



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

AUG - 1 1977

OIL & GAS DIVISION OF MINES

Oil and Gas Division

WELL RECORD

Quadra	ngle	Phi	<u>l</u> i	рр	4
Permit	No	BAR	8	06	

Rotary_X	Oil
Cable	Gas_(X)
Recycling	Comb
Water Flood	Storage
Disposal	(Kind)

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Company Patrick Petroleum Co	rd.	43			0 (60)
Address 3319 Tates Creek Pk.		Casing and	Used in	Lest	Cement fill up
Farm Marland Ketchem Ac	her 0.0	Tubing	Drilling	in Well	Cu. ft. (Sks.)
		THE RESIDENCE OF THE THORSE IS ANALYSIS OF THE TOTAL ANALYSIS OF THE THEORY OF THE THE THEORY OF THE THE THEORY OF THE THE THEORY OF THE THE THE THEORY OF THE THEORY OF THE			
Location (waters)	1750 60	Size		The state of the s	
Well No. 1 El	ev1/12.04	20-16		and the second	
District Philippi County Bar	<u>bour</u>	Cond.			
The surface of tract is owned in fee by		xxxx11 3/4	321	32'	10 sks
Marland Ketchem		9 5/8		To delicate the second	
Address Philippi, W. Va.		8 5/8	598.65'	598.651	190 sks
Mineral rights are owned by Same		7			
-		5 1/2			
Address			0001 018	L	
Drilling Commenced 4-12-77	The state of the s	4 1/2	3794.74	3794.74	300 sks
Drilling Completed 4-18-77		3			
Initial open flow267 Mcu. ft	bbls.	2			
Final production 746 Mcu. ft per day_		Liners Used			
Well open 4 hrs. before test					
•	TO RY.				
Well treatment details:		Attach copy of c	ementing reco	ord.	
Fraced w/50,000 # sd., 9	056 Bbls.	water.			
Av. treating press.: 245	0 # psi.,	av. rate 3	46 bom.	radi.	
The state of the s	a) to the contract of the later of the contract of the contrac			V	
	V			allen er flemme er kont fålde med men greg genne sjør sprigs till en oppren en gengen progress	

					HAVE HER TO SEE THE SECOND SEC
Coal was encountered at 45'	Feet		Inche	s	
	et	Salt V	Vater		Feet
		Depth			
1 1 O G G G G G G G G G G G G G G G G G	ette kärnnen konsentetti kähilip di et kinnöm kombonetta kari kinnöm kapannannan sakon saman majagasa.	L/C [/ L l	· 		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil. Gas o	Water	* Remarks
AND THE PROPERTY AND ADDRESS A		30000,	011, 011 0.		2 4 4 2 5 1 6 1 5 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1
Clay	0				
White sand	0 7	7 45		•	
	1	1	3 /011 -		0 /01
Coal	45	48	I/Z S	rream w	ater @ 48'.
White sand	48	80			
Coal	80	84			
Shale	84	115			
and	115	255			water @ 150'
and & shale	255	550	More w	ater @	190'.
le	550	700			
	700	760	Oil od	or @ 10	15'.
	760	985	Gas 10	44' 10/	10 1" FMW.
ime	985	1070	Gas 11	38' 8/1	0 2" OFW.
Bi La jun	1070	1195	Gas 19	14' 20/	10 1" FMW. 0 2" OFW. 10 1" FMW.
Sand & shale	1195	1550			
Shale & red rock	1550	2400	Gas 25	40' 4/1	0 2" FMW.
Sand	2400	2470	Gas 32	57 2/10	2" FMW
Sand shale	2470	3360	Gas @	3412 21	2" FMW. 10 2" OFW.
Brown sand	3360	3380	Gae	3597 2/	10 2" OFW
Sand & shale	3380	3665	Cae A	3721 /.0	10 2" OFW. /10 2" OFW.
Brown sand Benson	3665	3705	Good	3816 20	/10 2" OFW.
Sand & shale	3705		T.D.	JULU 20	/ LU Z UEW.
rand a blate	3/03	3816	I.U.		-92 .

⁽over)

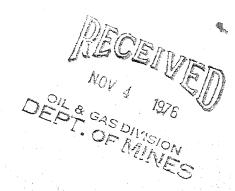




DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION



1

TO THE DEPARTMENT OF MINES.	
Charleston, W. Va.	DATE October 27, 1976
Surface Owner Marland Ketchem	Company Patrick Petroleum Corporation
Address Philippi, W. Va.	Address Lexington, Kentucky
Mineral Owner Same	Farm Marland Ketchem Acres 45
Address	Location (waters) Big Laurel Run
Coal Owner Domonic Marrara, et al	Well No. 1 (B-5) Elevation 1752.62
Address 200 Kinston Rd., Kingwood, W.	
Coal Operator Not operated	Quadrangle Audra (7%'): Philippi (15')
Address	<u>보고</u> 함 보고 보는 보고 있는 네고 이렇게 되는 것 같다.
S PERMIT MUST BE POSTED AT THE WELL SITE proving being in accordance with Chapter 22.	
he W. Va. Code, the location is hereby approved Drilling . This permit shall expire if	INSPECTOR TO BE NOTIFIED Bill Hatfield
rations have not commenced by 3-5-77	ADDRESS P.O. Box 385, Buckhannon, W.Va. 26201
I fell	670 4000
Deputy Director - Oil & Gos Division	PHONE 472-4268
GENTLEMEN:	
그 그 그 그 그 그 사람은 사람이 되는 화면을 사라고 말하고 되었다.	n the above named farm or tract of land for oil and gas, having fee
1976, in Barbour County, Book 75 X NEW WELL DRILL DEEPER	Page
OIL AND GAS WELL ORIGINALLY DRIL	LED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engine have been notified as of the above date.	eer or licensed land surveyor and all coal owners and/or operators
	reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed	d by registered mail, or delivered to the above named coal operators
or coal owners at their above shown respective address. same day with the mailing or delivery of this copy to the	day Mar 1474 before, or on the
PLEASE SUBMIT COPIES OF ALL	Very truly yours PATRICK PETROLEUM CORPORATI
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) . Lunt ferking
	FICH CAMBELLY
WEST VIRGINIA GEOLOGICAL AND	3319 Tates Creek Road ddress Street
P. O. ROY 879	of
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	Operator <u>Lexington</u> City or Town
	Kentucky 40502
	State
*CECTION 2 If an abinding and City and	the Demantment of miner within said period of ten days from the receipt of
notice and plat by the department of mines, to said proposed loca	the Department of mines, within said period of ten days from the receipt of ation, the department shall forthwith issue to the well operator a permit reciting oal operators or found thereto by the department and that the same is approved

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by

BAR-806

47-001

PERMIT NUMBER

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

PROPOSI	ED WORK ORDER TO	X DRILL	DEEPEN	FRACTURE-STIMULATE	
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT:			
NAME Falcon Drilling Corp.			NAME John Clowser		
	Charleston, W			ilippi, W. Va. 26416	
TELEPHO	NE 304-343-05	42	TELEPHONE 30	4-457-3368	
•		ETED WELL: <u>3720</u>	ROTARY X	CABLE TOOLS	
PROPOSE	D GEOLOGICAL FORM				
TYPE OF	WELL: OIL_	GAS X C	OMB. STO	RAGE DISPOSAL	
		RECYCLI	NG WATER	FLOOD OTHER	
obstruits a that	VIP CASING PROCESS				
EDNIALL	VE CASING PROGRAM				
CASI	NG AND TUBING	USED FOR DRILLING	LLIFIN	CEMENT FILL UP OR SACKS - CUBIC FT.	
20 - 16		THE RESERVE OF THE PROPERTY OF			
	11 - 3/4"	40'	40'	Cement to surface	
9 - 5/8					
8 - 5/8		700	700'	Cement to surface	
7		The state of the s			
5 ½ 4 ½		3720'	3720	1000' <u>+</u> Fill-up	
3		J140	3120	Perf. Top	
2				Perf. Bottom	
Liners				Perf. Top.	
				Pert. Bottom	
			The second secon		
APPROXII	MATE FRESH WATER	DEPTHS FEET	SALT WA	TER FEET	
IS CUAL	BEING MINED IN THE	AREA? No	BY WHOM	1?	
TO DRILL	L _i				
	MIT FIVE (5) COPIES (PLAT.	OF OG - 1, \$100.00 PERMI	T FEE, PERFORMAN	CE BOND AND PERMANENT COPY	
TO DRILL	DEEPER OR REDRILI	L:			
WEL	MIT FIVE (5) COPIES C LS DRILLED PRIOR T T ALSO BE SUBMITTE	O 1929, A PERMANENT CO	NAL PERMIT NUMBE	R AND PERFORMANCE BOND. ON AND THE ORIGINAL WELL RECORD	
	TURE - STIMULATE:	TOTAL TAX BOOK OF THE STREET	·		
BON	D, PERMANENT PLAT	AND ORIGINAL WELL REC	RE JUNE 5, 1929, FIVE ORD.	E (5) COPIES OG - 1, PERFORMANCE	
OIL	AND/OR GAS WELL OR ORIGINAL PERMIT NUM	IGINALLY DRILLED ON AMBER, AND PERFORMANCE	ID/OR AFTER JUNE S BOND.	. 1929. FIVE COPIES OG - 1, SHOW-	
Requ four	ired forms must be filed (24) hours in advance.	within ninety (90) days of c	ompletion for bond rel	case. Inspector to be notified twenty-	
The thereof.	following waiver must b	e completed by the coal ope	rator if the permit is t	o be issued within ten days of receipt	
WAIVER:		t ford and place on our mine ma		Owner or Operator of the coal under-	
	We the			aid well being drilled at this location,	
				and 7, Chapter 22 of the West Virginia	
	South Control of the				
			A SAN MANAGEMENT AND A SAN A S	For Coal Company	

Official Trus