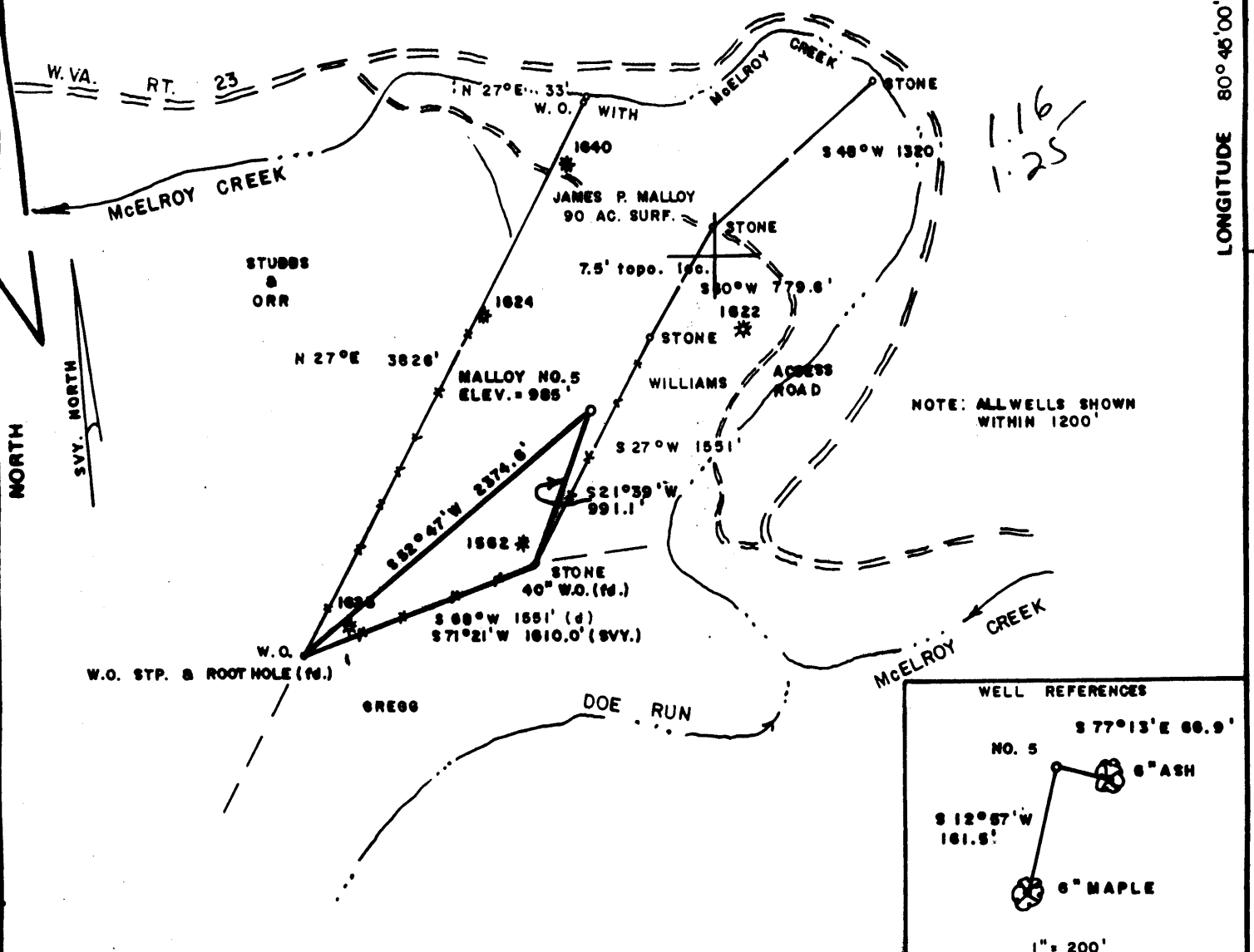


MALLOY LEASE 90 AC. ±

LATITUDE 39°25'00"

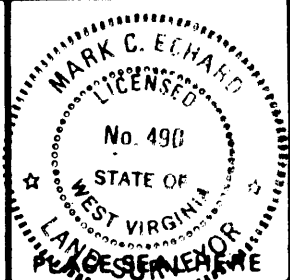
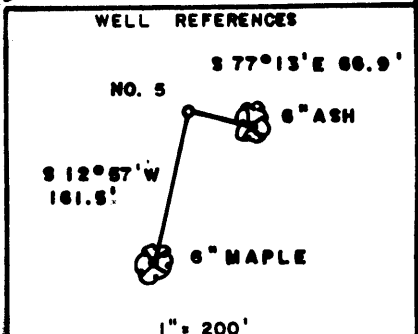
LONGITUDE 80°45'00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. NORTH OF LOG. ELEV. = 737'

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JULY 29, 19 97
 OPERATOR'S WELL NO. MALLOY NO. 5
 API WELL NO. 47 - 095 - 01684
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 985' WATER SHED McELROY CREEK
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER JAMES P. MALLOY ACREAGE 90
 OIL & GAS ROYALTY OWNER JAMES P. MALLOY, ET AL LEASE ACREAGE 90
 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) 6-6 92
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDON ESTIMATED DEPTH 2900'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, W.VA. 26320 ADDRESS P.O. BOX 99 ALMA, W.VA. 26320

AUG 15 1997

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

Well Operator's Report of Well Work

Farm Name: James P. Malloy, ET AL
Location: Elevation: 985'
District: McElroy
Latitude: 6000 Feet South of
Longitude: 6610 Feet West of

Operators Well No.: Malloy #5
Quadrangle: Shirley 7.5'
County: Tyler
39 Deg. 25min. 30sec.
80 Deg. 45 min. 00sec.

Company: Drilling Appalachian Corp
P. O. Box 99
Alma, WV 26320

Agent: Kenneth Mason

Inspector: Mike Underwood
Permit Issued: 08/15/97
Well Work Commenced: 08/18/97
Well Work Completed: 07/23/97
Rotary X Cable _____ Rig
Total Depth (feet) 2200'
Fresh Water Depths (ft) 80'
Salt Water Depths (ft) 1600
Is coal being mined in area (Y/N) N
Coal Depths (ft): N/A

casing tubing	used in drilling	left in well	cement fill up sks
9 5/8	155	133	50
6 5/8	1858	1769	290
4 1/2			

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Environmental Protection
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Office of Oil & Gas

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1942-1952
Gas: Initial open flow 900 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 900 MCF/D Final open flow show BBL/D
Static Rock Pressure 150 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
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

For: Drilling Appalachian Corp.

By: Kenneth R. Mason

Date: 08-28-97

SEP 03 1997

Stage	Formation	Perfs	Sand	N2
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08-23-97	Malloy #5			
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Well completed as a "natural"
 No casing or Electric logs ran

Drillers Log

Formation	Top	Bottom
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fill	0	5
Sd/Sh	5	105
Sd	105	110
Sh	110	210
Sd/Sh	210	579
Sd	579	655
Sd/Sh	655	714
Coal	714	717
Sd/Sh	717	1110
Sd	1110	1142
Sd/Sh	1142	1835
Lime	1835	1850
Sh	1850	1881
Lime	1881	1942
Sd	1942	2030
Sh	2030	2200
Td	2200	

hole damp @ 80

hole wet @ 1600

gas ck @ 1960 = 421 mcfs
 gas ck @ 1990 = 900 mcfs
 gas ck @ 2055 = 900 mcfs
 gas ck @ TD = 900 mcfs

Electric Log Tops

Formation	Depth top
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