Permit #: 20023 Date Issued: 12-1-81

County: Bates Date Cancelled:

CONFIDENTIAL UNTIL: Date Plugged: 11-5-81

OGC FORMS	Date Received
1	
2	
3	11-30-81
3i	
4	
4i	
5	
6	
7	12-18-81
8	
11	
12	
Misc. Form 2	

COMMENTS:

strat test
Tm@TD Warner

	TYPE	ID #	Date Received
Logs	drillers		
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data:
sat & perm

MISSOURI OIL AND GAS COUNCIL

Form OGC - 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☑ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR TOSCO Production Finance Corp. DATE 11/27/81

10100 Santa Monica, Blvd. (Address) Los Angeles (City) California (State) 90067

DESCRIPTION OF WELL AND LEASE

Name of lease	Well number	Elevation (ground)
Sears	CH-8H	898.4

WELL LOCATION (give footage from section lines)

1401 ft. from (N) (☑) sec. line 131 ft. from (E) (☑) sec. line

WELL LOCATION Section 9 Township 38N Range 33W County Bates

Nearest distance from proposed location to property or lease line: 131 feet

Distance from proposed location to nearest drilling, completed or applied – for well on the same lease: 0 feet

Proposed depth	Rotary or Cable tools	Approx. date work will start
450'	Rotary	A.S.A.P.

Number of acres in lease: 160

Number of wells on lease, including this well, completed in or drilling to this reservoir: 1

Number of abandoned wells on lease: 0

If lease purchased with one or more wells drilled, from whom purchased: Name _____ Address _____

No. of Wells: producing _____ inactive _____ abandoned _____

Status of Bond

Single Well ☐ Amt. _____ Blanket Bond ☑ Amt. $20,000 ☑ 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.

Proposed casing program				Approved casing – To be filled in by State Geologist			
amt.	size	wt./ft.	cem.	amt.	size	wt./ft	cem.

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.

Signature Raymond M. Folladori

Permit Number 20023

Approval Date 12/1/81

Approved By Wallace B. Duvall IRS

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
1 COPY TOSCO

☑ SAMPLES REQUIRED ☐ SAMPLES NOT REQUIRED

WATER SAMPLES REQUIRED @ _____

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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.

MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

Form OGC-7

Owner: TOSCO Production Finance Corp.	Address: 10100 Santa Monica Blvd. Los Angeles, California 90067		
Name of Lease: Sears	Well No.: CH-8H	Sec. 9 T38N - R33W	
Location of Well: 1401 FNL 131 FEL Elev. 898.4	Sec-Twp-Rge or Block & Survey	County: Bates	
Application to drill this well was filed in name of: TOSCO	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: 11/5/81	Total depth: 450'	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.
WARNER	Oil + water + Gas	375-386' + 397-427'	

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:
Lance Sears	Box 74 Hume, Mo. 64752	South

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Method of disposal of mud pit contents: NO Pit used. (Portable Pit)

Use reverse side for additional detail

File this form in duplicate with

Well was plugged with Class A Portland Cement. From T.D. to surface.

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.

Raymond M. Folladay
Signature

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P.O. BOX 59
DEERFIELD, MO 64741
1 COPY TOSCO

CONFIDENTIAL until 11/5/82

Remit two copies; one will be returned

BMW

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Tosco Production Finance Corp. Lease Sears Well No. CH-8H

Location

Section 9 Twp. 38N Rge. 33W County Bates State Missouri

Elevation, Feet	
Name of Sand	WARNER
Top of Core	354.0
Bottom of Core	404.0
Top of Sand	357.0
Bottom of Sand	404.0
Total Feet of Permeable Sand	12.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 40	5.4	5.4
80 - 100	2.4	7.8
125 - 200	3.8	11.6
240 - 245	1.0	12.6

Average Permeability Millidarcys	93.2
Average Percent Porosity	21.4
Average Percent Oil Saturation	27.2
Average Percent Water Saturation	41.3
Average Oil Content, Bbls./A. Ft.	459.
Total Oil Content, Bbls./Acre	5,778.

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OILFIELD RESEARCH LABORATORIES

LOG

Name Tosco Production Finance Corp. Lease Sears

Well No. CH-8H

Depth Interval, Feet	Description
354.0 - 357.0	Gray shale.
357.0 - 358.0	Grayish brown shaly sandstone.
358.0 - 359.5	Brown sandstone.
359.5 - 364.0	Gray sandy shale.
364.0 - 375.0	Grayish brown shaly sandstone.
375.0 - 376.2	Gray and brown laminated shale and sandstone.
376.2 - 384.0	Grayish brown sandstone with some fine shale partings.
384.0 - 397.1	Gray shale.
397.1 - 403.1	Gray and brown laminated shale and sandstone.
403.1 - 404.0	Light brown sandstone.

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Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tosco Production Finance Corp. Lease Sears Well No. CH-8H

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	357.6	17.1	2	48	50	27	7.7	1.0	1.0	27	7.70
2	358.5	21.1	45	24	69	740	84.	1.5	2.5	1110	126.00
3	375.8	18.8	18	38	56	263	36.	1.2	3.7	316	43.20
4	378.5	21.9	17	54	71	289	127.	1.4	5.1	405	177.80
5	380.7	24.2	25	57	82	469	199.	1.0	6.1	469	199.00
6	383.4	23.7	31	35	66	570	241.	1.0	7.1	570	241.00
7	398.6	20.5	36	41	77	573	22.	1.8	8.9	1031	39.60
8	400.4	21.3	34	42	76	562	35.	1.4	10.3	787	49.00
9	402.5	23.2	33	36	69	594	149.	1.4	11.7	832	208.60
10	403.6	22.1	15	44	59	257	92.	0.9	12.6	231	82.80

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6220

S.L. 2639.20' 1/4 S88°56'45"E 2639.20' S.L.

S.L.

Lance Sears Tract
160.3 acres

CH-8H

S2°03'41"W 2643.19'

SEC. 9

1/4 Lease Property Line 1/4

5292.40'

N2°11'51"E

T38N R33W

2643.18'

S.L. N89°00'30"W 5292.68' S.L.

1/4

S.L. S.L.

o denotes Well Located
○ " Iron Pin Set
● " " " Found

Well No.
CH- 8H Elev. 898.4
130.73' E. to E/L Sec. & L.L.
1401.46' N. to N/L Sec.

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I, CHARLES M. HENRY, Missouri Registered Land Surveyor No. 1374, hereby certify that the survey shown hereon was made by me or under my direction and that said survey is true and complete as shown.

Date: November 25, 1981 Signed: Charles M. Henry

MISSOURI No. LS-1374 CHARLES M. HENRY REGISTERED LAND SURVEYOR

R. L. ELGIN & ASSOCIATES
ENGINEERS & SURVEYORS
ROLLA & NEVADA, MISSOURI

REVISIONS		
NO.	DATE	BY
1		
2		
3		
4		
5		

Well Located in Sec. 9, T38N, R33W, Bates County, Missouri

FOR Carmel Energy, Inc.
5599 San Felipe Suite 1212
Houston, Texas 77056

DRAWN BY C.M.H. SCALE 1"=400' DRAWING NO. N-833
CHK'D DATE 11/25/81

BRUNING 40-21 28386-2