

Feed Cordee 114/387

CRISO 44 Ac

Trimble 193 Ac

0.4 miles to Harrison County Line

Allen Cordee Heirs 12/356

7 1/2 Min Topo

Flanegan 154.71 Ac

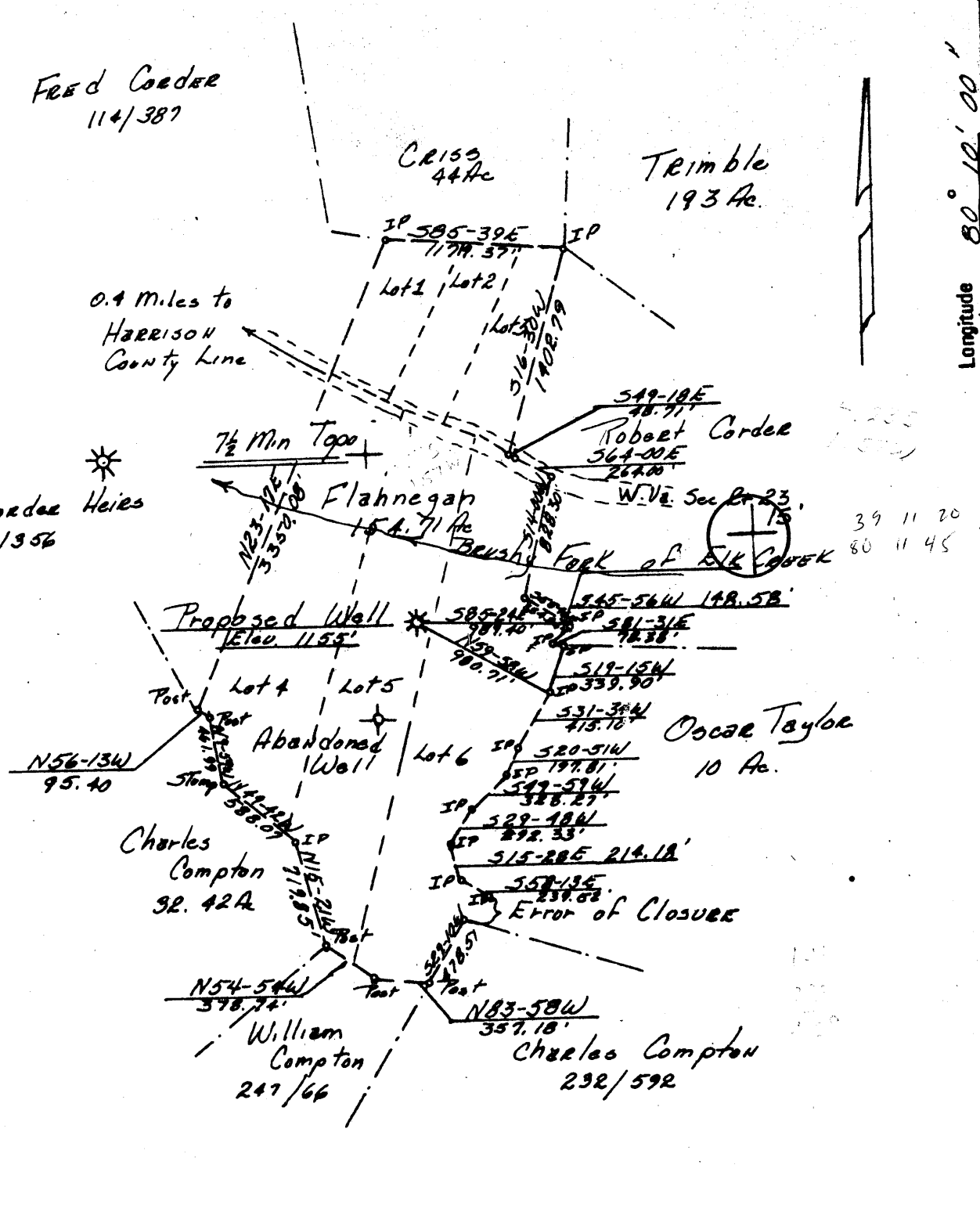
Robert Cordee 564-00E 264.00

Oscar Taylor 10 Ac

Charles Compton 92.42 Ac

William Compton 247/66

Charles Compton 292/592



New Location

Drill Deeper

Abandonment

Minimum Error of Closure 1" IN 5000'

Source of Elevation USBM at Pepper, W. Va. - Elev 1153

Brownston Topographic Quadrangle

"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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

OIL DISCOVERIES INC
 Petroleum Development Corporation
 Bx. 516 Bridgeport WY 26330
 103 E Main St.
 Farm: M. Flanagan, Lorene Alonso & George
 E. M. Flanagan, Chamarsky

Tract _____ Acres 154.71 Leas No. _____

Well (Farm) No. B1206 Serial No. _____

Elevation (Spirit Level) 1155' NW

Quadrangle Brownston 7 1/2 Min, PHILLIPS 15'

County Barboor District Elk

Engineer L. R. Snyder

Engineer's Registration No. 30050

File No. _____ Drawing No. _____

Date Feb 4, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. BAR-953

+ 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.

47-001 MAR 6 1978



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Brownston

Permit No. BAR-953 (47-001)

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

Company Oil Discoveries, Inc.
Address P.O. Box 26, Bridgeport, WV 26330
Farm F.M. Flanagan Acres 154.71
Location (waters) Brushy Fork
Well No. Flanagan-Paugh #1 Elev. 1155
District Elk County Barbour
The surface of tract is owned in fee by _____
Herschel Flanagan Lorene Alonso
Address Clarksburg, & Bridgeport W.V.
Mineral rights are owned by Same
Address _____
Drilling Commenced 3/7/78
Drilling Completed 3/12/78
Initial open flow _____ cu. ft. _____ bbls.
Final production 347m cu. ft. per day _____ bbls.
Well open 48 hrs. before test 1500RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	1868	1868	440 sks
7			
5 1/2			
4 1/2	4476	4476	320 sks
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:			
<u>riley 454 bbls</u>	<u>9,000</u>	<u>80/700</u>	
	<u>30,000</u>	<u>20/40</u>	
<u>Benson 500 bbls</u>	<u>9,000</u>	<u>80/100</u>	
	<u>30,000</u>	<u>20/40</u>	

Coal was encountered at 289 Feet _____ Inches
Fresh water 80 Feet _____ Salt Water 1815 Feet _____
Producing Sand Benson; Riley Depth 4290-94; 3993-96

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	5		
Sand & Shale			5	289		
Coal			289	293		
Sand & Shale			293	1273		
Red Rock			1273	1396		
Big Lime			1396	1455		
Injun			1455	1470		
Shale			1470	1520		
Keener			1520	1570		
Shale			1570	1795		
Gantz			1795	1810		
Shale			1810	1895		
50			1895	1945		
Shale			1945	2000		
30			2000	2030		
Shale			2030	2095		
Gordon Stray			2095	2114		
Shale			2114	2124		
Gordon			2124	2136		
Shale			2136	2256		
4			2256	2270		
Shale			2270	2325		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
5			2325	2337		
Lower 5th			2337	2347		
Shale			2347	2837		
Speechly			2837	2944		
Shale			2944	3264		
Balltown			3264	3272		
Shale			3272	3482		
Bradford			3482	3493		
Shale			3493	3993		
Riley			3993	3996		
Shale			3996	4287		
Benson			4287	4294		
Shale			4294	4369		
Benson 2			4369	4372		
Shale			4372	4440		
<u>Elk</u>			4440	4446		
				4492		T.D.
				4495		T.D. Driller

4495
~~4294~~
 201 Expl.

Date December 22, 1978, 19__

APPROVED Petroleum Development Corp., Owner

By John C. Moore
 (Title)
 Petroleum Engineer



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE February 14, 1978

Surface Owner Herschel Flanagan Lorene Alonzo Company Oil Discoveries, Inc.
 Address Clarksburg & Bridgeport, W. Va. Address Box 876 Bridgeport, W. Va. 26330
 Mineral Owner Same Farm F. M. Flanagan Acres 100-154.71
 Address _____ Location (waters) Brushy Fork
 Coal Owner Same Well No. Flanagan-Paugh #1 B-1206 Elevation 1155
 Address _____ District Elk County Barbour
 Coal Operator _____ Quadrangle Brownton
 Address _____

THIS 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 approved for drilling. This permit shall expire if operations have not commenced by 6-20-78.

INSPECTOR

TO BE NOTIFIED Robert Stewart

ADDRESS Box 345 Jane Lew, W. Va.

PHONE 884-7782

Robert Stewart
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 3, 1973 by Minnie Flanagan made to Consolidated Gas Supply Co. and recorded on the 9th day of February 19 73 in Barbour County, Book 71 Page 175

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address of Well Operator

Very truly yours,
Oil Discoveries, Inc.
(Sign Name) Alvin Sorenson
Well Operator

Box 876 Street
Bridgeport City or Town
West Virginia 26330 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.

BLANKET BOND

BAR-953 PERMIT NUMBER

47-001

1-DC

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown _____ NAME Oil Discoveries, Inc. _____
 ADDRESS _____ ADDRESS P. O. Box 876 Bridgeport, W. Va _____
 TELEPHONE _____ TELEPHONE 842-6246 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4550 _____ ROTARY XX _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson _____
 TYPE OF WELL: OIL _____ GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>11 3/4</u>	<u>40</u>	<u>40</u>	<u>Surface</u>
9 - 5/8			
8 - 5/8	<u>1000</u>	<u>1000</u>	<u>Surface</u>
7			
5 1/2			
4 1/2		<u>4425</u>	
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET _____ SALT WATER 1750 FEET _____
 APPROXIMATE COAL DEPTHS 500 _____
 IS COAL BEING MINED IN THE AREA? NO _____ BY WHOM? _____

TO DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.
 We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title