

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

for an oil well or gas well

Ryan & Ryan

NAME OF COMPANY OR OPERATOR JOHN P. & OR ANNA M. RYAN DATE 9-22-86

BOX 262A RR2 BELTON MO 64012

Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease NONE Fee Well number 1 Elevation (ground) = 900' TM

WELL LOCATION (give footage from section lines) 258' ft from (N) (S) sec line 2359' ft from (E) (W) sec line

WELL LOCATION Section 1 Township 45 N Range 33 County CASS

Nearest distance from proposed location to property or lease line 188.2 feet Distance from proposed location to nearest drilling, completed or applied for well on the same lease: NONE feet

Proposed depth 390' Drilling contractor, name & address CLINT'S ROTARY DRILLING, RFD 2 WARLENBURG MO. Rotary or Cable Tools ROTARY Approx. date work will start AUG 1984

Number of acres in lease PRIVATE PROPERTY 5.4 ACRES Number of wells on lease, including this well, completed in or drilling to this reservoir: 1 PROPERTY Number of abandoned wells on lease: 0

If lease, purchased with one or more wells drilled, from whom purchased Name NA Address NA No. of Wells: producing 0 injection 0 inactive 0 abandoned 0

Status of Bond Single Well Amt. 2000⁰⁰ ep. Blanket Bond Amt. ON FILE ATTACHED

Remarks (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed. NA

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MO Oil & Gas Council
Economic Geology

Proposed casing program
amt size wt/lb cem.
5 1/2" 10.5
4 1/2" 12.5
Approved casing to be filled in by State Geologist
amt size cem.

I, the undersigned, state that I am the RESIDENCY GAS WELL of the (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.
Signature John P. Ryan

Permit Number 20490 Drillers log required Drill stem test info. required if run
Approval Date 12/3/86 E-logs required if run Samples required
Approved By Jane Holby Williams Core analysis required if run Samples not required

Note: This Permit not transferable to any other person or to any other location
Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned for driller's signature

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.
WATER SAMPLES REQUIRED
3/12/82

WELL LOCATION PLAT

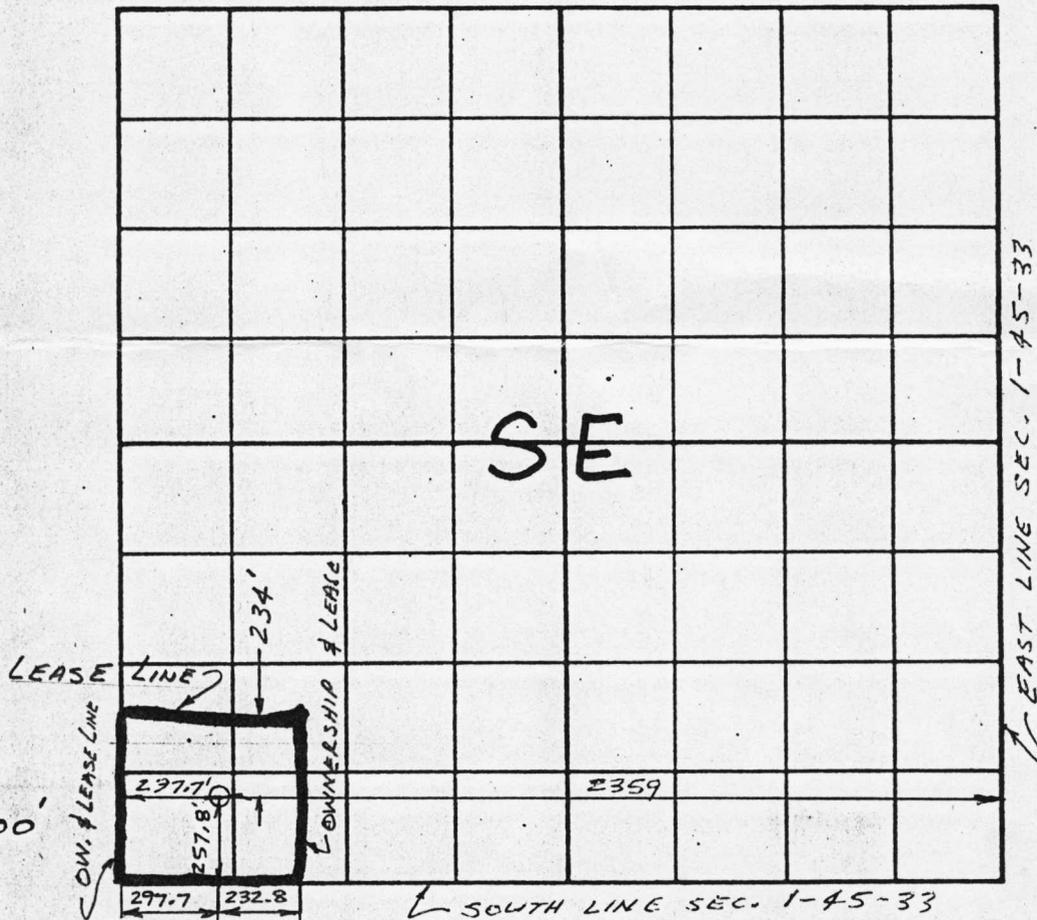
Owner: Ryan & Ryan Partnership

Lease Name: same as above County: CASS

258 feet from S₀₁ section line and 2359 feet from E section line of Sec. 1, Twp. 45 N., Range 33
(N₁)-(S) (E)-(W)



SCALE
1" = 600'



REMARKS:

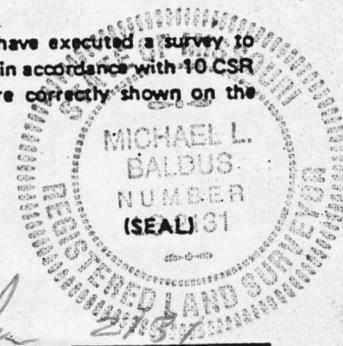
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INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.



Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, MO 65401
One will be returned.

Michael L. Baldus
Registered Land Surveyor

Number



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

NEW WELL WORKOVER DEEPEN PLUG BACK INJECTION SAME RESERVOIR DIFFERENT RESERVOIR OIL GAS DRY

| | | | | | |
|---|--|---|--|-------------------------------------|-----------------------------|
| OWNER Ryan & Ryan | | ADDRESS 6304 East 211 St. | | | |
| LEASE NAME Fee | | WELL NUMBER 1 | | | |
| LOCATION 258 FSL 2359 FEL | | | SEC. TWP. AND RANGE OR BLOCK AND SURVEY 1 / T45N / R33W | | |
| COUNTY CASS | PERMIT NUMBER (OGC-3 OR OGC-31) 20490 | | | | |
| DATE SPUDDED Aug / 1984 | DATE TOTAL DEPTH REACHED | DATE COMPLETED READY TO PRODUCE OR INJECT | ELEVATION (DF, RKR, RT, OR Gr.) FEET | ELEVATION OF CASING HD. FLANGE FEET | |
| TOTAL DEPTH 390 | PLUG BACK TOTAL DEPTH | | | | |
| PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION 356-363 | | | ROTARY TOOLS USED (INTERVAL) 0 TO 390' | | CABLE TOOLS USED (INTERVAL) |
| DRILLING FLUID USED | | WAS THIS WELL DIRECTIONALLY DRILLED? No | | WAS DIRECTIONAL SURVEY MADE? No | |
| TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) | | WAS COPY OF DIRECTIONAL SURVEY FILED? No | | DATE FILED | |

CASING RECORD

| CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.) | | | | | | |
|---|-------------------|-----------------|-----------------|-----------|--------------|---------------|
| PURPOSE | SIZE HOLE DRILLED | SIZE CASING SET | WEIGHT (LB. FT) | DEPTH SET | SACKS CEMENT | AMOUNT PULLED |
| completion | 5 5/8" | 5 1/2" | | 351' | 17 sacks | |
| liner? | | 4 1/2" | | 40' | | |

TUBING RECORD

LINER RECORD

| SIZE | DEPTH SET | PACKER SET AT | SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|------|-----------|---------------|------|------|--------|--------------|--------|
| IN. | FEET | FEET | INCH | FEET | FEET | | FEET |
| | | | | | | | |

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| NUMBER PER FOOT | SIZE AND TYPE | DEPTH INTERVAL | AMOUNT AND KIND OF MATERIAL USED | DEPTH INTERVAL |
|-----------------|---------------|----------------|----------------------------------|----------------|
| | | | | |
| | | | | |

INITIAL PRODUCTION

| | | | | | | |
|--|-----------------|--|-----------------------------------|---------------------------------|-------------------------------------|----------------------------|
| DATE OF FIRST PRODUCTION OR INJECTION September 1984 | | PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) | | | | |
| DATE OF TEST | HOURS TESTED | CHOKE SIZE | OIL PRODUCED DURING TEST bbls. | GAS PRODUCED DURING TEST MCF | WATER PRODUCED DURING TEST bbls. | OIL GRAVITY API (CORR.) |
| TUBING PRESSURE | CASING PRESSURE | CAL'ED RATE OF PRODUCTION PER 24 HOURS 75,000 cfd | | OIL bbls. | GAS MCF | WATER bbls. |
| DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD) | | | | | | |
| METHOD OF DISPOSAL OF MUD PIT CONTENTS | | | | | | |

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE _____ OF THE _____ COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

| | |
|------|-----------|
| DATE | SIGNATURE |
| | |

CLINT'S ROTARY DRILLING
 RFD #2
 WARRENSBURG, MO. 64093
 816 747-2823

DATE
 September 24, 1984
 NUMBER

RECEIVED
 OCT 11 1988

Mr. John Ryan
 Box 262A
 Belton, MO 64012

MO Oil & Gas Council
 Economic Geology

TERMS: Due upon receipt. **\$3,697.50**
 PLEASE DETACH AND RETURN WITH YOUR RECEIPTANCE

| DATE | CHARGES AND DEBIT | BALANCE |
|------|--|------------|
| | Drilled 390' @ \$6.00 | \$2,340.00 |
| | Cased 391' @ \$5.00 | 1,955.00 |
| | 17 sacks cement @ \$10.00 | 170.00 |
| | | \$4,465.00 |
| | Well Total | 650.00 |
| | (42.50 deduct 1hp Sta-Rite pump and control for 25' shallower pump depth. 385' 1" galv. pipe and wire @ \$1.70 1" brass check valve \$1675 contract price minus 42.50 comes to 1632.50 billed) | 90.00 |
| | | 654.50 |
| | | 13.00 |
| | | 125.00 |
| | | 100.00 |
| | Pump Total | \$1,632.50 |
| | Total | \$6,097.50 |
| | Downpayment | 2,400.00 |
| | NOTICE TO OWNER | |
| | FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429 RSMo. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE. | |
| | TOTAL DUE | \$3,697.50 |

CLINT'S ROTARY DRILLING *CK 1980 9-20-84* *Thank You*
 PAY LAST AMOUNT IN THIS COLUMN

| DEPTH IN FEET | | KIND OF ROCK | REMARKS | DEPTH IN FEET | | KIND OF ROCK | REMARKS |
|---------------|-----|------------------|---------|---------------|-----|----------------------|---------|
| FROM | TO | | | FROM | TO | | |
| 0 | 5 | Overburden | | 115 | 118 | Gray shale | |
| 5 | 12 | Brown sandy clay | | 118 | 125 | Limestone | Base KC |
| 12 | 18 | Grown sandstone | | 125 | 131 | Green shale | |
| 18 | 21 | Gray shale | | 131 | 135 | Green sandstone | |
| 21 | 31 | Limestone | | 135 | 265 | Gray shale | |
| 31 | 45 | Gray shale | | 265 | 292 | Green shale & shells | |
| 45 | 52 | Gray lime | | 292 | 302 | Red shale | |
| 52 | 57 | Gray shale | | 302 | 306 | Limestone | |
| 57 | 78 | Limestone | | 306 | 314 | Gray shale | |
| 78 | 81 | Gray shale | | 314 | 323 | Limestone | |
| 81 | 104 | Limestone | | 323 | 351 | Gray shale | |
| 104 | 109 | Dark shale | | 351 | 355 | Limestone | |
| 109 | 115 | Gray limestone | | 355 | 356 | Coal | |
| | | | | 356 | 363 | Gray sandstone-gas | |
| | | | | 363 | 390 | Gray shale | |

Casing: Amount 351' Size 5 1/2" UU
 Seal: 17 sacks cement
 Casing: Amount 40' Size 4 1/2" OD
 Yield (Gal. per min) 75,000 cfd
 Depth to water (Static water level)
 Size of hole at bottom 5 5/8"

Total Depth 390'

PUMPED WATER OFF
9-29-84 PRES 94 lbs.

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MO Oil & Gas Council
Economic Geology

Golden Valley Wholesale Co.
Hartwell, MO 64788

MECHANICS LIENS.....LIEN WAIVERS

Mo per Section 429.010. Mo. Code.

This is a waiver of lien for pump and casing and well supplies sold to
Client's Rotary Drilling, used on the following job.

John Ryan

John Ryan

10-4-88

Dear Mr. Netzler:

In response to your letter of Sept 23, 1988 requesting information for your files of the drilling records of my gas well, I am enclosing all the data that I have at hand. I believe it satisfies your request for information.

In regard to your suggestion regarding reducing the bond from \$2,000⁰⁰ to \$585⁰⁰, please let me know in detail how best to accomplish this as I would like to do this

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MO Oil & Gas Council
Economic Geology

Sincerely
John P. Ryan

P.S. Please note for your records that I have been assigned a street address by the U.S. Post Office instead of the old P.R. Box (6304 E 211 st.)

- Enclosures: ① Drill Log w/ Billing - Showing materials used
- ② LIEN WAIVER Showing Gas Press.
- ③ Your letter of Sept 23

2188/wh
3/7/82

JOHN ASHCROFT

Governor

FREDERICK A. BRUNNER

Director



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Division of Energy
Division of Environmental Quality
Division of Geology and Land Survey
Division of Management Services
Division of Parks, Recreation,
and Historic Preservation

DIVISION OF GEOLOGY & LAND SURVEY

P.O. Box 250, 111 Fairgrounds Road
Rolla, MO 65401
314-364-1752

September 23, 1988

Mr. John P. Ryan
Rural Route #2, Box 262A
Belton, MO 64012

Dear Mr. Ryan:

In the process of preparing to permit some gas wells in your area, Cass County, I came upon your permit and noted two things.

I do not seem to have a completion report for your gas well and enclosed is OGC-5 form which I would like for you to fill out to the best of your knowledge. Any information that you have pertaining to the drilling of this well, in particular the rock units that you went through, and how the well was constructed is very important for our files.

Also since this well was permitted in December of 1986, there has been a regulation change concerning bonding on noncommercial gas wells. Bond is figured at \$1.50 per foot, and the information we have is your well is 390' deep thus a bond of \$585 is required. Your bond on file is \$2,000 and if you would like to reduce that, please contact me and we can make arrangements for that.

If you have questions, please let me know.

Sincerely,

ECONOMIC GEOLOGY

Bruce W. Netzler, Geologist
Oil and Gas

BWN:lm

Enclosure