

New Location  X  
 Drill Deeper   
 Abandonment

5 2.2 MILES NORTH OF LOOP  
 6 1.3 " " " "  
 7 1.7 " N.E. " "  
 8 1.9 " " " "

145 ABD  
4/45

148 ABD  
3/49

Company COLUMBIAN CARBON CO.  
 Address BOX 1240 - CHARLESTON - W.VA.  
 Farm THE PUTNAM CO.  
 Tract \_\_\_\_\_ Acres 1190 Lease No. C-1556  
 Well (Farm) No. 5, 6, 7 & 8 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 5 - 924.1 7 - 824.5  
6 - 996.5 8 - 710.8  
 Quadrangle KENNA (8)  
 County JACKSON District 5-6 - RIPLEY  
7-8 - WASH.  
 Engineer J. M. ...  
 Engineer's Registration No. 772  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date MAY 1, 1941 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. JAC-144-147 INCL. 5-8  
 WELLS 5-8 INC

+ 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 of original tracing.

6,950'

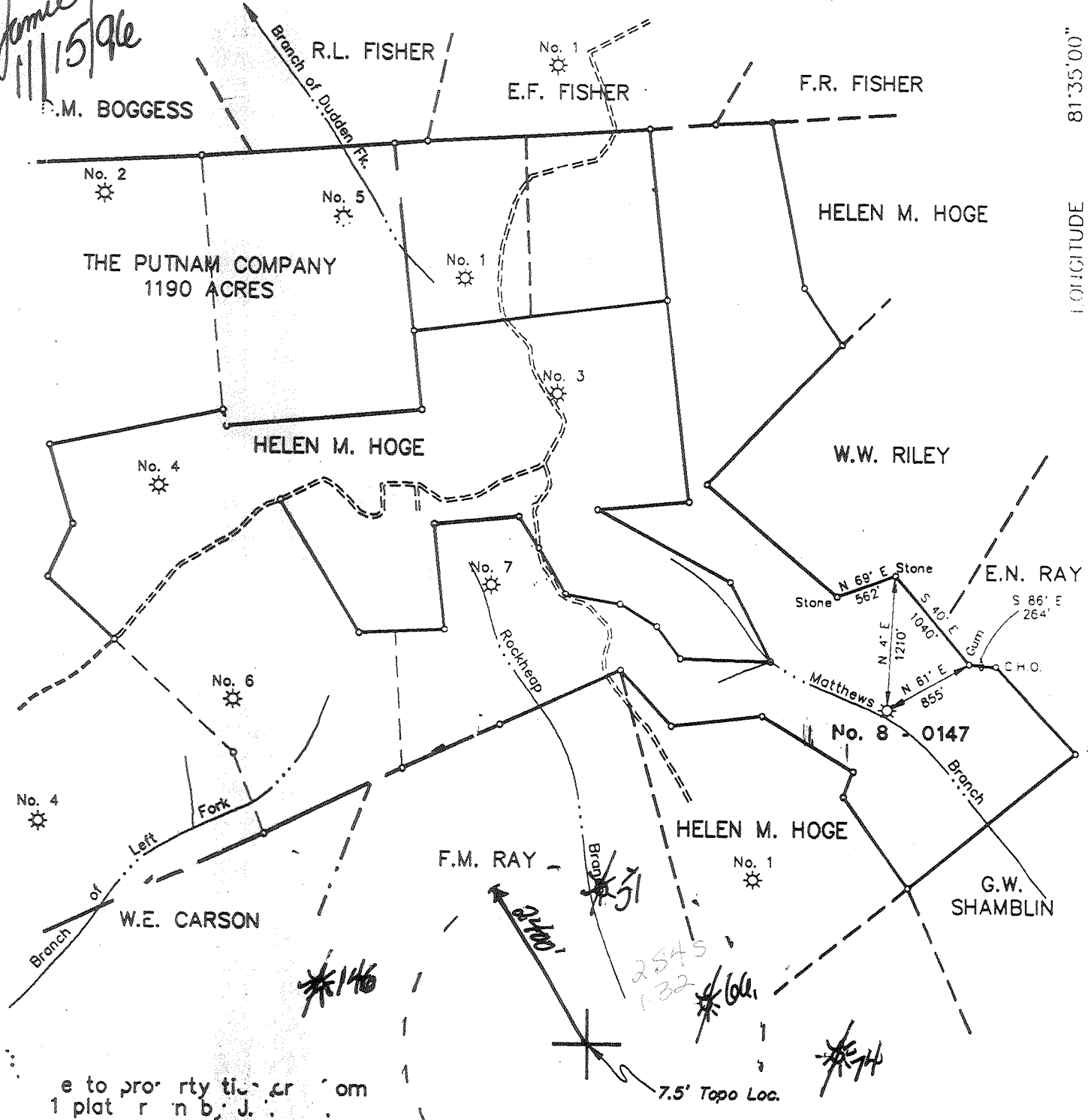
LATITUDE 38°37'30"

81°35'00"

LONGITUDE

14,750'

*Jamie*  
*11/15/96*



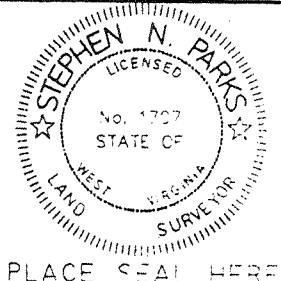
e to pro rty tic cr om  
1 plat r n b, J.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 110896-1  
 SCALE 1" = 1320'  
 MINIMUM DEGREE OF ACCURACY \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION \_\_\_\_\_

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) Stephen Parks  
 R.P.E. \_\_\_\_\_ L.L.S. 1707



**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENERGY**  
**OIL AND GAS**



DATE November 7, 1996  
 OPERATOR'S WELL NO. #8 SN 127981  
 API WELL NO. \_\_\_\_\_

47-035-00147-7  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 710.8 WATER SHED Matthews Branch of Middle Fork  
 DISTRICT Washington COUNTY Jackson  
 QUADRANGLE Romance

SURFACE OWNFF. Roger Carte ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER Cabot Corporation LEASE ACREAGE 530

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Well was drilled in 1941 by Columbia Carbon Produced from Oriskany Well and to acidize it

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET INFORMATION Oriskany ESTIMATED DEPTH 5,042'

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Jim Stephens  
 ADDRESS P.O. Box 391 ADDRESS Rt. 6 Box 178  
DEEP WELL Ashland, KY 41114 43 Charleston, WV 25311

COUNTY NAME PERMIT

NOV 22 1996

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
WELL RECORD

Permit No	Jac-147	Gas Well
Company	Columbian Carbon Co	Casing & Tubing
Address	Box 1240, Charleston, W.Va.	16 37'4" 37'4"
Farm	The Putnam Co Acres 1190	10 1/2 666'0" 316'5"
Location	Mathews Branch	85/8 1875'7" 1875'7"
Well No	8 (GW-492 Elev. 714.4 DF	7" 4946'9" 4946'9"
District	Washington Jackson County	2 3/8 5050'1" 5050'1"
Surface	Clara Hammack, Romance Route Sissonville, W. Va.	
Mineral	The Putnam Co, et al	
Commenced	Contact Col. Carbon for addresses	
Completed	6-19-41	
Shot	9-1-41	
Volume	not shot	
Rock Pressure	7,465 MCF	
Oil	760 lbs 16 days	
Fresh Water	show at 1275'	
Salt Water	40' 1-15" Blr. in 1 hr--exhausted 1305' 4-9" blrs. pr hr.; 1360' H.F.	

Surface	0--	12	Br. Shale	1025	1043
Red Rock	12	40	Slate	1043	1192
Sand	40	45 F.W. 40	Lime	1192	1200
Red Rock	45	66 1-15" Blr.	Slate	1200	1275
Slate	66	100 pr. hr--	Salt Sand	1275	1500
Sand	100	108 Exhausted	Lime Break	1500	1505
Lime	103	160	Maxon Sand	1505	1624
Red Rock	160	170	L. Lime	1624	1644
Slate	170	195	Slate	1644	1647
Sand	195	250	Lime	1647	1651
Red Rock	250	305	Slate - <i>P. Cave</i>	1651	1654 DLM
Lime	305	325	Big Lime SLM	1644	1793 1654'
Slate	325	345	Big Injun Sand	1793	1854 SLM
Red Rock	345	420	Lime	1854	1860 1644'
Slate	420	432	Bk. Lime	1860	1866 SLM
Red Rock	432	454	Grey Lime SLM	1866	1895
Slate	454	460	Sl. & Shells	1895	3476
Lime Shell	460	473	Br. Shale	3476	3530
Red Rock	473	501	Sl. & Shells	3530	3904
Sand	501	513	Br. Shale	3904	4088
Lime	513	536	Wh. Slate	4088	4535
Slate	536	546	Br. Shale	4535	4819
Lime	546	549	Bk. Shale <i>MISSISSIPPI</i>	4819	4890 SLM
Red Rock	549	554	Corniferous L.	4890 SLM	5005 SLM
Slate	554	583	Criskany Sand	5005 SLM	5035
Red Rock	583	593	Lime	5035	5038
Slate	593	634	TOTAL DEPTH		5038
Red Rock	634	639			
Slate & Lime Shells	639	659	Oil----	1275 Show	
Sand	659	663	Gas----	3476 Show	
Lime	663	698			
Slate	698	703			
Lime	703	730			
Sand	730	806			
Slate	806	836			
Lime	836	860			
Slate	860	885			
Sand	885	911			
Slate Shells	911	930			
Sand	930	1011			
Slate	1011	1025			

Pays: 5005--08; 5013--22

CEMENT RECORD

7-19-41-Cemented 8" casing.  
Ran 109 sacks of Alpha cement  
mixed with 2 sacks Aquagel.  
20' solid cement in pipe.

8-19-41-Cemented 7" casing.  
Ran 10 sacks Superior cement  
in dump bailer. 33' cement in  
pipe.

4890 5005  
714 714  
-----  
4176 4291

JAN 15 1997

Permitting  
Office of Oil & Gas

State of West Virginia  
Division of Environmental Protection  
Division of Environmental Protection  
Section of Oil and Gas

06-Au  
API #47-035-00147 -F

Well Operator's Report of Well Work

Putnam A-8

Farm Name: Carte, Roger Operator Well No.: A-8-S-127981  
Location: Elevation: 710.88 Quadrangle: Romance  
District: Washington County: Jackson  
Latitude: 14750 Feet South of 39 Deg. 37 Min. 30 Sec.  
Longitude: 6950 Feet West of 81 Deg. 35 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, OS-2  
ASHLAND, KY 41114-0391

Agent: James L. Stephens

Inspector: Homer Dougherty

Permit Issued: 11-18-96  
Well Work Commenced: 09-26-96  
Well Work Completed: 11-22-96  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5042'  
Fresh water depths (ft) N/A  
Salt water depths (ft) N/A  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 16"	37'	37'	
10 3/4"	316.5	316.5	
8 5/8"	1875'	1875'	109 sx
7"	4946'	4946'	10 sx

NOTE: RECOMPLETION

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5005-5022'  
Gas: Initial open flow 168 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static Rock Pressure 120 psig (surface pressure) after 24 Hours

Second Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static Rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Ashland Exploration, Inc.

By: Deanna M. Rose Deanna M. Rose, Asst. Eng.  
Date: \_\_\_\_\_ 01-13-97

JAN 24 1997

Dump 250 gal 15% HCl-Fe acid. SI 30 minutes. Swab tbg to 5032'. Dump 250 gal 15% HCl-Fe acid. SI 30 minutes. Swab tbg to 5032'. Swab tbg to 5032'.

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

Permitting

1) Well Operator: <sup>43</sup> Ashland Exploration, Inc. 2750 (5) 584

2) Operator's Well Number: Putnam A-8, Serial No. 127981 3) Elevation: 710.8

Well type: (a) Oil \_\_\_ / or Gas X /  
 (b) If Gas: Production X / Underground Storage \_\_\_ /  
 Deep X / Shallow \_\_\_ /

Issued 11/18/96  
 Expires 11/18/98

Proposed Target Formation(s): Oriskany <sup>475</sup>

Proposed Total Depth: 5042 feet

7) Approximate fresh water strata depths: N/A

8) Approximate Salt water depths: N/A

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /

11) Proposed Well Work: Acidize Oriskany, See Workover Prognosis

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Conductor	16			37	37	
Fresh Water	10 3/4			316.5	316.5	
Coal						
Intermediate	8 5/8		25.55	1875	1875	109 sks
Production	7		22	4946	4946	10 sks
Tubing						
Liners						

from original  
 Well record drilled in 1941.

PACKERS: Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond  Agent  
 (Type)

504232  
 322

1) Date: October 1, 1996  
2) Operator's well number  
Putnam A-8, Serial No. 127981  
3) API Well No: 47 - 035 - 0147 - F  
State - County - Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED  
WV Division of  
Environmental Protection  
01 04 1996  
Permitting  
Office of Oil & Gas

4) Surface Owner (s) to be served:  
(a) Name Roger Carte  
Address Rt. 3B Box 171  
Kenna, WV 25248  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Homer Dougherty  
Address Linden Rt. Box 3-A  
Looneyville, WV 25259  
Telephone (304) - 927-4591

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner (s) with Declaration  
Name Cabot Corp.  
Address P.O. Box 910676  
Dallas, TX 75391  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

TO THE PERSON (S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 1 on the above named parties, by:  
\_\_\_\_\_ Personal Service (Affidavit attached)  
X Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ashland Exploration, Inc.  
By: Stephen N. Parks *Stephen Parks*  
It's: Engineering Advisor  
Address P.O. Box 391  
Ashland, KY 41114  
Telephone 606-329-3682

Subscribed and sworn before me this 1<sup>st</sup> day of October, 19 96

Thick W. South Notary Public  
My commission expires November 23, 1998