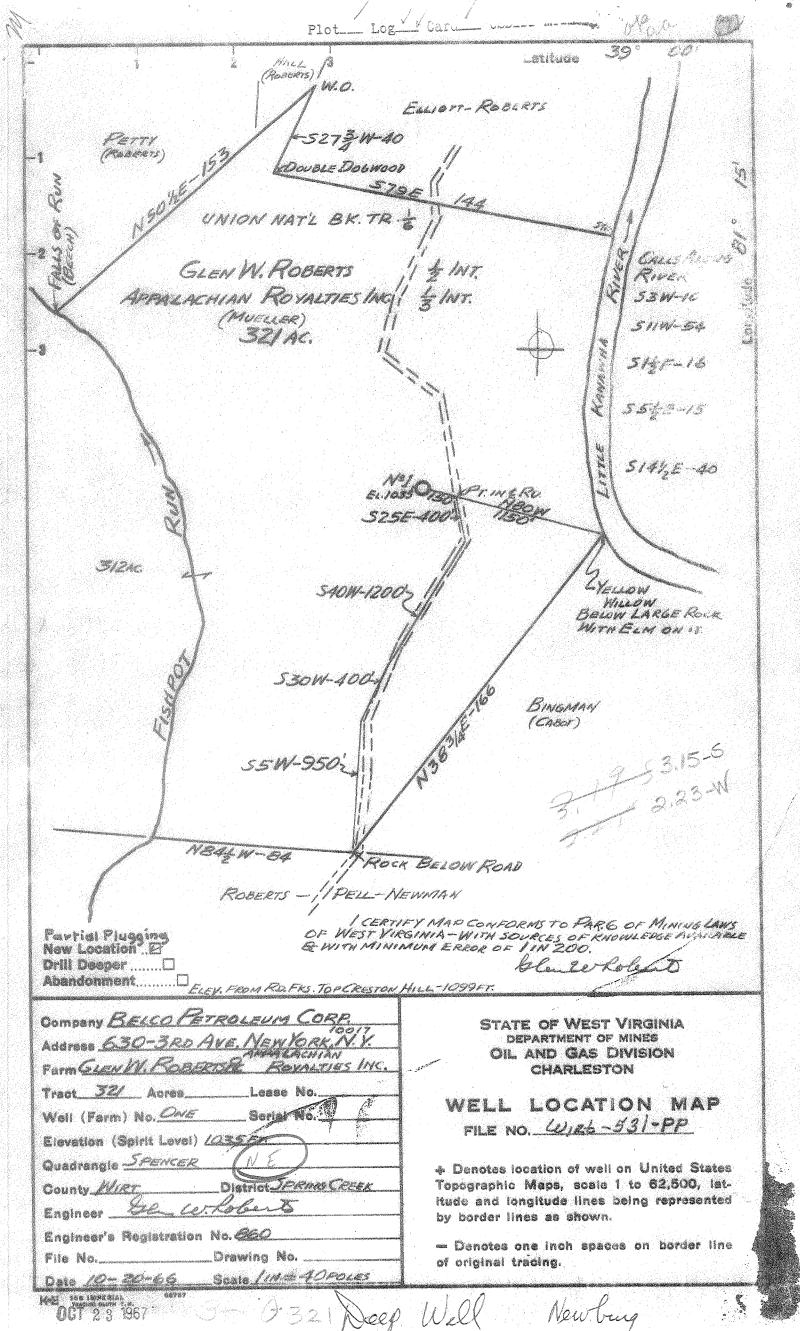
Deep Well

KE TOO IMPERIAL

APR 18 1913





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION 14

Spudder	
Cable Tools	-

 \boxtimes

Rotary

Storage

Storage Operations
Oil or Gas Well Suspended

Quadrangle Burning Springs

Wirt 531

WELL RECORD

Permit No. Will Signature	mediatrin 1800 (1917) in her kant distribution (1917) distribution (1917) distribution (1917) distribution (19			
Company Belco Petroleum Corporation	Casing and	Used in Drilling	Left in Well	Packers
Address 630 Third Ave. NYC, N.Y.	Tubing	ļ	AA GEI	7 200.00
Roberts Acres	Size			and the second second
ocation (waters) Umpstead Ridge, Fish Pot Run				Kind of Packer Mode.
Well No. #1 Elev. 1035 GD	13 3/8	33		
District Spring Ck. County Wirt	No 9 5/8	2013	2013	Size of 7"
Mueller	81/4			
ELizabelli, W.va.	Ax 711	7086	7086	Depth set 6950
Mineral rights are owned by Roberts, AppalachRoyaltie	S 5 3/16			5879
Address Elizabeth, W. Va.	11/2			
Drilling commenced 11/15/66			1	Perf. ton 7074-76
Drilling commenced 12/13/66 Drilling completed 12/13/66		7078-		
Date Shot	I iners [[sed			Perf. top 5942-54
Date Shot. From 10	2011010	<u> </u>		Perf. bottom 5959-6
	Attach copy of	cementing reco	rd. See	Back Page
Open Flow /10ths Water inInch 				No. Ft. Dat
Volume Cu. Ft.				
Rock Pressure lbs. hrs.				
				FEET INCHE
Oil bbls., 1st 24 hrs. WELL ACIDIZED (DETAILS) See Back				FEET INCHE
WELL ACIDIZED (DETAILS)				
WELL FRACTURED (DETAILS)				
WELL FRACTURED (DETAILS)				
RESULT AFTER TREATMENT (Initial open Flow or bbls.)	3 V 11	PERATIONS	SUSPENT	೯೦ ೧ ೧
ROCK PRESSURE AFTER TREATMENT	**************************************			
Fresh WaterFeet	Cald Window		Past	
Fresh Water Feet	2811 AA STOL	Thomas		the State of the Control of the Cont
Producing Sand	Separate process of the second services of the second seco	Deptn		
Hard or		Oil, Gas		

Producing Sand					Depth		
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Romarks
ss,sts, sh	Red	Soft	Surf	1150	n.V. marganism states ye	rgenosia de la companya de la compa	
Sands	Buff	Medium	1150	1160			
Ss, sts,sh	Red	Soft	1163	1560			
-8ands	White	Hard	1560	1800	Tr.Gas-oil	shows	Salt sds
Shales	Grey	Soft	1800	1825			
Limy Sands		Medium	1825	1860			
Lime Salva		Hard	1860.	1875			
-Sand	Buff	Hard	1875	2010	Gas Shows	N	Injun
sts, sh	grey/gr		2010	5580	-		Berea 2385
√Shale	Brown	Soft	5580	5690			Marcellus
Lime &shal	1 6	Medium	5690	5740	,		
Lime, chert		Hard	5740	5930	1 31	45628	Cornif.
Sand	buff/white		5930	6020	Gago	£928€ -	CRISKANY
*sts,lime	grey	Hard	6020	60507			
Lime, sts	62 97			746	LNS REC	M962 3	
atty	. Brown	Hard	6050	6220	12 20	\$/Vr. 2	
_dolo,atty	. 52.0				Dept. of	4,50 3	
sts	Brown	Hard	6220	6250)	1 /3 W. or	18.2 S	
Dolo q	Brown	Hard	6250	6630()	1000	162 139	
Salt, Dolo	White	Soft	6630	6660	1500	DIAL STATE	
Dolo,sts			The second secon		Marie Service	A. A. A. A. B. C.	
atty	Brown	Hard	6660	7075			
Ss, dolo	tan,buf		7075	7080	Gas, salt	water 7075	Newburg
dolo, Mdst		y Medium	7080	7140	tion the first transfer to the second	a greater and address on a contract	American material (Million of the american property) and a superior and a superior property and a superior and
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Formation	Color	Mard or Soft		Bottom	OII. USS or Water	Depth Found	Kenarks
Sharrens Secure (A. A. A							· ·
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	95/8 w 127 7	eu. ft. Two	Stages		TO CONTRACT AND A CON	No. of the state o	gga karangangan
	First St	tage: 5999-1	127 w 175	¢u.ft.	**************************************	and the second s	Garage Control of the
an 2 7/8	Second S to 7078	stage: 5999	w 95 cu.ft	a compared to the compared of		Autorition and a second a second and a second and a second and a second and a second a second and a second a second and a second and a second and a	
erf. 707	4-7076 w		ugh 36 Bbl	\$ 28% Acid	& 20% isopi	cophy alchol	hol
	sed 2 7/8	to 6953 - broke dow	km	lini AR 5 I	3PM (a) 4 600	O Proposition of the Contraction	
	_	- inj N2					
Rec	Acid & w	ll flowing 8' & Perf	1 140 MCF t	hrough 670(Or of SW	60	
el abir r	ing e u,u.	o wrerr.	1920-10, 19	T2-37, 333.	DF 07 W/ L/ I C	websoon diff	
		Bbls 28%	cid		Na Company (Company Company Co		
		ker @ 5879 wn Orisk @		nj 16 BPM (3,100 psi		
	i	hj N2 @200	\$CF/Bbl & s				
		tal 500g-a 600 Bb	eid Is-Treated	water	And the second s		
		25,000 1		- Control of Control o	and the second s		ESTRUCTURE CONTRACTOR
	Flow ba	128 MS ck Frac wat	dn S. N2				additional little in the second secon
	7 Hrs-3	Bhls H20	Dist & 1.0	75 MCFPD G	as /	and the second s	7s. abi obdopates
	28 Hrs SI - M0	- TO RDIS H	40, Dist &	1,200 MCF (Gas.		
	or many property of the contract of the contra		CONTRACTOR AND	-	and outliness of the	MC 1600 FRANCISCO CONTRACTOR CONT	Black Common Com
(1)		Well through	h test sepa	rators and	unloaded ga	as, condensa	rte.
(2)				Dulled to	him Po-	non and ent	Wodel
ja Albara (C.)	"K" cem	ent retaine	n @ 5974'.	Spotted co	ement on to	ran and set p of retaine	ar a
 	Smigeze	nerfs 592	8 - 5964 W/	ית אף מחוד	rilled out o	ement to 593	20 *
		£. 5927 1-35					
(4)	Acidize	d w/lnnn ga	1 15% Hel	Swahhed a	ad flowed o	as (TSTM) ar	
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	Date	March	<u> </u>	96/		19
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APPROVED_		A /^-	79		V	., Owner
18	y / John Land	RIX	Grand	Gas	Engi	neer
eren e a sa e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·	tite aktivita a la la la	(Title)	and the sale of the sale of	e e e e e e e e e e e e e e e e e e e	









Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE April 6, 1973
Surface OwnerGlen W. Roberts	Company Alvin G. Rowes
Address Elizabeth, West Virginia	Address 424 Madison Avenue, New York, N
Mineral Owner Clen W. Roberts	Farm Sueller & Roberts Acres 321
ddress Elizabeth, West Virginia	Location (waters) Little Kanawha
oal Owner	Property and
ddress	District Spring Creek County Wirt
Coal Operator	Quadrangle Spencer Northeast
.ddress	
HIS PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter	22,
of the W. Va. Code, the location is hereby appro	oveđ
for fracturing . This permit shall expire in perations have not commenced by 8-6-73	
Track 1 Dass	[*]
Deputy Director - Oil & Gas Division	NSPECTOR TO BE NOTIFED Fred Burdette Box 190-Cicerone Rt. Sissonville, WV. PH: 984-9263
ENTLEMEN:	
•	above named farm or tract of land for oil and gas, having fee
tle thereto for as the case may be linder grant or lease di	ated 19 hv
	ated 19 by
made to	and recorded on the day of
9 in County, Book	and recorded on the day of
made to	and recorded on the day of Page REDRILLX FRACTURE OR STIMULATE
9 in County, Book NEW WELL DRILL DEEPER	and recorded on the day of Page REDRILL X FRACTURE OR STIMULATE
made to 9, in County, Book NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or	and recorded on theday of Page REDRILL _X FRACTURE OR STIMULATE
made to	and recorded on the day of Page REDRILLX FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required
made to 9	and recorded on the day of
made to 9	and recorded on the day of Page FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. relicensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia.
made to 9, in	and recorded on the day of Page FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. relicensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours. (Sign Name)
made to County, Book	and recorded on the day of
made to County, Book NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or ave been notified as of the above date. The above named coal owners and/or operator are hereby no make by Section 3 of the Code, must be received by, or fill Copies of this notice and the enclosed plat were mailed by a coal owners at their above shown respective address me day with the mailing or delivery of this copy to the Dep	and recorded on the day of
made to County, Book	and recorded on the day of Page FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virgina. Very truly yours, Well Operator Route No. 5, Box 171A
made to County, Book	and recorded on the day of
made to 9	and recorded on the day of

*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.



WIR-531-PP-FRAC. PERMIT NUMBER

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

PROPOSED WORK ORDER TO	DRILL	DEEPENFR	ACTURE-STIMULATE		
DRILLING CONTRACTOR: (If I	Known)	RESPONSIBLE AGENT:			
NAME Clyde Crane Dr.	illing Company	NAME <u>Milton Shuck</u> ADDRESS <u>Parkersburg</u> , West Virginia			
ADDRESS					
TELEPHONE		TELEPHONE 428-85			
ESTIMATED DEPTH OF COMPLI		b #	CABLE TOOLSX		
PROPOSED GEOLOGICAL FORM	IATION: Newburg o	vell			
TYPE OF WELL: OIL_	GAS C	OMBX STORAGE	DISPOSAL		
	RECYCLII	NG WATER FLOO	ODOTHER		
TENTATIVE CASING PROGRAM	:				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.		
20 - 16					
13 - 10					
9 - 5/8					
8 - 5/8					
7					
5 ½		·			
			Perf. Top		
			Perf. Bottom Perf. Top		
Liners			Perf. Bottom		
		The state of the s			
OF PLAT. TO DRILL DEEPER OR REDRIL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NUMBER OIL ORIGINAL PERMIT NUMBER	L: OF OG - 1, SHOWING ORIGINALLY DRILLED BEFO AND ORIGINAL WELL REGRIGINALLY DRILLED ON A MBER, AND PERFORMANCE	INAL PERMIT NUMBER AND TO THE PLAT AND TO THE PLAT AND TO THE JUNE 5, 1929, FIVE (5) COORD. ND/OR AFTER JUNE 5, 1929, BOND.	DND AND PERMANENT COPY D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE D, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-		
thereof. WAIVER: I the undersigned, Age this lease have examine We the	nt fored and place on our mine m	Coal Company, Owner aps this proposed well location have no objections to said we	-		
		Fr	or Coal Company		

Official Title