





OIL & GAS CIVISION

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

	WELL	RECORD 2	7	Rotary	∠Oil
Quadrangle UNION DIST			L	Cable	Gas Sho
				Recycling_	
Permit No. Tyler 451				Water Floor	dStorage
				Disposal	(Kind)
Company Buderman Oil &	Cas Dela				Tena,
Address 31/ 5. 4 Th Sive. 11	don P.T.	Casing and	Used in	Left	Cement fill up
Farm R.E. WETZEC	Acres 3	Tubing	Drilling	in Weil	Cu. ft. (Sks.)
Location (waters) Middle ISC	and	<i>C</i> -			8 9/8 Cent
Weil No.	Elev. 660	Size 20-16			078 Cent
District County 1	yler	Cond.		!	Bottom
The surface of tract is owned in fee by		13-10"	15	15	
		9 5/8			./ .
Address Same		8 5/8.	189	189	H/2 Ceme Bottom
Mineral rights are owned by INET2 Some Address	<u> </u>	7	477	477	An Hom
Drilling Commenced OC70ber	1677	5 1/2			
Drilling Completed Jun 4, 19	74	4 1/2	1682	1682	. To 105
Initial open flow 19,000 cu. ft.		3	1150	11	
Final production 10.000 cu. ft. per day.	bbls.	Liners Used	1659	1659	
Well open 14 hrs. before test	ODIS.	Enters Oscu			
Well treatment details:	NI.	Attach come of			
tert 1582 10 15	an/	Attach copy of c			4
Water 40,000 + 5		Fracked	WITH	100	o BBIS
Miell did niot Shoc	DANY	INERCASE	4		
Coal was encountered at	F				
	Feet		Inches		
Producing Sand Big Injun		Salt W	ater	. //	Feet
		Deptil	, , , , ,		V /
Formation Color Hard or Soft	Top Feet	Bottom Feet	0:1 0		
	13p 100t	Dottom Teet	Oil, Gas or	water *	Remarks
C/94	•	15			
inne shell	15	20			
Shale	20	25			
Red Rock	25	40			
SAN J. (Hurry up)	40	90			
Phale	90	105			
and	105	135			
Thale	135	140			
hole & Rime Shells	140	400			
thale & Rime Shells Red Roeld (Big)Red)	4/00	1			
hale	1	470			
Slate	470	565			
shale	565	620			
	620	680			
inn d	680	697			
hnle	697	720			
and & Shells	720	750			
TOND	750	770			
-7.4 0	770	780			

⁽over)

Formation Color Hard or Soft	Top Feet 2.2	Bottom Feet	Oil, Gas or Water * Remarks
Shale	780	810	
Smody Shale	810	860	
Shale	860	870	
SANI	870	890	
Shale	890		
SANI d	904	, I	
Shale Broken Shells	980	1075	* Bond log shows
Sond	1075		To peennent outsid
Shale		1130	To peenment outsid
SANd	1/30		- /2
Shale	1150		
SANd	1172		
Shale	1185	1215	
SANd	1225	1220	
Shale	1220	1270	
SANd	1270	1300	
Shale	1300	1360	
SANd	1390	1	
Shale	14/24	1428	
SAN d	1428	1450	
Linne	1450	- 6	
Sani d	1528	1560	
Shale	1360	1580	
SAND B.I.	1380	1682	TO
			,

APPROVED Lessing Margan. Owner

By Agent. (Title)





DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE Sept 19	1972
Surface Owner R. EINWAZEL	Compan CALDERMAN O	18046
Address 146 5th DVC, Packen City, INIVA.	Address 308 4 5 3 d Dve,	Packar City WII
Mineral Owner K. EWetzel	Farm R. E. Westre	A-mar 18
Address Same	Location (waters) Middle I	Acres / B
Coal Owner No Con L	<i>i</i>	2 4 -
Address	Well No. 1: District Onlow	Elevation 666
		County Tyler
Coal Operator	Quadrangle	
Address		
THIS PERMIT MUST BE FOSTED AT THE WELL SITE		
All provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approve for drilling This permit shall expire is operations have not core as a by 1-21-73	d	
Deputy Director - Oi! & Gas Division		Arthur
Deputy Director of, w das protos	INSPECTOR TO BE NOTIFIE	
	Hundred, W.Va.	y. 775-5611
GENTLEMEN:		
The undersigned well operator is entitled to drill upon the	above named farm or tract of land fo	or oil and gas, having fee
made to County, Book 1971, in Tyler County, Book 1974 NEW WELL DRILL DEEPER		URE OR STIMULATE
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish ted with the Department of Mines with	to make, or are required nin ten (10) days. *
Copies of this notice and the enclosed plat were mailed by r or coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Department.	day	before, or on the
v	Yery truly yours,	-/ ·
(5)	Sign Navne Bull Well Operator	uliman)
Address of Well Operat	308 / S. 3rd	Ave

*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.

TYLER-451

__PERMIT NUMBER

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

NAME CACE MAN OF CORS ADDRESS JUNE J. J. A. A. P. D. C. C. L.	RESPONSIBLE AGENT: NAME KAY CAC ADDRESS BOX V5. 3 TELEPHONE BOY ROTARY STORAGE	side i na am 31 d'Ave, Paden Cty, O 331-9355
ADDRESS JOHN 53 ANE, Pasty Chy, War TELEPHONE 304 331-9355 ESTIMATED DEPTH OF COMPLETED WELL: 3300 PROPOSED GEOLOGICAL FORMATION 5600 hby TYPE OF WELL: OIL GAS COME RECYCLING TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 9 0 5 ½ / 7 0 0 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS No Con(ADDRESS 308 95. 3 TELEPHONE 304- ROTARY S STORAGE	BICHAVE, PINDEN CHY, U 331-9355 CABLE TOOLS 1 COMMENT OF THE PROPERTY OF TH
TELEPHONE 304 331-9355 ESTIMATED DEPTH OF COMPLETED WELL: 3300 PROPOSED GEOLOGICAL FORMATION Specifical TYPE OF WELL: OIL GAS COME RECYCLING TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 - 9 0 5 ½ 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS No Cont	TELEPHONE <u>304</u> - ROTARY S STORAGE	237-9355 CABLE TOOLS 1 DISPOSAL
ESTIMATED DEPTH OF COMPLETED WELL: 3300 PROPOSED GEOLOGICAL FORMATION Specifical TYPE OF WELL: OIL GAS COME RECYCLING TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 0 0 5 ½ /7 0 0 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS No Con(ROTARYSTORAGE	CABLE TOOLS
PROPOSED GEOLOGICAL FORMATION SPORT PROPERTY TYPE OF WELL: OIL GAS COME RECYCLING TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 9 0 5 ½ /7 0 0 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS	s STORAGE	DISPOSAL
PROPOSED GEOLOGICAL FORMATION SPORT PROPERTY TYPE OF WELL: OIL GAS COME RECYCLING TENTATIVE CASING PROGRAM: CASING AND TUBING USED FOR DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 9 0 5 ½ /7 0 0 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS		
TYPE OF WELL: OIL		
TENTATIVE CASING PROGRAM: CASING AND TUBING SIZE DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7	WATER FLO	OODOTHER
CASING AND TUBING SIZE 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7		
CASING AND TUBING SIZE 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7		
SIZE DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 - 0 5 ½ 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET No Con(
SIZE DRILLING 20 - 16 13 - 10 9 - 5/8 8 - 5/8 7 9 - 0 5 ½ 4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET No Con(LEFT IN	CEMENT FILL UP
13 - 10 9 - 5/8 8 - 5/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 8 - 5/8 7 9 - 6/8 9 - 6/	WELL	OR SACKS - CUBIC FT.
9 - 5/8 8 - 5/8 7 9 - 0 7 9 - 0 15 1/2 17 0 0 4 1/2 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET No Con(
8 - 5/8		
7 900 5½ /700 4½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET		
APPROXIMATE FRESH WATER DEPTHS 60 FEET No Con(150	90
4 ½ 3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS No Con(
3 2 Liners APPROXIMATE FRESH WATER DEPTHS 60 FEET APPROXIMATE COAL DEPTHS No Con(T-016-01-01-01-01-01-01-01-01-01-01-01-01-01-	
APPROXIMATE FRESH WATER DEPTHS 60 FEET		Perf. Top
APPROXIMATE FRESH WATER DEPTHS 60 FEET		Perf. Bottom
APPROXIMATE COAL DEPTHS No Con		Perf. Top
APPROXIMATE COAL DEPTHS No Con		Perf. Bottom
APPROXIMATE COAL DEPTHS No Con		
TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT F OF PLAT. TO DRILL DEEPER OR REDRILL:	BY WHOM?	OND AND PERMANENT COPY
SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY MUST ALSO BE SUBMITTED.	PERMIT NUMBER AN OF THE PLAT AND T	ID PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:		
OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE .	UNE 5, 1929, FIVE (5)	COPIES OG - 1, PERFORMANCE
BOND, PERMANENT PLAT AND ORIGINAL WELL RECOR	D.	•
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BO		9, FIVE COPIES OG - 1, SHOW-
Required forms must be filed within ninety (90) days of comp four (24) hours in advance.	oletion for bond release.	Inspector to be notified twenty-
The following waiver must be completed by the coal operato thereof.	r if the permit is to be	issued within ten days of receipt
WAIVER: I the undersigned, Agent for	_ Coal Company, Owner	or Operator of the coal under
this lease have examined and place on our mine maps	this proposed well locat	ion.
We the Coal Company have providing operator has complied with all rules and regulation Code.		
	T.	or Coal Company

Official Title