

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR CARMEL ENERGY, INC. DATE 12/24/80
5599 San Felipe, Suite 1212 Houston Texas 77056
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Wayne E. Vacca</u>	Well number <u>VA 4-1</u>	Elevation (ground) <u>845.9 ft.</u>	
WELL LOCATION (give footage from section lines) <u>1262</u> ft. from (N) <input checked="" type="checkbox"/> (S) sec. line <u>2508</u> ft. from (E) <input type="checkbox"/> (W) sec. line			
WELL LOCATION Section <u>4</u> Township <u>33N</u> Range <u>33W</u>			County <u>Barton</u>
Nearest distance from proposed location to property or lease line: <u>185</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>250 ft.</u>	Rotary or Cable tools <u>Rotary</u>	Approx. date work will start <u>A.S.A.P.</u>	
Number of acres in lease: <u>160.38</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 <u>N/A</u> Address _____		No. of Wells: producing _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</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: <u>N/A</u>		Approved casing - To be filled in by State Geologist	
amt.	size	wt./ft.	cem.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
I, the undersigned, state that I am the <u>Petroleum Engineer</u> of the <u>CARMEL ENERGY, 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>Vincent R. Young</u>			

Permit Number: 120036
Approval Date: 1-2-81
Approved By: Wallace B. Howe
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

DISTRIBUTION:
1 copy Houston
1 copy Deerfield
P.O. Box 59
Deerfield, MO
64741
Approval Limited to Stratigraphic Test Only

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
DEC 31 1980
MO. OIL & GAS COUNCIL
WATER SAMPLES REQUIRED @:

**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form OGC-7

Owner **CARMEL ENERGY, INC.** Address **5599 San Felipe, Suite 1212
Houston, Texas 77056**

Name of Lease **Wayne E. Vacca** Well No. **VA-4-1** Sec. **4**, T**33N**, R**33W**

Location of Well **1262 FSL, 2508 FEL** Sec-Twp-Rge or Block & Survey _____ County **Barton**

Application to drill this well was filed in name of **Carmel Energy, Inc.** Has this well ever produced oil or gas **no** Character of well at completion (initial production) Oil (bbls/day) **---** Gas (MCF/day) **---** Dry? **no**

Date Abandoned: **4/81** Total depth **102'** 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.
Lower Bluejacket	Oil & water	87'-96'	n/a

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
none					

Was well filled with mud-laden fluid? **Yes** Indicate deepest formation containing fresh water. **none**

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

Name	Address	Direction from this well:
Wayne E. Vacca	Arcadia, Kansas	West

Method of disposal of mud pit contents: **No pit used.**

Use reverse side for additional detail
File this form in duplicate with **Well was plugged from T.D. to surface with Class A Portland cement.**

CERTIFICATE: I, the undersigned, state that I am the **Geologist** of the **CARMEL ENERGY, 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.

DISTRIBUTION:

**1 COPY - HOUSTON
1 COPY - DEERFIELD
P.O. BOX 59
DEERFIELD, MO 64741**

RECEIVED

JUN 10 1981

Raymond M. Follador

Signature **Raymond M. Follador**

MO. OIL & GAS COUNCIL

LOG OF BORING NO. VA 4-1

CONFIDENTIAL
 to 12-24-81 JRS

TEST DRILLING SERVICE CO.

PHONE: (314) 291-1111 2500 DRILLING SERVICE DR. MARYLAND HEIGHTS, MO. 63043
 ST. LOUIS COUNTY

PROJECT CARMEL ENERGY

JOB NO. 80-106

BORING LOCATION VA 4-1

SURFACE EL. _____

INSPECTOR: Jeff

RIG: 763

(FINISH) 12-21-80

(START) 12-19-80

DEPTH	CLASSIFICATION		DATE	TIME	CORE RUN		TOTAL RUN	RECOVERY	
	FROM	TO			FROM	TO		TOTAL	%
0.0	6.5	Top Soil (Red)							
6.5	17.0	Clay, Tan							
17.0	22.0	Sandstone							
22.0	28.0	Clay, Gray (Gritty)							
28.0	51.8	Sandstone			30.0	37.0	7.0	7.0	100
51.8	53.0	Dark Shale & Limestone			37.0	47.0	10.0	10.0	100
53.0	61.4	Shale, Light Gray			47.0	57.0	10.0	10.0	100
61.4	61.6	Coal			57.0	67.0	10.0	10.0	100
61.6	79.3	Shale, Light Gray			67.0	77.0	10.0	10.0	100
79.3	79.8	Sandstone (Dead Oil)			77.0	87.0	10.0	10.0	100
79.8	87.0	Interbedded Shale & Sandstone			87.0	97.0	10.0	10.0	100
87.0	95.5	Oil Sandstone			97.0	102.0	5.0	5.0	100
95.5	97.7	Interbedded Shale & Sandstone							
97.7	98.6	Coal							
98.6	102.0	Shale, Light Gray							

REMARKS: Set 7.0' Surface Casing. Open Holed 30.0', 12-20-80.

8 Boxes of Core.

DEC 27 1980
 8 GAS COUNCIL
 MW

Permit #: 20036

Date Issued: 1-2-81

County: Barton

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 4-81

OGC FORMS	Date Received
1	
2	
3	<u>1-2-81</u>
3i	
4	
4i	
5	
6	
7	<u>1-10-81</u>
8	
11	
12	
Misc. Form 2	

COMMENTS:

strat test
From Bluejacket

	TYPE	ID #	Date Received
Logs	test bench		<u>12-24-81</u>
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data: