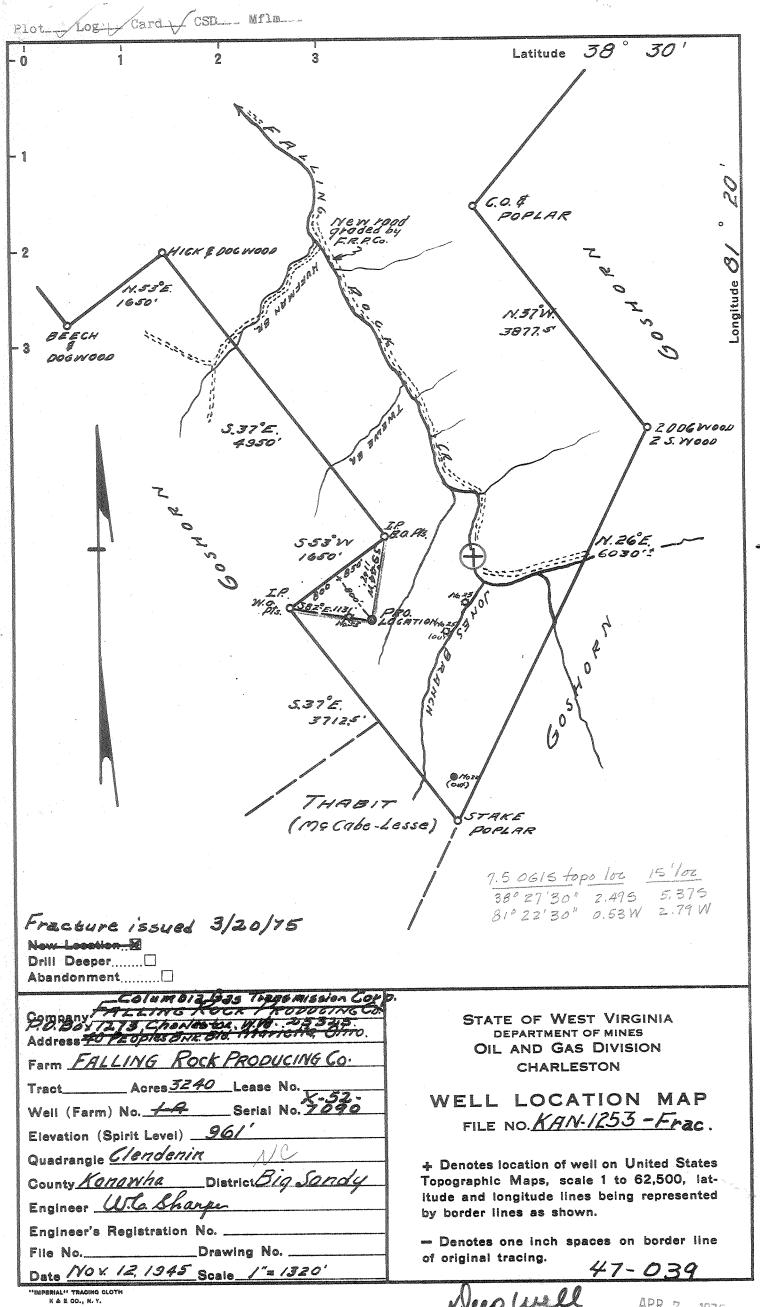
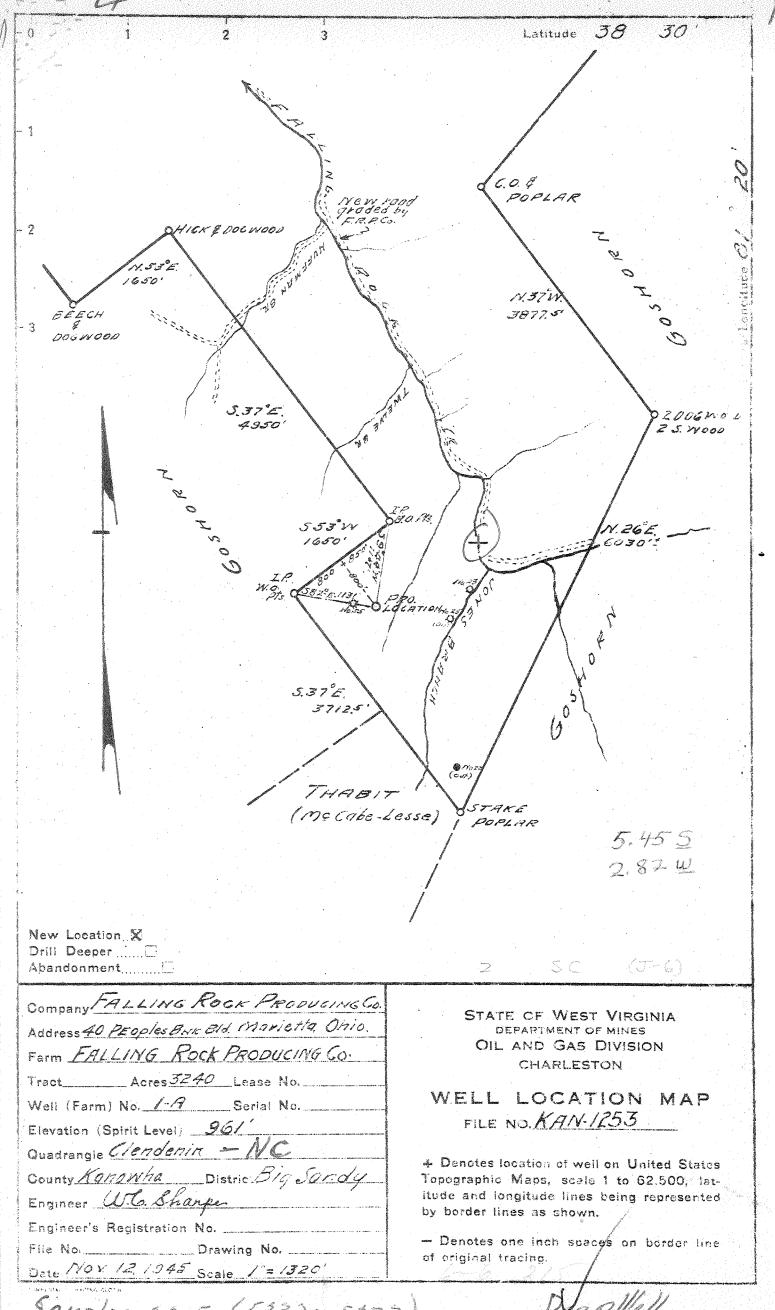


000 D/0511



Sup well

APR 7 1975



SAMPles 20-E (5332-5373)

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

Permit No. Kan 1253 Clendenin Quad.	*3-7 % 5 *O-0	nla Dan diin kan	o -		O	Gas We ASING &	TUBING
Company Address Farm Location Well No. District Surface Mineral	Mariotta, Falling Ro Falling Ro L-A Big Sandy	ck Producing ck Creek Elev. 961	Co.	A 3240 arietta	10 81 6 5/8 Ohio	230 1500 5319	230 1600 5319
Commonced Completed Volume Rock Pressure	Nov. 12,19 Mar. 9,194 10,000,000 750 1b3	6 C.F.					
Slate Shells Injun Sand Red Injun Meir Sand Slate Shells Shale Berea Shells Gordon Shells Slate & Shells Brown Lime Slate & Shells Brown Shale Slate Brown Shale	200 210 370 405 470 850 882 1125 1130 1360 1390 1482 1515 1530 1560 1595 1740 1765 1845 1860 1990 2165 2173 2450 2465 3350 3400 3830 3915 4005 4340 4375 4725 4770 4810 5065 5150 5244 5373	200 210 370 405 470 850 880 882 1125 1130 1360 1390 1482 1515 1530 1560 1595 1740 1765 1845 1860 1990 2165 2173 2450 2465 3350 3400 3830 3870 3840 3830 3870 3830 3870 405 405 405 405 405 405 405 40					

In Re: Complete Information requested below:



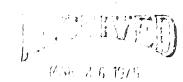
FRACTURE RECORD

Well Name and No: Falling Rock	<u>Prod. Co. #X-52-7090</u> (Storage Well)
District: Big Sandy	County: Kanawha
Permit No: 039-1253-FRAC	Completion Date: 3/26/75
Formation Fractured:	Material:
Top 5373	1,000 gal. 15% acid; 30,000#, 20/40
Bottom 5394	sand; 682 bbls. water
Rock Pressure:	Test after Fracture:
Before Fracture NA	_ OilNA
After Fracture 1110 psig	Gas 5,500 Mcf
COMPANY Columbia Gas Transmission Co P. O. Box 1273 Charleston, WEst Virginia 2	5325
RETURN TO: Dept. Mines-Office of Oil & 1615 Washington Street, Eas Charleston, W.Va. 25311-219	it.

COLUMBIA GAS TRANSMISSION TORPORATION

44

March 24, 1975



Mr. Robert L. Dodd, Deputy Director W. Va. Department of Mines, Oil & Gas Division 1204 Kanawha Blvd., East Charleston, W. Va. 25301

Dear Mr. Dodd:

Enclosed, please find a copy of assignment from Seatex Oil Co., Inc. to United Fuel Gas Co., dated March 31, 1950, which assigns certain oil and gas leases and certain Oriskany gas wells which are mentioned on Page 4, Paragraph 4. The aforementioned wells are listed below:

WELL NO.	PERMIT NO.	NAME OF TRACT
X - 52 - 7087 X - 52 - 7088	KAN - 1207 KAN - 1269	Thabet Thabet
X - 52 - 7089 X - 52 - 7090	⊳KAN - 1291 ✓KAN - 1253	Thabet Weir
X - 52 - 7091 X - 52 - 7092	КАN - 1290 КЛN - 1301	Weir Weir Weir
X - 52 - 7093 X - 52 - 7094	KAN - 1317 KAN - 1327	Weir
X - 52 - 7095	KAN - 1360	Weir . Weir

I believe this information will complete your files. If any additional information is needed, please advise.

Very truly yours

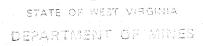
R. M. Hubbard

R. M. Hubbard

Enclosures RMH/mv

ASSIGNMENT IN BLANKET BOND FOLDER







DEFT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	March 19, 1975
Charleston, W. Va. Kanawha Banking & Trust Co.	DATE PAICE 19, 1973
Surface Owner Trustee for C.E. Krebs	Company Columbia Gas Transmission Corp.
Address P.O. Box 393, Charleston, W.Va. 25322	Address P.O. Box 1273, Charleston, W. Va. 25325
Mineral Owner Same as above	FarmFalling Rock Prod.Co. Acres 3240
Address	Location (waters) Hackberry Run of Falling Rock
Coal Owner Same as above	Well No. X-52-7090 Elevation 961'
Address	District Big Sandy County Kanawha
Coal Operator Not Operated	Quadrangle Blue Creek
Address	
	INSPECTOR TO BE NOTIFIED Martin Nichols
THIS PERMIT MUST BE POSTED AT THE WELL CHE	Clendenin.W.Va. PH 548-6993
All provisions being in accordance with Chapter 22,	
of the W. Va. Code, the location is hereby approved	
for fracturing This permit shall expire if	
operations have not commenced by 7-20-75	
Tital Aroda	
Deputy Director - Oil & Gas Division	
title thereto (or as the case may be) under grant or lease di	above named farm or tract of land for oil and gas, having feated March 31, 1950 by Seatex
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co	ated <u>March 31</u> , 1950 by <u>Seatex</u> <u>rp.</u> and recorded on the day of Page402
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co	ated <u>March 31</u> , 1950 by <u>Seatex</u> <u>rp.</u> and recorded on the day of Page402
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The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease drill upon the Oil Co	ated March 31, 1950 by Seatex TP. and recorded on the day of Page 402 REDRILL X FRACTURE EXAMPLEMENT BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operator
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co. 19, inKanawha	ated March 31, 1950 by Seatex TP. and recorded on the day of
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease drill co. Oil Co. made to Columbia Gas Trans.Co	ated March 31, 1950 by Seatex TP. and recorded on the day of
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The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease drill co. Oil Co. made to Columbia Gas Trans.Co	ated March 31, 1950 by Seatex TP. and recorded on the day of Page 402 REDRILL X FRACTURE EXAMPLEMENT BEFORE JUNE 5, 1969. To licensed land surveyor and all coal owners and/or operator notified that any objection they wish to make, or are required with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operator day before, or on the partment of Mines at Charleston, West Virginia. COLUMBIA GAS TRANSMISSION CORPORATION
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co. 19, inKanawha	ated March 31, 1950 by Seatex TP. and recorded on the day of
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co made to Columbia Gas Trans.Co 19, inKanawha County, Book 915 NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED. The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or fit of the Code of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Degration of the code of the	ated March 31, 1950 by Seatex TP. and recorded on the day of
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co. 19, inKanawha	ated March 31, 1950 by Seatex TP. and recorded on the day of Page 402 REDRILL X FRACTURE EXAMINATE BEFORE JUNE 5, 1969. or licensed land surveyor and all coal owners and/or operator notified that any objection they wish to make, or are required liled with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operator partment of Mines at Charleston, West Virginia. COLUMBIA GAS TRANSMISSION CORPORATION Very truly yours (Sign Name) Dev. Well Operator
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co. 19 in Kanawha County, Book 915 NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED. The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or fit Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Degrater and the Degrater and Copies of this copy to the Degrater and Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Degrater and Copies of the Copies of this copy to the Degrater and Copies of the Copies of this copy to the Degrater and Copies of the Copies of the Copies of the Copies of this copy to the Degrater and Copies of the	ated March 31, 1950 by Seatex TP. and recorded on the day of Page 402 REDRILL X FRACTURE EXAMINATION BEFORE JUNE 5, 1969. The licensed land surveyor and all coal owners and/or operator of licensed land surveyor and all coal owners and/or opera
The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease droil Co. made to Columbia Gas Trans.Co. 19	ated March 31, 1950 by Seatex TP. and recorded on the day of
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The undersigned well operator is entitled to drill upon the title thereto, (or as the case may be) under grant or lease do Oil Co. made to Columbia Gas Trans.Co 19, in Kanawha County, Book 915	ated March 31, 1950 by Seatex TP. and recorded on the day of

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

THIS IS AN ESTIMATE ONLY ACTUAL METORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

AMME	IBLE AGENT: W. H. Chapma P.O. Box 610 P.O. STORAGE WATER FLOOD WIT IN VELL 30' 00' 56'	an O.Clendenin,W.Va. 25045 5-3317 ABLE TOOLS
AME_DDRESS	P.O. Box 610 NE (304) 965 STORAGE WATER FLOOD STORAGE WATER FLOOD OF 56'	O.Clendenin, W.Va. 25045 5-3317 ABLE TOOLS X DISPOSAL OOTHER CEMENT FILL UP OR SACKS - CUBIC FT. Perf. Top Perf. Bottom Perf. Top
DDRESS	CASTORAGE STORAGE WATER FLOOD STORAGE WATER FLOOD OF IN VELL OO'	ABLE TOOLS
ELEPHONE STIMATED DEPTH OF COMPLETED WELL: 5394' ROTARY ROPOSED GEOLOGICAL FORMATION: Oriskany YPE OF WELL: OIL GAS COME. RECYCLING ENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR LOSED FOR SIZE DRILLING 0-16 2-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-10 3-16 3-16 3-16 3-16 3-16 3-16 3-16 3-16 3-10 3-16 3-	STORAGE STORAGE WATER FLOOD OF IN WELL OO' OO' OO'	ABLE TOOLS X DISPOSAL O OTHER CEMENT FILL UP OR SACKS - CUBIC FT. Perf. Top Perf. Bottom Perf. Top
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-5/8 -5/8 -5/8 -5/8 -5/8 -5/8 -5/9 -5/9 -5/9 -5/9 -5/9 -5/9 -5/9 -5/9	00 ° 56 °	Perf. Bottom / Perf. Top
### ### ### ### ### ### ### ### ### ##	56'	Perf. Bottom / Perf. Top
APPROXIMATE FRESH WATER DEPTHS FEET APPROXIMATE COAL DEPTHS 1125' - 1130' SCOAL BEING MINED IN THE AREA? No. FO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PE OF PLAT. FO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERM WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE MUST ALSO BE SUBMITTED. FO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5 EOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion four (24) hours in advance.	56'	Perf. Bottom / Perf. Top
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	T NUMBER AND E PLAT AND TH 1929, FIVE (5) CO ER JUNE 5, 1929	PERFORMANCE BOND. ON TE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE , FIVE COPIES OG - 1, SHOW-
WAIVER: I the undersigned, Agent for Coal this lease have examined and place on our mine maps this property with the Coal Company have no observed operator has complied with all rules and regulations in Code.		sued within ten days of receipt
	Company, Owner posed well locations to said we	or Operator of the coal under on.
	Company, Owner posed well location to said we articles 4, 5, and 7	or Operator of the coal under on. Il being drilled at this location,

For Office of Oil and Gas Use Only

| Fee(s) paid: | | Well Work Permit | | Reclamation Fund | | WPCP
| Plat | | WW-9 | | | WW-2B | | Bond | | Agen | | (Type)

Page 1 of__ Form WW2-A (6/94)File Copy

hammen!



1) Date: 10/29/96

Operator's well number COCO- WELL # 7090

3) API Well No: 47 - 039 - 01253 - D State - County - Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner (s) to be served:	5) (a) Coal Operator:
a) Name <u>Jim C. Hamer Co.</u> Address P. O. Box 418	NameAddress
Kenova, WV 25530	Addi ess
b) Name	(b) Coal Owner (s) with Declaration
Address	Name _ Jim C. Hamer Co.
Audi ess	Address P. O. Box 418
a) Noma	
c) Name	
Address	Name
	Address
6) Inspector Carlos W. Hiviely	(c) Coal Lessee with Declaration
Address 223 Pinch Ridge Road	
Elkview, WV 25071	
Telephone (304) - 965-6069	Coffee Strange Lower in Col D. Ts.
	while and the second of the second
TO THE PERSON(S) NAMED ABOVE	
Included is the lease or leases or	other continuing contract of
contracts by which I hold the right to	extract oil and gas <u>OR</u>
X_Included is the information required b	y Chapter 22, Article 6, Section
8 (d) of the Code of West Virginia (see	page 2)
I certify that as required under Cha	
I have served copies of this notice and	application, a location plat, and
accompanying documents pages 1 through	on the above named parties, by:
Personal Service (Affidavit attach	ed)
X Certified Mail (Postmarked postal	
Publication (Notice of Publication	
rubiloation (rotice of rubiloation	acaonou,
I have read and understand Chapter 22	6 and 39 CSP 11 19 and 1 agree
to the terms and conditions of any per	mit issued under this confication
I certify under penalty of law that I	have recently exemined and am
familiar with the information submitted on	
attachments, and that based on my ind	uiry 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 significan	t penalties for submitting false
official SEAL Well Operator NOTARY PUBLIC STATE OF WEST VEGINIA	and imprisonment.
OFFICIAL SEAL Well Operator	COLUMBIA GAS TRANSMISSION CORP.
NOTARY PUBLIC By:	
13.	otorage Engineer / Well Gervices
PATRICIA A. TURKETT Address	P. O. Box 1808
CHARLESTON WEST VIRGINIA 25325-1273	St. Albans, WV 25177-1808
My Commission Expires August 12, 1997 Telephone	(304) 722-8612
Subscribed and sworn before me this	day of <u>Noueuller</u> , 19 <u>96</u>
Taticua U.	Murkett 1997 Notary Public
My commission expires	central 10, 111

API # 47- 39-01253-D

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

Well Operator's Report of Well Work

Farm name: HAMER, JIM C. COMPANY

Operator Well No.: COCO 7090

03-Dec-96

LOCATION:

Elevation: 1,011.30 Quadrangle: BLUE CREEK

District: BIG SANDY

County: KANAWHA

Latitude: 13180 Feet South of 38 Deg. 27Min. 30 Sec. Longitude 2700 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION

P. O. BOX 1273

CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY

Permit Issued: Well work Commenced:

12/04/96 07/31/97

Well work Completed:

08/24/97

Verbal Plugging

Permission granted on:

Rotary Cable Total Depth (feet)

53941

Fresh water depths (ft)

Not Reported

Salt water depths (ft)

Not Reported

Is coal being mined in area (Y/N)? N

Coal Depths (ft): Not Reported

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			
1003/48		230'	
8 5/8"		1600'	
7"		5266'	1
4 1/2"		5360'	60sx

OPEN FLOW DATA

Producing formation	ORISKANY STORAGE	Pay zone depth	(ft) 5373'-5394'
Gas: Initial open flow	MCF/d Oil:	Initial open flow	Bbl/d
Final open flow	MCF/d	Final open flow _ and final tests	Bbl/d
Time of open flow	between initial	and final tests	Hours
Static rock Pressure	psig (surfa	ace pressure) afte	rHours
Second producing forma	tion	Pay zone depth	
Gas: Initial open flow	MCF/d Oil:	Initial open flow	Bb1/d
Gas: Initial open flow Final open flow	MCF/d Oil: MCF/d	Initial open flow Final open flow	Bbl/d Bbl/d
Gas: Initial open flow Final open flow	MCF/d Oil: MCF/d	Initial open flow	Bbl/d Bbl/d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, LOG WHICH INCLUDING COAL ENCOUNTERED BY THE WELLBORE

> For: COLUMBIA GAS TRANSMISSION CORP. JAM 2 3 1998

By: Date: 1-15-98 Replaced top joint of 4 1/2" casing and installed new 7" X 4 1/2" API 3000 wellhead. Stimulated ORISKANY with N -assist Deltafrac treatment using 388 bbls of water, 151 MSCF N , and 26,500 lbs. 20/40 sand/

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THE MONTH WIND

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