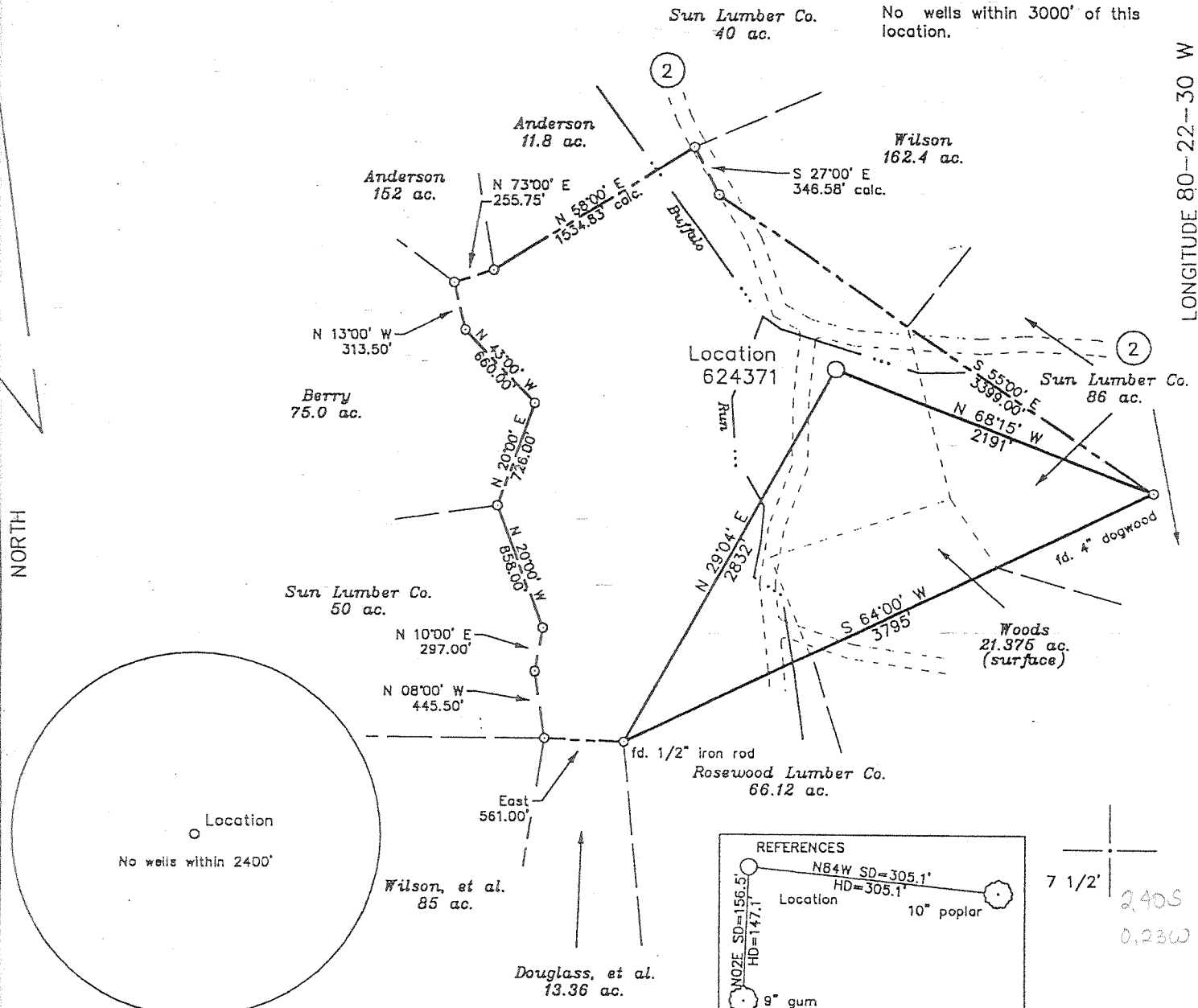


Note: Location is at least 400' from all outside lease lines. No wells within 3000' of this location.

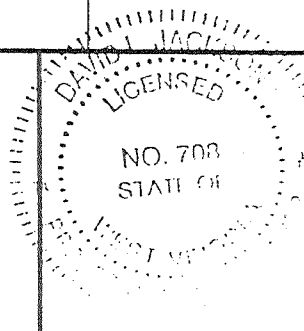


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION Road intersection 300' NW of location El. 1439'

I THE UNDERSIGNED, HERBY 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

(SIGNED) David L Jackson
R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
Division of Environmental Protection
OFFICE OF OIL AND GAS

DATE May 5 2000
OPERATOR'S WELL NO. 624371
API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____

047-101-00092
STATE COUNTY PERMIT

LOCATION: ELEVATION 1440' WATER SHED Buffalo Run
DISTRICT Hacker Valley COUNTY Webster
QUADRANGLE Hacker Valley

SURFACE OWNER The Sun Lumber Co. ACREAGE 196
OIL & GAS ROYALTY OWNER Willard L. Ferrell, et al. LEASE ACREAGE 331
LEASE NO. 1215659

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Trenton Limestone ESTIMATED DEPTH 13,505'
WELL OPERATOR Columbia Natural Resources, Inc. DESIGNATED AGENT W. A. Watson, Jr.
ADDRESS P.O. Box 6070, Charleston, WV 25362 ADDRESS P.O. Box 6070, Charleston, WV 25362

COUNTY NAME WEB
PERMIT 0092

AUG 18 2000

DEEP WELL

FORMATION RECORD:

0 to TD from Driller's Log Book, to TD from Gamma Ray Log

| ROCK TYPE | | |
|------------------|-----------|--|
| FROM | TO | (described rock types and other minerals penetrated and record occurrences of oil, gas and water from surface to total depth) |
| 0 | 18 | KB |
| 18 | 28 | Fill |
| 28 | 525 | Sd., Sh. & RR |
| 525 | 598 | Maxton Sd. |
| 598 | 858 | Sd., Sh. & RR |
| 858 | 1176 | Big Lime |
| 1176 | 1630 | Sd., Sh. & RR |
| 1630 | 1700 | 5th Sd. |
| 1700 | 3459 | Sd. & Sh. |
| 3459 | 3472 | Benson Sd. |
| 3472 | 6290 | Sd. & Sh. |
| 6290 | 6310 | Tully Limestone |
| 6310 | 6369 | Shale |
| 6369 | 6432 | Marcellus |
| 6432 | 6636 | Huntersville Chert |
| 6636 | 6730 | Oriskany |
| 6730 | 7376 | Helderberg |
| 7376 | 7500 | Salina |
| 7500 | 8136 | Dolomite/Limestone |
| 8136 | 8395 | Keefer Sandstone |
| 8395 | 8913 | Rose Hill Shale |
| 8913 | 9150 | Tuscarora Sandstone |
| 9150 | 9921 | Juniata Shale |
| 9921 | 11525 | Martinsburg Shale |
| 11525 | 11970 | Trenton Limestone |
| 11970 | 12891 | Black River |
| 12891 | | Wells Creek |
| | 12992 | DTD |
| | 13040 | LTD |
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WATER:

| <u>Depth (ft)</u> | <u>Amount</u> | <u>Type</u> |
|-------------------|---------------|-------------|
| 85 | 1/4 str | Fresh |
| 9005 | 1-2"str | Salt |
| | | |
| | | |
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GAS CHECKS:

| <u>Depth(ft)</u> | <u>MCF/D</u> |
|------------------|--------------|
| 5413 | Odor |
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OIL SHOWS:

| <u>Depth</u> | <u>Amount</u> |
|--------------|---------------|
| 3318 | Odor |
| | |
| | |

PERFORATIONS:

Chert - (25 holes) 6446'- 6520' KB.

STIMULATION:

Acidize the Chert w/3500 gals. 15% HCL acid.

Well P&A 06/05/01