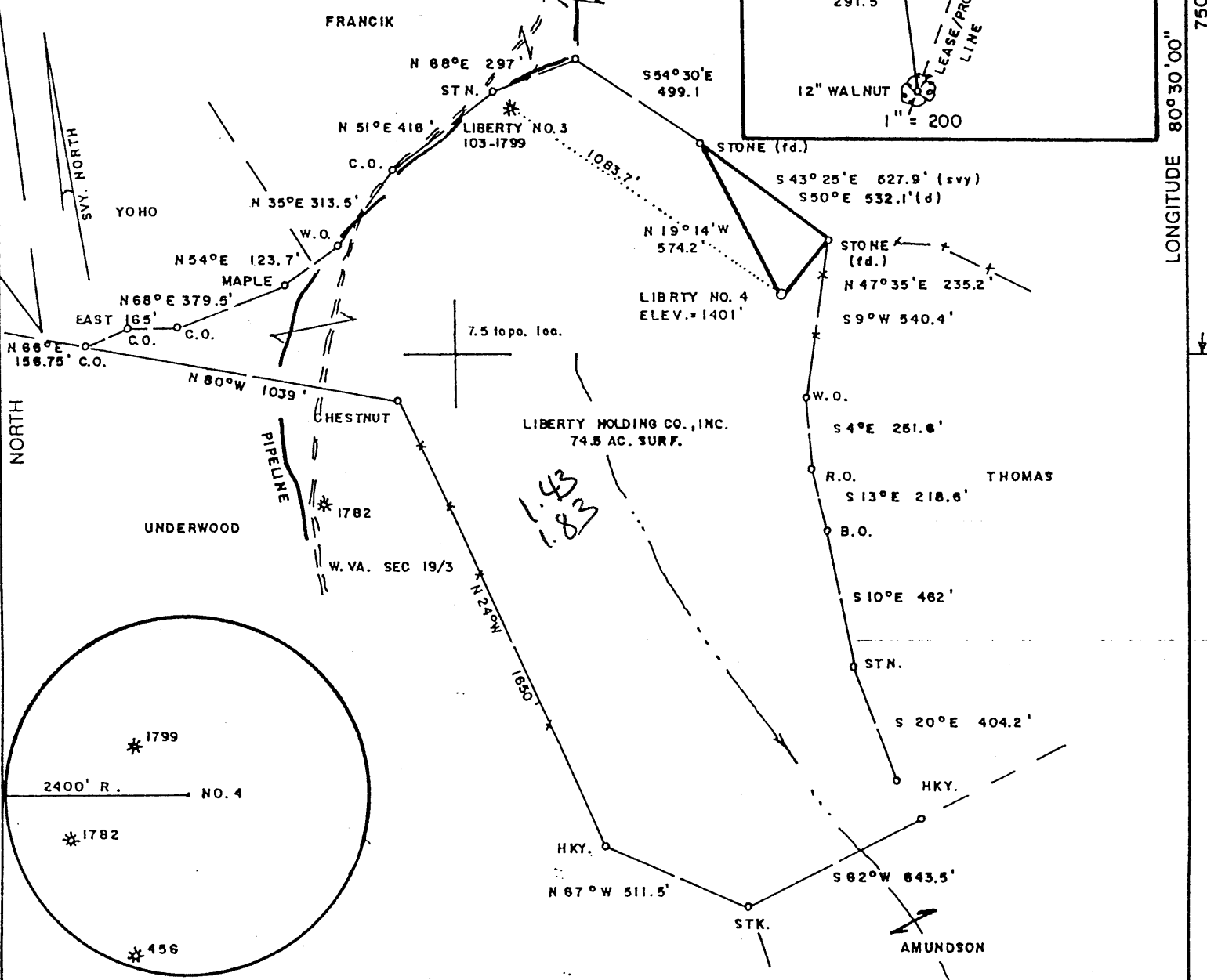
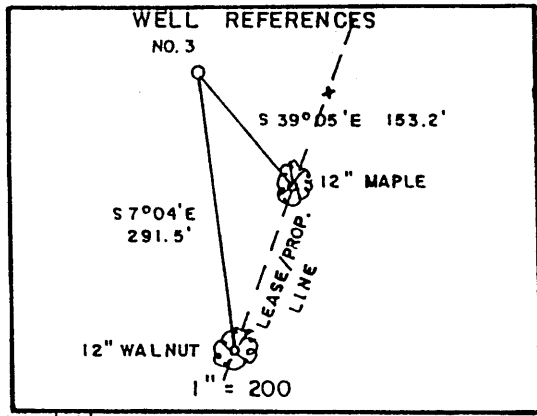


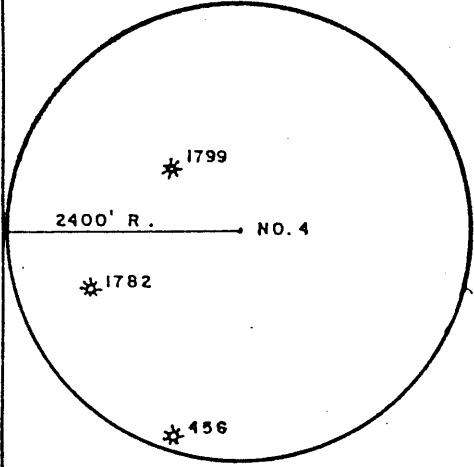
# LIBERTY LEASE 74.5 AC.

9650' W

LATITUDE 39°37'30"



S 0052  
"00,0E,08  
LONGITUDE



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

MARY C. ECHARD  
 REGISTERED PROFESSIONAL SURVEYOR  
 No. 496  
 WEST VIRGINIA  
 PLACE SEAL HERE

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

DATE MAY 8, 2000  
 OPERATOR'S WELL NO. LIBERTY NO. 4  
 API WELL NO. 47-103-01802  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1401' 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 ALMA, WV 26320 ADDRESS P.O. BOX 99 ALMA, WV 26320 MAY 19 2000

COUNTY NAME WET  
 PERMIT 1802

6-6 45

WR-35

RECEIVED  
Office of Oil & Gas  
Permitting

JUL 12 2000

WV Division of  
Environmental Protection

API# -47-103-01802

State of West Virginia  
Division of Environmental Protection  
Section of Oil and GasReviewed \_\_\_\_\_  
\_\_\_\_\_

## Well Operator's Report of Well Work

Farm Name: Liberty Operators Well No.: Liberty #4  
 Location: Elevation: 1401' Quadrangle: Big Run 7.5'  
 District: Grant County: Wetzel  
 Latitude: 7500 Feet South of 39 Deg. 37 min. 30sec.  
 Longitude: 9650 Feet West of 80 Deg. 30 min. 00sec.

Company: D.A.C.

P. O. 99

Alma WV 26320

casing tubing	used in drilling	left in well	cement fill up sks
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Agent: Kenneth Mason

09 5/8	250	211	88 sks
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Inspector: Randall Mick

Permit Issued: 05/16/00

6 5/8	2350	1728	150 sks
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Well Work Commenced: 06/05/00

Well Work Completed: 06/12/00

4 1/2	3594	3477	140 sks
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Rotary  Cable \_\_\_\_\_ Rig

Total Depth (feet) 3594'

Fresh Water Depths (ft) N/A'

Salt Water Depths (ft) 1960'

Is coal being mined in area (Y/N) N

Coal Depths (ft): 1544'

## OPEN FLOW DATA

Producing formation GordonPay zone depth (ft) 3232-3378Gas: Initial open flow 23 MCF/DOil: Initial open flow 0 BBL/D

Final open flow \_\_\_\_\_ MCF/D

Final open Flow show BBL/D

Static Rock Pressure \_\_\_\_\_

psig (surface pressure) after 48 HoursSecond producing formation 50'Pay zone depth (ft) 2970-2976Gas: Initial open flow \* MCF/DOil: Initial open flow 0 BBL/DFinal open flow \* MCF/DFinal open flow 0 BBL/Dstatic rock pressure \*psig (surface pressure) after \* Hours

\* = commingled zones

For: D.A.C.

By: Randall Mick

Date: 06-20-00

AUG 04 2000

WET 1802

Stage	Formation	Perfs	Sand	N2
06-19-00	Liberty #4			
1	Gordon 4th	2978-3381 18 holes	350 sks	341,000 scf

ISIP = 2326#  
5 min = 1228#

#### Drillers Log

Formation	Top	Bottom	
Fill	0	14	
Sd	14	239	
RR	239	243	damp 315'
Sd/Sh	243	410	
Sd	410	685	
Sd/Sh	685	1176	
Coal	1176	1179	
Sd/Sh	1179	1544	
Coal	1544	1550	
Sd/Sh	1550	2390	damp 1960
BL	2390	2468	
Sd	2468	2494	
Sd/Sh	2494	3005	gas ck @ 2558 = 10/10 in 1" w/w
Sd	3005	3023	gas ck @ Td = 05/10 in 1" w/w
Sd/Sh	3023	3594	
Td	3594		

#### Electric Log Tops

Formation	Depth top
Big Lime	2380
Big Injun	2454
Berea	2753
Gordon	3186
4th	3280