

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK
 for an oil well or gas well

NAME OF COMPANY OR OPERATOR Continental Exploration, Inc. DATE October 17, 1990
4550 W. 109th St., Suite 206 Leawood Kansas 66211
 Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Zumwalt</u>	Well number <u>1</u>	Elevation (ground) <u>938</u>	
WELL LOCATION (give footage from section lines) <u>2,475</u> ft from <u>(S)</u> sec line <u>2,475</u> ft from <u>(E)</u> sec line			
WELL LOCATION Section <u>22</u> Township <u>45N</u> Range <u>33W</u>		County <u>Cass</u>	
Nearest distance from proposed location to property or lease line: <u>1,155</u> feet		Distance from proposed location to nearest drilling, completed or applied for well on the same lease: <u>N/A</u> feet	
Proposed depth <u>600</u>	Drilling contractor, name & address <u>Town Oil Company</u>	Rotary or Cable Tools <u>Rotary</u>	Approx. date work will start <u>October 20, 1990</u>
Number of acres in lease <u>316</u>		Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>1</u> Number of abandoned wells on lease: <u>0</u>	
If lease purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		No. of Wells	producing _____ injection _____ inactive _____ abandoned _____
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>\$20,000.00</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 <u>20 ft.</u>	size <u>6 1/2"</u>	wt / ft <u>16 lb.</u>	com. <u>to surface</u>
<u>600 ft.</u>	<u>2 7/8"</u>	<u>4.6 lb.</u>	<u>to surface</u>
_____	_____	_____	_____
_____	_____	_____	_____
I, the undersigned, state that I am the <u>president</u> of the <u>Continental Exploration, 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.			
41		Signature <u>[Signature]</u>	

Permit Number #20520
 Approval Date 10/18/90
 Approved by Jane Shelby Williams

- Drillers log required
- E-log required if run
- Core analysis required if run

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 OCT 17 1990
 MISSOURI OIL & GAS COUNCIL

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

MO OIL & GAS COUNCIL WATER SAMPLES REQUIRED



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

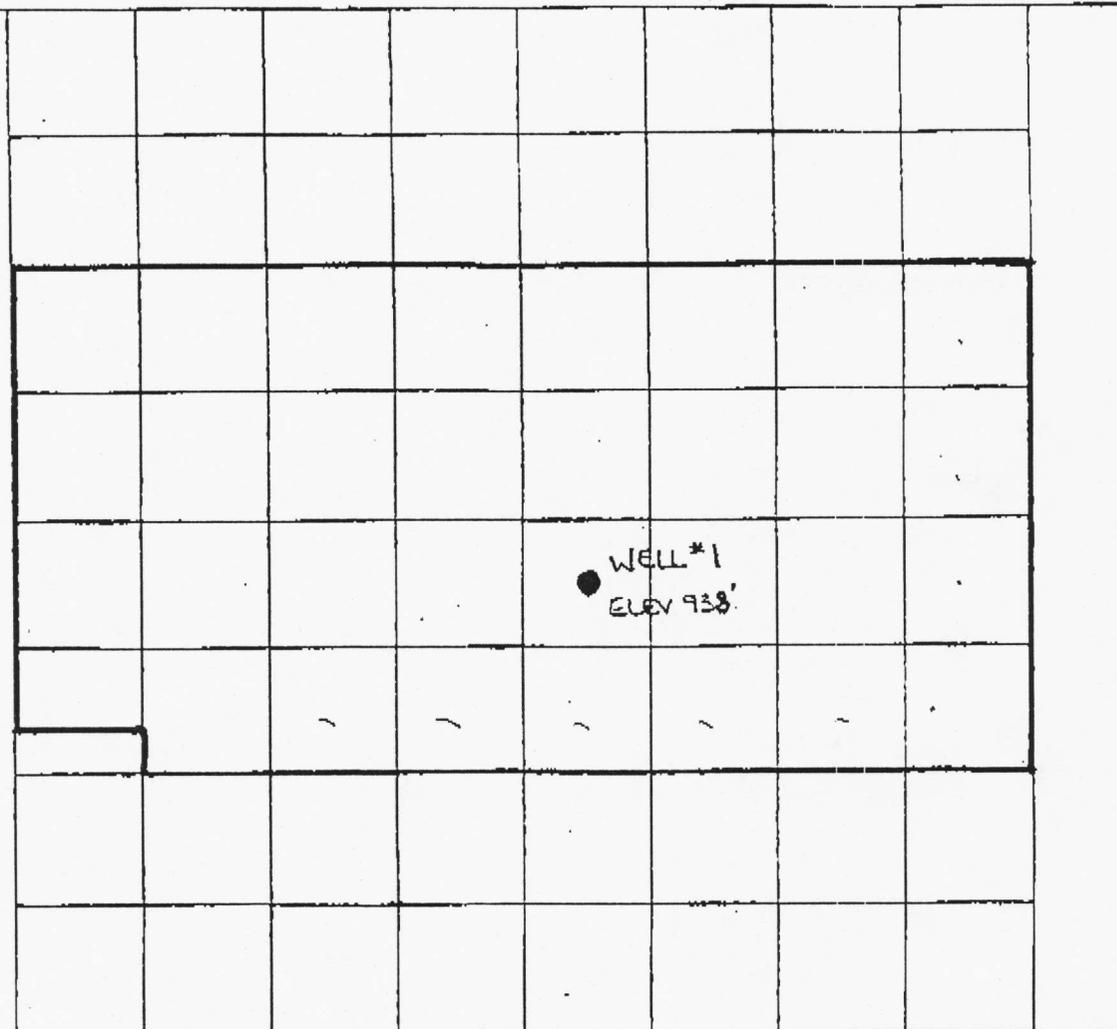
OWNER Continental Oil

LEASE NAME Zumwalt COUNTY Cass

2475 FEET FROM East SECTION LINE AND 2475 FEET FROM South SECTION LINE OF SEC. 22 TWP 45 N, RANGE 33
(N) - (E) (S) - (W)



SCALE
1" =



REMARKS

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.

Michael L. Baldus

REGISTERED LAND SURVEYOR

NUMBER

REMIT TWO (2) COPIES TO:
MISSOURI OIL AND GAS COUNCIL
P.O. BOX 250, ROLLA, MO 65401

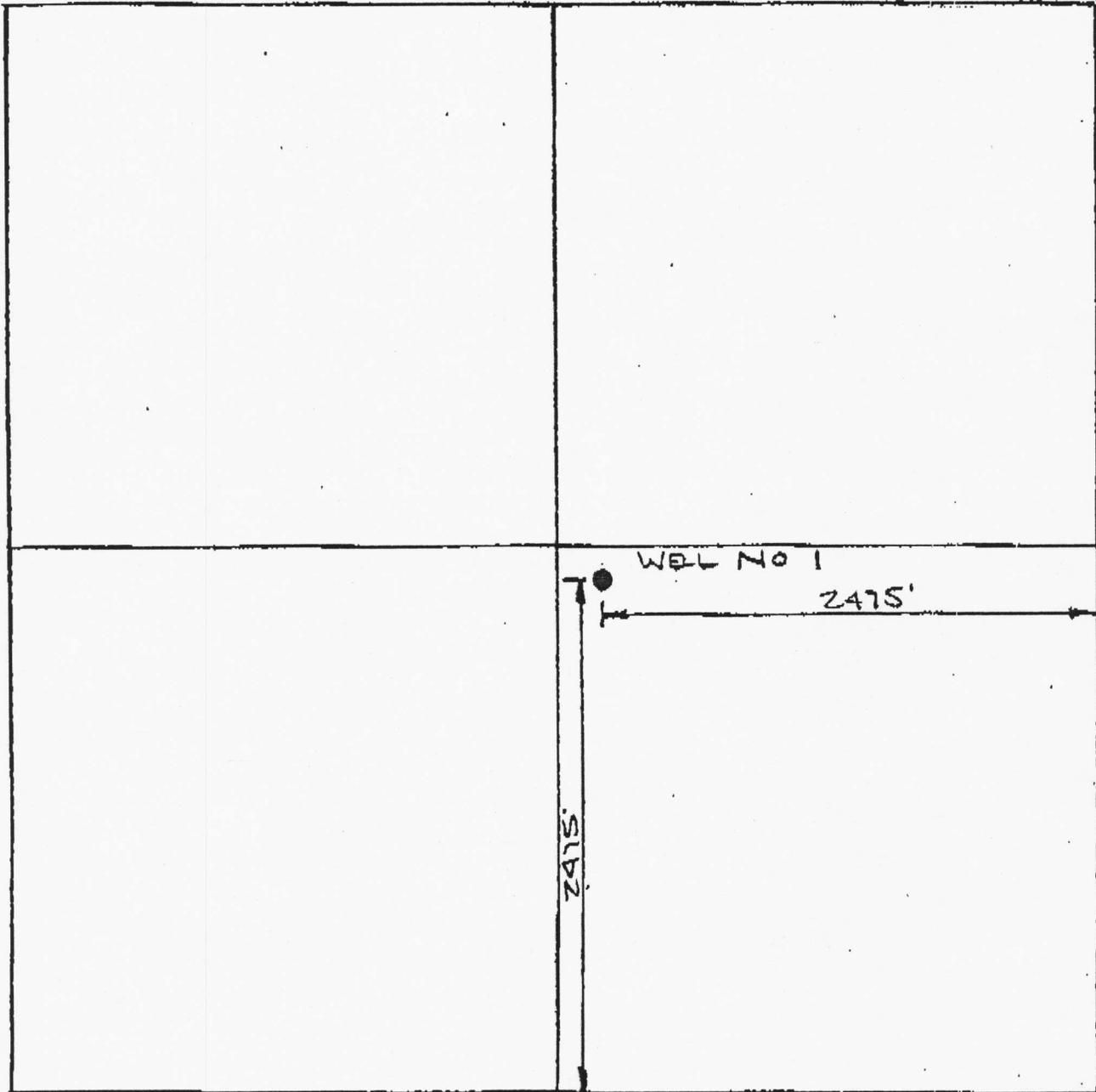
Michael L. Baldus

LS-2131

WELL LOCATION MAP

SECTION 22, T 45, R 33

CASS COUNTY, MISSOURI

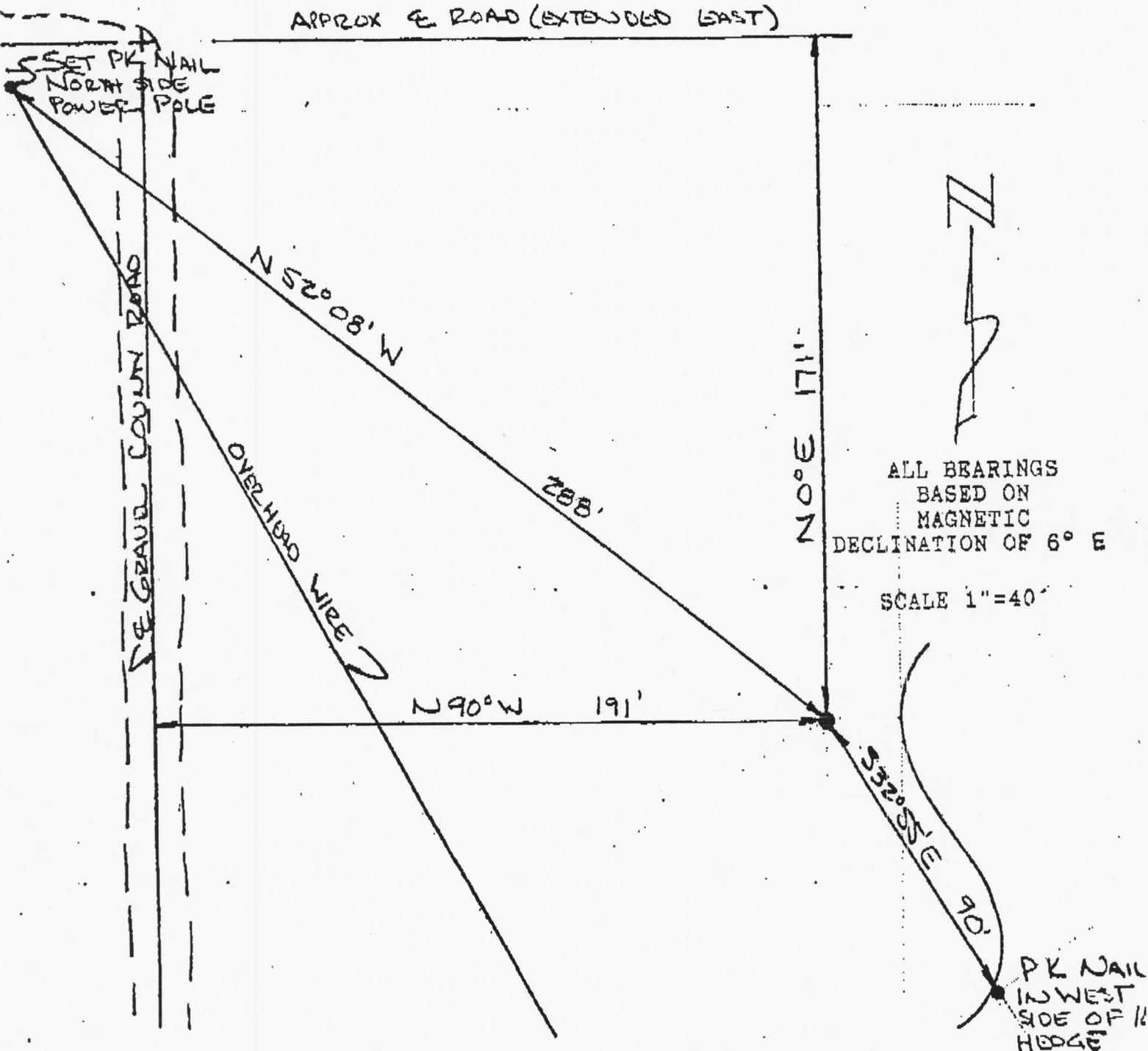


WELL REFERENCE TIES

WELL NO.

IN

SE 1/4 OF SEC. 22, T 45, R 33



THIS IS TO CERTIFY THAT THE ABOVE REFERENCE TIES SHOWN ARE IN ACCORDANCE WITH THE CURRENT MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS AS ESTABLISHED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.

**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form OGC-7

Owner Continental Exploration, Inc.	Address 4550 W. 109th St., Ste. 206, Leawood, KS 66211
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Name of Lease Zumwalt	Well No. 1	
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Location of Well 2,475 from SSL 2,475 from ESL	Sec-Twp-Rge or Block & Survey 22 45 33	County Cass
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Application to drill this well was filed in name of Continental Exploration, Inc.	Has this well ever produced oil or gas N/A	Character of well at completion (initial production) Oil (bbls/day) N/A Gas (MCF/day) N/A	Dry? yes
Date Abandoned: 10/23/90	Total depth 660	Amount well producing prior to abandonment. Oil (bbls/day) Dry Gas (MCF/day) N/A	Water (bbls./day) N/A

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.
Dry			5 sacks at 375'
			15 sacks 115' to surface

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
6 1/4	20		20		

Was well filled with mud-laden fluid?	Indicate deepest formation containing fresh water.
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NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:

Method of disposal of mud pit contents: N/A	
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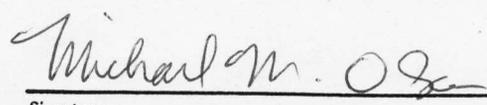
Use reverse side for additional detail
File this form in duplicate with

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MO Oil & Gas Council

CERTIFICATE: I, the undersigned, state that I am the vice-president of the Continental Exploration, 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.



 Signature Michael M. Olson

TOWN OIL COMPANY

"Drilling and Production"

913-294-2125

Route 4
Paola, Kansas 66071

Well #1
Farm: Zumwalt
Cass County, MO.
Lease Owner: Continental Exploration, Inc.

WELL LOG

Thickness of Strata	Formation	Total Depth
0-9	Soil & clay	9
10	Lime	19
3	Shale	22
2	Slate	24
2	Shale	26
3	Lime	29
5	Lime	34
13	Lime	47
4	Shale & slate	51
12	Lime	63
2	Shale	65
3	Sandy shale	68
13	Shale	81
4	Sand	85
5	Shale	90
5	Sandy shale	95
15	Shale	110
8	Sandy shale	118
1	Sandy shale	119
44	Shale	163
1	Shale	164
2	Sand	166
4	Sand	170
7	Shale	177
20	Shale	197
1	Shale	198
1	Shale	199
2	Shale/shell	201
3	Lime	204
9	Shale	213
10	Shale	223
6	Shale	229
2	Sandy lime	231
4	Sandy shale	235
19	Shale	254
4	Lime	258
5	Shale & slate	263
5	Shale	268
5	Lime	273
2	Lime	275
18	Shale	293
4	Lime	297
4	Slate	301
9	Sand	310
3	Sand	313
5	Shale	318

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Well #1
 Farm: Zumwalt
 Cass County, KS.
 Lease Owner: Continental Exploration Inc.

WELL LOG (cont'd)

Thickness of Strata	Formation	Total Depth
1	Coal	319
21	Shale	340
4	Sand	344
2	Shale	346
2	Sand	348
2	Shale	350
4	Sand	354
1	Sandy lime	355
13	Sand	368
9	Shale	377
3	Sand/shale	380
3	Sand	383
3	Sand	386
36	Sandy shale	422
2	Sandy lime	424
8	Sand	432
16	Sand	448
5	Sand	453
8	Shale	461
1	Lime	462
23	Shale	485
2	Shale & slate	487
7	Shale	494
3	Coal & shale	497
8	Shale	505
5	Shale	510
10	Shale	520
2	Shale & slate	522
3	Shale	525
2	Lime shell	527
3	Shale & slate	530
5	Shale	535
5	Shale	540
12	Shale	552
13	Sand white	565
5	Sand/shale	570
20	Shale	590
3	Shale	593
5	Shale	598
6	Sand	604
3	Shale	607
13	Sand	620
13	Shale	632
8	Sand	640
10	Sand	650
10	Sand	660

TD

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MO Oil & Gas Council

Permit #: 20520

Date Issued: 10-18-90

County: Cass

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 10-23-90

OGC FORMS	Date Received
1	
2	
3	10-17-90
3i	
4	10-17-90
4i	
5	
6	
7	3-14-91
8	
11	
12	
Misc. Form 2	

COMMENTS:

	TYPE	ID #	Date Received
Logs	well logs		3-14-91
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data: