Form OGC - 3

MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR Landmark Production Inc. DATE 1981/01/28

c/o Odyssey Petroleum Inc.
1801 B S. Butler Dr. Harrisonville Missouri 64701

Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease	Well number	Elevation (ground)
Larry F. Vest	1	1005

WELL LOCATION (give footage from section lines)
393 ft. from (N) (~~S~~) sec. line 182 ft. from (E) (~~W~~) sec. line

WELL LOCATION Section 7 Township 43 Range 33 County Cass

Nearest distance from proposed location to property or lease line: 182 feet

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

Proposed depth:	Rotary or Cable tools	Approx. date work will start
700	Rotary	January 30, 1981

Number of acres in lease: 181.57

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

Number of abandoned wells on lease: 10

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. $40,000.

☒ 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:

amt.	size	wt./ft.	cem.
125 ft	7"	17	to surface

Approved casing – To be filled in by State Geologist

amt.	size	wt./ft.	cem.

I, the undersigned, state that I am the agent of the Landmark Production 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 M B Nathan

Permit Number: 20141

Approval Date: 2/2/81

Approved By: J.R.S. Wallace B. Hess

RECEIVED
FEB 02 1981
MO. OIL & GAS COUNCIL

☒ SAMPLES REQUIRED
☐ SAMPLES NOT REQUIRED

WATER SAMPLES 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.

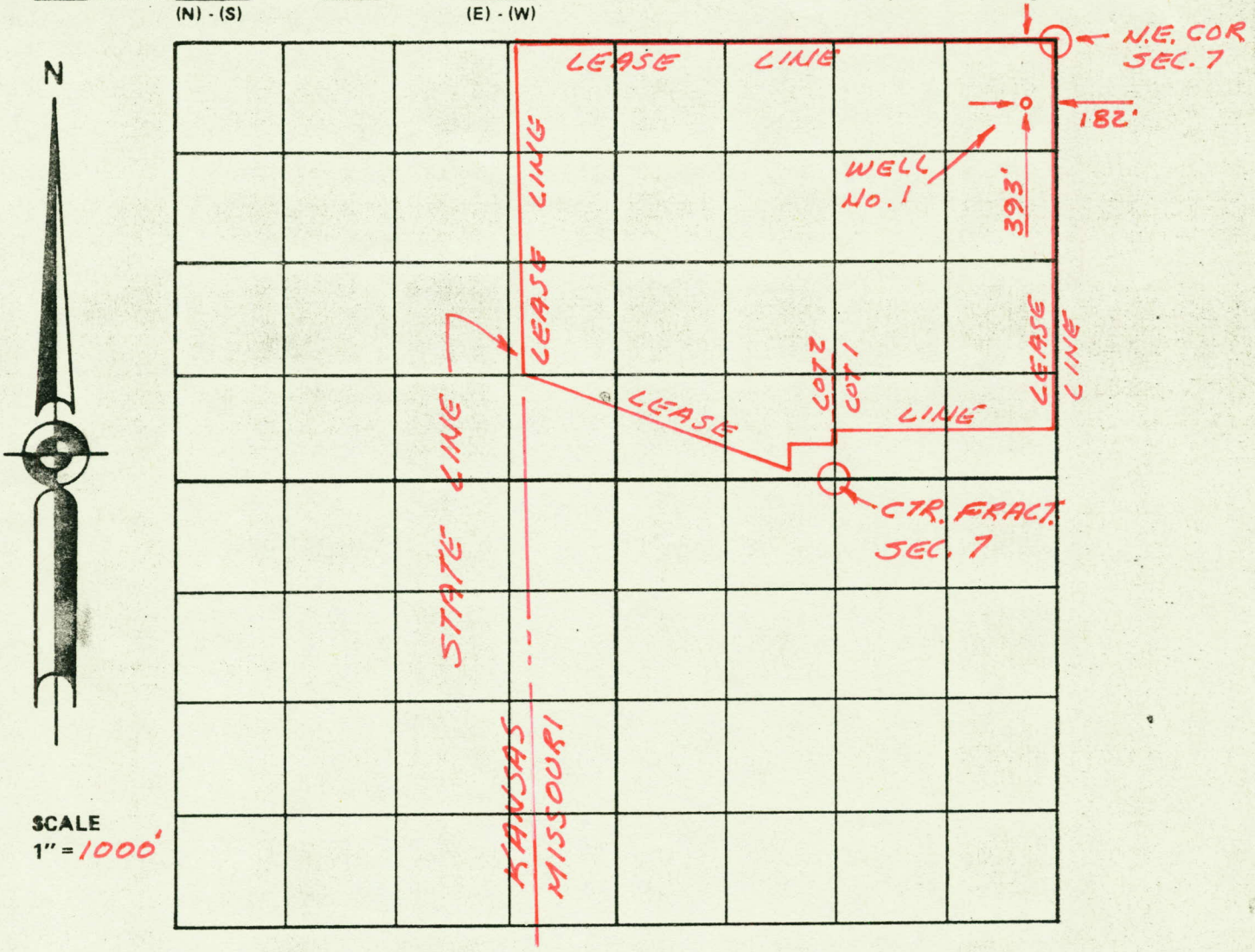
Form OGC—4

MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Owner: Landmark Production, Inc.

Lease Name: Larry F. Vest **County:** Cass

393 feet from North (N) - (S) line and 182 feet from East (E) - (W) line of Sec. 7, Twp. 43 N, Range 33.



SCALE 1" = 1000'

REMARKS: Well No. 1

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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FEB 02 1981

MO. OIL & GAS COUNCIL

MISSOURI No. LS-918 HOWARD L. SHERMAN REGISTERED LAND SURVEYOR (SEAL)

Registered Land Surveyor

918

Number

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

will be returned.

Missouri Oil and Gas Council

Form OGC-7

PLUGGING RECORD

Owner	Address
Landmark Production, Inc.	10950 Grandview, Suite 350 Overland Park, Kansas 66210

Name of Lease	Well No.	Permit Number (OGC-3 or OGC-3I number)
Larry Vest	#1	20141

Location of Well	Sec-Twp-Rng or Block & Survey	County
		Cass

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

Date Abandoned	Total depth	Amount well producing prior to abandonment Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)
8/82	800'	0	0	

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.
Burgess	Trace of Water	752' - 756'	B.P. @ 560'

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
7"	179'	0	179'	None	None
4½"	795'	0	795'	None	None

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

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

Name	Address	Direction from this well:
Flaua Dell Osborn	Cass Co., Mo.	South
Roger B. Schroeder	Rt. 2, Drexel, Mo.	North
Homer R. Snedden	Louisburg, Ks. 66053	East
	State of Kansas	West

Method of disposal of mud pit contents: Unloaded, Dried Naturally, and Filled In. We cemented to surface and then cut the casing off below plow depth.

Use reverse side for additional detail.

File this form in duplicate with

CERTIFICATE: I, the undersigned, state that I am the Manager of the Landmark Production (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 Monroe M. Rees

RECEIVED

SEP 02 1982

MO. OIL & GAS COUNCIL

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

One will be returned.

3/12/82

VEST WELL #1

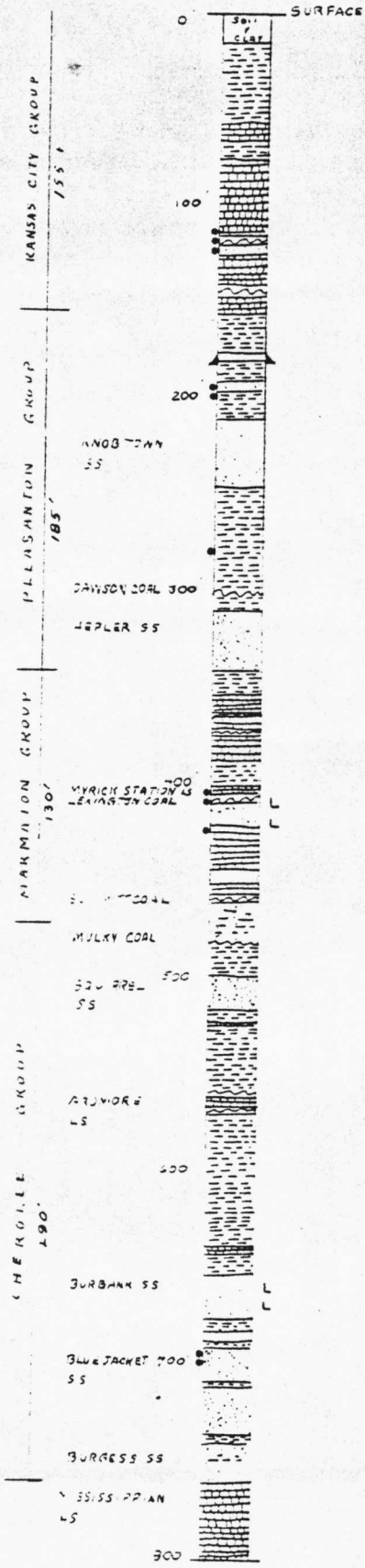
The Larry Vest well was drilled between the dates of February 1 and February 5, 1981. The hole has a normal section. The Hepler Formation is 30' thick; the Englevale sandstone member is 10' thick. The Squirrel section is approximately 15' thick, but appears from the log to be shaley. Bartlesville sand is in the order of 22' thick.

The return of reliable drill cuttings from below a depth of 440' was not possible. The excess annular space below this depth, in combination with the limited amount of air being produced, resulted in redrilling of the samples and excessive time delay for their arrival at surface. In drilling with air as a circulating media, it is necessary to maintain an up-hole velocity of 3,000' per minute. Unless this rate is maintained, the samples fall back in the air column and are subject to redrilling.

There were 8 indications of oil in the hole and a total of 4 favorable log indications. The hole was making gas from a depth of 280'. The gas input to the hole gradually increased as the hole gained depth.

L VEST NO 1

Sec 7 T-3 N R 33 W



Name of Lease: Larry Vest

Number Acres in Lease: 181.57

Location: NE 1/2-Sec 7-T43N-R33W

Date of Report: April 30, 1981

County: Cass

State: Missouri

Well No: 1

Well Location: Sec 7, T43N-R33W
393' fr. N line
182' fr. E line

Company: Odyssey Joint Venture

Surface Elevation: 1,005'

Casing Record: 7" 17# H-40 to 179'

Date Spudded: February 1, 1981

Cementing Record: 70 Sacks, Portland A; 3 Sacks Returned

Date Completed or Abandoned:

Hole Size:
9-7/8" to 180'
6-1/4" to 800'

Total Depth: 800'

Permanent Datum G. L. Elev. K. B. --
Log Measured from G. L. D. F. --
Drill Measured from G. L. G. L. 1,005'

Sample Description

Formation	Depth(s)	Unit Description
	0-15	soil and clay; tan grading downward to light brown, silt and fine sand; calcareous in part
	15-20	shale, light tannish gray to gray, arenaceous
	20-60	shale, light gray, silty and sandy
	60-75	shale, gray, sandy; minor (10%) brown to tan limestone, fine-grained, dense
	75-80	limestone, mixed dark gray-gray, thin-bedded
	80-85	limestone, dark gray to black, mixed with lighter limestone fragments; thin-bedded, fossiliferous (fusuline); minor fine sand

Vest - Well No. 1

85-100	limestone, dark gray, tan, fine-grained; with sandstone, light tan, fine-grained
100-110	limestone, gray, tan, dark tan, brown, few dark fragments
110-115	limestone, tan; 40% dark gray to black; possible oil staining few fragments
115-120	shale, black, hard, fissile, highly carbonaceous; with tannish sandstone; minor shale, green, soft
120-125	sand, dark brown to brown, fine-grained, calcareous; show dead oil, grain sized; no fluorescence, no odor; dead oil floats upon sample water
125-130	limestone; sandstone, light tan; show dead oil; faint odor, no fluorescence
130-140	limestone, light tan, fine-grained; crystalline, minor coal fragments
140-145	coal, black, fissile
145-150	coal; shale, gray and sandy; limestone, light tan
150-155	limestone, light tan; shale, gray, 35%
155-160	shale, gray; minor limestone fragments; calcareous
160-175	shale, gray
175-180	sandstone, light tan to gray, fine-grained
180-185	shale, gray; limestone fragments, coal-mostly slough
185-190	shale, gray; few fragments - coal, limestone, tan
190-195	sand, dark gray, fine to very fine; very fine specks of carbon or carbonaceous particles; odor of petroleum strong
195-200	shale, gray, sandy, grading to very fine sandstone, dark gray; minor specks dead oil; odor of petroleum much less

Vest - Well No. 1

200-205	shale, gray, sandy, carbonaceous with fine streaks and irregular blebs carbon intermittently mixed with fine sand in the shale
205-210	shale, gray, sandy, carbonaceous, approaching fine-grained sandstone
210-215	sandstone, gray, very fine-grained, pyritic and carbonaceous
215-245	sandstone, gray, very fine-grained, carbonaceous
245-250	shale, gray, sandy; grades downward from sandstone to sandy shale
250-260	shale, gray, sandy grading to silty
260-275	shale, dark gray, minor black shale with carbonaceous material
275-280	shale, blue-gray, sandy-showing of gas bubbles on some chip surfaces
280-300	shale, blue-gray, sandy; carbon fragments along parting planes
300-305	coal, black
305-310	shale, gray, sandy
310-335	sandstone, dark gray to tan, very fine-grained, calcareous
335-340	shale, dark gray, fissile, calcareous
340-355	shale, dark gray to black, thin flakes
355-380	limestone, light tan to gray, carbon common
380-385	limestone, light tan, oolitic (?), sandy
385-400	shale, light gray, sandy, pyritic
400-405	limestone, brown to light brown, sucrosic; shale, gray, sandy; few fragments carbonized, highly pyritic

Vest - Well No. 1

405-410	coal, black, dense
410-415	shale, gray; minor showings of carbon (coal) and carbonaceous staining in sandy shale
415-420	sandstone, gray, fine-grained
420-425	sandstone, brown, fine-grained; oil stained
425-430	sandstone, gray, fine-grained; minor carbon
430-435	sandstone, gray, fine-grained, carbonaceous
435-440	missing
440-T.D.	no reliable sample returns

Permit #: 20141

County: Cass

CONFIDENTIAL UNTIL:

Date Issued: 2-2-81

Date Cancelled:

Date Plugged: 8-8-2

OGC FORMS	Date Received
1	
2	
3	2-2-81
3i	
4	2-2-81
4i	
5	
6	
7	9-2-82
8	
11	
12	
Misc. Form 2	

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

Additional Submitted Data:

COMMENTS: