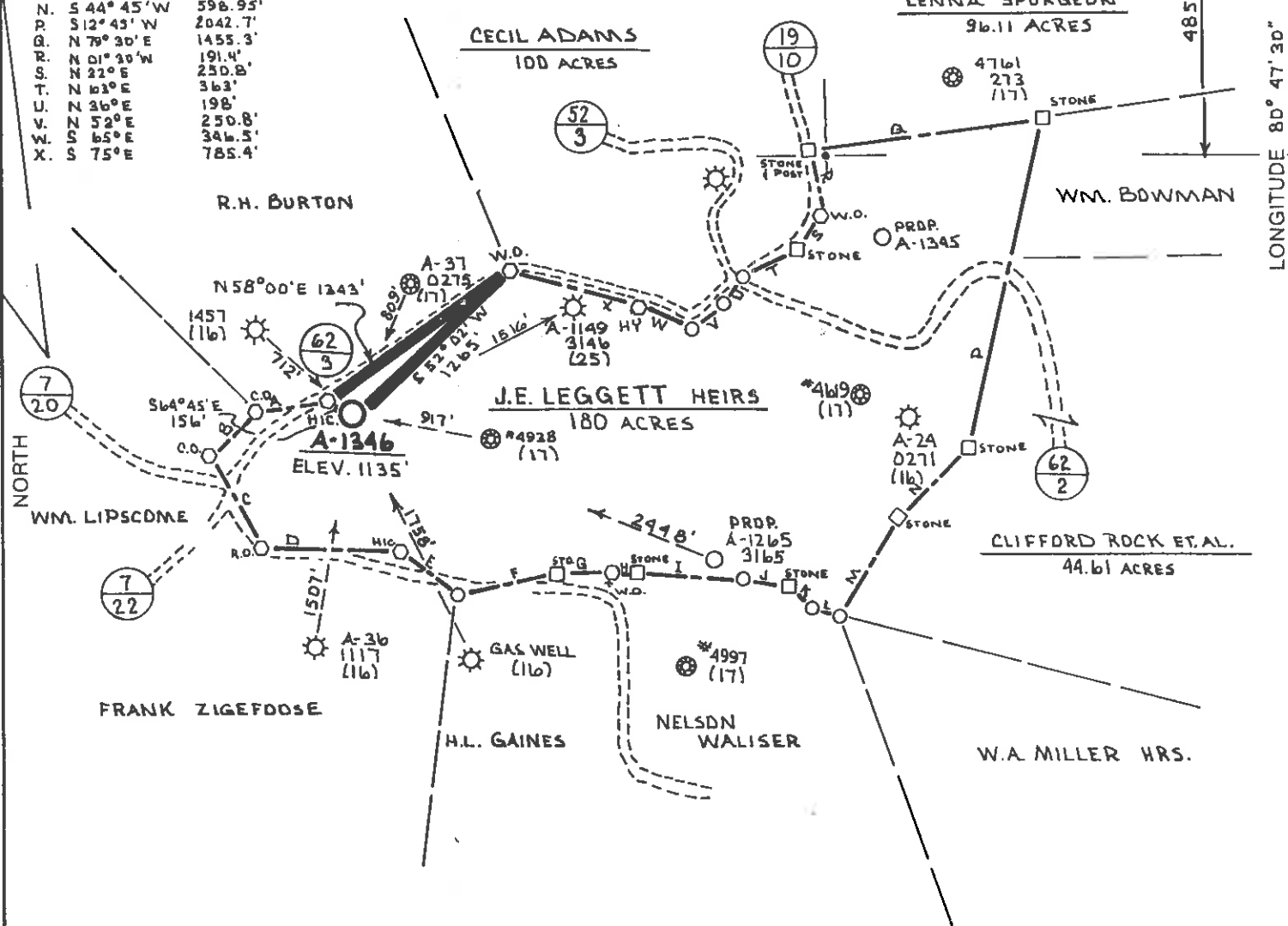


17721 4/418

- A. N 81° 30' E 445.5'
- B. N 45° 30' E 387.75'
- C. N 29° 30' W 640.2'
- D. N 87° 45' W 841.5'
- E. N 54° W 433.95'
- F. S 77° 30' W 620.4'
- G. S 88° 45' W 334.95'
- H. N 84° W 150.15'
- I. N 84° W 641.85'
- J. N 81° 45' W 287.11'
- K. N 47° 30' W 189.75'
- L. N 74° 30' W 165'
- M. S 30° 30' W 701.25'
- N. S 44° 45' W 598.95'
- P. S 12° 45' W 2042.7'
- Q. N 79° 30' E 1455.3'
- R. N 01° 30' W 191.4'
- S. N 21° E 250.8'
- T. N 63° E 363'
- U. N 36° E 198'
- V. N 52° E 250.8'
- W. S 65° E 346.5'
- X. S 75° E 785.4'

LATITUDE 39° 07' 30"
 5700'
 4850'
 LONGITUDE 80° 47' 30"



WELL REFERENCES
 N 76° 32' W 125' TO A 3" HIC.
 N 76° 49' W 193' TO A 20" W.D.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. <u>RM. / V.S.</u> DRAWING NO. _____ SCALE <u>1" = 1000'</u> MINIMUM DEGREE OF ACCURACY <u>1:200'</u> PROVEN SOURCE OF ELEVATION <u>ALAMCO A-1149</u> <u>ELEV. 1110' API# 3146</u>	I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES. (SIGNED) <u>Cecil R. Main</u> R.P.E. _____ L.L.S. <u>711</u>	 PLACE SEAL HERE
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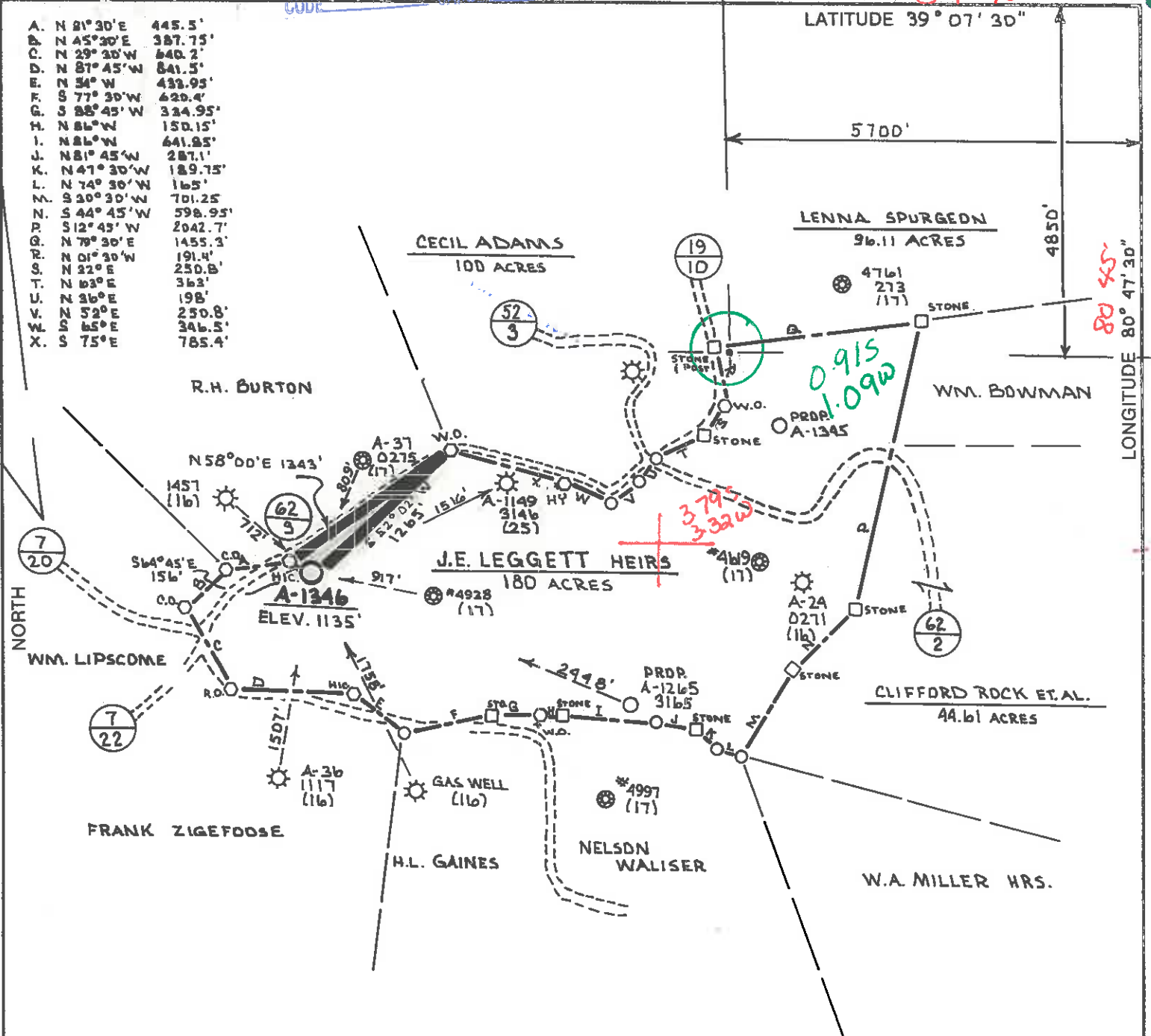
STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION	DATE <u>2-14</u> , 19 <u>85</u> OPERATOR'S WELL NO. <u>A-1346</u> API WELL NO. _____
WELL TYPE: OIL ___ GAS <u>X</u> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS,") PRODUCTION <u>X</u> STORAGE ___ DEEP ___ SHALLOW <u>X</u>	
LOCATION: ELEVATION <u>1135'</u> WATERSHED <u>BEAR FORK</u> DISTRICT <u>SOUTH WEST</u> COUNTY <u>DODDRIDGE</u> QUADRANGLE <u>AUBURN 7.5'</u>	
SURFACE OWNER <u>NINA CZIGANS HEIRS</u> ACREAGE <u>78.2</u> OIL & GAS ROYALTY OWNER <u>J.E. LEGGETT HEIRS</u> LEASE ACREAGE <u>180</u> LEASE NO. <u>164</u>	
PROPOSED WORK: DRILL <u>X</u> CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION <u>X</u> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____	
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ TARGET FORMATION <u>BROWN SHALE</u> ESTIMATED DEPTH <u>5980'</u> WELL OPERATOR <u>ALAMCO</u> DESIGNATED AGENT <u>DANIEL L. WHEELER</u> ADDRESS <u>PO BOX 1740, CLARKSBURG, WV 26302-1740</u> ADDRESS <u>PO BOX 1740, CLARKSBURG, WV 26302-1740</u>	

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT

JUN 08 1987

- A. N 21° 30' E 445.5'
- B. N 45° 30' E 387.75'
- C. N 29° 30' W 840.2'
- D. N 87° 45' W 841.5'
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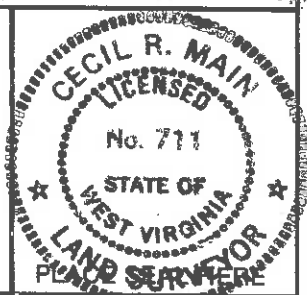
WELL REFERENCES

N 76° 32' W 125' TO A 3\" HIC.
 N 76° 49' W 193' TO A 20\" W.D.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. RM. / V.S.
 DRAWING NO. _____
 SCALE 1\" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION ALAMCO A-1149
ELEV. 1110' API# 3146

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 2-14, 1985
 OPERATOR'S WELL NO. A-1346
 API WELL NO. 47-017-3427
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1135' WATER SHED BEAR FORK
 DISTRICT SOUTH WEST 7 COUNTY BOYD
 QUADRANGLE AUBURN 7.5' 334 Holbrook 15' EC 25'

SURFACE OWNER NINA CZIGANS HEIRS ACREAGE 78.2
 OIL & GAS ROYALTY OWNER J.E. LEGGETT HEIRS LEASE ACREAGE 180
 LEASE NO. 164

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 5980'
 WELL OPERATOR ALAMCO OIO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS PO BOX 1740, CLARKSBURG, WV 26302-1740 ADDRESS PO BOX 1740, CLARKSBURG, WV 26302-1740

APR 15 1985

FORM IV-6 (8-78)
H.T. HALL

COUNTY NAME
PERMIT



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X
 B (If "Gas", Production _____) Underground storage _____ / Deep _____ / Shallow X)
- 5) LOCATION: Elevation: 1135' Watershed: Bear Fork
 District: Southwest County: Doddridge Quadrangle: Auburn 7.5'
- 6) WELL OPERATOR Alamco, Inc. 7) DESIGNATED AGENT Marty L. Perri
 Address P. O. Box 1740 Address P. O. Box 1740
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Mike Underwood
 Name Mike Underwood Address P. O. Box 1740
 Address Route 2, Box 114 Clarksburg, WV 26301
Salem, WV 26426
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) Brown Shale
- 11) GEOLOGICAL TARGET FORMATION, 5980' feet
 12) Estimated depth of completed well, 350' feet
 13) Approximate strata depths: Fresh, None reported feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No X

RECEIVED
 MAR 19 1985

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	Grade	SPECIFICATIONS Weight per ft.	New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR BACK-SHOTS (Cubic feet)	PACKERS
						For drilling	Left in well		
Conductor	11-3/4"				X	20'	20'	Cement to surface	
Fresh water						250'-1200'			
Coal						380'-1235'	380'-1235'	Cement to surface	CTS by rule 15.05
Intermediate	8-5/8"		20#	X		1300'	1300'	Cement to surface	Depth 0.1
Production	4-1/2"		10:50#	X		5980'	5980'	Req. by Rule 15.01	
Tubing									Perforations:
Liners									Top: Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3427 Date April 9, 1985

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires April 9, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>4</u>	<u>SW</u>	<u>MAP</u>	<u>MKL</u>	<u>1784</u>

Margaret J. Hass
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.