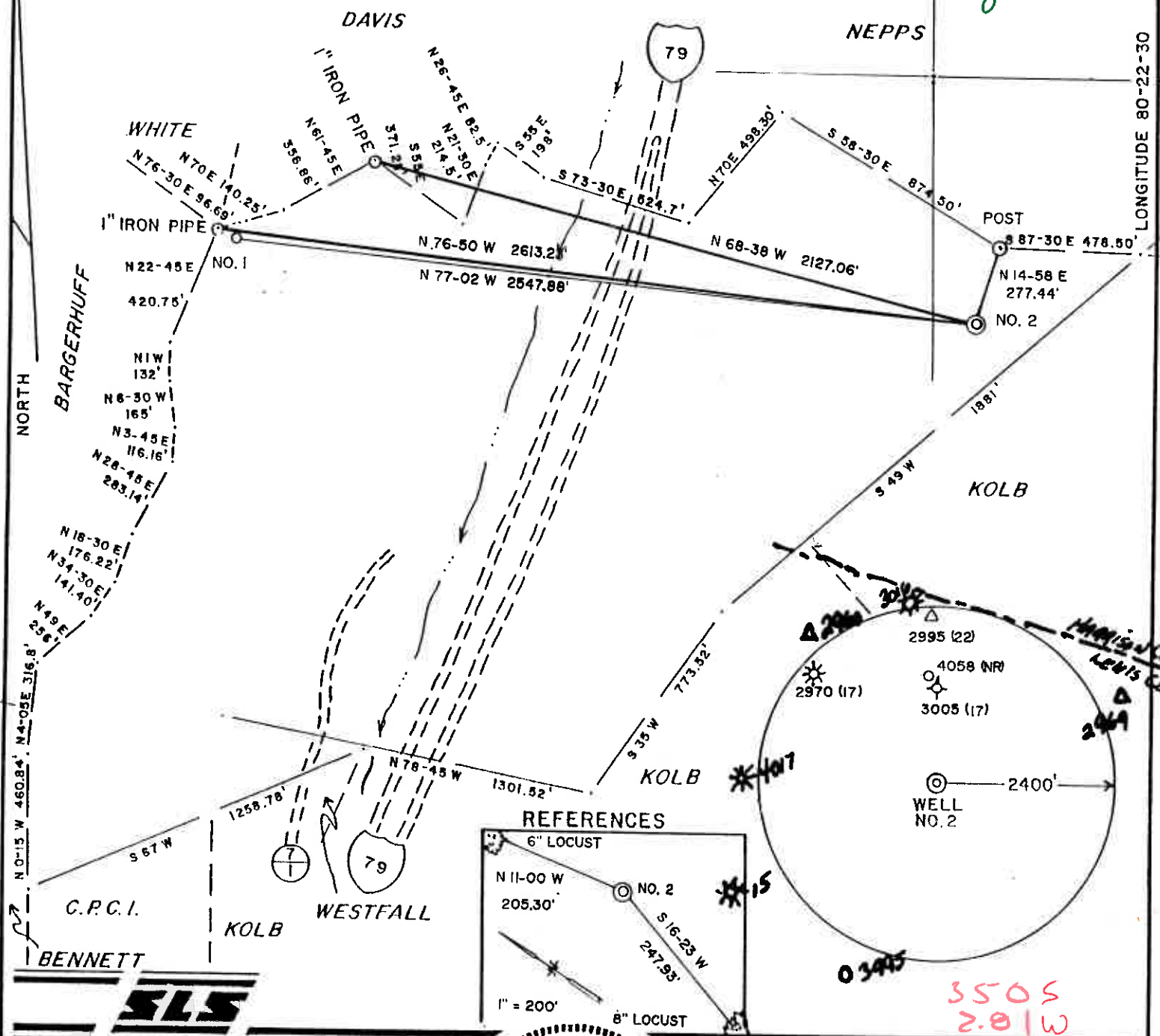


Jan 9/91
10/9/91

KOLB LEASE III.13 ACRES + WELL NO. 2

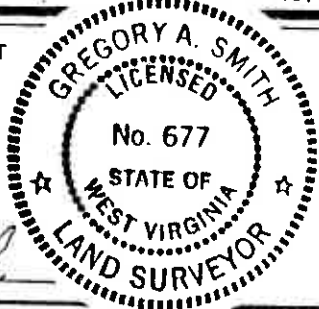
LATITUDE 39-07-30

0.625
0.58 W



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 ENERGY.

L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE OCTOBER 4, 19 91
OPERATORS WELL NO. KOLB WELL NO. 2
API WELL NO. 47 - 041 - 4108
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2362 (38-45)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. = 1295' 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 1390' WATERSHED HACKERS CREEK
DISTRICT HACKERS CREEK COUNTY LEWIS QUADRANGLE WESTON 7.5
SURFACE OWNER JOHN W.C. KOLB ACREAGE III.13
ROYALTY OWNER JOHN W.C. KOLB, et al. LEASE ACREAGE III.13 of 130
PROPOSED WORK: LEASE NO. _____
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 DEVONIAN SHALE
ESTIMATED DEPTH 4500'

WELL OPERATOR MIKE ROSS INC. DESIGNATED AGENT MIKE ROSS
ADDRESS BOX 173 COALTON, WV. 26257 ADDRESS BOX 173 COALTON, WV. 26257

575

COUNTY NAME PERMIT

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

RECEIVED
Division of Energy

Reviewed Fmg
Recorded

Well Operator's Report of Well Work

OCT 28 91

Farm name: KOLB, JOHN W.C. Operator Well No.: KOLB #2 Permitting
Oil and Gas Section
LOCATION: Elevation: 1390.00 Quadrangle: WESTON
District: HACKERS CREEK County: LEWIS
Latitude: 3310 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 3110 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: ROSS & WHARTON GAS CO., I
ROUTE 6, BOX 123
BUCKHANNON, WV 26201-0123

Agent: MIKE ROSS

Inspector: TIM BENNETT
Permit Issued: 10/09/91
Well work Commenced: 10/09/91
Well work Completed: 10/14/91
Verbal Plugging
Permission granted on:
Rotary xx Cable Rig
Total Depth (feet) 4610
Fresh water depths (ft)
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	896'	896'	230 sks
4 1/2"		4587'	275 sks

Is coal being mined in area (Y/N)?
Coal Depths (ft): 18-21, 254-256, 633-636

OPEN FLOW DATA

Producing formation Big Injun, Balltown Stringers, Benson Pay zone depth (ft) 1648-4490
Gas: Initial open flow 50 MCF/d Oil: Initial open flow — Bbl/d
Final open flow 385 MCF/d Final open flow — Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 950 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.

MIKE ROSS, INC., dba
For: ROSS & WHARTON GAS CO., INC.

By: Mike Ross
Date: October 24, 1991

Fractured October 18, 1991

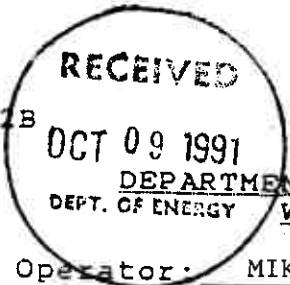
1st Stage - Perfs @ 4532-3800, 12 Holes, 750 Gal. Acid, 506 BBLs Water
100 sks 80/100 Sand, 500 sks 20/40 Sand, 75,000 SCF N²

2nd Stage - Perfs @ 2920-3386, 14 Holes, 750 Gal. Acid, 430 BBLs Water
500 sks 20/40 Sand, 100 sks 80/100 Sand, 64,000 SCF N²

3rd Stage - Perfs @ 1660-2250, 18 Holes, 1250 Gal. Acid, 400 BBLs Water
350 sks 20/40 Sand, 60,000 SCF N²

Fill & Shale	0	10	
Coal	10	18	
Sand & Shale	18	251	
Coal	254	256	
Sand & Shale	256	264	
Red Rock	264	271	
Sand & Shale	271	633	
Coal	633	636	
Sand & Shale	636	1247	
Red Rock	1247	1288	
Sand & Shale	1288	1533	
Little Lime	1533	1546	
Sandy Shale	1546	1533	
Little Lime	1533	1546	
Sandy Shale	1546	1574	
Big Lime	1574	1654	
Big Injun	1648	1770	Show of gas
Sandy Shale	1770	2050	
Gantz	2050	2076	
Sandy Shale	2076	2142	
Gordon	2142	2160	
Sandy Shale	2160	2310	
Fifth Sand	2310	2370	
Sandy Shale	2370	2470	
Bayard	2470	2490	
Sandy Shale	2490	2900	
Balltown Stringers	2900	3400	Show of gas
Sandy Shale	3400	4480	
Benson	4480	4490	Show of gas
Sandy Shale	4490	4610	TD

13069



Issued 10/09/91
Expires 10/09/93 Page ___ of ___

FORM WW-1B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
DEPT. OF ENERGY WELL WORK PERMIT APPLICATION

- 1) Well Operator: MIKE ROSS ⁴¹⁰⁹⁶ INC. 43225 (4) 669
- 2) Operator's Well Number: KOLB #2 3) Elevation: 1390
- 4) Well type: (a) Oil ___ / or Gas x /
(b) If Gas: Production x / Underground Storage ___ /
Deep ___ / Shallow x /
- 5) Proposed Target Formation(s): 435 Devonian Shale
- 6) Proposed Total Depth: 4500 feet
- 7) Approximate fresh water strata depths: 150'
- 8) Approximate salt water depths: None 900'
- 9) Approximate coal seam depths: 50' 275'-279'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No x /
- 11) Proposed Well Work: DRILL & STIMULATE NEW WELL
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	
Conductor	11 3/4		42	20'	
Fresh Water					
Coal					
Intermediate	8 5/8	ERW	20	800'	800' CTS 38 CSR 18-11.3 38 CSR 18-11.2
Production	4 1/2		10.5		4500' 38 CSR 18-11.1
Tubing					
Liners					

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

3712
126
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Surety Blanket Agent
(Type)



1) Date: October 7, 1991
2) Operator's well number
KOLB #2
3) API Well No: 47 - 041 - 4108
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>John W. C. Kolb</u> Address <u>Jane Lew</u> <u>WV 26378</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator:</p> <p>Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>John W.C. Kolb</u> Address <u>Jane Lew,</u> <u>WV 26378</u></p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p>
<p>6) Inspector <u>Tim Bennett</u> Address <u>737 Karl Street</u> <u>Weston, WV 26452</u> Telephone (304)- <u>269-6177</u></p>	

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
xx Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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:

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

I have read and understand Chapter 22B 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 Mike Ross Inc.
By: Mike Ross
Its: President
Address P.O. Box 173
Coalton, WV 26257
Telephone 304/472-4289



Subscribed and sworn before me this 7th day of October, 1991

Ilene Murray Notary Public
My commission expires 11-3-93