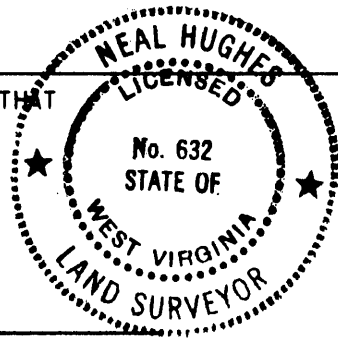
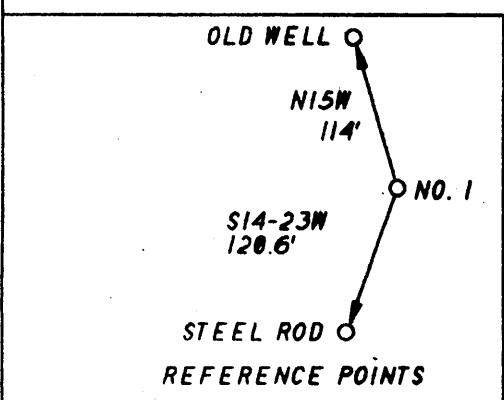
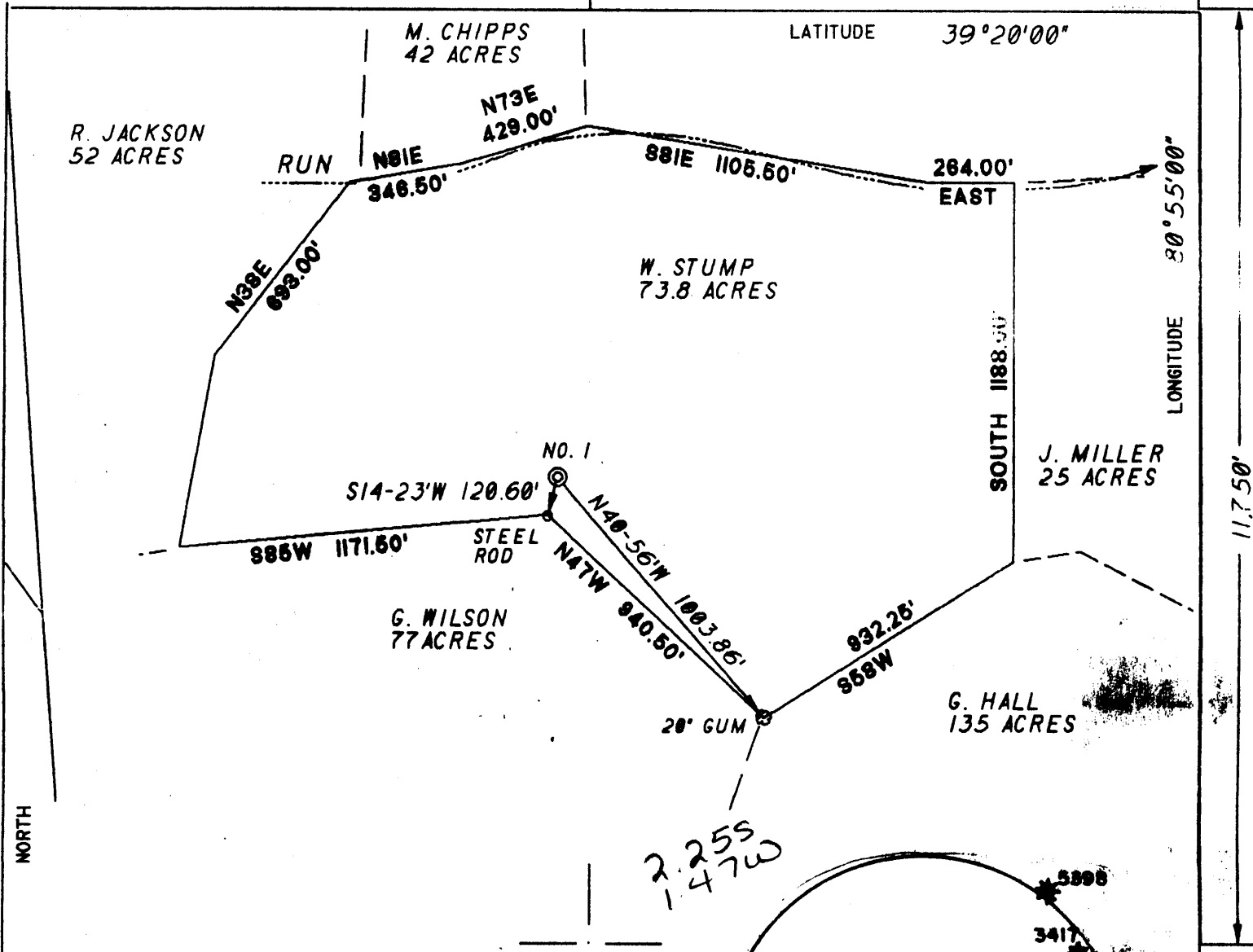


7,750'



I THE UNDERSIGNED, DO 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.

L.L.S. Neal Hughes
632

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

DATE SEPT. 16, 19 94

OPERATORS WELL NO. M.H. JONES I

API WELL NO. 47 - 085 - 838 I
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-67
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1205' SCALE 1"=500'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1200' WATERSHED BUNNELLS RUN
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO Wv

SURFACE OWNER BELVA STUMP ACREAGE 73.8 SW
ROYALTY OWNER M. H. JONES, HRS. LEASE ACREAGE 73.9

PROPOSED WORK:
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
ESTIMATED DEPTH 5400'

WELL OPERATOR KEY OIL CO. 475 DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

RITCHIE

6-6-90

DEC 06 1994

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

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: STUMP, BELVA E. Operator Well No.: M.H. JONES #1

LOCATION: Elevation: 1,200.00 Quadrangle: PENNSBORO

District: CLAY County: RITCHIE
 Latitude: 11750 Feet South of 39 Deg. 20Min. 0 Sec.
 Longitude 7750 Feet West of 80 Deg. 55 Min. 0 Sec.

Company: KEY OIL COMPANY
 22 GARTON PLAZA
 WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: SAM HERSMAN
 Permit Issued: 10/04/94
 Well work Commenced: 11-2-94
 Well work Completed: 11-9-94
 Verbal Plugging _____
 Permission granted on: _____
 Rotary Cable _____ Rig _____
 Total Depth (feet) 5469'
 Fresh water depths (ft) -0-
 Salt water depths (ft) -0-

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): NONE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	132	132	70 sks. to surface
8 5/8	1807	1807	485 sks. to surface
4 1/2		5410	260 sks.
1.5		5290	

OPEN FLOW DATA
 Riley 4674-4700
 3rd Riley 4890-4898
 Benson 5040-5048
 Producing formation Alexander Pay zone depth (ft) 5322-5336
 Gas: Initial open flow 127 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 671 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 1500 psig (surface pressure) after 48 Hours
 Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY
 By: Jan Chapman President
 Date: December 4, 1994

M. H. JONES #1 (47-085-8381)
 3 STAGE FOAM FRAC - HALLIBURTON

Stage 1: Alexander (10 holes) 5324.75'-5332.25' 60 Quality Foam, 500 gal. 15% HCl, 30,000 lbs. 20-40 sand, 354,000 SCF N₂, 526 bbls. foam

Stage 2: Benson (7 holes) 5042.25'-5043.75' 75 Quality Foam, 750 gal. 15% HCl, 3rd Riley (3 holes) 4891.5'-4895.50' 40,000 lbs. 20-40 sand, 491,000 SCF N₂, 617 bbls. foam

Stage 3: Riley (10 holes) 4678.50'-4696.50' 60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 40,000 lbs. 20-40 sand, 525,000 SCF N₂, 709 bbls. foam

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Fill	0	5	No water reported on drillers log.
Shale and Red Rock	5	50	
Sand	50	80	<u>Gas Checks:</u> 1900 N/S 2073 N/S 2511 2/10 thru 2" w/water 3011 9/10 thru 2" w/water 3509 8/10 thru 2" w/water 4006 8/10 thru 2" w/water 4599 8/10 thru 2" w/water 4800 8/10 thru 2" w/water 5128 8/10 thru 2" w/water Gas at T.D. 8/10 thru 2" w/water
Sand and Shale	80	90	
Sand	90	115	
Shale and Red Rock	115	123	
Sand and Shale	123	232	
Red Rock	232	264	
Sand and Shale	264	295	
Sand, Shale, and Red Rock	295	510	
Sand and Shale	510	636	
Red Rock and Shale	636	725	
Sand and Shale	725	945	
Sand and Shale	945	955	
Red Rock	955	962	
Sand, Shale and Red Rock	962	1075	
Sand and Shale	1075	1138	
Red Rock	1138	1165	
Sand, Shale and Red Rock	1165	1316	
Sand and Shale	1315	1465	
Sand	1465	1955	
Little Lime	1955	1985	
Big Lime	1985	2156	
Big Injun	2156	2212	
Sand and Shale	2212	4674	
Riley	4674	4700	
Sand and Shale	4700	4890	
3rd Riley	4890	4898	
Sand and Shale	4898	5040	
Benson	5040	5048	
Sand and Shale	5048	5322	
Alexander	5322	5336	
Shale	5336	5469 T. D.	