

LATITUDE 39° 17' 30"

80° 42' 30"

LONGITUDE



7'5 OGIS topo location

7.5' 10C	<u>2.413</u>	15' 10C	<u>5.325</u>
	<u>0.27 W</u>	(calc.)	<u>2.50 W</u>

Company _____

Farm _____

Centerpoint SW

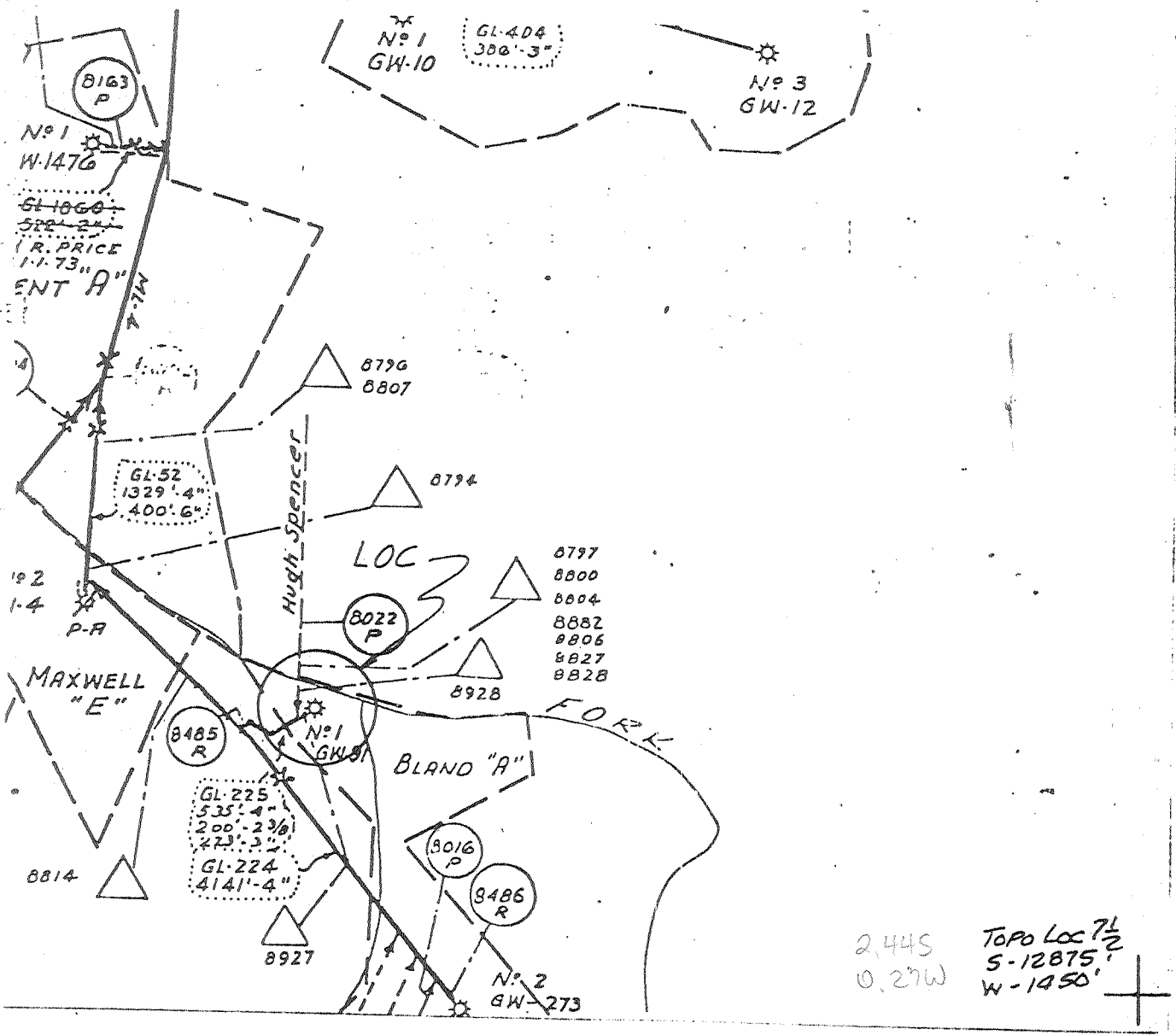
Quad SMITHBURG 7 1/2'

County DODDRIAGE

District NEW MILTON

WELL LOCATION MAP

File No. 017-2118



File 15, bc
 5,325
 2,50W

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1320'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION _____

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) *Samuel J. Matthews*
 R.P.E. _____ C.L.S. 247

PLACE SEAL HERE

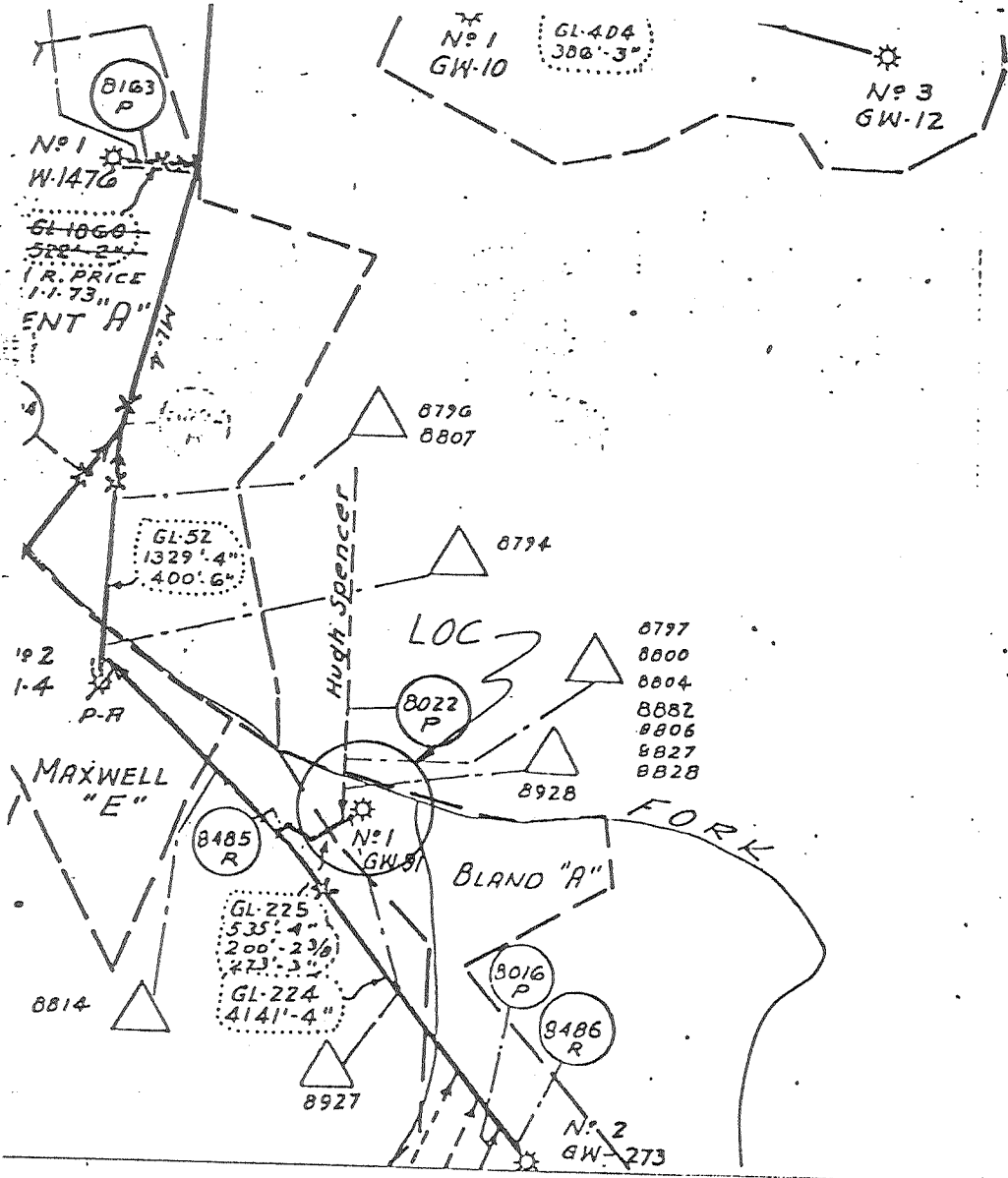
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MAR 26 1980
 OPERATOR'S WELL NO. GW 91(A-1)
 API WELL NO. _____
47 - 017 - 2118
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 825' WATER SHED MEATHOUSE FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7 1/2 Antietam SW
 SURFACE OWNER _____ ACREAGE _____
 OIL & GAS ROYALTY OWNER BLAND 'A' 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) F.E.R.C. FILING
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR CITIES SERVICE Co. DESIGNATED AGENT SAM J. MATTHEWS
 ADDRESS PO BX 873 ADDRESS PO BX 873
CHARLESTON WV 25323 CHARLESTON WV 2532



Topo Loc 7 1/2
S-12875'
W-1450'

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1320'
MINIMUM DEGREE OF ACCURACY _____
PROVEN SOURCE OF ELEVATION _____

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) Samuel J. Matthews
R.P.E. _____ L.I.S. 247

PLACE SEAL HERE

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



DATE MAR 26 19 80
OPERATOR'S WELL NO. GW 91 (A-1)
API WELL NO. 47 - 017 - 2118
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 825' WATER SHED MEATHOUSE FORK
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE SMITHBURG 7 1/2
SURFACE OWNER _____ ACREAGE _____
OIL & GAS ROYALTY OWNER BLAND 'A' 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) F.E.R.C. FILING
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR CITIES SERVICE CO. DESIGNATED AGENT SAM J. MATTHEWS
ADDRESS PO Bx 873 ADDRESS PO Bx 873
CHARLESTON WV 25373 CHARLESTON WV 2532

CODE No. G. V. 91

NAME Laura Hland #1 B-DL-S

GAS, WATER AND OIL RECORD

CASING AND TUBING

PACKERS

SIZE	PUT IN WELL	PULLED	CASING FT.	SIZE	MAKE	SET AT	LIQUID OR GAS	DEPTH	PT. RAISED IN HOLE	VOLUME
10"	Casing		110'		No record		Gas	1584 - 1610		

7" casing hole to top of well
see record report below
see record report 5-13 to 6-13-57

CENTERPOINT-S. SW
Doddridge Co.
yes E. log
2118

RECORD OF SHOT

DATE SHOT	FROM	TO	SAND	TYPE OF EXPLOSIVE	QUANTITY	PRODUCTION BEFORE SHOT	PRODUCTION AFTER SHOT
Not shot							

YEAR	DEPLETION CALCULATION	GRAPHIC	FROM	TO	THICKNESS	FORMATION
------	-----------------------	---------	------	----	-----------	-----------

	reconditioned 7-1-53 to 7-23-53					
	Water broke in. Drowned gas out.					
	Tubing leaking - gas would not gauge. Pulled tubing. Ran 5 1/2" O.D.					
	Casing 121' 11" thrd. off 2" tubing and 5" anchor total 1713' 5", cut off 2' on top leaving 1711' 5". 2" collars on bottom of tubing with iron plug in bottom. Packer 3 1/2" O.D. 11 1/2" thd. x 16" rubber with 5 1/2" O.D. 8 rd. male bottom new style special gas with conical sleeve, pumping top 3 1/2" x 2-3/8" bushing in top of packer.					
	Gas coming back. Test 7-23-53					
	8/10 W. 3/4" plate opening 12MCF. Swabbing water					
	Reconditioned 5-13 to 6-13-57					
	Had hole in 7" casing at 654' and 471' completely rusted out at surface. Gas gauged 25,830 cu. ft. - 1 hour pressure 41#					
	Replaced 63' 4" of 7" casing at surface. Pulled 1594' of 2 3/8" tubing 122' 8" 5-1/2" anchor					
	Replaced 63' 4" 7" O. D. casing 151' 5" 3-1/2" anchor 1690' 9" 2-3/8" 4.6# J55 tubing 159 sacks Cement & 10 bags Aquagel 1 Parmaco gas anchor packer					
	Birdwell survey showed Total depth 1686' 6"					
	Big Lime 1472-1563'					
	Big Injun 1570-1670'					
	7" casing 1496'					
	Gas 1659'					
	Bridged hole from 1496' to 1616'. Pumped in gel to kill gas. Replaced 63' 4" of 7" O. D. Casing. Cemented hole in 7" at 570' with 159 sacks cement. Pumping pressure went to 800#-pumped plug to 525'					
	6-7-57 Ran 3" tubing and Baker open hole packer at 1570'. Pumped in 1680 gal. kerosene with 5 gal. Hyflo. Maximum pressure 1400#. Final pressure 900#. Pumped in 2,000 gal. gelled kerosene with 5,000# sand. Maximum pressure 1400#. Final pressure 1400#. Injection rate 400 GPM. Flushed with 1050 gal. kerosene with 5 gal. breaker. Maximum pressure 1650#-final pressure 1400#.					
	Cleaned out to 1691' and ran 2" tubing and packer with 3" anchor. Set Parmaco Gas Anchor packer at 1557'					
	Final open flow 50/10 w. 2" 298MCF					

10" Casing	110	
Pittsburg Coal	250	
Big Lime	1596	1620
Gas S.I.	1584	1610
Total depth	1620	

Well is still producing.
T.O. 1710 (Same)

CODE NO. **G. W. 91** NAME **LAUREL PLANT WELL #1** LEASE NO. **C-55**

COUNTY **Doddridge**

RECORD OF WELL USE

DISTRICT **Smithburg** VOLUME AND PRESSURE TESTS **2-DL-5** N. 299.46 E. 326.44

WATERS

COMPLETED **JULY 28, 1904**

DATE SHUT IN

DATE PLUGGED

DATE CONNECTED

DATE PLUGGED

TOTAL DEPTH **1480'**

C. H. ELEVATION **842'**

Producing Sand - **Big Injuns.**

HOW OBTAINED

W. O. NO. **I. R. NO.**

COST COMPLETE \$ **Set up at 3500.00**

COST PER FOOT \$ **2.16**

DRILLERS

COMPLETED

DATE SHUT IN

DATE PLUGGED

DATE CONNECTED

DATE PLUGGED

TOTAL DEPTH

C. H. ELEVATION

75-A.

DISTRICT **Smithburg** VOLUME AND PRESSURE TESTS **2-DL-5** N. 299.46 E. 326.44

DATE

LINE

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

6-15-09 7 68 70 86 87

6-1-09 7 81 74 82 86

5-20-09 6 70 78 83 86

4-1-09 7 85 78 80 88

4-30-01 10 48 68 70 81

4-30-01 10 49 71 79 81

12-31-32 13 12 21 31 40 48 68 77 80

6- -33 27 16 25 34 43 50 70 79 81

12-1-33 7 15 25 33 41 48 67 75 78

6-1-34 4 8 19 28 34 42 64 72 74

6-15-34 6 17 26 34 41 65 70 72

12-15-35 6 18 27 35 43 62 70 72

6-25-36 7 13 21 30 38 44 62 70 73

6-15-36 8 17 25 34 41 49 64 70 73

6-15-37 11 13 22 30 37 45 64 69 73

6-1-38 7 13 21 29 36 43 60 68 70

6-1-38 7 13 21 29 36 43 60 68 70

6-1-39 8 15 24 32 39 46 63 68 71

6-1-39 8 15 24 32 39 46 63 68 71

6-1-40 10 21 29 37 45 62 68 71

6-1-41 9 14 23 30 36 42 56 61 63

6-1-41 9 14 23 30 36 42 56 61 63

6-1-42 9 13 22 30 36 42 54 59 62

6-1-42 9 13 22 30 36 42 54 59 62

6-1-43 7 10 18 24 30 36 48 54 57

6-1-43 7 10 18 24 30 36 48 54 57

6-1-44 7 10 18 24 30 36 48 54 57

6-1-44 7 10 18 24 30 36 48 54 57

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6-1-59 7 10 18 24 30 36 48 54 57

CASING AND TUBING PACKERS GAS, WATER AND OIL RECORD

SIZE	PUT IN WELL	PULLED	CASING PT.	SIZE	MAKE	SET AT	LIQUID OR GAS	DEPTH	FT. RAISED IN HOLE	VOLUME
10"	Casing		110'				Gas	1584	- 1610	

7" casing in hole is not used
see record. report below
see record. report 5-13 to 6-13-57

Doddridge Co. *yes E log*
2118

RECORD OF SHOT

DATE SHOT	FROM	TO	SAND	TYPE OF EXPLOSIVE	QUANTITY	PRODUCTION BEFORE SHOT	PRODUCTION AFTER SHOT
							Not shot

DEPLETION CALCULATION

YEAR	DEPLETION CALCULATION	GRAPHIC LOG	FROM	TO	THICKNESS	FORMATION
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Water broke in. Drowned gas out. Tubing leaking - gas would not gauge. Pulled tubing. Ran 5 1/2" O.D. Casing 121' 11" thrd. off 2" tubing and 5" anchor total 1713' 5", cut off 2' on top leaving 1711' 5". 2" collar on bottom of tubing with iron plug in bottom. Packer 3 1/2" O.D. 11' thd. x 16" rubber with 5 1/2" O.D. 8 rd. male bottom new style special gas with conical sleeve, pumping top 3 1/2" x 2-3/8" bushing in top of packer. Gas coming back. Test 7-23-53 8/10 W. 3/4" plate opening 12MCF. Swabbing water

Reconditioned 5-13 to 6-13-57

10" Casing	110	
Pittsburg Coal	250	
Big Line	1576	1620
Gas B.I.	1584	1610
Total depth	1620	

Well is still producing.

T.O. 1710 (Laney)

Had hole in 7" casing at 654' and 471' completely rusted out at surface. Gas gauged 25,830 cu. ft. - 30 hour pressure 41#

Replaced 63' 4" of 7" casing at surface. Pulled 1594' of 23/8" tubing 122' 8" 5-1/2 anchor

Replaced 63' 4" 7" O. D. casing 151' 5" 3-1/2" anchor 1690' 9" 2-3/8" 4.6# J55 tubing 159 sacks Cement & 10 bags Aquagel 1 Parmaco gas anchor packer

Birdwell survey showed Total depth 1686' 6" Big Lime 1472-1563' Big Injun 1570-1670' 7" casing 1496' Gas 1659'

Bridged hole from 1496' to 1616'. Dumped in gel to kill gas. Cemented hole in 7" at 570' with 159 sacks cement. Pumping pressure went to 800#-pumped plug to 525' 6-7-57 Ran 3" tubing and Baker open hole packer at 1570'. Pumped in 1680 gal. kerosene with 5 gal. Hyflo. Maximum pressure 1400#. Final pressure 900#. Pumped in 2,000 gal. gelled kerosene with 5,000# sand. Maximum pressure 1400#. Final pressure 1400#. Injection rate 400 GPM. Flushed with 1050 gal. kerosene with 5 gal. breaker. Maximum pressure 1650#-final pressure 1400#.

Cleaned out to 1691' and ran 2" tubing and packer with 3" anchor. Set Parmaco Gas Anchor packer at 1557'

Final open flow 50/10 w. 2" 298MCF

- 100'
- 200'
- 300'
- 400'
- 500'
- 600'
- 700'
- 800'
- 900'
- 1000'
- 1100'
- 1200'
- 1300'
- 1400'
- 1500'
- 1600'
- 1700'
- 1800'
- 1900'
- 2000'
- 2100'
- 2200'
- 2300'
- 2400'
- 2500'
- 2600'
- 2700'
- 2800'
- 2900'
- 3000'
- 3100'
- 3200'
- 3300'
- 3400'

CODE NO **G. V. 91** NAME **Leutschland well #1** COUNTY **Doddridge** LEASE NO. **C-35** 75-A. DISTRICT **Smithburg** **2-DL-5** N. **109.46** E. **326.44**

RECORD OF WELL USE

YEARS

COMPLETED **July 25, 1906**

DATE SHUT IN

I. R. NO.

COST COMPLETE \$ **Set up at 3500.00**

COST PER FOOT \$ **2.16**

DATE PLUGGED

TOTAL DEPTH **1420'**

C. H. ELEVATION **842'**

HOW OBTAINED **Producing Sand - Big Injun.**

VOLUME AND PRESSURE TESTS

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

DATE

LINK

NO.

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

DATE

LINK

NO.

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

DATE

LINK

NO.

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

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MINUTES

TIME SHUT IN

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LINK

NO.

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

DATE

LINK

NO.

MINUTES

TIME SHUT IN

ROCK

VOLUME

SAND

REMARKS

DATE	LINK	NO.	MINUTES	TIME SHUT IN	ROCK	VOLUME	SAND	REMARKS		
6-15-29	7		55	79	80	87				
12-1-29	7		51	74	82	86				
5-30-50	6		70	78	83	86				
12-1-50	7		82	73	80	82				
6-30-51			52	73	79	81				
12-30-51	10		48	63	78			Shut in		
6-52	9		49	71	79	81				
12-31-32	13		12	21	31	40	48	68	77	80
6-	33		16	25	34	43	50	70	79	81
12-1-33	7		15	25	33	41	48	67	75	78
6-1-34	4		8	19	28	34	42	64	72	74
12-1-34	6		18	27	34	42	49	70	73	
6-15-35	6		17	26	34	41	65	70	72	
12-15-35	6		18	27	35	43	62	70	72	
6-25-36	7		13	21	30	38	44	62	70	73
12-15-36	8		17	25	34	41	49	64	70	73
6-15-37	9		13	21	31	41	44	64	69	73
12-1-37	11		13	21	30	37	43	60	68	70
6-1-38	7		13	21	33	36	43	60	67	69
12-1-38	8		11	20	27	30	37	66	67	
6-1-39	8		15	22	32	37	43	60	65	67
12-1-39	8		12	21	30	36	42	60	65	67
6-1-40	5		19	29	37	44	51	60	61	
12-1-40	10		21	27	37	45	48	56	63	64
6-1-41	9		14	23	30	36	42	56	61	63
12-1-41	9		13	22	30	36	42	54	59	62
6-1-42	9		3	14	22	28	34	52	57	59
12-1-42	7		10	14	21	26	32	50	55	57
6-1-43	7		10	15	24	28	34	48	53	57
12-1-43	7		10	14	22	26	32	46	51	56
6-1-44	7		10	15	23	27	33	48	53	55
12-1-44	7		10	14	22	26	32	48	54	57
6-1-45	7		10	14	20	24	30	46	52	57
12-1-45	7		10	13	18	24	34	44	50	55
6-1-46	7		10	12	17	24	30	46	54	58
12-1-46	6		8	16	24	30	34	42	50	52
6-1-47	7		5	10	14	18	22	34	44	48
12-1-47	6		10	14	18	20	26	38	44	46
6-1-48	6		10	14	18	20	26	38	44	46
12-1-48	6		10	14	18	20	26	38	44	46
6-1-49	6		10	14	18	20	26	38	44	46

Well is salted up.

No volume through 2'

No original

Shut in

Shut in

Blown 1/2 hr.

1/2 hr.

1/2 "

1/2 "

1/2 "

1/2 "

1/2 "

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1/2 "

1/2 "

Record Laura Bland Well #1

J.E.Trainer Contractor

Completed July 25th, 1904

10" casing	110	
Pittsburgh Coal	250	
Big Lime	1576	<u>1620</u>
gas	1584	1610
Total Depth	1620	

Well is still producing.

017-2118

Record Laura Bland Well #1