

(Rev 8-81)





OIL & GAS DIVISION State of Mest Mirginia
DEPT. OF MINES Bepartment -Gil und Cas Pivision

	7/1			***************************************
Well	itor's No.	TV.	- 99	
Farm	Cli	fford	Harr	non
APT N	VO. /17	- 070		315

WELL OPERATOR'S REPORT

OF

_/ GasXX / Liquid Injection / Waste Disposal /

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 818.42 Watershed District: Buffalo County Put				eld

COMPANY Teavee Oil & Gas. Inc. 1901 Kanawha Valley Bldg.				
DDRESS Charleston, WV	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT D. K. Bowers	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Same as above	Size			
SURFACE OWNER Clifford Harmon	20-16 Cond.			
ADDRESS Buffalo, WV	13-108/4	238	238	90
MINERAL RIGHTS OWNER same as above	9 5/8			
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	7	2178	2178	150
C. Hively ADDRESS Elkview, WV	5 1/2			
PERMIT ISSUED 08/10/78	4 1/2			
DRILLING COMMENCED 08/15/78	3 1/2	4574	4574	205
DRILLING COMPLETED 08/23/78	2			50/90 POZMIX
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			FUZIIIX
REWORKING. VERBAL PERMISSION OBTAINED	used			
	<u> </u>		.	_
GEOLOGICAL TARGET FORMATION Oriskany			th 4660	feet
AND THE PROPERTY OF THE PROPER	Rotary XX		***************************************	
Water strata depth: Fresh 120 feet;	Salt_105	<u>feet</u>		
Coal seam depths: N/A	_ Is coal	being min	ed in the	area? NO
OPEN FLOW DATA	• .			\$
Producing formation Brown Shale	Pay	zone dep	th3900) feet
Gas: Initial open flow SHOW Mcf/d				
Final open flow 100 Mcf/d				THE PROPERTY OF THE PROPERTY O
Time of open flow between ini-			Control of the Contro	
Static rock pressure 480 psig(surface				
(If applicable due to multiple completion			etterekkölönesszertzekenempagione	
Second producing formation Marcellus		zone dep	th 438	7 feet
Gas: Initial open flow see above/cf/d				

Final open flow Mcf/d	OTT: LTI			
Final open flow Mcf/d Time of open flow between ini				
Final open flow Mcf/d Time of open flow between ini Static rock pressure psig(surface)	tial and fi	inal tests	h	ours

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

Perforated Intervals: 4448-4492, 4402, 4432, 4368-4374, 3990-4042, 3912-3918 18 shots
FOAM FRAC
Treated with 1,000 gallons 15% HCl, 15,000 lbs. 80/100 sand,
30,000 lbs. 20/40 sand, 530 mscf N2 228 cum. bbls. H₂O

WELL LOG

•			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Surface	0.0	20	
Sand	20	55	
Red rock &Shale	55	100 ·	
Sand	100	125	Fresh water @120
Red rock & Shale	125	375	•
Shale	375	500	
Red rock & Shale	500	695	
Slate	695	830	
Slate & Shalls	830	940	
Sand	940	1039	Eloai res 600
Slate & Shells	1039	1150	L. Horas: 2646- 4046
Sand	1150	1305	a contract of the contract of
Salt Sand	1305	1490	The dollar difference
Salt Sand Lime Shells	1490	1512	Actor 4170 - 4168
Big Lime	1512	1770	Removed 1988 4509
Shale	1770	1878	1 Sanger 4509- 4548
Injun Sand	1878	1950	Swyca Strain
Shale	1950	2315	Marrelly 4548- 4555
Coffee Shale	2315	2331	Coleman Hass
Berea 25317.	2331	2362	
Shale	2362	3650	The state of the s
*BROWN SHALE	3650	4038	GAS
White Slate	4038	4393	
*MARCELLUS SHALE	4393	4555	GAS
*CORNIFEROUS LIME	4555	4650	
*ORISKANY	4650	4661 4676	*
Lime	(Attach se	parate sheets	TD as necessary)

*INDICATES ELECTRIC LOG TOPS

TEAVEE OIL & GAS, INC.

Well Operator

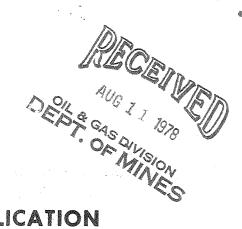
By: GEOLOGIST

Date: 7/1/85

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."





Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE August 8, 1978	
Surface Owner Clifford & Oshel Harran	and the second s	
Address Diffalo, W. Va.	7.7474 677 2444 101	
	Audi ess	12.5
Willeran Owner Same	11 sint excer	Acres
Address	Location (waters)	
Coal Owner Same	Well No.	Elevation*
Address	District	County
Coal Operator	— Quadrangle	
Address HONG AT THE WELL SITE	** desirent seasons and the seasons and the seasons are seasons as a season and the season are seasons as a season and the season are seasons as a season are season are season as a season are season are season are season are season as a season are sea	
Ill provisions being in accordance with Chapter 22, If the W. Va. Code, the location is hereby approved drilling This permit shall expire if	INSPECTOR TO BE NOTIFIED Martin Nic	chols
or	ADDRESS Clendenin, W.Va.	
Deputy Director - Oil & Gas Division	PHONE548-6993	
GENTLEMEN:		
The undersigned well operator is entitled to drill up	on the above named farm or tract of land	for oil and gas having fo
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DR The enclosed plat was prepared by a registered eng have been notified as of the above date. The above named coal owners and/or operator are have been notified as of the above date.	TILLED BEFORE JUNE 5, 1969. ineer or licensed land surveyor and all contereby notified that any objection they wis	al owners and/or operators to make, or are requires
to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were mai or coal owners at their above shown respective addres	lled by registered mail, or delivered to the a	bove named coal operators
same day with the mailing or delivery of this copy to a PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Very truly yours, (Sign Name) Well Operator	the L
	19th Pl., Kensah	
w. va. oil & gas conservation commission	Address Street	in a waterway wild control of the special street th
613 WASHINGTON STREET, EAST	of	
CHARLESTON, WEST VIRGINIA 25311	ll Operator City or Town	
	est Virginia	
	State	
, .	5.310	
*SECTION 3 If no objections are filed or found be notice and plat by the department of mines, to said proposed to the filing of such plat, that no objections have been made by the and the well operator authorized to proceed.	ocation, the department shall forthwith issue to the	well operator a permit recitir
BLANKET BOND	PUT-915	
water and the state of the stat		PERMIT NUMBER
"I have read and understand the reclamation requirements a Chapter 22, Article 4, Section 12-b and will carry out the specified		
Signed by		

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN F	DEEPENFRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:			
NAME Dwilling		NAME V. C. Strik			
ADDRESSAOA FOR 446		ADDRESS	Valley Midg. Chas. WV		
TELEPHONE	·	TELEPHONE	CABLE TOOLS		
ESTIMATED DEPTH OF COMPI		ROTARY	CABLE TOOLS		
PROPOSED GEOLOGICAL FOR	MATION: Originally				
TYPE OF WELL: OIL_	GAS	COMB STORAGE	DISPOSAL		
	RECYCL	ING WATER FLO	OODOTHER		
•					
TENTATIVE CASING PROGRAM	M:				
		education of the second statement of the second	ORGANISMO AND AND AND THE REAL PROPERTY OF THE		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16	CONTRACTOR MANAGEMENT AND ADMINISTRATION OF THE PROPERTY OF TH	TT R. A. F. E. V	OK SACKS - CONCER.		
13 - 10	200	2(%)	To surface		
9 - 5/8					
8 - 5/8					
7	2,300	2300	Anchor packer		
5 ½					
4 ½					
3	4675	4675	Perf. Top		
2			Perf. Bottom		
Liners			Perf. Top Perf. Bottom		
			Terr. Bottom		
APPROXIMATE FRESH WATER	DEPTHS FEET	SALT WATER _	FEET		
APPROXIMATE COAL DEPTHS	383218 1411.7311) ————————————————————————————————————	*		
IS COAL BEING MINED IN TH	E AREA?	BY WHOM?			
TO DRILL:					
SUBMIT FIVE (5) COPIES	OF OG - 1 \$100.00 PFRM	TH FFF DEDECOMANCE D	ONID AND DEDMANISHID CODY		
OF PLAT.	οι οα 1, φιου.ου ι Επιμ	II PEE, PERFORMANCE B	OND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRII	т.				
WELLS DRILLED PRIOR	OF OG - 1, SHOWING ORIG PO 1929 A PERMANENT C	INAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
MUST ALSO BE SUBMITTI	ED.	OIT OF THE TENT AND	THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
	DIGINIATIVI DDILI DD DDD				
BOND, PERMANENT PLAT	RIGINALLY DRILLED BEFO 'AND ORIGINAL WELL RE	ORE JUNE 5, 1929, FIVE (5) (COPIES OG - 1, PERFORMANCE		
			0 7777 60777 60 4 677077		
ING ORIGINAL PERMIT NU	MBER, AND PERFORMANCE	E BOND.	9, FIVE COPIES OG - 1, SHOW-		
four (24) hours in advance.	d within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-		
(21) Mouto ili auvalice.					
The following waiver must	he completed by the coal on	arotar if the normit is to be	issued within ten days of receipt		
thereof.	be completed by the coal op	erator if the perimit is to be	issued within ten days of receipt		
WAIVER: I the undersigned, Age	ent for	Coal Company Owner	or Operator of the cool and		
	ed and place on our mine m				
			ell being drilled at this location,		
code.	complied with all rules and reg	guiadons in Articles 4, 5, and '	7, Chapter 22 of the West Virginia		
· ·			8 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -		
	e e e e e e e e e e e e e e e e e e e		er Alge		
- 3		Fe	or Coal Company		

Official Title