



Minimum Error of Closure $\frac{1}{2,000}$
 Source of Elevation WELL NO. 3 = 1245

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.

Signed: Paul G. Dean

- Fracture
- New Location
- Drill Deeper
- Abandonment

Map No. _____ Squares: N S E W

Company CHICAGO BEARS FOOTBALL CLUB, INC.
 Address 173 WEST MADISON ST., CHICAGO, 2, ILL.
 Farm L. L. CRANFORD
 Tract 4 Acres 73 OF 293 Lease No. _____
 Well (Farm) No. 5 Serial No. _____
 Elevation (Spirit Level) 1052
 Quadrangle PHILIPPI WC
 County HARRISON District ELK
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136-9-6 Drawing No. 69-12
 Date MARCH 24, 1969 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. Harr-511

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage E. Hole
Oil or Gas Well Gas

39° 15'

WELL RECORD

Quadrangle Philippi 4-21

Permit No. Har-511

Company Chicago Bears Football Club, Inc.
Address 173 W. Madison St.; Chicago, Ill.
Farm L. L. Crawford Acres 73
Location (waters) Gnatty Creek
Well No. 5 Elev. 1052
District Elk County Harrison
The surface of tract is owned in fee by L. L. Crawford
Rt. 2 Lost Creek Address W. Va.
Mineral rights are owned by Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	15	15	Kind of Packer
13			
10	603	603	Size of
8 1/4			
6 5/8			Depth set
5 3/16		4,270	
4 1/2			Perf. top <u>4,242</u>
3			Perf. bottom <u>4,248</u>
2			Perf. top
Liners Used			Perf. bottom

Drilling commenced May 1, 1969
Drilling completed Sept. 7, 1969
Date Shot From To
With
Open Flow 24 /10ths Water in 1 Inch
/10ths Merc. in Inch
Volume 38,500 Cu. Ft.
Rock Pressure Not Taken lbs. hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)

Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 4,270 No. Ft. 9/12/69 Date
Amount of cement used (bags) 250
Name of Service Co. Halliburton Services
COAL WAS ENCOUNTERED AT 70 FEET 12 INCHES
157 FEET 24 INCHES 325 FEET 12 INCHES
519 FEET 12 INCHES FEET INCHES

WELL FRACTURED (DETAILS) 1,060 bbls water, 56,000 lbs. sand; 35 gal. morflo;
600 lbs. wac-10; 75 lbs. fr-16; 7,000 lbs. calcium chloride
RESULT AFTER TREATMENT (Initial open flow or bbls.) ~~XXXXXX~~ 500,000 500 MCFGPD
ROCK PRESSURE AFTER TREATMENT 1,375 HOURS 24
Fresh Water 18 ft.; 286 Feet Salt Water None Feet
Producing Sand Benson Depth 4,311

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface	Brown	Soft	0	10			
Sand	"	Hard	10	35			
Shale	Gray	Soft	35	70			
Coal	Black	Soft	70	71			
Shale	Gray	Soft	71	157			
Coal	Black	"	157	159			
Shale	Gray	"	159	325			
Coal	Black	"	325	326			
Shale shells	Dark	"	326	397			
Sand	White	Hard	397	519			
Coal	Black	Soft	519	520			
Shells	Gray	Hard	520	1025			
Sand 3rd	White	Hard	1025	1065			
Shells	Gray	"	1065	1240			
Red Rock	Red	Soft	1240	1314			
Lime Shells	Gray	Hard	1314	1352			
Red Rock	Red	Soft	1352	1362			
Big Lime	Gray	Hard	1362	1460			
Sand 8 1/2	"	"	1460	1520			
Sand 5 1/2	"	"	1520	1556	Gas	1516	Show
Shale Shells	"	Hard	1556	1721	Gas	1530	"
Sand 8 1/2	"	"	1721	1735			
Sand Shells	"	"	1735	2000			
Red Rock	Red	Soft	2000	2098			
Lime Shells	Gray	"	2098	2170			
Sand	"	Hard	2170	2195			
Shale Shells	"	Soft	2195	2265			
Sand 5 1/2	"	Hard	2265	2334			

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DEC 18 1969
OIL & GAS DIVISION
DEPT. OF MINES

Formation	Color	Hard or Soft	Top <i>g</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
late Shells	Gray	Soft	2334	4229			
Sand <i>Benson</i>	Dark	Hard	4229	4239	Gas	4230	
late Shells	Gray	Soft	4229	4311			
Total Depth	4311						

Date Dec. 15, 19 69

APPROVED Chicago Football Club, Inc., Owner

By L. L. Kennerford, agent
(Title)