APT
 1104
 DATE 2-7-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT		SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 20106	✓		Accept	B+L					Madon June
2 20107	✓								
3 20108	✓								
4 20109	✓								
5 DD-110	✓								
6 DD-111	✓								
7 DD-112	✓								
8 DD-113	✓								
9									
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RADIOGRAPHER: Larry Chapman HELPER:
INSPECTOR: Richard D. Wuzi
TOTAL WELDS 8 TOTAL HOURS 6
MILES: START END
CONTRACTOR: B+L LOCATION: Carroll County
CODE: API
1104
DATE 1-9-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
P.H.	PIN HOLE
I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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E.U.	EXTERNAL UNDERCUT

GAMMA RAY — ULTRASONIC — MAGNETIC PARTICLE —
INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT



NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
HURRICANE, WV 25528
PHONE: (304) 562-8835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS	STENCIL	SIZE	WELD CLASS	REMARKS
30-114	✓		BH 04	BH						Meadow Lane
30-115	✓									Next to Road Crossing
30-116	✓									
30-117	✓									
500-118	✓									
600-119	✓		CUT OUT	LP						Meadow Lane Crossing - filling
700-120	✓		CUT OUT	LP						Meadow Lane - filling
8										
9										
10										
11										
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25										

RADIOGRAPHER: *Jerry Chapman* HELPER: _____
 INSPECTOR: *[Signature]*
 TOTAL WELDS 7 TOTAL HOURS 7
 MILES: START _____ END 100 miles BH
 CONTRACTOR: BH LOCATION: Cannonsburg Ky
 CODE: API
 DATE 2-10-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
L.P.	LACK OF PENETRATION
N.F.	NON FUSION
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
HURRICANE, WV 25528
PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
1 DO-121	✓		Ky-H	B+L	Out Out		8"		High Pressure Road Crossover
2 DO-122	✓				Out Out				Filling " " "
3 DO-123	✓								
4									
5									
6 B-w	✓								Buyer Hill X-ins - Filling
7									
8									
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RADIOGRAPHER: *Larry Chapman* HELPER: _____
 INSPECTOR: *[Signature]*
 TOTAL WELDS 4 TOTAL HOURS 8
 MILES: START _____ END 100 miles of _____
 CONTRACTOR: B+L LOCATION: *Cannonsburg*
 CODE: API 1104
 DATE 2-13-95 PAGE 1 OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
100-124	✓		K40H	B+L	LPCUT OFF				} <i>Wassonville - Straight Pipe Road Crossing Replaces DO-101 & DO-122</i>
200-125	✓								
300-126	✓								
400-127	✓								
500-128	✓								
6									
7									
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RADIOGRAPHER: *Larry [Signature]* HELPER:

INSPECTOR: *[Signature]*

TOTAL WELDS *5* TOTAL HOURS *6*

MILES: START END *100 miles*

CONTRACTOR: *B+L* LOCATION: *Cannonburg Ky*

CODE: *APF 1104*

DATE *2-14-95* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:	
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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GAMMA RAY — ULTRASONIC — MAGNETIC PARTICLE —
INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT



NONDESTRUCTIVE INSPECTION SERVICE, INC.

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 HURRICANE, WV 25526
 PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT		SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
120129	✓		Ky-a4	B+L			9"		
200-130	✓								Road crossing
300-131	✓								meadow base
400-132	✓								At Newmore Rd
5									
6									129, 130 Replaced
7									XR DO 124
8									
9									
10									131 Replaced 1/14
11									132 Replaced 1/20
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RADIOGRAPHER: *Jerry Chan* HELPER:
 INSPECTOR: *Robert Wiggins*
 TOTAL WELDS 4 TOTAL HOURS 8
 MILES: START END 100 miles st
 CONTRACTOR: *BTL* LOCATION: *Cammerburg*
 CODE: *API 1104*
 DATE *2-16-95* PAGE (OF 1

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
O.P.	OVER PENETRATION
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I.P.	INSUFFICIENT PURGE
C.	CRACK
P.	POROSITY
L.C.	LOW CAP
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P. O. BOX 220
HURRICANE, WV 25526
PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT	REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS	STENCIL SIZE	WELD CLASS	REMARKS
1 BG-21	✓		KY-04	B&L			5"	2-C	
2 DO-133	✓		1	1			1		MCAD-K-14W
3									
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RADIOGRAPHER: *Kenny Blythe* HELPER:

INSPECTOR: *Paul D. Wigg*

TOTAL WELDS *2* TOTAL HOURS *5 1/2*

MILES: START END *100 RT*

CONTRACTOR: *B&L KY-04* LOCATION: *CANNONBURG, KY*

CODE: *API-1104*

DATE *2-17-95* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
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C.	CRACK
P.	POROSITY
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P. O. BOX 220
HURRICANE, WV 25526
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RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT REJECT	SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL SIZE	WELD CLASS	REMARKS
1 DO-134	✓	ky-017	B+2				made SFWSP
2 DO-135	✓	↓	↓				↓
3							
4							
5							
6							
7							DO 134 - Replaces DO 4
8							DO 135 - Replaces DO 4
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RADIOGRAPHER: <i>Freeman Davis</i>	HELPER:
INSPECTOR: <i>John R. [Signature]</i>	
TOTAL WELDS: <i>2</i>	TOTAL HOURS:
MILES: START	END
CONTRACTOR: <i>ky-017 B+2</i>	LOCATION: <i>MEAD SPRING ST AD</i>
CODE: <i>API-1104</i>	
DATE: <i>2-20-95</i>	PAGE <i>1</i> OF <i>1</i>

RADIOGRAPHIC TERMS:	
B.T.	BURN THRU
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C.	CRACK
P.	POROSITY
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GAMMA RAY — ULTRASONIC — MAGNETIC PARTICLE —
INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT



Energy Management & Services Company

Technical Expertise Serving The Oil & Gas Industry

LL

RECEIVED

March 9, 1995

MAR 13 1995

Mr. Scott Smith, P.E.
Kentucky Public Service Commission
P.O. Box 615
730 Schenkel Lane
Frankfort, KY 40601

DIVISION OF UTILITY
ENGINEERING & SERVICES

Re: Kentucky-Ohio Gas Acquisition
Response To Questions On
X-Ray Reports

Dear Scott:

I understand Mr. Larry Amburgey had a question concerning the X-Ray Report dated February 3, 1995, due to the fact four of the x-rays (DO-88,89,90, and 91) were not marked as to whether they were accepted or rejected.

I have checked with Mr. Randy Virgin, the KOG inspector on the "dig-out" activity. According to his notes, the four x-rays in question were all acceptable but the technician had failed to mark their status.

I hope this answers your questions concerning this issue.

Sincerely,

ENERGY MANAGEMENT & SERVICES CO.

T.D. HONN, P.E., L.S.
PRESIDENT

enclosures

cc: Mr. Tim Sutherland
Mr. Jeff Brown
Mr. Jack Hughes
Mr. Glenn Templeton

kog/107.



NONDESTRUCTIVE INSPECTION SERVICE, INC.

P. O. BOX 220
 HURRICANE, WV 25526
 PHONE: (304) 562-6835 or 727-3501

RADIOGRAPHIC INSPECTION REPORT

X-RAY NO.	ACCEPT / REJECT		SKETCH NUMBER	PROJECT NUMBER	REASON FOR REJECTION	WELDERS STENCIL	SIZE	WELD CLASS	REMARKS
	ACCEPT	REJECT							
1 DO-84	✓		KY-24	BTH			5"		Aluminum LAMP
2 DO-85	✓								188 WEL
3 DO-86	✓								
4 DO-87	✓								
5 DO-88	X								These were not originally marked as rejected. Checked w/ R. Virgin's notes - therefore were all OK -
6 DO-89	X								
7 DO-90	X								
8 DO-91	X								
9									
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RADIOGRAPHER: *John Chaga* HELPER:

INSPECTOR: *Spencer Virgo*

TOTAL WELDS: *3* TOTAL HOURS: *5*

MILES: START END *100 miles RT*

CONTRACTOR: LOCATION: *Common Day by*

CODE: *API 1104*

DATE: *2-3-75* PAGE *1* OF *1*

RADIOGRAPHIC TERMS:

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 INSPECTION & STRAIGHTENING OF OIL FIELD EQUIPMENT