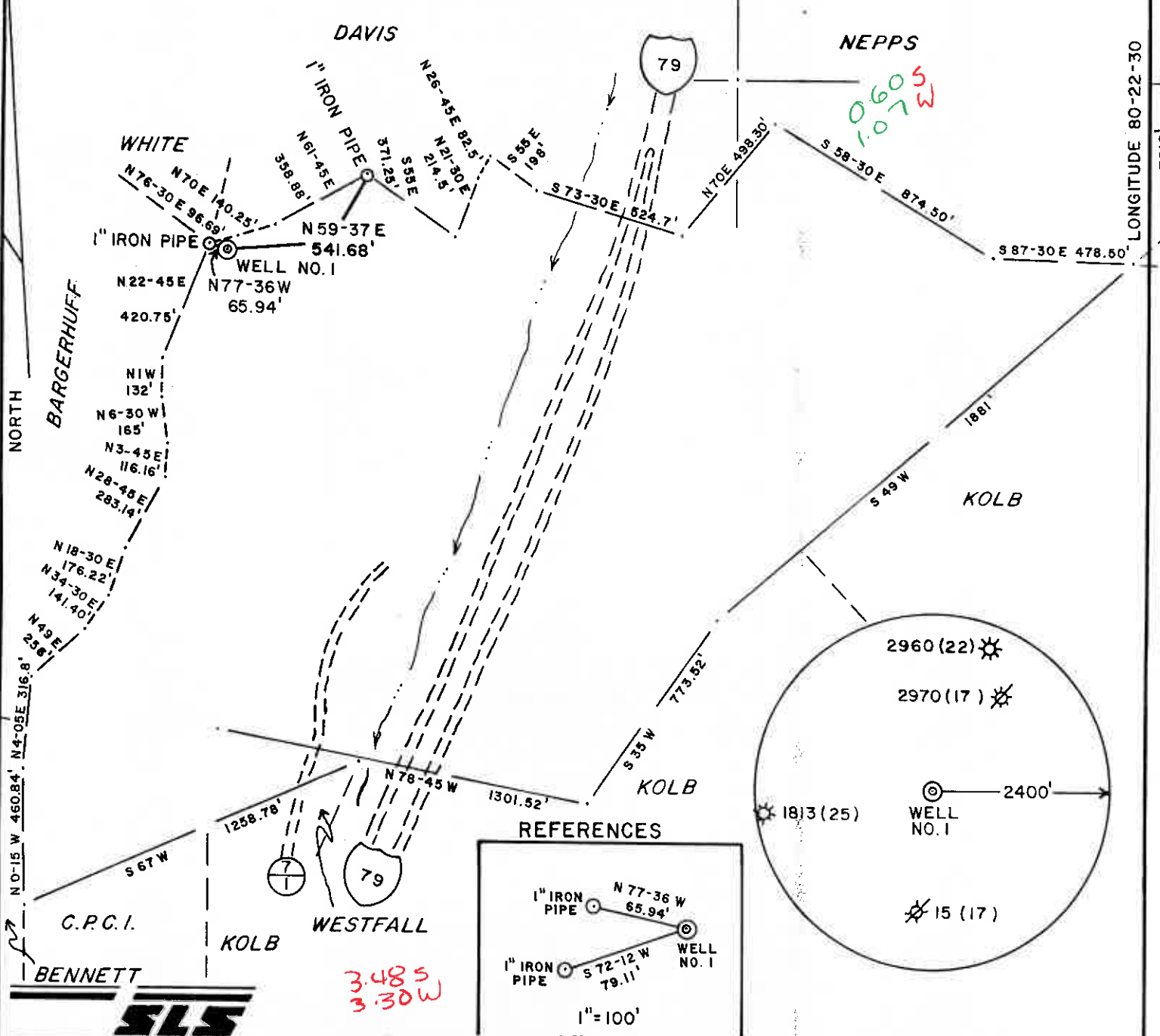


KOLB LEASE 111.13 ACRES ± WELL NO. 1

LONGITUDE 80-22-30



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 JULY 31, 19 90
OPERATORS WELL NO. KOLB WELL NO. 1
API WELL NO. 47 - 041 - 4017
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2362 (33-12)
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 X LIQUID INJECTION ___ WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

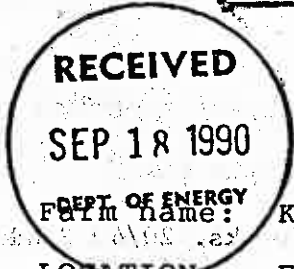
LOCATION: ELEVATION 1388' WATERSHED HACKERS CREEK
DISTRICT HACKERS CREEK 4 COUNTY LEWIS QUADRANGLE WESTON 7.5' 415

SURFACE OWNER JOHN W.C. KOLB ACREAGE 111.13 C
ROYALTY OWNER JOHN W.C. KOLB, et. al. LEASE ACREAGE 111.13 of 130

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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. 4096 DESIGNATED AGENT MIKE ROSS AUG 17 1990
ADDRESS BOX 173 COALTON, WV. 26257 ADDRESS BOX 173 COALTON, WV. 26257

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



Well Operator's Report of Well Work

Form name: KOLB, JOHN W C Operator Well No.: KOLB 1

LOCATION: Elevation: 1388.00 Quadrangle: WESTON
District: HACKERS CREEK County: LEWIS
Latitude: 3210 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 5700 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: STEVE CASEY
Permit Issued: 08/14/90
Well work Commenced: 08/30/90
Well work Completed: 09/04/90
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 4700'
Fresh water depths (ft)
1" stream at 45'
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	1005'	1005'	125 sks
4 1/2"		4619'	250 sks

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 1630-4485
Gas: Initial open flow 50 MCF/d Oil: Initial open flow -- Bbl/d
Final open flow 450 MCF/d Final open flow -- Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 460 psig (surface pressure) after 72 Hours

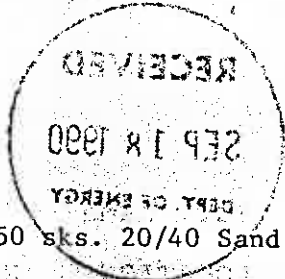
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

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: September 14, 1990

SEP 24 1990



Fractured September 10, 1990

Stage #1 - Perfs @ 4472-4478, 750 Gal Acid, 100 sks 80/100 Sand, 250 sks. 20/40 Sand 60,000 SCF N²

Stage #2 - Perfs @ 2050-2478, 500 Gal Acid, 300 sks 20/40 Sand, 45,000 SCF N²

Stage #3 - Perfs @ 1724-1744, 1000 Gal, Acid, 350 Skes 20/40 Sand, 52,000 SCF N²

Fill	0	5	
Sand & Shale	5	136	
Red Rock & Shale	136	140	
Sand & Shale	140	375	
Red Rock & Shale	375	395	
Sand & Shale	395	460	
Red Rock & Shale	460	510	
Sand & Shale	510	700	
Shale	700	1131	
Sand & Shale	1131	1530	
Blue Monday	1520	1548	
Pencil Cave	1548	1558	
Big Lime	1558	1630	
Big Injun	1630	1750	Show of Gas
Sandy Shale	1750	2044	
Fifty Foot Sand	2044	2060	
Sandy Shale	2060	2080	
Thirty Foot Sand	2080	2100	
Sandy Shale	2100	2130	
Gantz	2130	2150	
Sandy Shale	2150	2230	
Fourth Sand	2230	2280	
Sandy Shale	2280	2330	
Fifty Sand	2330	2360	Show of Gas
Sandy Shale	2360	2465	
Bayard	2465	2482	Show of Gas
Sandy Shale	2482	4470	
Benson	4470	4485	Show of Gas
Sandy Shale	4485	4715	

11079

SEP 24 1990

Issued 8/14/90
 041-4017
 Expires 8/14/92
 Page _____ of _____

RECEIVED
 AUG 09 1990
 DEPT. OF ENERGY

FORM WW-2B

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

669

- 1) Well Operator: MIKE ROSS INC., dba ROSS & WHARTON GAS COMPANY, INC. 43225 (4)
- 2) Operator's Well Number: KOLB #1 3) Elevation: 1388'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): DEVONIAN SHALE
- 6) Proposed Total Depth: 4500' feet
- 7) Approximate fresh water strata depths: 150'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 50'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DRILL & STIMULATE NEW WELL
- 12)

RECEIVED
 AUG 09 1990
 DEPT. OF ENERGY

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4		42	20'		
Fresh Water						
Coal						
Intermediate	8 5/8"	ERW	20	800'	800' CTS	38 CSR18-11.3 38 CSR18-11.2.2
Production	4 1/2"		10.5		4500'	38 CSR18-11.1
Tubing						
Liners						

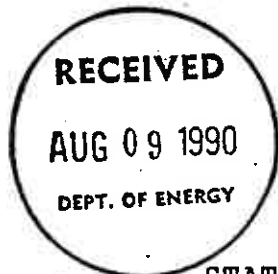
PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

669

3381
 22



- 1) Date: August 6, 1990
- 2) Operator's well number
KOLB #1
- 3) API Well No: 47 - 041 - 4017
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 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 <u>None</u>
Address _____</p> |
| <p>6) Inspector <u>Stephen Casey</u>
Address <u>Rt. 2, Box 232-D</u>
<u>Jane Lew, WV 26378</u>
Telephone (304)- <u>745-4888</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 Box 173
Coalton, WV 26257
Telephone (304) 472-4289

Subscribed and sworn before me this 6th day of August, 19 90

Ilene Murray Notary Public
My commission expires Nov. 3, 1993