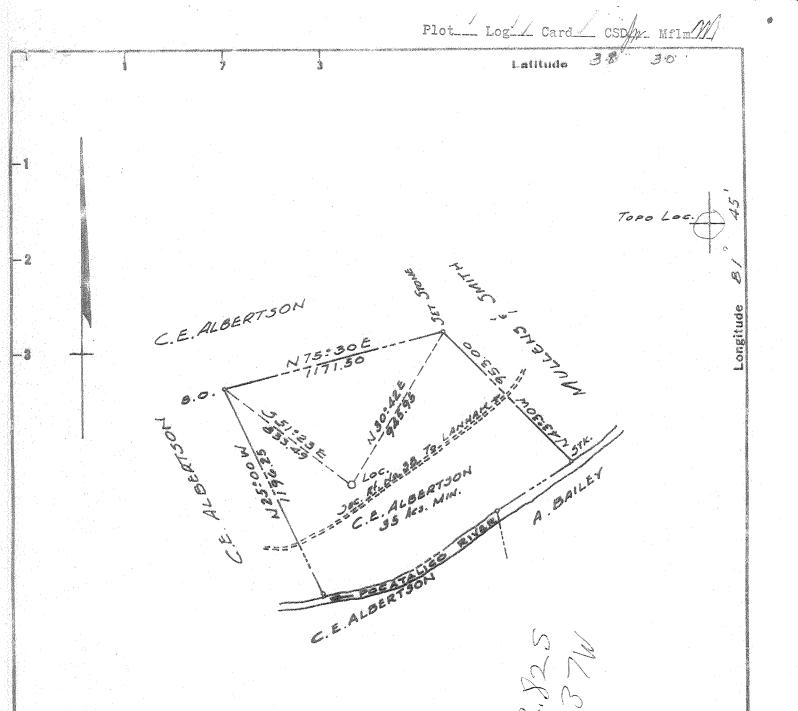


OWWO 6-6 Rocky Fork (312)

Deep 6 4 JAN 21 1974



Fracture Before 6/5/27 New Location Drill Deeper Redrill Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION UJGJ BM GOS LAST JIOS PROPERTY OF PROPERTY

APPALACHIAN EXPLORATION & DEV. INC: Company.

Address BOX 628, CHARLESTON, W.VA.

C.E. ALGERTAGNUNIT

Acres (34) Lease No. Tract.

Well (Farm) No .. Serial No.

Elevation (Spirit Level) 622.90

Quadrangle ST ALCANS

District PQCATACICO County PUTNAM

Engineer Charles 11. auto Engineer's Registration No.

File No. Drawing No.

Ne Oct. 2./267 Scale /" " 500'

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

WELL LOCATION MAP FILE NO. PUT- 735

- 4 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.

Deep Well (newburg)

JCT 23 1967



#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

### Oil and Gas Division

### WELL RECORD 2

()uadra	ngle Charleston	
	W	1
Permit	No. Put=735-Era	Colony.

Well treatment details:

Rotary Oil
Cable Gas x
Recycling Comb.
Water Flood Storage
Disposal. (Kind)

•				\Kind/
Company Appalachian Exploration & Dev., Inc Address P.O. Box 628, Charleston, W. Va. 25 Farm C.E. Albertson Acres 1,000	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Poca River  Well No. 1 Elev 6229   District Pocatalico County Putnam	Size 20-16 Cond.	-		,
The surface of tract is owned in fee by R.A. Smith.	13-10"	110	110	120 sks
etal	9 5/8	1742	1742	133 sks
Addam Winfield, W. Va.	8 5/8		100000000000000000000000000000000000000	
Mrs E.R. Albertsonet	a17			Andrew Commencer (Commencer)
Mineral rights are owned by 113.  3665 Epsworth Avenue  Workover  Workover  1/15/74	5 1/2	5295	5295	150 sks
Workoyer 1/15/74	4 1/2			
Workover 1/15/74  Workover 1/25/74  Whiting Completed 1/25/74	3			
Initial open flow 401,000 cu. ft bbls.	差 1-1/2"	4723	4723	
Final production cu. ft. per daybbls.	Liners Used			
Well open 6 hrs. before test 1060# RP.				

Attach copy of cementing record.

Oriskany- Fract with 1000 gals. acid, 20,000 lbs. 20/40 sand and 600 bbls gelled water. Average pressure 4644 at 22 BPM. Instant shut-in 3900 psig.

New production from Fract Oriskany; old production from Newburg.

Coal was encountered at Feet Inches

Fresh water 40'-107' Feet Salt Water Feet

Producing Sand Newburg - Oriskany Depth 5331' to 5339' - 4604'-4625'

Producing Sand The World Strategy	•		Newburg Oriskapy
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Shale		40	Water
Sand	40	107	Water
Sand and shale	107	518	
Sand	518	762	
Shale	762	808	
Sand and shale	808	1060	
Sand	1060	1114	
Salt sand	1114	1485	
I ime	1/195	1627	
Lime and shale	1485	1676	
Sand	1676	1742	
Shale	1742	2107	
Sand and shale	2107	2230	Berea (no shows)
Shale	2230	4509	
Lime	4509	4597	
Sand-Oniskany	4597	4618	Gas
a de la companya de La companya de la co			
			PECEUVEN
	. <b>J.</b>	1,867 % (1)	MAR 7 1974

(over)

OIL & GAS DIVISION
DEFT. OF MINES

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet 2	Bottom Feet	Oil, Gas or Water * Remarks
	deresidan artumenta (n. 1874) eritetten di Strinetti sono erinastoni e e in menintati in mengigi esta uniussata		
Lime dolomite and anhydrite	4618	5331	Sour gas
Sand - Newbury	5331	5339	Gas
Dolomite and	5339	5357	Tara a carago
anhydrite Mck		9904	
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Casing Record			and the first of the second and the second s
13-3/8" cemented with 120 sac	ks, November	3, 1967	
9-5/8" cemented with 133 sac	ks, November	5, 196/	
5-1/2" cemented with 150 sac	ks, November	13, 1967	
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APPROVED March 5

Ву\_

District Production Superintendent

(Title)



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION 7

Rotary	X
Spudder	
Cable Tools	
Storage	

Oil or Gas Well...

FEET INCHES FEET INCHES

Used in Drilling

Charleston

Company Appalachian Exploration & Development, Tubing and

Address P. O. Box 628, Charleston, W. Va.

WELL ACIDIZED (DETAILS)

Permit No. Put-735

WELL RECORD

MOLEUR DE PROGRAMA DE LA COMPANSION DE L	A CONTRACTOR OF THE PROPERTY O
Left in Well	Packers
110	Kind of Packer None
1742	Size of

Address I.	U. BOX 020, CHAL	Teacon, M. Ac.				
Farm G.I	. Albertson	Acres 1,000	Size	-		
I manking (mentance	Pocatalico Rive	7.	16			Kind of Packer None
Location (waters	)	Elev. 622.90	13 - 3/8	110	110	
well inc	28.	ty Putnam	<sub>200</sub> , 9-5/8	1742	1742	Size of
	ract is owned in fee by R		81/4			
sion contende of	Address	infield, W. Va.	6%			Depth set
N. C. Common Lands of miles of miles of miles	noureach Mrs. E.R	.Albertson, et al	5 2/13/1/2	5295	5295	
		665 Epworth Ave.,	41/2			
		1967	3	-		Perf. top
		1968	2			Perf. bottom
Date Shot Not	t From	То	Liners Used			Perf. top
With		***************************************				Perf. bottom
Open Flow	/10ths Water in	Inch	Attach copy of	cementing reco	ord. See B	ack of Report.
	/10ths Merc. in	Inch	CASING CEM	IENTED	SIZE	No. FtDat
Volume 469	Q_M	Cu. Ft.	Amount of cen	nent used (baga	)	

WELL FRACTURED (DETAILS) Fractured Newburg with 445 barrels of Kerosene, 10,000 pounds of sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1 MMcf per day (1,000 MCF) ROCK PRESSURE AFTER TREATMENT 1342 HOURS 48

Rock PressureNot measured lbs. hrs. Name of Service Co. Dowell Oil None bbis., 1st 24 hrs. COAL WAS ENCOUNTERED AT.

resh W	ater '	40"	107'	Pect	 Salt	Water			Foot		
	a Cand	Newbur					Parenth	5331-5	339		
roducin'	g Sand.	MEANAT	<u> </u>	~~ * * * * * * * * * * * * * * * * * *	 		. Deput				
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Formation	Color	Hard or Soft	Top	Bettom	Oil, Gas or Water	Depth	Romarks
hale			0	40	Water	40	
and			40	107	Water	107	,
and & Shale			107	518			
and	general process and		518	762			
hale			762	808	Lampeon and the Control of the Contr		1
and & Shale			808	1060			
and .			1060	1114		:	
ale sand			1114	1485	in management		
ime big L	lme		1485	1627		-	
ima & Shale			1627	1676	and the second		
and			1676	1742			pe may year or
hale			1742	2107			
Sand & Shale			2107	2230		2111-2121	Berea (no shows
2000000 60 0000000	1	Aura di Santa di Sant				(Log depth)	ndicinal construction of the contract of the c
Shale			2230	4509			
lime Omond	noa.		4509	4597	enjeg statements.		Onondaga
			4597	4629	Gas	46061	Oriskany-315
sand Orista	iny		133.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4603-4624	Mcf per day
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(over)

Person	Caby	Hard or Soft	<b>Teo</b> 7	Bottom	Oil, Gas or Water	Dopth Pound	Lonerho
Lime dolomite and anhydrite			4629	533Ø	Sour gas	4830 '	
Sand Yewly	rg.	Signature construction of the construction of	533⊅	5339	Gas	53341	Newburg-462
Dolomite & anhydrite Y	nckonzie		5339	5357		es upper année es contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del cont	T.D.
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Casing Record:		ith 120 sack		1067	Durach Law en Light e		e vesti e e ti
100		th 133 sack			inde komo a soli i soli i I soli i soli		
5-1/2" &	emented w	th 150 sack	, November	13, 1967			
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	overhood your class country light to the					1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
		AND THE STREET					gus Augenerous and I Tallographic Productions Tallographic Productions
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(Title)

.. Owner

Date....

APPROVED





## Oil and Gas Division

OIL & GAS DIVISION DEFT. OF MINES

# OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,			
Charleston, W. Va.	DATE	January 14, 1974	
Surface Owner Ray A. Smith, et al	0	AppalachianExplo	
Winfield W Va	Compa	Box 628, Charleston	n, W.Va. 25322
Audress E. D. Albantan at al			
3665 Epsworth Avenue	Farm_	C.E. Albertson	Acres
Address CINCIIIIaci, Ollio	Locati	on (waters) Poca River	
Coal Owner Same as above	Well N	To Pocatalico	Lievation
Address	Distric	t	County
Coal Operator None	Quadra	angle St. Albans	
Address			
THIS PERMIT MUST BE POSTED AT THE WELL	Sir		•
All provisions being in accordance with Chapter	- 22,		
of the W. Va. Code, the location is hereby appro	oved		
for fracturing This permit shall expli	re if		• 1
operations have not commenced by 5-14-74	\$1000000000000000000000000000000000000		
The state of the s		INSPECTOR TO BE NOTIF	Kenneth Butcher
Deputy Director - Oil & Gas Division GENTLEMEN:		RFD # 1 Barboursville, WV.	736–4885
The undersigned well operator is entitled to drill upon			
	Page	315	
OIL AND GAS WELL ORIGINALLY DRILL		•	
The enclosed plat was prepared by a registered engineer have been notified as of the above date.	r or licensed	l land surveyor and all coal	owners and/or operators
The above named coal owners and/or operator are hereb to make by Section 3 of the Code, must be received by, or			
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the l		day	before, or on the
-			
	Very trul APPALA (Sign Nar		DEVELOPMENT, INC.
•	(Dign 11th)	Well Operator	
E SUBMIT COPIES OF ALL ASSICAL LOGS DIRECTLY TO:	iress .	Box 628 Street	
Virginia Geological and Economic Survey Well Or		Charleston	
- 150% <b>5</b> 75	•	City or Town	
natown, W. Va. 26 <b>505</b> G4-296-4461		West Virginia 2532	2
and the second of the second o		State	

\*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.

PUT-735 \_FRAC. PERMIT NUMBER

BLAMET

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN X FR.	ACTURE-STIMULATE
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT: J.B. McPete	rs.
NAME		NAME	
ADDRESS			harleston, W.Va. 25322
TELEPHONE			55
ESTIMATED DEPTH OF COMPL	ETED WELL: 3357		CABLE TOOLS
PROPOSED GEOLOGICAL FORM	MATION: Oriskany (4597-4	612')	
TYPE OF WELL: OIL_	GAS X COME	BSTORAGE_	DISPOSAL
	RECYCLING_	WATER FLOC	DOTHER
•		· ·	
TENTATIVE CASING PROGRAM	I:		
			CONTROL OF THE CONTRO
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	•		
7			
5 ½			
4 ½			
3			Perf. Top
2			Perf. Bottom
Liners		,	Perf. Top Perf. Bottom
			Peri. Bottom
OF PLAT.  TO DRILL DEEPER OR REDRII SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITTE  TO FRACTURE - STIMULATE:	OF OG - 1, SHOWING ORIGINA TO 1929, A PERMANENT COPY ED.	L PERMIT NUMBER AND OF THE PLAT AND T	D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORI
BOND, PERMANENT PLAT	RIGINALLY DRILLED BEFORE AND ORIGINAL WELL RECOR RIGINALLY DRILLED ON AND	D.	
	JMBER, AND PERFORMANCE BO		
Required forms must be file four (24) hours in advance.	d within ninety (90) days of com	pletion for bond release.	Inspector to be notified twenty-
. The following waiver must thereof.	be completed by the coal operate	or if the permit is to be i	ssued within ten days of receip
WAIVER: I the undersigned, Age this lease have examin	ent forned and place on our mine maps		
	Coal Company hav		
Wae.	•		
	•	F	or Coal Company
	\$** 		Official Title