





Gompany THE OWENS, LIBBEY-OWENS GAS DEPTA Address BOX 2111 CHARLESTON 28, W. YA.

Farm PATTIE M PORTER et al.

Tract Acres 730 Lease No. 1614

Well (Farm) No. 3 Serial No. 683

Elevation (Spirit Level) 836.7

Quadrangle MIDKIFF - WC

Gounty LINCOLN District LAUREL HILL

Engineer T. S. Flournoy

Engineer's Registration No. 269

File No. Drawing No.

Date 6-30-44 Scale 1 1 1000 FT

## WELL LOCATION MAP

- → Denotes location of well on United States Topographic Maps, scale 1 to 62.500, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line

TRACKS CLOTH
SCI, WY.

CAMPICAL (MI 8-K) (1943-170- 2115-DeepWell

66 233

## WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

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Gas Well
 Permit No. Lin 541
                                                                                           CASING & TURING
 Midkiff Quad.
                                   Owens, Libbey-Owens Gas Dept.
 Company
                                   P.O. Box 2111, Charleston 28, W.Va. 104
 Address
                                                                                                637 637
                                   Pattie M. Porter Acres 730
                                                                                        8월
 Farm
                                                                                        6 5/8 1399 1399
3½ 3366 3366
 Location
                                   Coal Branch
                                  683 Elev. 836.7
 Well No.
                                Laurel Hill Fincoln , W.Va. Ellen Noe, Ranger, W.Va.
 District
                                                                                        O W Comb W & A Packer
 Surface
                                  Pattie M. Porter, 1508-5th Ave.
                                                                                        Size 3 x 6 5/8 x 16
 Mineral
                                  Huntington, W.Va.
                                                                                        Depth 1532-1538
 Commenced
                                  7-24-44
                                  9-25-44
( see below)
                                                                                        Perf. top 3374
 Completed
                                                                                                bot 3405
 Date shot
                                                                                         9.8
                                  18/10ths W in 3"
 Open flow
                                                                                                top 3312
 Volume
                                  300 MCF
                                                                                                bot 3342
                               6 470 lbs. 60 hrs. Show at 653 68; stood at 40; 629
 Rock Pressure
 Oil
                                                                                        No coal
 Fresh Water
 Salt Water
                                 679; 1/2 bail hr: 729' \frac{1}{2} bail hr.
                                              0 15 Slate & Shell
15 100 Shale
 Surface
                                                                Slate & Shell Gr
                                                                                                       2671 2702
                   Gr S lght S Gr S Wh S Wh S Lt S
                                                                                       Br H
                                                                                                      2702 2731
 Sand
                                              100 160 Slate
                                                                                       Wh
                                                                                                     2731 2802
 Slate
                                                                                                M
Sand Gr
Slate Wh
Sand Wh
Slate Lt
Sand Lt
Slate Dk
Sand Wh
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Slate Dk
Sand Lt
Slate Dk
Sand Lt
Slate Dk
                                                                                      \mathbb{B}\mathbf{r}
                                                                                                      2802 2829
2829 2920
                                             160 196 Shale
                                                                                               S
                                                                Slate
                                             196 201
                                                                                                               2920
                                                                                        Lt
                                                                                                S
                                                                                                      2920 2937
                                                                                      Dk
                                              201
                                                       245
                                                                Shell
                                                                                                H
                                            245 275 Slate
                                                                                                     2937 3011
                                200000000
                                                                                                      3011 3021
                                                                                                     3021 3075
3075 3149
                                                                                                      3149 3176
                                                                                                      3176 3326
                                                                                                    3326 3336
                                                                                                    3336 3613
                                                                                                    3613
                917 920 Shale Br S 3613 3681
920 1183 Shale Shells Br S 3681 3702
1183 1195 Corniferous Lm. Gr H 3702 3706
_Salt Sand
 Slate
                                              1195 1205 TOTAL DEPTH
                                                                                                                3706
 Sand
 Slate
                                              1205 1210
                                              1210 1225
 Sand
                                                                Rainbow oil 653
                                             1225 1230
1230 1242
1242 1337
                                                                Gas 1477; 1484 - 387 C F.; Show gas
 Slate
                                                                1625 ; Gas 1625-1630 60 M; Test gas 1923 25 M; Gas 1946 inc. to 28 M

      Red Rock
      S
      1230
      1242

      Slate
      Dk
      S
      1242
      1337

      Shells
      Dk
      S
      1337
      1343

      Slate
      Dk
      S
      1343
      1348

      Little Lime
      Dk
      H
      1348
      1384

      Slate
      Dk
      S
      1384
      1387

      Big Lime
      Wh
      H
      1387
      1577

      Injun Sand
      Gr
      H
      1577
      1586

      Trium Sand
      Rod
      Rod
      Rod
      Rod
      Rod

 Red Rock
Shells
                                              1337 1343 Gas 2179 inc. to 33 M; Gas 2184-2189
                                                                inc. to 48 M.; Gas test 2907 43 M;
                                                                Gas inc. to 50 M; Gas test 3104 48 M;
                                                                 Gas inc. from 3138-3139 55 M; Gas
                                                                 3336 inc. to 58 M; Gas 3363 inc. to 59 F
 Injun Sand Red-MTH
                                            1586 1625
1625 1648
1648 1833
1833 1872
                                                                 Test B.S. 59 M shot 9-25-44 with
 Injun Sand Gr S
Slate & Shells Dk H
Shell Lt H
Slate & Shell Gr S
Brown Shale Br-564?
                                                                1150# Detonite 3587-3706 Test 12 hrs.
                                                                 A.S. 71 M
                                             1872 2047
                                                                 Shot 9-27-44 8300# Detonite
                                             2047 2160
                                                                 2563-3419 Test B.S. 71 M Test 24 hrs.
 Brown Shale Br-56y? S
Berea Sand Wh H
Slate
                                             2160 2178
2178 2189
                                                                A.S. 300 M
                                              2189 2204
 Slate
                                  S
                                                                Hole bridged at 3419 B.S. 2nd time
 Slate Shell Lt S
Shell Lt S
Slate & Shell Lt S
Shell Lt S
Shell Lt S
Shell Lt H
Slate & Shell Lt H
Slate & Shell Lt H
Shell Lt H
Slate & Shell Dk S
Slate Lt S
Shale Br S
Slate & Shell Gr M
                                              2189 2204
                                                               bridge cleaned out A.S.
                                             2204 2234
                                                                2nd time well tubed at 3406
                                             2234 2239
2239 2279
2279 2322
                                                                                    370 Y
                                              2322 2351
                                             2351 2381
                                              2381 2488
                                             2488 2573
2573 2578
 Slate & Shell Gr . M
Shale Br M
                                             2578 2617
                                             2617 2671
```

FORM IV-2 (Coverse) (08-78)

TELEPHONE: (304) 348-3092



			State		County	Permit
	API Wel	l No.	47	-	043	0541-FRAC
	Operator Weil No.		P.	М.	Porter	#3
-	Date: Ma		y 15		, 19	81

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

		OIL A	ND GAS WELL	PERMIT				
WELL TYPE:	Oil /	Gas XX /						
	(If "Gas", Produc	ction	/ Undergrour	nd storage	/ D	eep/ S	hallow	_D
TOCATION:	Elevation: 86	50 *	Watershed	: Lick Br	canch o	f Fourteen M	ile Creek	
	District: Laure	al Hill	County:	Lincoln	Q	uadrangle: <u>Ra</u>	nger	
umii openat	OR <u>Cabot Oil</u>	a Can Compa	- · -	DESIGNATED	AGENT	M. Baird W	hitehead	
	P.O. Box			Address	P	.O. Box 628		
Address		n, WV 25322				harleston, W		
	Charlesco	17 134 2000						
OIL & GAS ROYALTY OW	NER SEE A	ATTACHED SHE	CET	COAL OPERA	TOR	NONE		
Address	<del></del>			Address_				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				·				
	750+	Annual Control of the		COAL OWNER	יידוע (פו	H DECLARATIO	N ON RECO	ORD:
Acreage	/30+	nan a descriptor de la companya de l	nere de la companya d					J
	NER William C		and the state of t			TACHED SHEET		1
Address	Gen. Del.		The state of the s	Address_			- 4	
	Ranger, W	V 25314	No. of the Control of			MAYIS	1001	3
Acreage	129			Name		19141 1 0	1301	
FIELD SALE (	IF MADE) TO:			Address_		OIL & GAS	DIVISION	
Address						DEPT. OF		
				COAL LESSE		DECLARATION		
OII & GAS IN	ISPECTOR TO BE N	-5		Name		WHEN WHEN WHEN WHEN WHEN THE STREET		
	Kenneth Butc			Address				
	RFD #1							
Addi Goo	Barboursvill	o WV 2550	4					
								vv
	ned well operator is enti							
other contract_	/ dated <u>Apr</u>	il 15,	$19_{41}$ , to	the undersigned	well opera	itor from Par	tie M.	***************************************
IF said deed 1	Porter et al ease, or other contrac	t has been reco	rded:)					
Recorded on	July 10 , 19	$\frac{41}{1}$ , in the offi	ce of the Clerk	of the County Cor	mmission	of Lincoln	Count	ty, West
	Deed Book							
· -				*			1	•
PROPOSED	WORK: Drill/					timulate	λ,	
	_			new formation_				
	Other physica	l change in well	(specify)	·				
	_			he reverse side h				
	med coal operator, coal							
make by Code	\$22-4-3 must be filed w	ith the Departm	ent of Mines w	ithin fifteen (15)	days after	the receipt of the	iis Application	n by the
Department.								
	Permit Application and							
	d coal operator, coal ov			fore the day of the	e mailing o	or delivery of this	Permit Applic	cation to
the Department	of Mines at Charlest	on, West Virgin	ia.					
PLEASE SUBM	IT COPIES OF ALL							W
GEOPHYSICAL	. LOGS DIRECTLY			CABOT	OIL AN	ND GAS CORPO	RATION	40's 10's
	IA OIL AND GAS				2	Well Operator		
CONSERV				Ву <u>Ы</u>	Bri	······································		
SION 1615 WASHING	STON STREET EAST			Its Di	strict	Production	Superinte	ndent
CHARLESTON,		RI 1944						
TELEDUANE.	(204) 249 2002	A PARTITIES	e i liuitia	1				

## PROPOSED WORK ORDER

## THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING	CONTRA	CTOR (I	F KNOW	Ŋ) _		Lauffer	Well Serv	ice Inc.	
				$A_0$	idress	P.O. Bo	x 667		
							ille, KY	41240	
GEOLOGICA	AL TARG	ET FOR	MATION	ſ,	Brov	vn Shale,	Injun, Bere	ea	
									ble tools XX /
								, 729 feet.	
									/ NoXX /
CASING AN								-	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN T
			the state of the s						
CASING OR TUBING TYPE	Size	Grade	Velght per ft	New	Used	FOOTAGE For drilling	Laft in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	10 <sup>3</sup> /4	H-40	32.75	<u> </u>		35'	35 <sup>1</sup>	Present	Kinds Oil Well Anchor
Fresh Water	8 <sup>5</sup> /8	UNK	24			637'	637'	Resent Loc	. Wall
Coal									Sizes 3½ x 6 <sup>5</sup> /8 x 16
intermediate	7	H-40	17			1399'	1399'	Present	
Production	41/2	K-55	10.5	Х			2300'	100 sks	Depths set 1532-1538
Tubing	23/8	J55	4.6	Х			3700'		1332 1336
Liners	31/2	UNK	7.7				3366'	Present	Perforations:
	·								Top 3374' Bottom 34
			<del>- 5</del> ,-5	and a country of the					
									3312' 33.
Code  As be pa	\$22-4-8a separate Form of the warm of the	from the print Iv-2 s ork for w	hall not be hich a per of AT The access with an is hard is permit	e requestion is the control of the c	water ired fo sough  LL SIT for 22 pprove	well or dwell r fracturing or t and is noted:	22-4-12a, and (ving within 200	red by Code § 22-4-2 2-4-12b and Regulation of if applicable, the confect of the proposed rell where fracturing of Form IV-2 filed in conf	onsent required by well.
operations ha	ve not con	pmenced	by 17	26,-8 	2				
A Debuty of	il acioi - O								
***************	<sup>4</sup> ଫଟର ବର ବର ବର		***	****		: ବ୍ରବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ ବ୍ୟ	****	C G G G G G G G G G G G G G G G G G G G	
The fo	ollowing w ration und	aiver mus ler Code	st be com 22-4-20	pleted ), if th	by the	coal operator a	and by any coal sued within fif	owner or coal lessee v teen (15) days of rec	who has recorded a seipt thereof.
						WAIVE	ER		
The undersig	gned coal c	perator_		owne	P.				
	su nas no .	C MI DAMO AM		- · · · · · · · · · · · · · · · · · · ·			e well location, t this location, g regulations.	ne coal under this we the well location has provided, the well of	ell location has examined this been added to the mine map, perator has complied with all
						7.	•		
Date:			. 19			1	Bv		