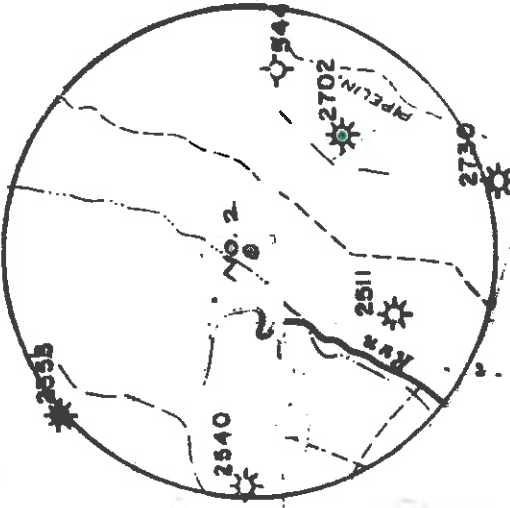
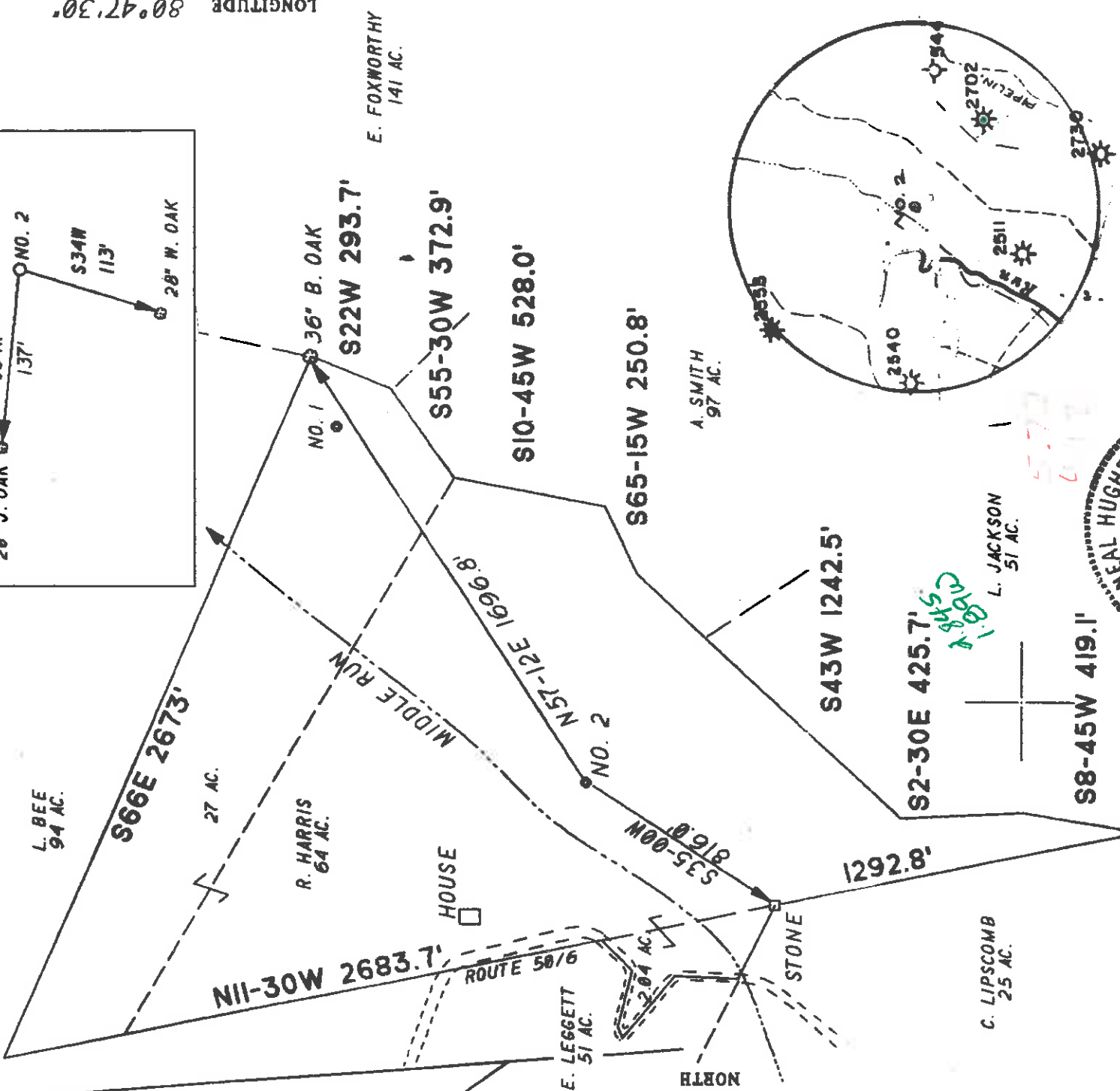
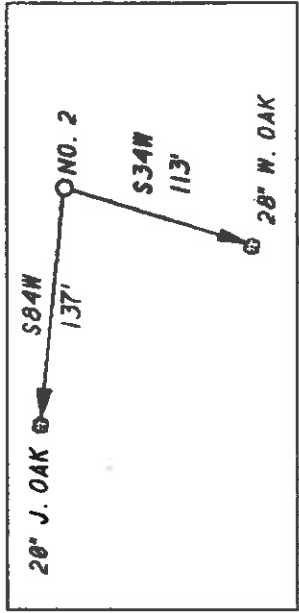


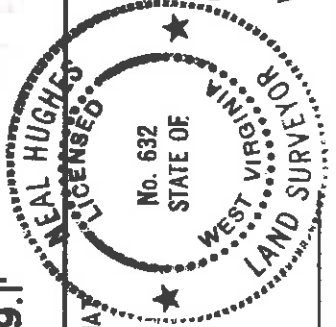
9.910' 14.825'

LATITUDE 39°17'30"

LONGITUDE 80°47'30"



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.



(*) INDICATES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE OCTOBER 13, 19 94
 OPERATORS WELL NO. BEE 2 REVISED
 API WELL NO. 47-017-4169

L.I.S. *Neal Hughes*
 632

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-74 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION
 PROVEN SOURCE OF ELEVATION KNOB 1145' SCALE 1" = 500'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 955' WATERSHED MIDDLE RUN
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 415
 SURFACE OWNER ROBERT HARRIS ACREAGE 64
 ROYALTY OWNER LIVINGSTON BEE, ET AL LEASE ACREAGE 91
 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'

COUNTY NAME WEST UNION PERMIT 415
 WELL OPERATOR KEY OIL CO. DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA

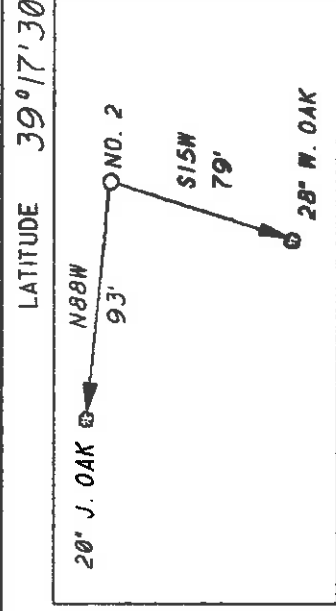
FORM WW 6

LATITUDE 39°17'30"

9.950'

LONGITUDE 80°47'30"

14.825'



E. FOXWORTHY
141 AC.

L. BEE
94 AC.

S6°E 2673'

27 AC.

R. HARRIS
64 AC.

N11-30W 2683.7'

ROUTE 50/6

E. LEGGETT
51 AC.

HOUSE

MIDDLE RUN

NO. 1

36' B. OAK

S22W 293.7'

S55-30W 372.9'

S10-45W 528.0'

S65-15W 250.8'

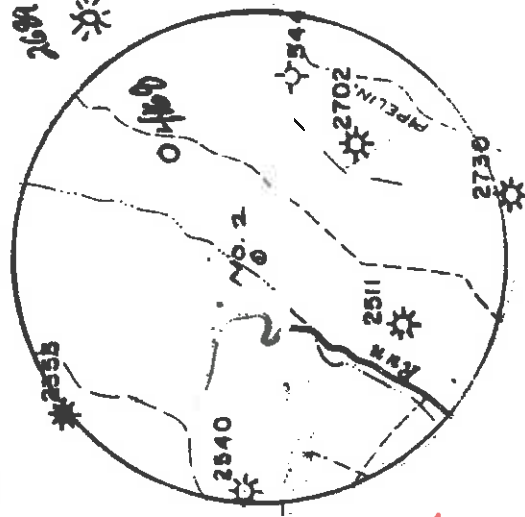
A. SMITH
97 AC.

S43W 1242.5'

S2-30E 425.7'

C. LIPSCOMB
25 AC.

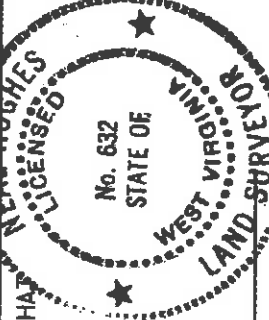
S8-45W 419.1'



5.72
4.12

L. JACKSON
51 AC.

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.



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

DATE OCTOBER 13 19 94
OPERATORS WELL NO. BEE 2

L.L.S. Neal Hughes
632

API WELL NO. 47 - 017 - 4169
STATE VA COUNTY WV PERMIT 4169

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-74
PROVEN SOURCE OF ELEVATION KNOB 1145' SCALE 1" = 500'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 'GAS' PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 960' WATERSHED MIDDLE RUN

DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION #15
SURFACE OWNER ROBERT HARRIS ACREAGE 64 SE
ROYALTY OWNER LIVINGSTON BEE, ET AL LEASE ACREAGE 91

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) ALEXANDER TARGET FORMATION ALEXANDER

WELL OPERATOR KEY OIL CO. 475 DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA
ESTIMATED DEPTH 5400'

COUNTY NAME _____ PERMIT _____



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

DEC 29 1994

Well Operator's Report of Well Work

~~Far Remarks:~~ SIMPSON, ROBERT & MARVIN Operator Well No.: BEE 2-REV.
Office of Oil & Gas

LOCATION: Elevation: 955.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 14825 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 9910 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: KEY OIL COMPANY

22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 12/12/94
Well work Commenced: 11/30/94
Well work Completed: 12/8/94
Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____ 5423
Total Depth (feet) _____ 13'
Fresh water depths (ft) _____

Salt water depths (ft) 952', 1466'

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

OPEN FLOW DATA

Balltown
Riley
Benson
Alexander

Producing formation _____
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1501 MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1500 psig (surface pressure) after 72 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 28, 1994

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	1408	1408	380 sks. to surface
4 1/2		5241	410 sks.
1-5		5133	

3816-3886
4421-4448
4852-4858

Pay zone depth (ft) 5136-5190
Bbl/d
Bbl/d
Hours
Hours

Pay zone depth (ft) _____
Bbl/d
Bbl/d
Hours
Hours

4446 105

Bee #2 (47-017-4169)
4 Stage Foam Frac - Halliburton

Stage 1: Alexander (12 holes) (5141'-5170.5') 60 Quality Foam, 500 gal. 15% HCl, 50,000 lbs. 20-40 sand, 440,000 SCF N₂, 714 bbls. Foam.

Stage 2: Benson (10 holes) (4854'-4856.25') 75 Quality Foam, 750 gal. 15% HCl, 25,000 lbs. 20-40 sand, 390,000 SCF N₂, 471 bbls. Foam.

Stage 3: Riley (10 holes) (4422.5'-4440.5') 60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 508,000 SCF N₂, 610 bbls. Foam.

Stage 4: Balltown (10 holes) (3819.75'-3871') 60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 20,000 lbs. 20-40 sand, 385,000 SCF N₂, 507 bbls. Foam.

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Shale	0	13	
Sand and shale	13	150	1/2" stream H ₂ O at 13'
Sand	150	160	Hoie damp at 925'
Red rock	160	177	2" stream H ₂ O at 1466'
Sand and shale	177	190	
Red rock	190	200	
Sand and shale	200	274	
Red rock	274	280	
Sand and shale	280	321	1903 N/S
Red rock	321	357	2496 N/S
Sand and shale	357	361	3059 N/S
Red rock	361	582	3425 N/S
Sand and shale	582	1038	3940 N/S
Sand	1038	1400	4302 N/S
Sand and shale	1400	1657	4614 N/S
Sand	1657	1672	4926 N/S
Sand and shale	1672	1820	5423 N/S
Little Time	1820	1840	
Big Time	1840	1972	
Big Injun	1972	2014	
Sand and shale	2014	3816	
Balltown	3816	3886	
Sand and shale	3886	4421	
Riley	4421	4448	
Sand and shale	4448	4852	
Benson	4852	4858	
Sand and shale	4858	5136	
Alexander	5136	5190	
Shale	5190	5423	T.D.

Gas Checks: