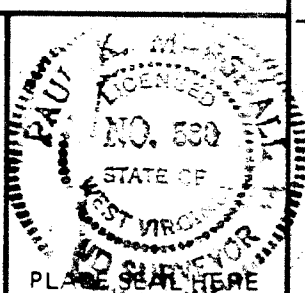


FILE NO. _____
 DRAWING NO. _____
 SCALE 1:1000
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM - RACY BRIDGE (ABUTMENT) 668'

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 MINES.
 (SIGNED) Paul K. Marshall
 PAUL K. MARSHALL
 R.P.E. _____ L.L.S. 580



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MAY 13, 19 82
 OPERATOR'S WELL NO. JACKSON #4
 API WELL NO. _____
47 - 085 - 5642
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 731 WATER SHED RIGHT FORK OF GILLESPIE RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO HARRISVILLE 15 WC
 SURFACE OWNER OREN JACKSON ACREAGE 150
 OIL & GAS ROYALTY OWNER OREN JACKSON 1/3, OREN JACKSON 1/3, NEVA MACE 1/3 LEASE ACREAGE _____
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 5680
 WELL OPERATOR B+L OIL COMPANY DESIGNATED AGENT C. Jo McCrady
 ADDRESS 1420 7TH STREET ADDRESS 1420 7TH STREET
PARKERSBURG, W. VA. 26101 PARKERSBURG, W. VA. 26101

JUN 7 1982

66 Rutherford (117)

RECEIVED

MAR 1 1 1983



IV-35
(Rev 8-81)

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Date March 10, 1983

Operator's

Well No. # 4

Farm OREN JACKSON

API No. 47 - 085 - 5642

State of West Virginia

Department of Mines

Oil and Gas Division

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx / Liquid Injection / Waste Disposal /
(If "Gas," Production x / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 731' Watershed RIGHT FORK OF GILLESPIE RUN

District: GRANT County RITCHIE Quadrangle CAIRO

COMPANY B & L OIL CO.

ADDRESS P O BOX 165, DAVISVILLE, WV

DESIGNATED AGENT C. JO MCCRADY

ADDRESS P O BOX 165, DAVISVILLE, WV

SURFACE OWNER OREN JACKSON

ADDRESS RT 1 PETROLEUM WV

MINERAL RIGHTS OWNER OREN & OLIN JACKSON

ADDRESS AND NEVA MAZE JACKSON
HARRISVILLE, WV

OIL AND GAS INSPECTOR FOR THIS WORK

DEO MACE ADDRESS SANDERIDGE, WV

PERMIT ISSUED #5642

DRILLING COMMENCED Aug. 15, 1982

DRILLING COMPLETED Aug. 24, 1982

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	12 3/4"	40'	
13-10"			
9 5/8			
8 5/8	8 5/8	919'	
7			
5 1/2			
4 1/2	4 1/2	4365	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION MARCELLUS SHALE Depth 5680 feet

Depth of completed well 5524' feet Rotary xxx / Cable Tools

Water strata depth: Fresh 50 feet; Salt feet

Coal seam depths: n/a Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Huron Pay zone depth 3419-3812 feet

Gas: Initial open flow 200 Mcf/d Oil: Initial open flow 10 Bbl/d

Final open flow 200 Mcf/d Final open flow 10 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 420 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

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 measurement) after hours shut in

(Continue on reverse side)

MAR 21 1983

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC,

3419-10 10 holes
 3456-65 20
 3516-19 4
 3543-46 4
 3569-71 3
 3642-51 10 1.5 M N2
 3734-39 6
 3774-79 8
 3808-12 5

Huron

70

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Maxon			1542	1585	
Big Lime			1585	1628	
Keener			1628	1700	
Big Injun			1716	1772	
Squaw			1780	1804	
<u>Berea</u>			2161	2161	
Gantz			2274	2291	
Gordon			2562	2572	
Huron			3406		
Balltown			3768	3815	
Benson			4473	4478	
Alexander			4620	4678	
<u>Rhinestreet</u>			4966	5325	
				T.D. 5524	5524 2161 <u>3363</u>

(Attach separate sheets as necessary)

Alan Gable Oil Development Co.

Well Operator

By: Jubal S. Terry

Date: March 10, 1983

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



Well No. # 4
Farm OREN JACKSON
API # 47 - 085 5642
Date MAY 19, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil XX/ Gas XX
(If "Gas", Production XX/ Underground storage ___/ Deep ___/ Shallow ___/

LOCATION: Elevation: 731' Watershed: RIGHT FORK OF GILLESPIE RUN
District: GRANT County: RITCHIE Quadrangle: CAIRO

WELL OPERATOR B & L OIL CO.
Address 1420 7th st
PARKERSBURG, WV 26101

DESIGNATED AGENT C. JO MCCRADY
Address 1420 7th st
PARKERSBURG, WV 26101

OIL AND GAS ROYALTY OWNER OREN & OLIN JACKSON, & NEVA MAZE JACKSON, 1/3 each listed below
Address NEVA MAZE JACKSON, 1/3 each listed below
Acreage 150

COAL OPERATOR N/A
Address _____

SURFACE OWNER OREN JACKSON
Address Rt 1
PETROLEUM WV 26161
Acreage 150

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME N/A
Address _____
NAME _____
Address MAY 20 1982

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

RECEIVED
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME DEO MACE
Address RT 1 box 65
SANDRIDGE, WV 25274
Telephone 655-8693

OLIN JACKSON, 229 S. Stout St.
Harrisville, WV 26362
OREN JACKSON, Rt1, Petroleum, WV
26161
NEVA MAZE JACKSON, Rt 1,
Petroleum, WV 26161

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___/ lease XX other contract ___/ dated MAY 17 19 82 to the undersigned well operator from OREN & OLIN JACKSON, AND NEVA MAZE JACKSON
(If said deed, lease, or other contract has been recorded:)

Recorded on MAY 17, 1982, in the office of the Clerk of County Commission of RITCHIE County, West Virginia, in 144 Book at page 25 A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___/ Redrill ___/ Fracture or stimulate ___/ Plug off old formation ___/ Perforate new formation ___/ Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone -304/348-3092

BLANKET BOND

B & L OIL CO.
Well Operator
By: C. Jo McCrady
Its: DESIGNATED AGENT

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) B & L OIL CO.

Address 1420 7th st

PARKERSBURG, WV

GEOLOGICAL TARGET FORMATION MARCELLUS

Estimated depth of completed well 5680 feet. Rotary XX / Cable tools /
Approximate water strata depths: Fresh, 900 50' feet; salt, 900 feet.
Approximate coal seam depths: N/A
Is coal being mined in this area: Yes / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	11"	J55		XXX		140'	140'	CTS	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	J55	24½	New		900'	900'	to surface	
Production	4 1/2	J55	10.5	New			5680'	600 sks	Depths set
Tubing									
Liners									Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling . THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 1-27-83 :

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: , 19 .

By:

Its: