

RECEIVED



IV-35 (Rev 8-81)

MAR 1 8 1982

OIL AND GAS DIVISION State of Alest Hirginia Well No.

WY DEPARTMENT OF MINES State of Alines

Bepartment of Alines

Farm Column

Oil und Gas Bivision

API No. 47

Date February 8, 1982
Operator's
Well No. 20715
Farm Columbia Mineral
API No. 47 - 099 - 1742

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 972.14' Watershed L	eft Fork o	F Little M	ilam Creel	.
District: Stonewall County Wayne		Quadrangl		
COMPANY Columbia Gas Transmission Corp.	eth er delet of the transition of the entire	et i Termining om et i vers en en kolonis et som en på en		
ADDRESS P. O. Box 1273 - Charleston, WV		***		Cement
DESIGNATED AGENT Joe Campbell	Casing	Used in	Left	fill up
ADDRESS P. O. Box 2946 - Huntington, WV	Tubing	Drilling	in Well	Cu. ft.
SURFACE CWNER Goldie Maynard	Size 20-16		Silverischerosteros	
ADDRESS N/A	cond.	THE CANADISTS WE HERE THE WHILE CONTROL THE CONTROL TO THE CONTROL		Natoria maguni magazini periodi ma
MINERAL RIGHTS OWNER Columbia Gas Transmission	13-10"			
ADDRESS P. O. Box 1273 - Charleston, WV	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Kenneth	8 5/8	368	368	64.9 c.f.
Butcher ADDRESS Barboursville, WV	7	1633	1633	
PERMIT ISSUED April 4, 1981	5 1/2		Market Section Control of the Contro	
DRILLING COMMENCED May 6, 1981	4 1/2		Sent Control of the C	
DRILLING COMPLETED August 1, 1981	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 3/8	1749.60	1749.60	
CONFINUOUS PROGRESSION FROM DRILLING OR	Liners		Damini aranda da d	
REWORKING. VERBAL PERMISSION OBTAINED	used			
EDIOGICAL TARGET FORMATION Brown Shale		Dept	.h 36	00 feet
Depth of completed well 3747 feet F	lotary	OSTRUM-PROP	Tools_	X
	C-1- 750	feet		
Water strata depth: Fresh 58 feet;	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU			27022
Water strata depth: Fresh 58 feet; Coal seam depths: 25, 55, 144, 302	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	ceing mine	m in the	area:
Coal seam depths: 25, 55, 144, 302		being mine	a in the	
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA	Is coal 1			-
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime	Is coal l	zone dept	h 1610-1	764 feet
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d	Is coal l Pay Oil: Init	zone dept Lial open	h 1610-1	764 feet
Coal seam depths: 25, 55, 144, 302 OPEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow 15 Mcf/d	Is coal l Pay Oil: Init	zone dept Lial open al open fl	h 1610-1 flow 3 ga	764 feet 1/ Bbl/d 10 Bb1/d
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow 15 Mcf/d Time of open flow between initi	Is coal l Pay Oil: Init Fina	zone dept iial open al open fl nal tests	h 1610-1 flow 3 ga .ow hou	764 feet 1/ Bbl/d
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow 15 Mcf/d Time of open flow between initi Static rock pressure psig(surface	Pay Oil: Init Fina al and fir	zone dept lial open al open fl lal tests ent) after	h 1610-1 flow 3 ga	764 feet 1/ Bbl/d
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow (15) Mcf/d Time of open flow between initi Static rock pressure psig(surface (If applicable due to multiple completion-	Pay Oil: Init Fina al and fir	zone dept ial open al open fl hal tests ent) after	h 1610-1 flow 3 ga cw hou	764 feet 1/ Bbl/d 10 Bbl/d ors cs shut in
Coal seam depths: 25, 55, 144, 302 PEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow (15) Mcf/d Time of open flow between initi Static rock pressure psig(surface (If applicable due to multiple completion—Second producing formation Brown Shale	Pay Oil: Init Fina al and fir measurement Shale g	zone depticial open fluial tests ent) after zone depti	h 1610-1 flow 3 ga ow hour hour gged off.	764 feet 1/ Bbl/d 10 Bbl/d irs cs shut in feet
Coal seam depths: 25, 55, 144, 302 DPEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow 15 Mcf/d Time of open flow between initi Static rock pressure psig(surface (If applicable due to multiple completion—Second producing formation Brown Shale Gas: Initial open flow Mcf/d	Pay Oil: Init Fina al and fir measureme Shale 9 Pay Oil: Init	zone depticial open flual tests_ent) after as is plug zone depticial open	h 1610-1 flow 3 ga ow hour hour gged off. h	764 feet 1/ Bbl/d 10 Bbl/d 10 shut in feet Bbl/d
Coal seam depths: 25, 55, 144, 302 DPEN FLOW DATA Producing formation Big Lime Gas: Initial open flow 0 Mcf/d Final open flow 15 Mcf/d Time of open flow between initi Static rock pressure psig(surface (If applicable due to multiple completion—Second producing formation Brown Shale Gas: Initial open flow Mcf/d	Pay Oil: Init Fina al and fir measurement -) Shale g / Pay Oil: Init Oil: Fina	zone depticial open flual tests ent) after (as is plug zone depticial open fluopen flu	th 1610-1 flow 3 ga ow hour hour gged off. h	764 feet 1/ Bbl/d 10 Bbl/d rs rs shut in feet Bbl/d Bbl/d

(Continue on reverse side)

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

na of the

Brown Shale was shot from 2456-3743 with 13,000# 80% Gelatin.

Acidized Big Lime open hole with 1000 gallons 28% Hcl Acid.

*Gas in Shale guaged 47 Mcf. Set open hole bridge plug @ 1755' and ran 10' of Calseal (1755-1745') - plugged back TD 1745'. Shale gas is plugged off.

WELL LOG

	•	Abyr country	REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
			and salt water, coal, oil and gas
Sand	0	25	
Coal	25	27	
Sand	27	35	
Slate	35	55	
Coal	- 55	58	Water @ 58' - Hole Full
Sand	. 58	144	
Coal	144	147	
Slate	147	155	
Sand	155	190	
Slate	190	223	
Sand	223	273	
Slate	273	302	
Coal	302	312	
Slate	312	332	
Sand	332	433	
Slate	433	500	
Broken Sand	500	702	
Salt Sand	702	800	Salt Water 750-760' - Hole Full
Slate	800	812	
Sand	812	1145	850-900' - Lost Water While Drilli
Slate	1145	1196	905-915' - Gas Show
Sand	1196	1286	
Slate Shell	1286	1345	Her ways to the state of the state of
	1345	1610	
Maxon Sand	9	3	Gas Show @ 1708'
Big Lime	1610	1759	Oil Stain from 1710-1720'
Red Injun	1759	1782	1800-1810' - Oil & Water
Gray Injun	1782	1852	1000-1010 - OII & Marei
Slate & Shells	1852	2340	
Coffee Shale	2340	2352	
Berea	2352	2425	2460-2470' - 26 Mcf
Brown Shale	2425	2488	2400-2470 - 20 BCI
White Shale	2488	2840	
Brown Shale	2840	2960	
White Shale	2960	3090	en en maria de la companya de la co
Brown Shale	3090	3126	
White Shale	3126	3183	
Dark Shale	3183	3250	
White Shale	3250	3275	
Brown Shale	3275	3400	
White Shale	3400	3625	
Brown Shale	3625	3745	and the Am D
Corniferous Lime	3745		Gas Check @ T.D would not gauge
T.D. :	vastuunisten oraaveesistassi tähtöötee viiri roomaa vastastoon ol	Operator -	

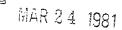
By: Jalleebley
Date:

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 chal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA



DEPARTMENT OF MINES

DEPT. OF WANTES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

. Charleston, W. Ya.	DATE March 23, 1981
	Company Columbia Gas Transmission Corp.
Series Const Goldie Maynard	Company Columbia Gas franchission Corp.
Address	Address P. O. Box 1273, Charleston, WV
Mineral Owner Columbia Gas Transmissio	
Address P. O. Box 1273, Charleston, W	V Location (vaters) Left F of Little Milam Ck.
Cod Owner Same as above	Well No.
	District Stonewall County Wayne
Coal Operator Unoperated	Quadrangle Kiahsville
IS PERMIT MUST BE POSTED AT THE WELL SITE	
provinces being in accordance with Chapter 22,	,
the W. Va. Code, the location is heraby approved	INSPECTOR
drilling This permit shall expire if	TO BE NOTIFIED Kenneth Butcher
erations have not commenced by 12-2-81	
	ADDRESS RFD #1, Barboursville, W. Va.
Deputy Director - Air & Gas Division	PHONE 736-4885
Deputy Director - 200 & Gas Division	EBUNE / JOHN COOP
GENTLEMEN:	
The undersimed well ensenter is entitled to drill	upon the above named farm or tract of land for oil and gas, having fee
19 in Wayne County, Book	403 569
	FRACTURE OR STIMULATE
X NEW WELLDRILL DEEP	FRACTURE OR STIMULATE
X NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY The enclosed plat was prepared by a registered eleve been notified as of the above date. The above named coal owners and/or operator are	PERREDRILLFRACTURE OR STIMULATE DRILLED BEFORE JUNE 5, 1969.
X NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY. The enclosed plat was prepared by a registered element been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were received and the enclosed plat were received.	PER
X NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY. The enclosed plat was prepared by a registered element been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were received and the enclosed plat were received.	PER
NEW WEIL DRILL DEEP OIL AND GAS WELL ORIGINALLY The enclosed plat was prepared by a registered elbave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were not coal owners at their above shown respective add same day with the mailing or delivery of this copy to	PER
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY The enclosed plat was prepared by a registered elbave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were received owners at their above shown respective add same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL	DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators them to the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name)
NEW WEIL DRILL DEEP OIL AND GAS WELL ORIGINALLY The enclosed plat was prepared by a registered elbave been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were not coal owners at their above shown respective add same day with the mailing or delivery of this copy to	PER
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY I The enclosed plat was prepared by a registered eleve been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were not coal owners at their above shown respective add same day with the mailing or delivery of this copy to prepare the substitution of the Copy to the Copy of the Copy to the Copy of the Copy to the Copy of the Copy of the Copy to the Copy of the	DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators e hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators trees
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY I The enciosed plat was prepared by a registered experience been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enciosed plat were not coal owners at their above shown respective add same day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL	DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators e hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name) Well Operator P. O. Box 1273 Address Street
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY IN The enciosed plat was prepared by a registered eleve been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enciosed plat were to coal owners at their above shown respective additioned day with the mailing or delivery of this copy to please Submit Copies of ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY F. O. BOX 879	PER REDRILL FRACTURE OR STIMULATE DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators them to the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name) Well Operator P. O. Box 1273
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY IN The enciosed plat was prepared by a registered experience been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enciosed plat were not coal owners at their above shown respective additioned day with the mailing or delivery of this copy to present the present of the Copy to present the copy to present the present the copy to present the cop	DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators day before, or on the to the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name) Well Operator Charleston Well Operator Gity or Town
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY IN The enciosed plat was prepared by a registered experience been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enciosed plat were not coal owners at their above shown respective additionable with the mailing or delivery of this copy to the property of the Copy to the Copy of the Copy to the Copy of the Copy	PER
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NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY IN The enciosed plat was prepared by a registered eleve been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enciosed plat were not coal owners at their above shown respective additioned day with the mailing or delivery of this copy to prepare the section of the Copy to pre	PER REDRILL FRACTURE OR STIMULATE DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators the hereby notified that any objection they wish to make, or are required to by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators the day before, or on the to the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name) Well Operator City or Town West Virginia 25325 State and by the Department of mines, within said period of ten days from the receipt and location, the department shall forthwith issue to the well operator a permit recition of the department and the department shall forthwith issue to the well operator a permit recition.
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY IN The enclosed plat was prepared by a registered eleve been notified as of the above date. The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were not coal owners at their above shown respective add same day with the mailing or delivery of this copy to prepare the mailing of the copy to prepare the companies of the copy to prepare the c	PER REDRILL FRACTURE OR STIMULATE DRILLED BEFORE JUNE 5, 1969. engineer or licensed land surveyor and all coal owners and/or operators e hereby notified that any objection they wish to make, or are required in by, or filed with the Department of Mines within ten (10) days. mailed by registered mail, or delivered to the above named coal operators them before, or on the to the Department of Mines at Charleston, West Virginia. Very truly yours (Sign Name) Well Operator P. O. Box 1273 Address Street Charleston West Virginia 25325

Exploration & Development

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

PROPOSED WORK ORDER 1	TO X DRILL	DEEPEN	FRACTIBE CHAILLAND
DRILLING CONTRACTOR: (If Known)	RESPONSIBLE AGEN	
NAME		NAME Joe Camp	
ADDRESS		ADDRESS P. O. Bo	ex 2946, Huntington, WV
TELEPHONE		TELEPHONE 529	
ESTIMATED DEPTH OF COM	PLETED WELL: 3690'		CABLE TOOLS X
PROPOSED GEOLOGICAL FO		A A COT A A TO A DE A COMMUNICATION OF THE PARTY OF THE P	CASLE TOOLS
		NIE STAR	DISPOSAL
	Data to	SIORAC	DISPOSAL
	and the second of	C - CONTRACTOR WAILK FI	LOODOTHER
TENTATIVE CASING PROGRA	AM:		
CASING AND TUBING SIZE	USED FOR	LEFT IN	CHMENTILLEP
	DRILLING	WILL.	OR SACKS - CUBIC FT
20 · 16 13 · 18x 3/8		And the second s	
9 - 5/8	301 - 601		To surface
8 - 5/8	400 1	400	To surface
		manufactural and the second se	
5 %	1800!	1800	te ourface
	3690 T	2	
		3690	369 2430 62
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Ligare		THE COLUMN THE PROPERTY OF THE COLUMN THE PROPERTY OF THE COLUMN THE PROPERTY OF THE COLUMN THE COL	Peri. Bottom
			Pert Bottom
	T. Comments of the comments of	A SECURE AND A SECURE OF SECURE AND A SECURE ASSESSMENT AS	
TO DRILL:			
OF PLAT.	S OF OG - 1, \$100.00 PERMIT	FEE. PERFORMANCE	BOND AND PERMANENT COPY
TO DRILL DEEPER OR REDRI	PP 97		
WELLS DRILLED PRIOR	OF OG - 1, SHOWING ORIGIN	AL PERMIT NUMBER A	ND PERFORMANCE BOND. ON
MUST ALSO BE SUBMITT	TO 1929, A PERMANENT CO.	PY OF THE PLAT AND	THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:			
	9. 44. 44. 44. 44. 44. 44. 44. 44. 44. 4		
BOND, PERMANENT PLA	JRIGINALLY DRILLED BEFOR: T AND ORIGINAL WELL RECO	E JUNE 5, 1929, FIVE (5) ORD.	COPIES OG - 1, PERFORMANCE
OIL AND/OR GAS WELL O	DRIGINALLY DRILLED ON ANI	DOR AFTER JUNE 5 10	29. FIVE COPIES OG - 1, SHOW-
ING ORIGINAL PERMIT N	UMBER, AND PERFORMANCE	BOND.	
Required forms must be file	ed within ninety (90) days of co.	essentian for head and	Inspector to be notified twenty-
four (24) hours in advance.	, , , , , , , , , , , , , , , , , , ,	impletion for bond release.	inspector to be notified twenty-
The following waiver must	be completed by the end once	to a 15 that manual to the to	issued within ton days of receipt
hereof.	or campioned by and cour opera	sor it the permit is to be	issued within ton days of receipt
VALUER: I the undersigned, Ag-	ent for	Carl Carrent Carl	r or Operator of the coal under
this lease have examin	ned and place on our mine map	s this proposed will be	r or Operator of the coal under
Programment of the contract of	Coal Company ha	ve no objections to said w	vell being drilled at this location,
Code	complied with all rules and regula	inons in Articles 4, 5, and	7, Chapter 22 of the West Virginia
<i>₩₩</i> ₩ €6.€°,			· · · · · · · · · · · · · · · · · · ·
		•	· San
•	• •	ACCIONATE DE L'ANNIAGE DE CONTRACTOR DE L'ANTI-LES DE L'AN	or Coat Company
		THE COMPANY OF THE PROPERTY OF	Omical Title

FORM WR-38 Affidavit of Plugging)

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



AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, 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.

Columbia Coal Gasification Coal Operator or Owner Address			1	Gas Trans Name of Wel	1 Operat	or		
Address		ס מ				on, WV		
Address		r. U	. DO:	Complete	Address			
			C.	•		19	86	
Not Operated	perated September 15 WELL AND LOCATION		TION					
Coal Operator or Owner		Stonewall			Distri	ct		
			Ston	ewarr		440 644		
Address					,	Ca		
Goldie Maynard			W	ayne		county		
基礎整整 or Property Owner								
·	WI	ELL NO		20715				
Address							73	
	<u>C</u>	<u>olumb</u>	<u>ia G</u>	<u>as Min. T</u>	rt.		Farm	
THE PROPERTY OF THE PROPERTY O	Terry	Holco	mb					
TATE INSPECTOR SUPERVISING PLUGGING	Derry	110100						
	AFFIDAVIT	•						
STATE OF WEST VIRGINIA,	•							
County of <u>Wayne</u>	•							
•	an	nd F	Ronal	<u>d Hutchin</u>	son			
Kenneth Pennington being first duly sworn according to	lara donoso	and c	av th	at thev are	experie	uced re	n the	
being first duly sworn according to work of plugging and filling oil and	gas wells	and we	ere e	mployed by	Columb	ia Gas	5 F111_	
Transmission Corp., well operator ing the above well, that said work w	as commence	ed on	the _	<u>16th</u> day	of Ju	r <u>r</u> à	,	
ing the above well, that said work with 86 , and that the well was plug	ged and fil	lled i	n the	following	manner:			
Fil Fil	ling Mater:	ial	····	Plugs	s Used	Ca	sing	
Sand or Zone Record Fil	TIME MACCI.				& Kind	CSG	CSG	
Formation				JIZE	~ ******	PULLED	LEFTLIN	
	igs			Į.			 	
						1	I	
Porca (2406-2376') Cemer	ıta	2401-			- 3 - 3			
Berea (2406-2376') Cemer	t 2 & Clay	1840-	1820	Brush Br				
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Ceme	nt & Clay	1840- 1820-	1820 1685	Brush Br	101	2 1 2 0 0	6531	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Salt Sand (1145-702') Rock	at & Clay	1840- 1820- 1200-	1820 1685 1190		101	2 1200	653'	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Salt Sand (1145-702') Rock Cemeral Rock Cemeral Rock Rock Rock Rock Rock Rock Rock Rock	& Clay & Clay & Clay at	1840- 1820- 1200- 1190-	1820 1685 1190 1140		101			
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Salt Sand (1145-702') Rock Cemeral Rock	& Clay & Clay & Clay t & Clay Clay	1840- 1820- 1200- 1190- 1130-	1820 1685 1190 1140 1120		4 1/2			
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock Cemeral Rock	& Clay & Clay t & Clay t & Clay at Clay	1840- 1820- 1200- 1190- 1130- 1120-	1820 1685 1190 1140 1120 1070	@ 184	10' 4 1/2 7'			
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock Cemeral Rock Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360-	1820 1685 1190 1140 1120 1070 340		40' 41/2 7'			
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock Cemeral Rock Rock Cemeral Rock Cemeral Rock	& Clay at	1840- 1820- 1200- 1190- 1130- 1120- 360- 340-	1820 1685 1190 1140 1120 1070 340 268	@ 184	40' 41/2 7'			
Berea (2406-2376') Cemer Injun (1826-1805') Rock Big Lime (1762-1625') Cemer Salt Sand (1145-702') Rock Cemer Rock Cemer Rock Cemer Rock Cemer	& Clay & Clay t & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268-	1820 1685 1190 1140 1120 1070 340 268 170	@ 184	40' 41/2 7'			
Berea (2406-2376') Cemer Injun (1826-1805') Rock Big Lime (1762-1625') Cemer Salt Sand (1145-702') Rock Cemer Rock Cemer Rock Cemer Rock Cemer	& Clay & Clay t & Clay	1840- 1820- 1200- 1190- 1120- 360- 340- 268- 170-	1820 1685 1190 1140 1120 1070 340 268 170 110	@ 184	40' 41/2 7'			
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 340 268 170 110 90	@ 184	40' 41/2 7'	1130		
Berea (2406-2376') Cemer Injun (1826-1805') Rock Big Lime (1762-1625') Cemer Salt Sand (1145-702') Rock Cemer Rock Cemer Rock Cemer Rock Cemer	& Clay at & Clay	1840- 1820- 1200- 1190- 1120- 360- 340- 268- 170-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	10' 4 1/2 7' gidge @	1130	503	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	40' 41/2 7'	1130	503	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	4 1/2 7' cidge @	1130 130 130 130 130	503	
Berea (2406-2376') Cemer Injun (1826-1805') Rock Big Lime (1762-1625') Cemer Salt Sand (1145-702') Rock Cemer Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	4 1/2 7' cidge @	1130 213 of Monus	503	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	4 1/2 7' cidge @ ciption of er=36" e11 #20	1130 213 of Monus	503	
Berea (2406-2376') Cemeral Injun (1826-1805') Rock Big Lime (1762-1625') Cemeral Rock Salt Sand (1145-702') Rock Cemeral Rock	& Clay at & Clay	1840- 1820- 1200- 1190- 1130- 1120- 360- 340- 268- 170- 110-	1820 1685 1190 1140 1120 1070 340 268 170 110 90	Brush	4 1/2 7' cidge @ ciption of er=36" e11 #20	1130 213 of Monus	503	