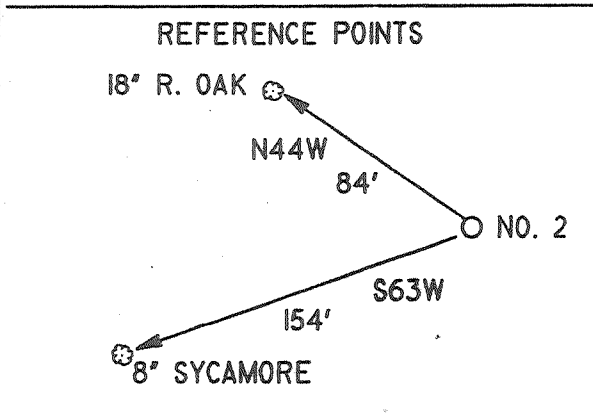
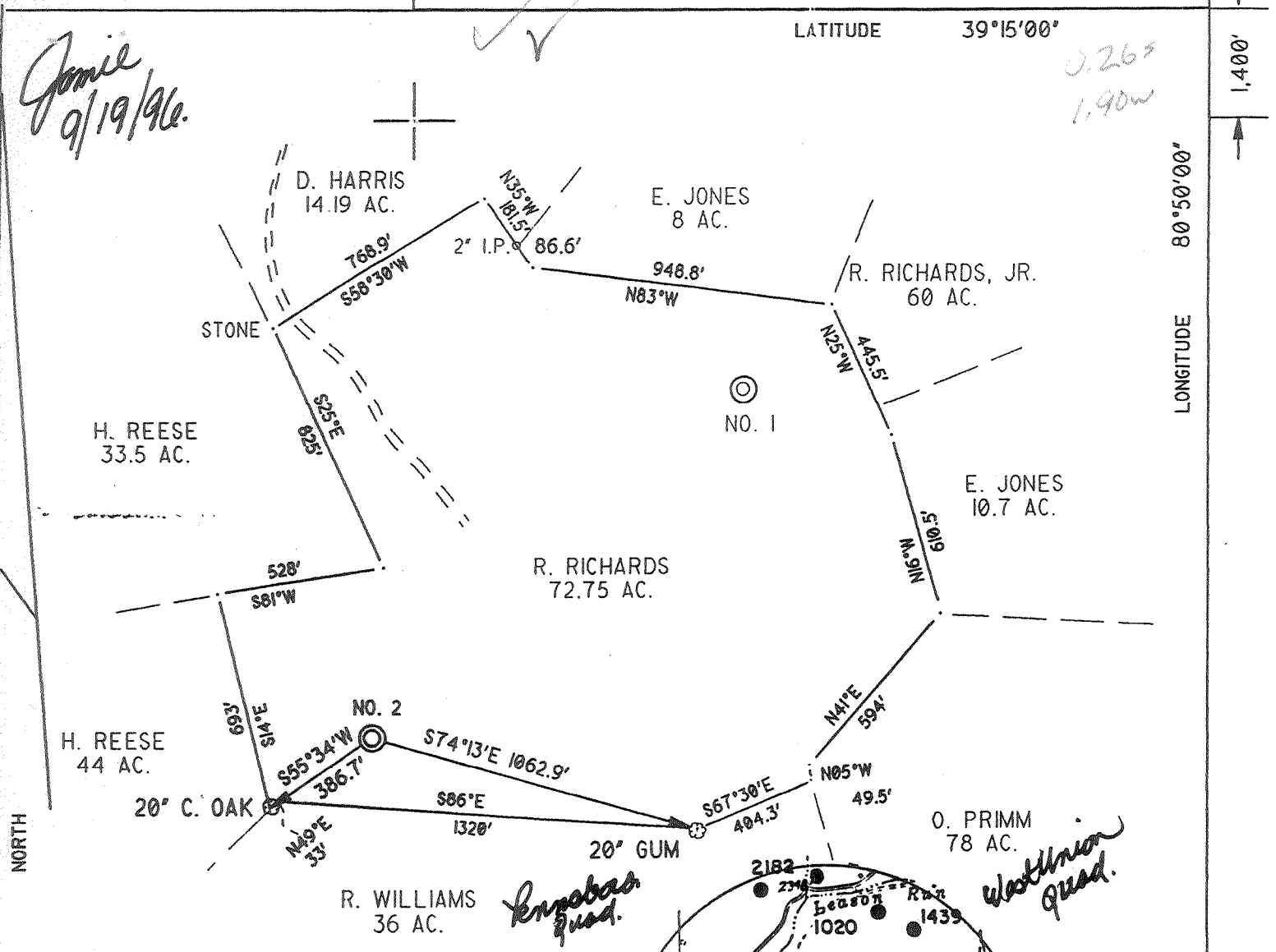


Janie
9/19/96

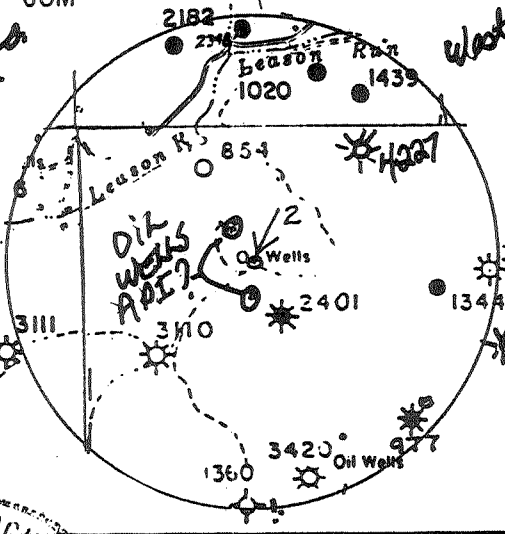
0.26
1.90w



Leason Run Quad.

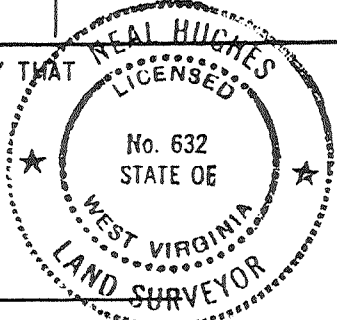
Washington Quad.

Leason Run Quad.



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*



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

DATE AUGUST 16, 19 96

OPERATORS WELL NO. ROSS 2

API WELL NO. 47 - 017-04302

STATE WEST VIRGINIA COUNTY PERMII

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 95-96

PROVEN SOURCE OF ELEVATION NOB 1332' 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 1080' WATERSHED LEASON RUN

DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE OXFORD

SURFACE OWNER RAY RICHARDS ACREAGE 72.75

ROYALTY OWNER FORREST M. ROSS, ET AL LEASE ACREAGE 72.75

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 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN

ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA

WESTON, WV 26452 WESTON, WV 26452

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: RICHARDS, RAY

Operator Well No. : ROSS #2

LOCATION: Elevation: 1080.00 Quadrangle: OXFORD

District: CENTRAL County: DODDRIDGE
Latitude: 1400 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 10000 Feet West of 80 Deg. 50 Min. 0 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 09/16/96
Well Work Commenced: 10/02/96
Well Work Completed: 10/10/96
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5500'
Fresh water depths (ft) 178'
Salt water depths (ft) 1178' 2038'

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	124.20'	124.20'	70 sks To surface
8 5/8"	2111.15'	2111.15'	615 sks To surface
4 1/2"	5456'	5456'	370 sks
2 3/8"		5270'	

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

OPEN FLOW DATA

Balltown 3880' - 4440'
Riley 4582' - 4989'
Benson 5014' - 5028'
Producing formation Alexander Pay zone depth (ft) 5268' - 5350'
Gas: Initial open flow 47 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,586 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1650 psig (surface pressure) after 96 Hours

Second producing formation Commingled Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Final open flow _____ MCF / d Oil: 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: 

President FEB 14 1997

Date: JANUARY 22, 1997

Ross #2 (47-017-04302)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11 holes) (5290.75' - 5333.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2nd Stage:	Benson (5 holes) (5021' - 5022") Third Riley (5 holes) (4953.75' - 4958.25')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 394,000 SCF N2, 566 bbls foam.
3rd Stage:	Riley (10 holes) (4604.25' - 4631.5')	60 Quality Foam. 1000 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 552 bbls foam.
4th Stage:	Balltown (10 holes) (4202' - 4367')	60 Quality Foam, 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbls foam.

WELL LOG

Red Rock & Clay	0	10	
Sand & Shale & Redrock	10	91	
Sand	91	151	Damp @ 178'
Sand & Shale & Red Rock	151	1004	
Sand	1004	1011	
Red Rock & Sand & Shale	1011	1600	Damp @ 1178'
White Sand	1600	1611	
Sand & Shale	1611	1950	
Maxon	1950	1990	
Sand & Shale	1990	2018	
Sand & Shale & Lime	2018	2088	Damp @ 2038'
Big Lime	2088	2152	<u>Gas Checks</u>
Big Injun	2152	2219	2566 NO SHOW
Shale	2219	2353	3027 NO SHOW
Weir	2353	2514	3956 NO SHOW
Shale	2514	2574	4357 NO SHOW
Berea	2574	2580	4820 NO SHOW
Sand & Shale	2580	3447	5218 2/10 - 1/2" w/ H ² O
Warren	3447	3516	5300 44/10 - 1" w/ H ² O
Shale	3516	3522	TD 44/10 - 1" w/ H ² O
Speechley	3522	3646	Collars 20/10 - 1" w/ H ² O
Shale	3646	3880	
Balltown	3880	4440	
Shale	4440	4582	
Riley	4582	4662	
Shale	4662	4938	
3rd Riley	4938	4989	
Shale	4989	5014	
Benson	5014	5028	
Sand & Shale	5028	5268	
Alexander	5268	5350	
Sand & Shale	5350	5500	
T.D.	5500		

Environmental Protection
SEP 06 1996
Permitting
Office of Oil and Gas

1) Date: SEPTEMBER 3, 1996
2) Operator's well number ROSS #2
3) API Well No: 47 - 017 - 4302
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
 (a) Name RAY RICHARDS Name NONE
 Address RT. 1 BOX 43 Address _____
GREENWOOD, WV 26360
 (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ Name _____
 Address _____
 (c) Name _____ Name _____
 Address _____ Address _____
- 6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
 Address RT. 2 BOX 135 Name _____
SALEM, WV 26426 Address _____
 Telephone (304)- 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- X Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator KEY OIL COMPANY
By [Signature]
Its: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 3RD day of SEPTEMBER, 1996

My commission expires MARCH 24, 2003
Karen Cook

