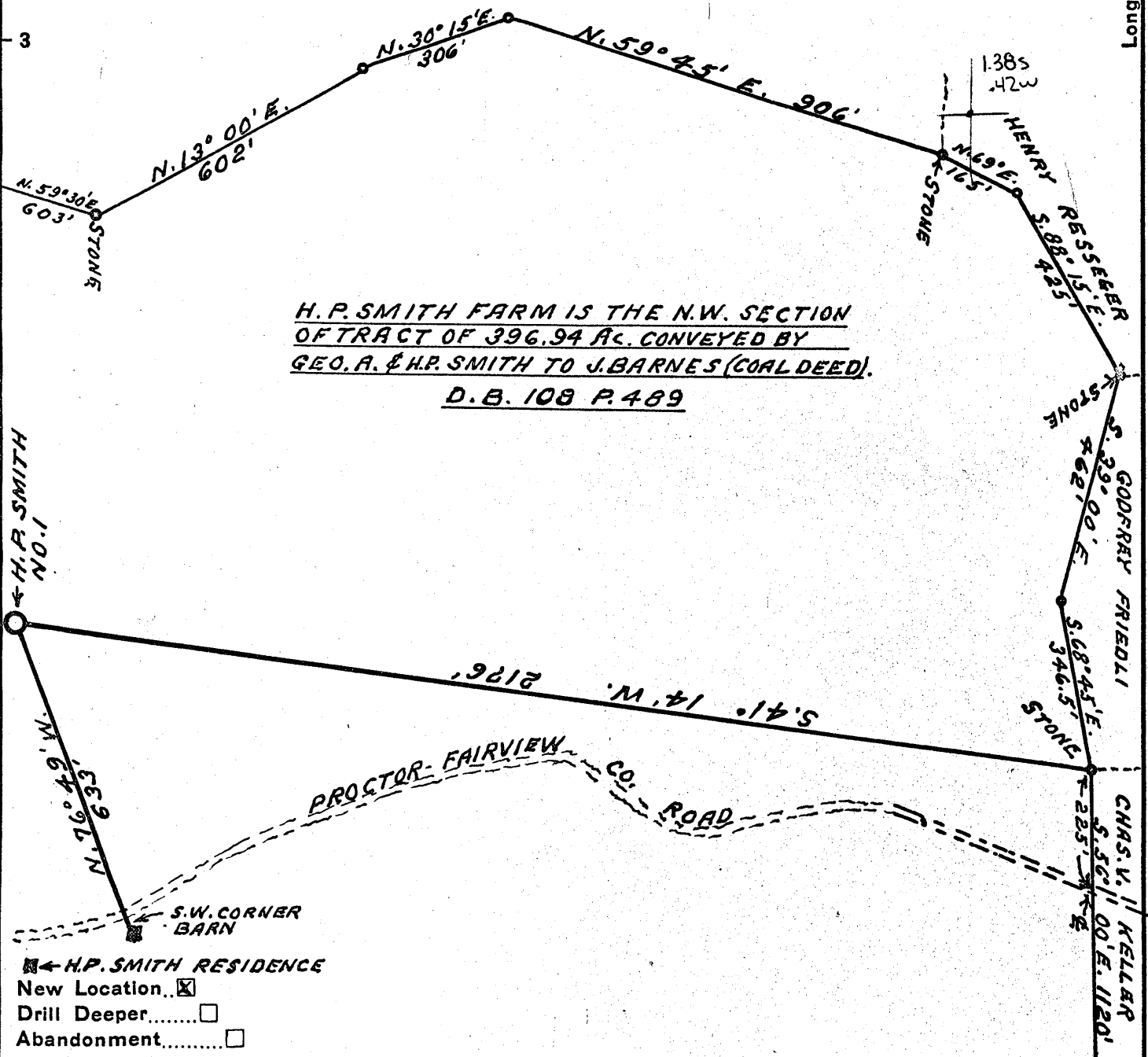


Latitude 39° 45'

Longitude 80° 45'

1.435
+ 2.71W

JOHN & G.P. McHENRY



H. P. SMITH FARM IS THE N.W. SECTION
OF TRACT OF 396.94 AC. CONVEYED BY
GEO. A. & H.P. SMITH TO J. BARNES (COAL DEED).
D. B. 108 P. 489

Company ARROWHEAD EXPLORATION CO.
 Address DENVER-COLO.
 Farm H. P. SMITH
 Tract _____ Acres 138 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1226
 Quadrangle NEW MARTINSVILLE - NE
 County MARSHALL District FRANKLIN
 Engineer GORDON W. SAMMONS
 Engineer's Registration No. 509
 File No. _____ Drawing No. _____
 Date APR. -11-1957 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. MARS-308

+ 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

Quadrangle New Martinsville, W.Va.

Permit No. MARS-308

WELL RECORD

Oil or Gas Well Dry
(KIND)

Company Arrowhead Exploration Company
Address 1219 Mile High Ctr., Denver, Colorado
Farm H. P. Smith Acres 138
Location (waters) Dry Run
Well No. 1 Elev. 1226
District Franklin County Marshall
The surface of tract is owned in fee by H.P. Smith
Address Proctor, W. Va.
Mineral rights are owned by J. Barnes
Address _____
Drilling commenced July 9, 1957
Drilling completed August 20, 1957
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	283		Size of
8 1/4	1302		
6 5/8	2062		Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 726 FEET 24 INCHES
819 FEET 60 INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT _____
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	40			
Redrock	Red		40	57			
Shale & Shells	Red		57	84			
Redrock	Red		84	120			
Slate & Lime Shells			120	249			
Sand	White	Hard	249	276			
Shale	Gray	Soft	276	293			
Redrock	Red	Soft	293	300			
Shale & Shells	Gray	H & S	300	405			
Coal Show		Soft	405	407			
Shale & Shells	Gray	H & S	407	475			
Coal Show			475	477			
Shale & Lime		H & S	477	524			
Sand			524	532			
Shale	Gray		532	556			
Redrock		Soft	556	560			
Shale & Lime			560	726			
Coal-Sewickley			726	728			
Shale & Lime			728	819			
Coal-Pittsburgh			819	824			
Shale	Dark		824	879			
Shale & Redrock			879	1112			
Shale & Lime			1112	1174			
Sand-Little Dunkard (Cow Run)			1174	1230			
Shale & Lime Shells			1230	1267			
Sand-Big Dunkard			1267	1302			
Shale & Lime Shells			1302	1375			
Gas Sand			1375	1422			
Shale	Gray		1422	1430			

1224
819
407

RECEIVED
WEST VIRGINIA
DEPT. OF MINES
AUG 21 1957

SLM 824

Formation	Color	Hard or Soft	Top 5'	Bottom	Oil, Gas or Water	Depth Found	Remarks
✓ Coal Show			1430	1431			
Shale & Lime Shells			1431	1434			
✓ Sand-First	Salt		1534	1620			
Shale	Gray		1620	1643			
✓ Sand-Second	Salt		1643	1720			
Shale			1720	1770			
✓ Sand-Maxton			1770	1842			
Shale			1842	1866			
✓ Little Lime			1866	1878			
✓ Pencil Cove			1878	1880			
✓ Big Lime			1880	1920			
✓ Sand-Keener			1920	1951			
Shale			1951	1962			
✓ Sand-Big Injun			1962	2178	Gas Show	2066	
Shale & Lime Shells			2178	2604			
Redrock			2604	2681			
Shale & Shells			2681	2814			
✓ Sand-Gordon	Stray		2814	2825	1880		
Shale			2825	2858	1226		
✓ Sand-Gordon			2858	2885	654		
Shale			2885	2927			
✓ Sand-Fourth			2927	2945			
Shale			2945	2985			
✓ Sand-Fifth			2985	3000			
Shale			3000	3500			
T.D.				3500			

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)