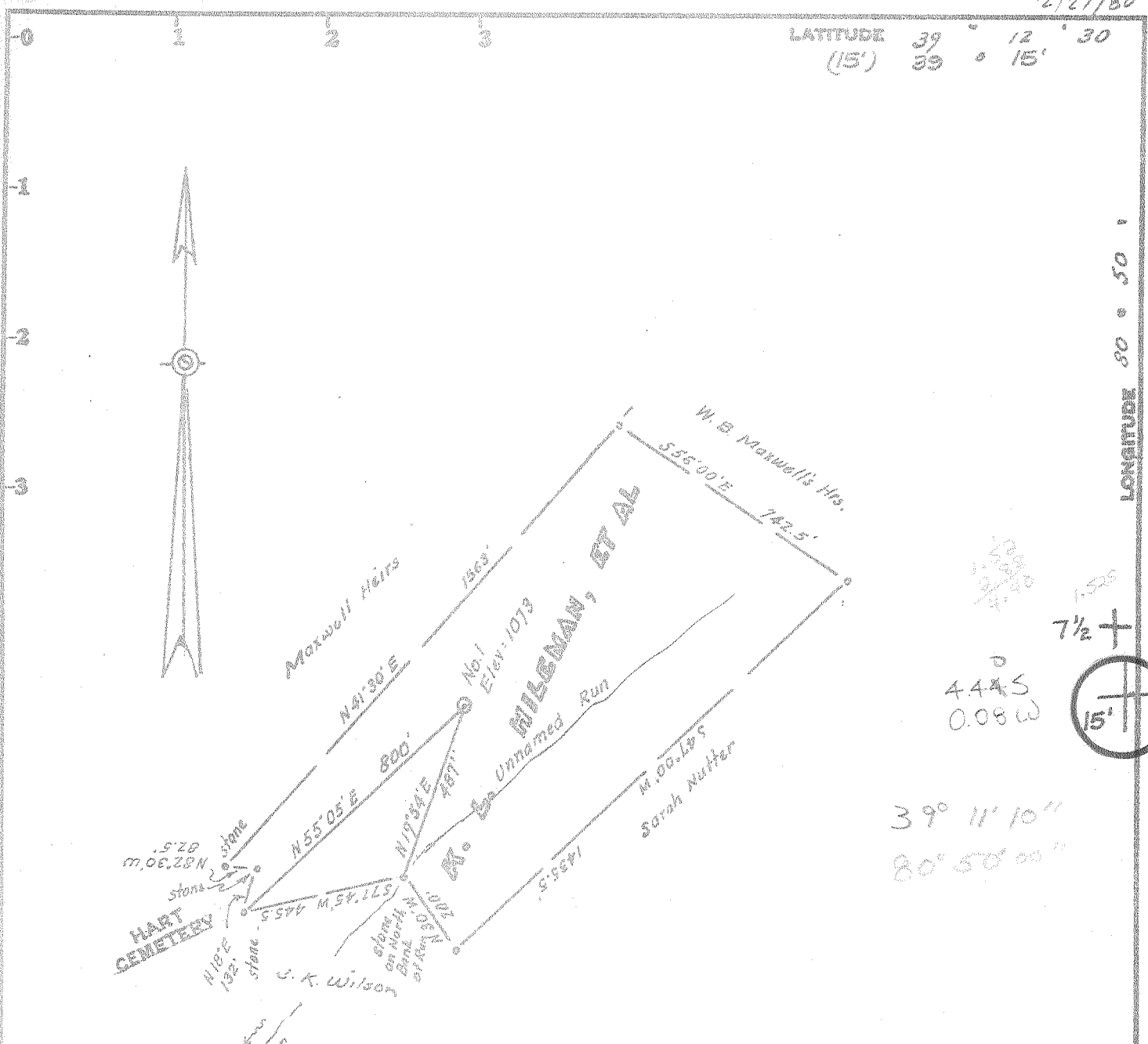


2/27/80 *RF*



4445
 0.08 W
 39° 11' 10"
 80° 50' 00"
 7 1/2 +
 15' |

OWNERSHIP

No coal
 Surface and minerals: K. L. Hileman, et al
 Oxford, W. Va.

Minimum Error of Closure 1 in 200'
 Source of Elevation USGS B.M. at Oxford = 815'

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.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: *[Signature]*
 Squares: N E W

Company CHASE PETROLEUM, INC
 Address Postoffice Box 237, Glenville, W. Va.
 Farm Kenneth L. Hileman, et al
 Tract _____ Acres 22.1 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1073
 Quadrangle Oxford 7 1/2, HOLBROOK 15' NC
 County Reddridge District Southwest
 Engineer [Signature]
 Engineer's Registration No. 1237
 File No. _____ Drawing No. _____
 Date Feb. 15, 1980 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. 017-2610

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500} latitude and longitude lines being represented by border lines as shown.

-- Denotes one inch spaces on border line of original tracing.



RECEIVED

SEP 26 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD ¹⁰

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

Quadrangle Oxford 7.5
Permit No. 47-017-2610

Company Chase Petroleum
Address PO Drawer 369, Glenville, WV 26351
Farm K.L. Hileman, et al Acres 22
Location (waters) Lower Run
Well No. Hileman #1 Elev. 1073
District Southwest County Doddridge
The surface of tract is owned in fee by _____
K. L. Hileman, et al
Address Rt. 1, Box 36, West Union, WV 26456
Mineral rights are owned by K. L. Hileman, et al
Address West Union, WV 26456
Drilling Commenced June 12, 1980
Drilling Completed June 18, 1980
Initial open flow 35,000 cu. ft. 0 bbls.
Final production 575,000 cu. ft. per day 0 bbls.
Well open 10 hrs. before test 1475 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11 3/4	31	31	
9 5/8			
8 5/8 23#	1619	1619	CTS
7			
5 1/2			
4 1/2 10.5#	5244	5244	675 Sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fraced Alexander; 5006-5124; 20 holes; 772 bbls. total fluid; 30,000 # 80/100
60,000 # 20/40
Fraced Riley; 4391-4423; 14 holes; 706 bbls. total fluid; 30,000 # 80/100
60,000 # 20/40

Coal was encountered at No Coal Feet _____ Inches _____
Fresh water 28 Feet _____ Salt Water _____ Feet _____
Producing Sand Alexander, Riley Depth 5006-5124, 4391-4423

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Cond.			G.L.	26		
Sand & Shale			26	40		
Sand			40	90		
Sand & Shale			90	95		
Red Rock			95	100		
Sand & Shale			100	105		
Sand			105	130		
Sand & Shale			130	155		
Sand			155	165		
Sand & Shale			165	190		
Red Rock & Shale			190	198		
Sand & Shale			198	206		
Sand			206	225		
Sand & Shale			225	229		
Sand			229	233		
Sand & Shale			233	247		
Sahle			247	252		
Sand & Shale			252	300		
Red Rock & Shale			300	380		
Sand			380	410		
Sand & Shale			410	485		
Red Rock & Shale			485	517		
Sand & Shale			517	524		
Red Rock			524	533		

OCT 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Lime			533	543		
Shale			543	555		
Sand			555	557		
Red Rock & Shale			557	563		
Sand & Shale			563	568		
Sand			568	572		
Sand & Shale			572	644		
Sand			644	647		
Shale			647	670		
Red Rock & Shale			670	689		
Sand			689	700		
Shale & Red Rock			700	746		
Sand			746	784		
Red Rock			784	787		
Sand & Shale			787	793		
Red Rock			793	803		
Lime			803	809		
Sand & Shale			809	828		
Sand			828	830		
Shale			830	854		
Sand			854	860		
Shale & Red Rock			860	878		
Sand & Shale			878	895		
Shale & Red Rock			895	908		
Sand & Shale			908	940		
Red Rock			940	945		
Shale			945	951		
Sand			951	954		
Sand & Shale			954	980		
Sand			980	1022		
Sand & Shale			1022	1039		
Sand			1039	1060		
Sand & Shale			1060	1120		
Shale			1120	1139		
Sand			1139	1158		
Sand & Shale			1158	1380		
Sand			1380	1418		
Shale			1418	1539		
Sand & Shale			1539	1555		
Shale			1555	1580		
Sand & Shale			1580	1645		
Shale			1645	1672		
Sand & Shale			1672	1686		
Shale			1686	1765		
Sand			1765	1800		
Shale			1800	1810		
Sand			1810	1850		
Shale			1850	1867		
Big Lime			1867	1950		
Sand			1950	1989		
Sand & Shale			1989	2010		
Shale			2010	2054		
Sand & Shale			2054	2206		
Lime			2206	2211		
Sand & Shale			2211	4765		
Brown Shale			4765	4770		
Sand & Shale			4770	4795		
Brown Sand			4795	4800		
Sand & Shale			4800	4822		
Brown Sand			4822	4825		
Sand & Shale			4825	4895		
Brown Sand			4895	4900		
Sand & Shale			4900	5012		
Sand			5012	5085		
Sand, Alexander			5085	5150		
Sand & Shale			5150	5400	TD	

Date September, 22 1980

APPROVED

Alton Kinard

Owner

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1

API Well No. 47-017-2610
State County Permit

WELL TYPE: Oil / Gas

(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1073 Watershed: Lower Run

District: Southwest County: Doddridge Quadrangle: Oxford 7-1/2

WELL OPERATOR Chase Petroleum
Address P.O. Box 297
Glenville, W.Va. 26351

DESIGNATED AGENT Alton Skinner
Address P.O. Box 297
Glenville, W.Va. 26351

OIL & GAS ROYALTY OWNER K.L. Hileman, et.al
Address Rt. 1, Box 236
West Union, W.Va. 26456

COAL OPERATOR None
Address _____

ACREAGE 22.1

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER K. L. Hileman, et.al

Name No coal

Address Rt. 1, Box 236
West Union, W.Va. 26456

Address _____

ACREAGE 22.1

Name _____

FIELD SALE (IF MADE) TO: Uncommitted

Address _____

Address _____

OIL & GAS DIVISION
DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED

COAL LESSEE WITH DECLARATION ON RECORD:

Name Paul Garrett

Name N/A

Address Clarksburg, W.Va. 26301

Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above

location under a deed / lease / other contract / dated Dec 19, 1979.

undersigned well operator from Kenneth N. Hileman et.al

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____

County, West Virginia, in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /

Plug off old formation / Perforate new formation /

Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1015 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3000

Chase Petroleum
Well Operator

BLANKET BOND

By Alton Skinner

As Owner - Agent FEB 20 1980

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.

Address Buckhannon, W.Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well 5450 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 20 feet; salt, 390 feet.

Approximate coal seam depths: No Coal Is coal being mined in the area? Yes / No /


DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	12"				X	30	30		Kinds
Fresh water	12"					30	30		
Coal									Sizes
Intermediate	8-5/8		23	X		1850	1850	CTS	
Production	4-1/2		10.5	X		5420	5420	2250	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 10-27-80.


Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By _____
Its _____