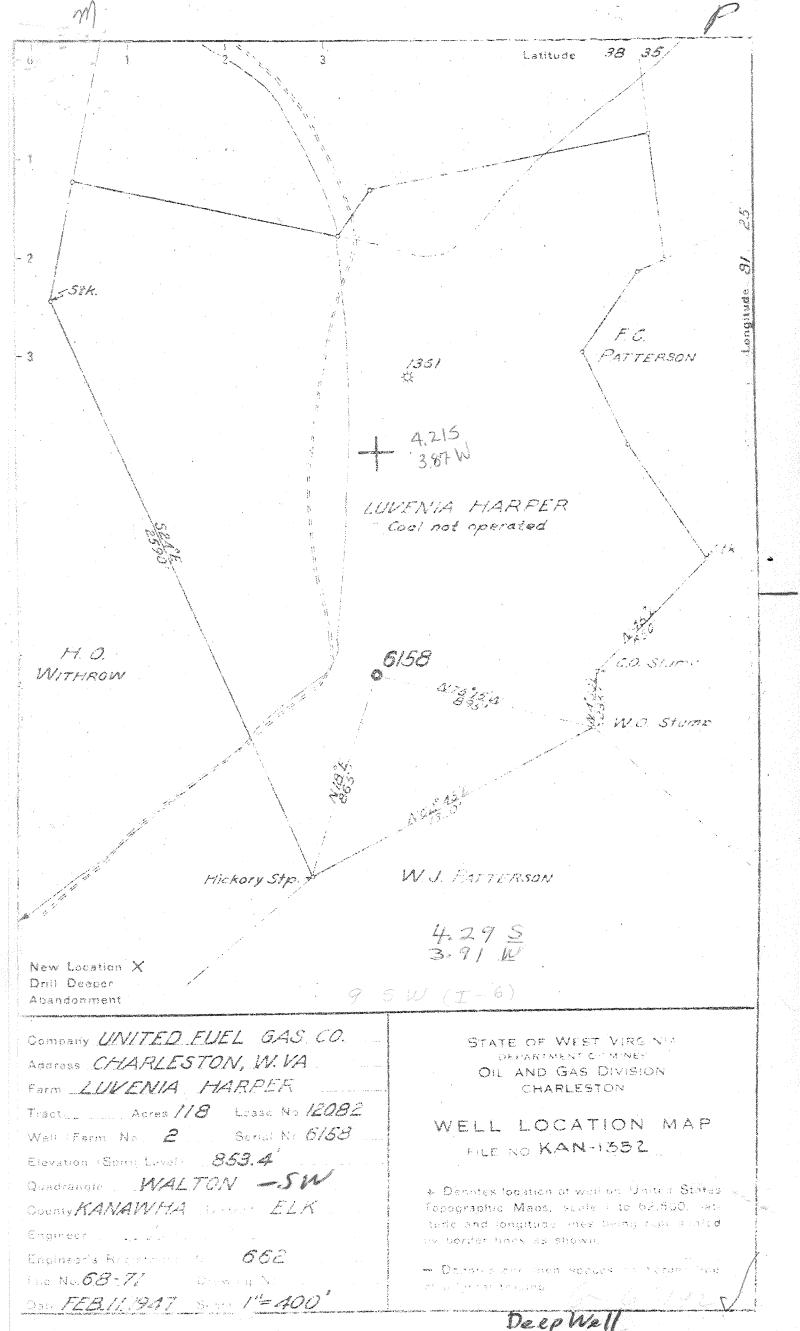


OWWO- Deep Well 6-6 Elk foca (Sisserville) (192)



WEST / VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

Permit No. Kan 1352 - Walton Quad.			Gas Well CASING & TUBING		
Company Address Farm Location Well No. District Surface	United Fuel P.O. Box 127 Luvenia Harp Little Sandy 6158 Elev.	10% 470 470 8 5/8 1640 1640 7 5083 3083			
Mineral Commenced Completed Date shot. Rock Pressure Salt Water	Geo. W. Harper et al, Frame, W.Va. 4-3-47 8-5-47 8-6-47 Depth 5187½ to 5261 with 833 1/3# E.L. 409 and 37½# Gel. 1325 lbs. 42 hays.				
	1215* H.F.				
Surface Red Rock Sand Red Rock Slate Red Rock Slate Lime Red Rock Slate Red Rock Slate Lime Sand Slate Sand Slate Lime Sand Slate Sand	0 16 16 62 62 80 80 92 92 127 127 160 160 190 190 212 212 24; 240 260 260 295 295 316 310 322 322 345 345 382 345 382 442 466 465 486 480 510 520 540 540 580 580 500 600 660 660 775 775 860 900 1670 1070 1140	5071 518 853 85 4218 433	8 525g 3 4406		
Slate Salt Sand Slate Lime Lime Slate Big Lime Injun Sand Slate & Shells Brown Shale White Slate Slate & Shells Brown Shale White Slate Slate & Shells Brown Shale White Slate	1140 1152 1152 1598 1595 1598 1626 1630 1630 1753 1753 1795 3400 3520 3520 3680 3912 4062	3 50 6 6 6 Gas 1670-1673 Big Li 5 Gas 1785-1790 Injun	me		
Brown Shale White Slate Black Slate Corniferous Lime Oriskany Sand Lime Sand Lime Total Depth	4162 4610 4610 4890 4890 5030 5030 5071 50%1 5188 5188 5232 5232 5250 5250 5259 5261	Gas 5194-5198 Orisk: Gas 5198-5202 Orisk:			

IV-35 (Rev 8-81)



State of Mest Virginia

Department of Mines
Gil und Gas Bivision

Date_		25, 1983	3
Operat	or's	50	,
Well N	₹0		
Farm	Luvenia	Harper	#2
API No). <u>47</u> –	039 -	1352

WELL OPERATOR'S REPORT

of

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 853'4" Watershed 1	Patterson	Fork Branc	h	
District: Elk County Kana	awha	Quadrangl	e Kettl	Le
•				
OMPLINY C. 1. 1. C. T.				
COMPANY Columbia Gas Transmission Corporation CORESS P.O. Box 1273 Charleston, WV 25325				
	Caşing	Used in	Left	Cement fill up
ESIGNATED AGENT E. M. Williamson	Tubing	Drilling	in Well	Cu. ft.
DDRESS P.O.Box 1273 Charleston, WV 25325	Size			
URFACE OWNER Ivan Newhouse	20-16 Cond.			Part of the Control o
OCCUPANTIAL DESCRIPTION OF THE PROPERTY OF T	10=364"	Orig.	468'4"	
NERAL RIGHTS OWNER (SEE ATTACHED SHEET)	9 5/8			
DRESS CO. C. DESCRIPTION OF THE PROPERTY OF TH	8 5/8	Orig.	1669'9"	
L AND GAS INSPECTOR FOR THIS WORK Homer H. Linden Rt. Box 3A	7	Orig.	5109'8"	(Squeeze
Dougherty ADDRESS Looneyville, WV 25259	5 1/2			099
August 12, 1982	4 1/2	·	5252.35	722
TILING COMENCED (RECONDITIONING) 9-30-82	3			
RILING COMPLETED (RECONDITIONING) 11-9-82	2 4		أسد	
PAPPLICABLE: PLUGGING OF DRY HOLE ON INTINUOUS PROGRESSION FROM DRILLING OR			1503	
WORKING. VERBAL PERMISSION OBTAINED	Liners used	C 1 0 CAC		
		C. E. GAS	WINE	
OLOGICAL TARGET FORMATION Oriskany Sand		Dept	F1	.90 feet
Depth of completed well 5250 feet R	otarv	/ Cable		X
Water strata depth: Fresh feet;	Salt	_,	10013	
Coal seam depths:	Is mal b	eina mine	d in the	2202
EN FLOW DATA		and whe		area:
A STATE OF THE PROPERTY OF THE			F10	
Producing formation Oriskany Sand	Pay	zone depti	p 219	feet
Gas: Initial open flow NA Mcf/d	Dil: Init	ial open :	flow	Bbl/d
Final open flow 1.838 Mcf/d	Fina	l open flo	JWW	Bbl/d
Time of open flow between initia	al and fin	al tests_	how	:s
Static rock pressurepsig(surface	measureme	nt) after	hours	s shut in
(If applicable due to multiple completion-				
Second producing formation	Pay	zone depti		feet
Gas: Initial open flow Mcf/d (ul: Init	ial open f	:low	Bbl/d
Final open flow Mcf/d (
Time of open flow between initial Static rock pressurepsig(surface material)	ul and fin	al tests_	hour	:s

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

Reconditioned: Pulled 5237.49 feet of 203/8" tubing. Cleaned hole to total depth with a 6-1/8" bit. Perforate 7" 226- to 2264 feet squeeze with 354 cubic feet of cement. Perforate 7" 1560 to 1561 feet (4shots) and squeeze 7" with 545 cubic feet of cement. Run $4\frac{1}{2}$ " casing to 5252.35 feet of cement with 722 cubic feet of cement. Drill out cement (Openhole completion). Ran a water frac with Nitrogen -500BB1- fluid, 146,000 SCF Nitrogen.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
		•	
			•
	Till Angeles control and the c	· Control of the cont	•• · · · · · · · · · · · · · · · · · ·
i dengte yan an			
	·		

(Attach separate sheets as necessary)

Columbia Gas Tra	ansmission Corporation	
Well Operator		
By:	At Think	e e e e e e e e e e e e e e e e e e e
Date: April 25, 19	983	

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 will, envountered in the drilling of a well."

KAN-1352

Well No	7150	• • • • • • • • • • • • • • • • • • • •
Farm	Luxenia Harper	#2
API <u>/4</u>	7 - 039- 4-1	1357
Date	8-12-82	Frac.

(Revised 3-81)

STATE OF WEST VIRGINIA

OFFIC	E OF OIL AND GAS - DEPARTMENT OF MINES
OILAND GAS	S WELL PERMIT APPLICATION
WELL TYPE: Oil / Gas X	
(If "Gas", Produc	tion/ Underground storage_X_/ Deep/ Shallow/
	COLUMNIA
District: Elk	Watershed: Patterson Fork Branch County: Kanawha Quadrangle: Kettle
WELL OPERATOR Columbia Gas Tr	
Address P.O. Box 1273 Charleston, WV	Address P.O. Box 1273 Charleston, WV 25325
Charleston, WV	25325 Charleston, WV 25325
ROYALTY OWNER (See attached and Address	Sheet) COAL OPERATOR Not Operated Address
Acreage	
	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Ivan Newhouse	NAME of Constant of chart
Address Frame Rural State Elkview, WV 2	Address NONE
Acreage 118	- NAME
FIELD SALE (IF MADE) TO:	Address
IAME	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	NAME None
IL AND GAS INSPECTOR TO BE N	OTIFIED: Address OTIFIED:
AME Fred Burdette	
Address P.O. Box 190, Ciceror	ie Koute
Sissonville, WV 2532	
Telephone 304/984-9263	
	OIL & GAS DIVISION
	DEPT. OF MINES
age inceriou minei a deed	rator is entitled to operate for oil or gas purposes at the lease X / other contract / dated 4-9 , 1914 ,
o the undersigned well operat	tor from Luvenia and H. K. Harper
If said deed, lease, or other	e contract has been recorded:)
	, in the office of the Clerk of County Commission of
equested as follows:	Virginia, in 25 Book at page 275. A permit is
PROPOSED WORK: Drill /	Drill Deeper / Redrill / Fracture or stimulate /
	v villetion / refrorate new tornation /
utner physi	cal change in well (specify) Recondition by running new
planned a	ring and install new Wellhead. S shown on the work order on the reverse side hereof.
re above named coal operator.	COR owner(s) and coal loccoe are barely
Jack of Mill TO Wake OL	die required to make by rode 200-b-0
The second of the Paper of the	teen (15) days after receipt of this Application by the Dept. ion and the enclosed plat and reclamation plan have been
a a liediscelen mani ol o	Plivered by hand to the above and I 1
the Department of Mines at	DEIDER THE COUNTY TO MAILING OF ALL
EASE SUBMIT COPIES OF ALL	Januar sestous mest astaluss
OPHYSICAL LOGS DIRECTLY TO:	Columbia Gas Transmission Corporation
	· Well Operator
ST VIRGINIA OIL AND GAS	Et Mill
13 WASHINGTON ST., E.	By: Off Hellansen
ARLESTON, WV 25311	188: Derector - Vielling & Maintenance
lephone - 304/348-3092	

(Revised 3-81)

PROPUSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

A	CTUAL I	INFORMA	TION HUS	T BE	SUBMIT	TED ON F	ORM 1V-35	UPON COMPLE	TION
DRILLING C							•		
			Address_						•
			•						
GEOLOGICAL	TARGET	' FORMA	TION	Orisk	ranv				
t s f i mate	ed dant	h at co	ame lacad		P 6 6 -	. fee	t. Rota	ry X / Cab	le tools /
Approxim	ate co	al sean	n depths:	- 18-31 o	riesn	9	feet;	ry X / Cab salt, 121	5 feet.
is coal	being	mined i	in this a	rea:	Yes		X/		
CASING AND	TUBING	PROGRA	W				_		
CASING OR TUBING TYPE		SPE	CIFICATI			FOOTAGE	INTERVALS	CEMENT FILL	7 PACKERS
TODING ITPE		Grade	Weight perft	l New		IFOR Dril	- Left in	UP OR SACKS	
Conductor	-			1.464	Juseu		<u> Well</u>	Cubic ft.	Kinds
Fresh water 888X Inter.	10 3/4	!	32.75#				468'-4"	10 Sacks	IVI 1102
	17"		28.00# Mixed		ļ		1669'-9"	18 Sacks	Sizes
GIMTOCOTO CONTRACTOR C	45"	K-55	10.50#				5261	2400° to Surfa	ice
Tubing . Liners								L000'of fillu	wepths set
ciner,	:								Perforations:
					1				Top Bottom
									Open Hole
A sepa Aure Aught	rate Fi fractus and is	orm IV- ring or s noted	·2 shall · stimula l as such	not b sting on t	e req	uired for	fracturi		ired by Code et of the pro- ating a well a permit is erewith.
THIS PERMIT M					ADTED 5				
ALL PROVISION				*			50 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
ARTICLE 4 OF									
APPROVED FOR						1.11.pp	•	•	
IF OPERATIONS	HAVE	4OI COM	IMENCED BY		/-UJ	d			
BY	7-1								
ing jai	louing Lesse Lissu	t wiver	r must be has recor hin fifte	e com	pleted a decl	hy the caration u	eal operounder Code	stor and by a \$22-4-20, i	my coal owner of the permit
e undersigne cation has e ea of the we gned has no	ed coal examine ell loc object has co	opera d this ation, ion to	tor/ proposed the well	owner d well	A I V I loca	E R lessee tion. It	of the added to	me coal under map exists whether the mine map	this well
ite:		_, 19_	Φ.					•	.%40
					By:				