

Permit #: 20005

County: Buchanan

CONFIDENTIAL UNTIL: _____

Date Issued: 5-18-81

Date Cancelled: _____

Date Plugged: 10-22-81

COMMENTS:

Im @ 70

| OGC FORMS | Date Received |
|--------------|---------------|
| 1 | |
| 2 | |
| 3 | |
| 3i | 5-11-81 |
| 4 | |
| 4i | 5-11-81 |
| 5 | 5-24-81 |
| 6 | 10-5-81 |
| 7 | 10-29-81 |
| 8 | |
| 11 | |
| 12 | |
| Misc. Form 2 | |

| | TYPE | ID # | Date Received |
|----------|-----------|------|---------------|
| Logs | | | |
| | | | |
| Samples | chip core | | |
| | | | |
| Analyses | water | | |
| | core | | |

Additional Submitted Data:

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR Sandstone Resources, Inc. DATE 5/8/81
Cardinal Oil Building
Frederick Avenue at 24th St. Saint Joseph Missouri 64506
Address City State

| DESCRIPTION OF WELL AND LEASE | | | |
|---|--|---|----------------|
| Name of lease <u>W. G. Bermond</u> | Well number <u>26-1</u> | Elevation (ground) <u>972.07</u> | |
| WELL LOCATION (give footage from section lines) <u>232</u> ft. from (S) sec. line <u>2965</u> ft. from (E) sec. line | | | |
| WELL LOCATION Section <u>26</u> Township <u>58N</u> Range <u>34W</u> | | County <u>Buchanan</u> | |
| Nearest distance from proposed location to property or lease line: <u>232</u> feet | | Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>NA</u> feet | |
| Proposed depth: <u>1300'</u> | Rotary or Cable tools <u>Rotary</u> | Approx. date work will start <u>May 21, 1981</u> | |
| Number of acres in lease: <u>160 Acres</u> | | Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>0</u> Number of abandoned wells on lease: <u>1</u> | |
| If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____ | | No. of Wells: producing <u>0</u> inactive <u>0</u> abandoned <u>0</u> | |
| Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>40,000</u> <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> 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. | | | |
| Proposed casing program: | | Approved casing - To be filled in by State Geologist | |
| amt. | size | wt./ft. | cem. |
| <u>250</u> | <u>7"</u> | <u>17#/ft.</u> | <u>Surface</u> |
| <u>1300'</u> | <u>4 1/2"</u> | <u>10.5#/ft.</u> | <u>60 Sx.</u> |
| | | | |
| | | | |
| I, the undersigned, state that I am the <u>Operations Manager</u> of the <u>Sandstone Resources, Inc.</u> (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: <u>Mac Hays</u> | | | |

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Permit Number 20005
 Approval Date: 5/10/81
 Approved By: Wallace B. Hays

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 MAY 11 1981
 MO. OIL & GAS COUNCIL

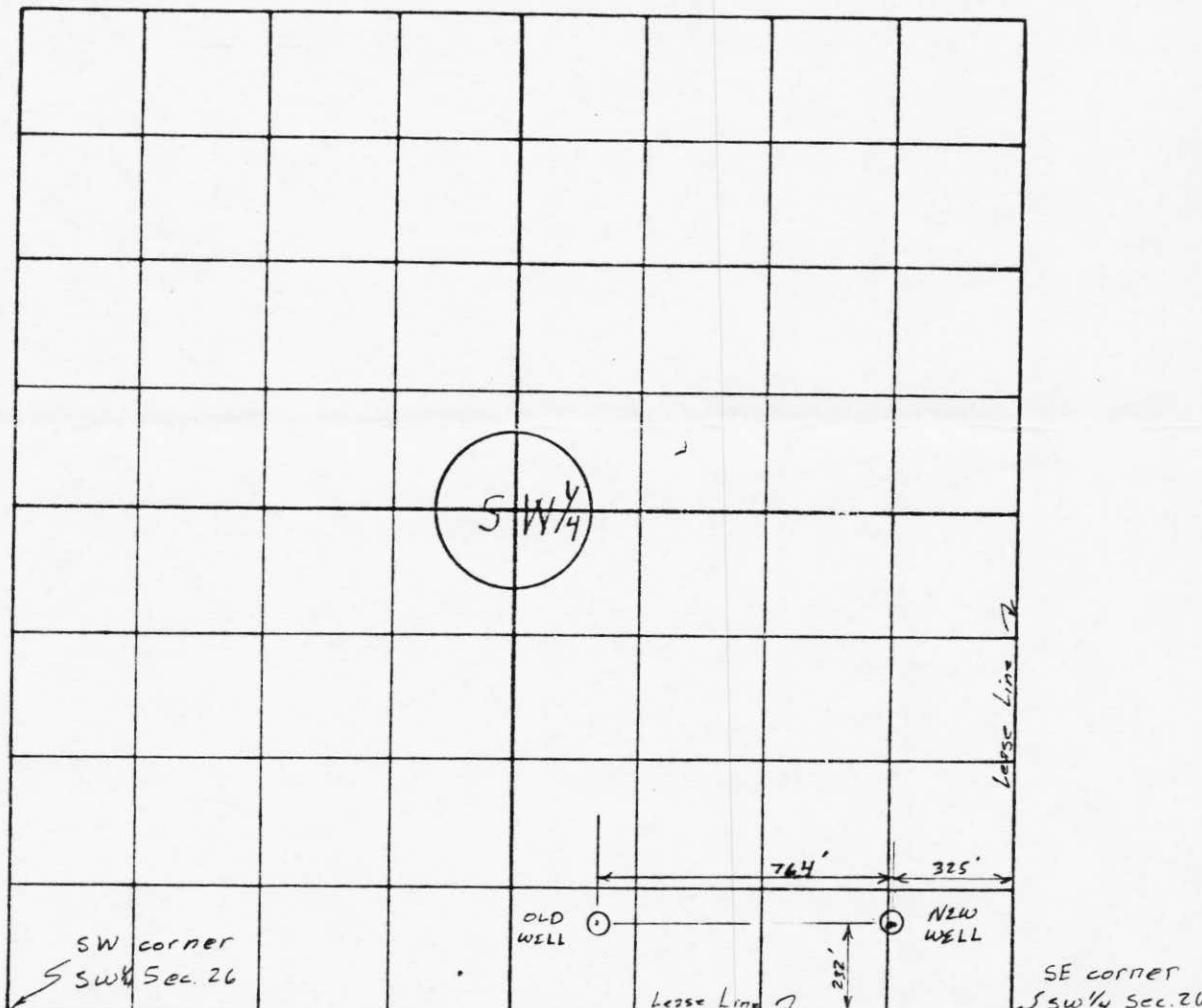
Note: This Permit not transferable to any other person or to any other location.
 Remit two copies to: Missouri Oil and Gas Council
 P.O. Box 250 Rolla, Mo. 65401
 One will be returned for driller's signature

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.



Owner: Sandstone Resources, Inc.

Lease Name: W.G. Bermond County: Buchanan
232 feet from South line and 325 feet from East line of SW $\frac{1}{4}$ of Sec. 26, Twp. 58 N, Range 34
 (N) - (S) (E) - (W)



SCALE
1" = 500'

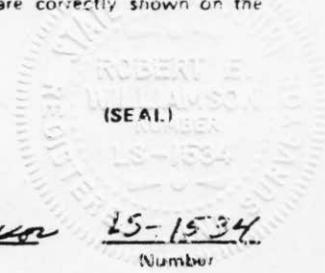
REMARKS: Ground elevation at hole location is 972.07 (USC&GS)

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.

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

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MAY 11 1981



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

Robert E. Williamson
Registered Land Surveyor

25-1534
Number



Cardinal Oil Co.

REC'D AUG 24 1981

Gentlemen:

We do have intentions of plugging and abandoning the Bermond well as soon as a rig is available. Forms will follow as soon as we have completed this procedure.

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

Owner Sandstone Resources, Inc. Address Cardinal Oil Building Frederick Ave. at 24th Street St. Joseph, Missouri

Lease Name W. G. Bermond Well Number 26-1

Location Sec 26 Twp 58N Range 34W Sec. — TWP-Range or Block & Survey

County Buchanan Permit number (OGC3 number) 20005

Date spudded 5/21/81 Date total depth reached 6/1/81 Date completed, ready to produce 7/27/81 Elevation (DF, RKB, RT or Gr.) feet 972.07 Elevation of casing hd. flange feet

Total depth 1300' P. B. T. D. 1288.6'

Producing interval (s) for this completion 1197-1212' Rotary tools used (interval) From surface to TD Drilling Fluid used mud Cable tools used (interval) From none to

Was this well directionally drilled? no Was directional survey made? no Was copy of directional survey filed? no Date filed

Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray Neutron Log Date filed

CASING RECORD

| Purpose | Size hole drilled | Size casing set | Weight (lb./ft.) | Depth set | Sacks cement | Amt pulled |
|---------|-------------------|-----------------|------------------|-----------|--------------|------------|
| | 9" | 7" | 17# | 257' | 65 | |
| | 6 3/4" | 4 1/2" | 10.5 | 1295' | 50 | |

TUBING RECORD

LINER RECORD

| Size in. | Depth set ft. | Packer set at ft. | Size in. | Top ft. | Bottom ft. | Sacks cement | Screen (ft.) |
|----------|---------------|-------------------|----------|---------|------------|--------------|--------------|
|----------|---------------|-------------------|----------|---------|------------|--------------|--------------|

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| Number per ft. | Size & type | Depth Interval | Am't. & kind of material used | Depth Interval |
|----------------|-----------------|----------------|--------------------------------------|----------------|
| 1 | 3 1/2"-aluminum | 1197-1212' | 500 gal. 15% HCL acid with additives | 1197-1212' |

INITIAL PRODUCTION

Date of first production no show Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

| Date of test | Hrs. tested | Choke size | Oil prod. during test bbls. | Gas prod. during test MCF | Water prod. during test bbls. | Oil gravity API (Corr) |
|--------------|-------------|------------|-----------------------------|---------------------------|-------------------------------|------------------------|
| | | | | | | |

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 V.P. of the Sandstone Res. Inc. (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.

RECEIVED
AUG 24 1981

Signature

MO. OIL & GAS COUNCIL

Remit two copies: one will be returned.

DETAIL OF FORMATIONS PENETRATED

| Formation | Top | Bottom | Description* |
|------------------------|---------|--------|----------------------------------|
| Glacial Drift | surface | 262' | Sands, boulders, sands and clays |
| Kansas City Lansing | 262' | 640' | Limestone & Shale |
| Cherokee | 640' | 1214' | Sand & Shale |
| Mississippi | 1214' | TD | Limestone & Shale |

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

MISSOURI OIL AND GAS COUNCIL

Form OGC-6

NOTICE OF INTENTION TO ABANDON WELL

Name of Lease W. G. Bermond Date 10/1/81

Well No. 26-1 is located 232 feet from ~~(N)~~ (S) line and 2965

feet from (E) ~~(W)~~ -- line of Section 26 Township 58 N Range 34W

Buchanan County The elevation of the ground at well site is 972.07

_____ feet above sea level.

Name and address of Contractor or Company which will do work is:

H & H Drilling

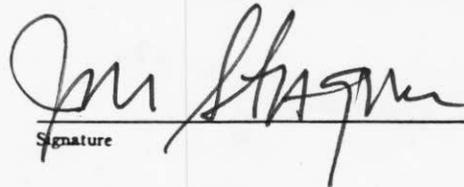
1431 E. 123rd Olathe, Kansas 66061

DETAILS OF WORK

(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

- 1) Displace annulus w/9.5#/gal. mud
- 2) Shoot 4½" casing @ 600' ± and pull
- 3) Set 50' cement plug 1150-1200' above open perms
- 4) Set 50' cement plug 25' below and 25' above point where casing is shot and pulled.
- 5) Set 50' cement plug 25' below and 25' above 7" surface casing set @ 257'
- 6) Set 10' cement plug 13' to 3', cut casing off @ 3' below ground level, weld on metal cap level location.

CERTIFICATE: I, the undersigned, state that I am the Vice President of the Sandstone Resources (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

Remit two copies; one will be returned

RECEIVED
OCT 05 1981
MO. OIL & GAS COUNCIL

MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

Form OGC-7

Owner: Sandstone Resources, Inc. Address: Cardinal Oil Building Frederick Ave

Name of Lease: W. G. Bermond Well No. 26-1 at 24th Street St. Joseph, Mo. 64506

Location of Well: Sec. 26 TWP. 58N Range 34W Sec-Twp-Rge or Block & Survey County Buchanan

| | | | |
|---|--|--|-------------|
| Application to drill this well was filed in name of W. G. Bermond | Has this well ever produced oil or gas no | Character of well at completion (initial production) Oil (bbls/day) - Gas (MCF/day) - | Dry? yes |
|---|--|--|-------------|

| | | | |
|-----------------------------|----------------------|---|------------------------|
| Date Abandoned: 10/22/81 | Total depth 1300' | Amount well producing prior to abandonment. Oil (bbls/day) - Gas (MCF/day) - | Water (bbls./day) - |
|-----------------------------|----------------------|---|------------------------|

| Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of abandonment | Fluid content of each formation | Depth interval of each formation | Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement. |
|---|---------------------------------|----------------------------------|--|
| no show | salt water | 1197-1212 | sq w/17sx Dowell |
| | | | RFC cmt. left 8 sx. above perfs (120' plug) |
| | | surface to 40' | 40' plug |

| Size pipe | Put in well (ft.) | Pulled out (ft.) | Left in well (ft.) | Give depth and method of parting casing (shot, ripped etc) | Packers and shoes |
|-----------|-------------------|------------------|--------------------|--|---------------------|
| 4 1/2 | 1295' | 0 | 1295' | | guide shoe @ 1295'. |

Was well filled with mud-laden fluid? no Indicate deepest formation containing fresh water. 250

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

| Name | Address | Direction from this well: |
|------|---------|---------------------------|
| none | | |

Method of disposal of mud pit contents: none

Use reverse side for additional detail: This well had 257' of 7" surface casing cemented to surface. Above procedure approved by Ira Satterfield.

Vice President Sandstone Resources, Inc.
 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.

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OCT 29 1981

Joseph M. Stogner
Signature



CARDINAL OIL CO.

CARDINAL OIL BUILDING • FREDERICK AVENUE AT 24th STREET • SAINT JOSEPH, MISSOURI 64506 • PHONE (816)233-4828

June 12, 1981

file of Hamilton Res.

Ira Satterfield
State Geologist
Missouri Geological Survey
Rolla, Missouri

Re: Samples
Bermond 26-1
Permit No.20005

Dear Ira,

Enclosed are the samples taken from the above referred well. As you can see from our sample inventory attached herewith, samples from several of the ten foot intervals are missing. I apologize for the poor quality and quantity of our samples. The drilling contractor had a great deal of trouble with his mud pump and on many occasions he drilled ahead without adequate returns to surface. We will do a better job of sample catching on our next well.

We set production casing and will be completing and testing this well within a month. We will send you the required completion forms when we finish our operations.

Sincerely yours,


J. M. "Mac" Stagner

JS/kg

Inventory of Samples

| | | |
|---------|---------|-----------|
| 0-10 | 265-270 | 700-710 |
| 15-20 | 270-275 | 710-720 |
| 20-25 | 275-280 | 720-730 |
| 25-30 | 280-285 | 730-740 |
| 30-35 | 285-290 | 740-750 |
| 35-40 | 290-295 | 750-760 |
| 40-45 | 295-300 | 760-770 |
| 45-50 | 300-305 | 770-780 |
| 50-55 | 305-310 | 780-790 |
| 55-60 | 315-320 | 790-800 |
| 60-65 | 320-325 | 800-805 |
| 65-70 | 325-330 | 820-830 |
| 70-75 | 330-335 | 830-840 |
| 75-80 | 335-340 | 840-850 |
| 80-85 | 345-350 | 850-860 |
| 85-90 | 350-355 | 860-870 |
| 90-95 | 355-360 | 870-880 |
| 95-100 | 360-365 | 880-890 |
| 100-105 | 370-375 | 900-910 |
| 105-110 | 395-400 | 920-930 |
| 110-115 | 410-415 | 930-935 |
| 115-120 | 415-420 | 935-940 |
| 120-125 | 420-425 | 950-955 |
| 125-130 | 435-440 | 955-960 |
| 130-135 | 440-445 | 960-965 |
| 135-140 | 455-460 | 965-970 |
| 140-145 | 460-465 | 980-985 |
| 145-150 | 475-480 | 985-990 |
| 150-155 | 480-485 | 990-995 |
| 155-160 | 495-500 | 995-1000 |
| 160-165 | 500-505 | 1000-1015 |
| 165-170 | 515-520 | 1015-1020 |
| 170-175 | 520-530 | 1020-1030 |
| 175-180 | 530-540 | 1050-1055 |
| 180-185 | 540-550 | 1100-1110 |
| 185-190 | 550-560 | 1100-1120 |
| 190-195 | 560-570 | 1160-1170 |
| 195-200 | 570-580 | 1170-1180 |
| 205-210 | 580-590 | 1183-1193 |
| 210-215 | 590-600 | 1192-1193 |
| 215-220 | 600-610 | 1195-1197 |
| 220-225 | 610-620 | 1197-1200 |
| 225-230 | 620-630 | 1200-1202 |
| 230-235 | 630-640 | 1202-1204 |
| 235-240 | 640-650 | 1204-1208 |
| 240-245 | 650-660 | 1208-1215 |
| 245-250 | 660-670 | 1214-1218 |
| 250-255 | 670-680 | |
| 255-260 | 680-690 | |
| 260-265 | 690-700 | |