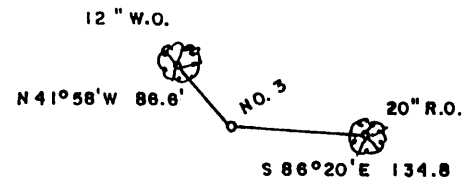


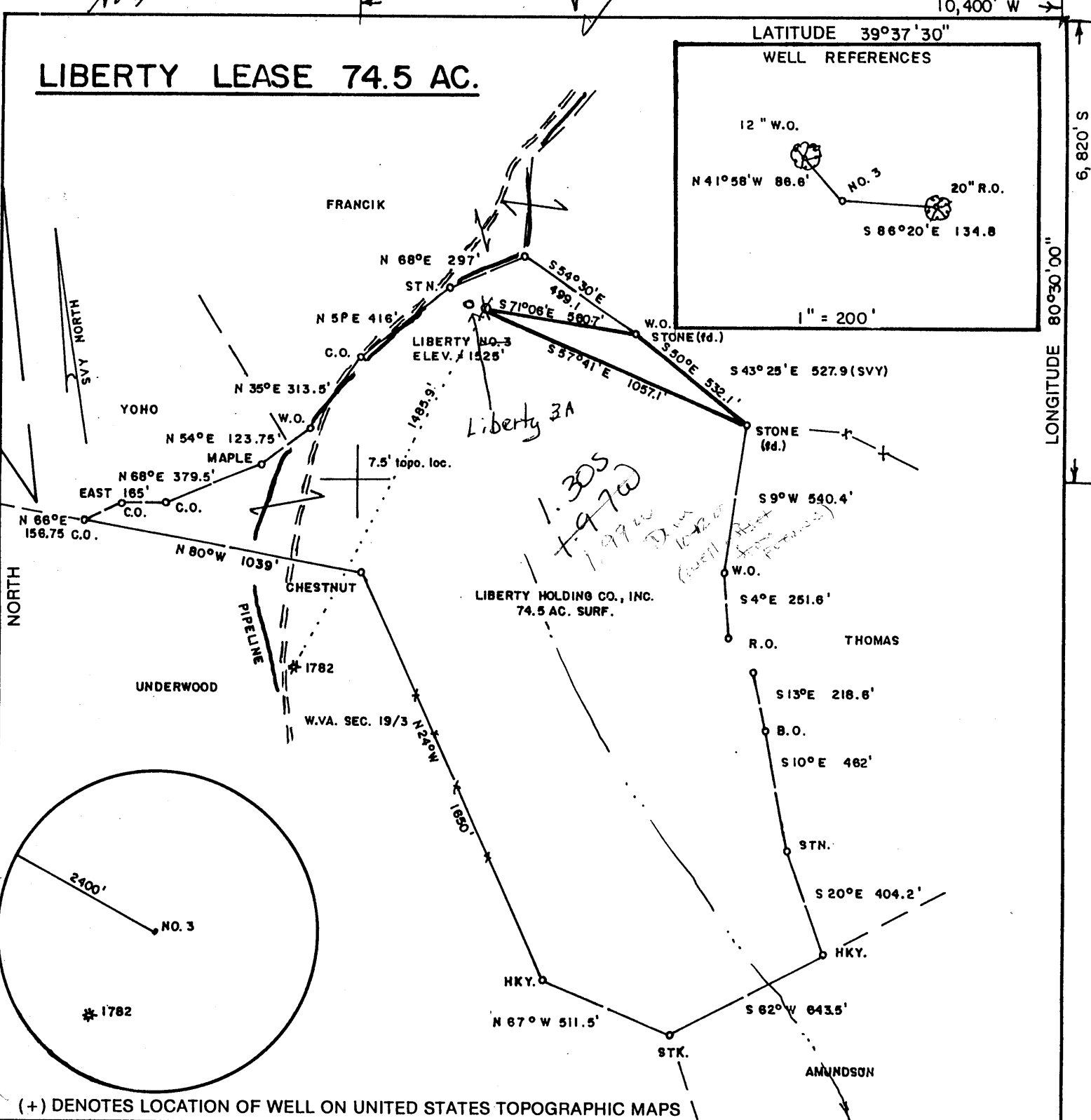
# LIBERTY LEASE 74.5 AC.

10,400' W

LATITUDE 39°37'30"  
WELL REFERENCES



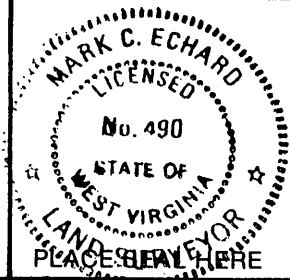
1" = 200'



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION BM SW of LEASE  
 ELEV. = 1387'

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 ENERGY.  
 (SIGNED) Mark C. Echard  
 R.P.E. \_\_\_\_\_ L.L.S. 490



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE NOVEMBER 15, 1999  
 OPERATOR'S WELL NO. LIBERTY NO. 3A  
 API WELL NO. 47-103-01799  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1525' WATERSHED WILLEY FORK  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE BIG RUN 7.5'

SURFACE OWNER LIBERTY HOLDING CO., INC. ACREAGE 74.5  
 OIL & GAS ROYALTY OWNER LIBERTY HOLDING CO., INC. LEASE ACREAGE 74.5  
 LEASE NO. \_\_\_\_\_

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 SPEECHLEY ESTIMATED DEPTH 3900'  
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, WV 26320 ALMA, WV 26320

DEC 27 1999

S. 6,820', 00°06'08" LONGITUDE

WET COUNTY NAME

1799 PERMIT

6-6-95

WR-35

API# -47-103-01799

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed K

Office of Oil & Gas  
Permitting  
JAN 14 2000  
WV Division of  
Environmental Protection

Well Operator's Report of Well Work

Farm Name: Liberty Holding  
Location: Elevation: 1525'  
District: Grant  
Latitude: 4500 Feet South of  
Longitude: 10400 Feet West of  
Operators Well No.: Liberty #3-A  
Quadrangle: Big Run 7.5'  
County: Wetzel  
39 Deg. 37 min. 30sec.  
80 Deg. 30 min. 00sec.

Company: D.A.C.  
P. O. 99  
Alma, WV 26320  
casing used in left cement  
tubing drilling in well fill up sks

Agent: Kenneth Mason  
Inspector: Randall Mick  
Permit Issued: 08/03/99  
Well Work Commenced: 12/16/99  
Well Work Completed: 12/23/99  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3617'  
Fresh Water Depths (ft) 2212'  
Salt Water Depths (ft) N/A  
Is coal being mined in area (Y/N) N  
Coal Depths (ft): 1205'  
9 5/8 250 220 68  
6 5/8 2094 2054 180  
4 1/2 3617 3569 175

OPEN FLOW DATA

Producing formation Gordon-4th Pay zone depth (ft) 3348-3470  
Gas: Initial open flow 850 MCF/D Oil: Initial open flow 0 BBL/D  
Final open flow 607 MCF/D Final open Flow show BBL/D  
Static Rock Pressure 225 psig (surface pressure) after 48 Hours

Second producing formation 50' Pay zone depth (ft) 3104-3112  
Gas: Initial open flow \* MCF/D Oil: Initial open flow 0 BBL/D  
Final open flow \* MCF/D Final open flow 0 BBL/D  
static rock pressure \* psig (surface pressure) after \* Hours

\* = commingled zones

For: D.A.C.

By: Kenneth R. Mason

Date: 01-05-00

FEB 18 2000

WET 1799

Stage	Formation	Perfs	Sand	N2
12-30-99	Liberty #3-A			
1	4th, Gordon	3349-3470 16 holes	195 sks	215,000 scf
2	50'	3104-3112 16 holes	256 sks	225,000 scf

ISIP = 2573#  
5 min = 2276#

#### Drillers Log

Formation	Top	Bottom
Fill	0	10
Sh	10	120
Sd/Sh	120	225
RR	225	243
Sd/Sh	243	494
Sd	494	510
Sd/S	510	1165
Lim	1165	1205
Coal	1205	1209
Sd/Sh	1209	1960
Sd	1960	2010
Sd/Sh	2010	2452
RR	2452	2480
Sd/Sh	2480	2499
BL	2499	2565
Sd	2565	2630
Sh	2630	3328
Sd	3328	3418
Sh	3418	3629
Td	3629	

damp @ 83'

3" fresh water @ 2212'

2" fresh water @ 2332'

gas ck @ Td = 20/10 in 2" w/w

#### Electric Log Tops

Formation	Depth top
Big Lime	2512
Big Injun	2534
Berea	2898
Gordon	3328
4th	3420