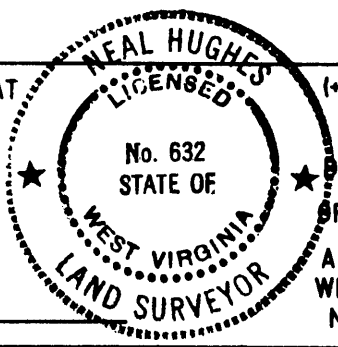


I THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE DEC. 23, 19 94
 OPERATORS WELL NO. BEE 5
 API WELL NO. 47 - 017 - 4180
 STATE COUNTY PERMIT

L.L.S. 632
Neal Hughes

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-74
 PROVEN SOURCE OF ELEVATION KNOB 1145' SCALE 1"=1000'

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 925' WATERSHED MIDDLE RUN
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION SE
 SURFACE OWNER LIVINGSTONE S. BEE ACREAGE 49
 ROYALTY OWNER LIVINGSTON BEE, ET AL LEASE ACREAGE 356.5
 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

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

FEB 14 1995

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: Livingston S. Bee Operator Well No.: Bee #5

LOCATION: Elevation: 925.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
 Latitude: 10050 Feet South of 39 Deg. 17Min. 30 Sec.
 Longitude 7650 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: 12/30/94
 Well work Commenced: 1-11-95
 Well work Completed: 1-17-95
 Verbal Plugging
 Permission granted on:
 Rotary X Cable Rig
 Total Depth (feet) 5254'
 Fresh water depths (ft) 52', 510'
 Salt water depths (ft) -0-

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): -0-

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	1543	1543	410 sks. to surface
4 1/2		5194	410 sks.
1.5		5056	

OPEN FLOW DATA

Riley 4384-4422
 Benson 4814-4822
 Producing formation Alexander Pay zone depth (ft) 5064-5158
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1,007 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 1650 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: February 7, 1995

BEE #5 47-017-4180
3 STAGE FOAM FRAC - HALLIBURTON

STAGE 1: ALEXANDER (13 HOLES) (5087'-5150') 60 QUALITY FOAM, 500 GAL. 15% HCL, 60,000 LBS. 20-40 SAND, 490,000 SCF N₂, 808 BBLs. FOAM

STAGE 2: BENSON (10 HOLES) (4817'-4819.25') 75 QUALITY FOAM, 750 GAL. 15% HCL, 30,000 LBS. 20-40 SAND, 423,000 SCF N₂, 518 BBLs. FOAM

STAGE 3: RILEY (10 HOLES) (4388.75'-4404.5') 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

WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
FILL	0	10	1/2" STREAM H ₂ O @ 52'
SAND	10	50	3/4" STREAM H ₂ O @ 510'
SHALE	50	117	
SAND	117	156	
SAND AND SHALE	156	298	
RED ROCK	298	308	
SAND AND SHALE	308	324	
SHALE	324	695	
RED ROCK AND SHALE	695	735	
SHALE	735	890	
RED ROCK	890	914	
SAND AND SHALE	914	1772	
SAND AND SHALE	1772	1794	
LITTLE LIME	1794	1822	
PENCIL CAVE	1822	1836	
BIG LIME	1836	1937	
BIG INJUN	1937	1974	
SAND AND SHALE	1974	2134	
WEIR	2134	2248	
SAND AND SHALE	2248	3195	
WARREN	3195	3283	
SAND AND SHALE	3283	3364	
SPEECHLEY	3364	3372	
SAND AND SHALE	3372	4384	
RILEY	4384	4422	
SAND AND SHALE	4422	4814	
BENSON	4814	4822	
SAND AND SHALE	4822	5064	
ALEXANDER	5064	5158	
SHALE	5158	5254 T.D.	

GAS CHECKS:

1736'	N/S
1861'	N/S
2017'	GAS ODOR
2513'	N/S
3009'	N/S
3508'	N/S
4067'	N/S
4505'	N/S
4943'	N/S
5254'	N/S