

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR Landmark Production Inc. DATE March 10, 1981  
c/o Odyssey Petroleum Inc.  
1801 B S. Butler Dr. Harrisonville, Missouri  
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Harold &amp; Dorothy Bishop</u>		Well number <u>1</u>	Elevation (ground) <u>980</u>
WELL LOCATION (give footage from section lines) <u>492</u> ft. from (N) <u>6</u> sec. line <u>1144</u> ft. from (E) <u>W</u> sec. line			
WELL LOCATION Section <u>32</u> Township <u>44</u> Range <u>33</u>		County <u>Cass</u>	
Nearest distance from proposed location to property or lease line: <u>166</u> feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: _____ feet	
Proposed depth: <u>700</u>	Rotary or Cable tools <u>Rotary</u>	Approx. date work will start <u>March 18, 1981</u>	
Number of acres in lease <u>100.0</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>2</u>	
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 <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: amt. <u>50ft</u> size <u>7</u> wt./ft. <u>17#</u> to surface cem. _____		Approved casing - To be filled in by State Geologist amt. _____ size _____ wt./ft. _____ cem. _____	
I, the undersigned, state that I am the <u>Agent</u> of the <u>Landmark Production 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>M.R. Wallace</u>			

Permit Number 20164  
Approval Date 3/18/81  
Approved By J.R.L. Wallace B. Howe

SAMPLES REQUIRED **RECEIVED**  
 SAMPLES NOT REQUIRED **MAR 16 1981**

Note: This Permit not transferable to any other person or to any other location.

WATER SAMPLES REQUIRED  OIL & GAS COUNCIL

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.

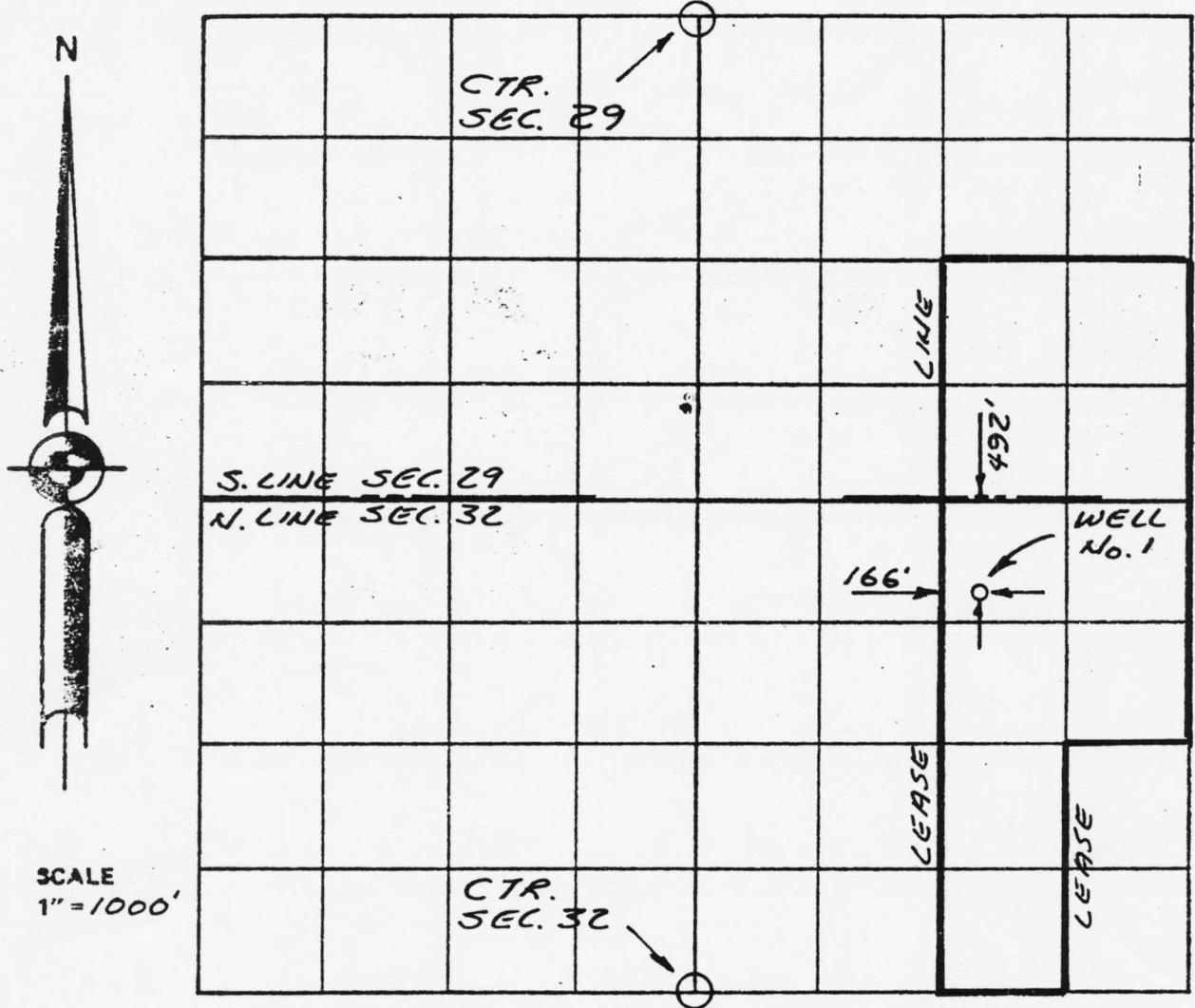
MISSOURI OIL AND GAS COUNCIL  
WELL LOCATION PLAT

Form OGC-4

Owner: Landmark Production Inc.

Lease Name: Harold & Dorothy Bishop County: Cass

492 feet from north line and 1144 feet from East line  
(N) - 187 (E) - 447 of Sec. 32, Twp. 44 N, Range 33



REMARKS: \_\_\_\_\_

Well # 1

Elevation 980

\_\_\_\_\_

\_\_\_\_\_

INSTRUCTIONS

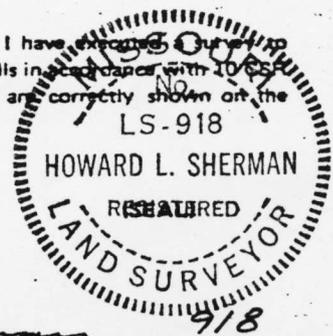
On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements.

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.

RECEIVED

MAR 16 1981

MO. OIL & GAS COUNCIL



*Howard Sherman*  
Registered Land Surveyor

Number

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

One will be returned.

PLUGGING RECORD

Owner Landmark Production, Inc.		Address 10950 Grandview #350 Overland Park, Kansas 66210			
Name of Lease Harold and Dorothy Bishop		Well No. #1	Permit Number (OGC-3 or OGC-3I number) 20164		
Location of Well Sec. 32 - T44N - R33W		Sec-Twp-Rng or Block & Survey		County Cass	
Application to drill this well was filed in name of Landmark Production, Inc.		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 8/82	Total depth 800'	Amount well producing prior to abandonment Oil (bbls/day) 0 Gas (MCF/day) 0		Water (bbls/day) 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.	
Bartlesville	Trace	618' - 624'		B.P. @ 460'	
Hepler	None	210' - 216'			
Hepler	Trace of Oil	220' - 226'		B.P. @ 218'	
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"	40	0	40	None	None
4½"	773	0	773	None	None
Was well filled with mud-laden fluid? No		Indicate deepest formation containing fresh water.			
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name		Address		Direction from this well:	
Anton Bauerle		Drexel, Mo. 64742		West	
Harold J. McGeeney		Jackson Co., Mo.		South	
Dorotha Corine Crook		West Line, Mo.		North	
Evelyn Courier Curran		1102 S. Cedar, Independence, Mo.		East	
Method of disposal of mud pit contents: Unloaded, Dried Naturally, and Filled in. We cemented to surface and cut off casing below plow depth.					
Use reverse side for additional detail.					
File this form in duplicate with					
CERTIFICATE: I, the undersigned, state that I am the <u>Morgan</u> of the <u>Landmark Production, 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>Morgan M. Rees</u>					

RECEIVED

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

SEP 02 1982

One will be returned.

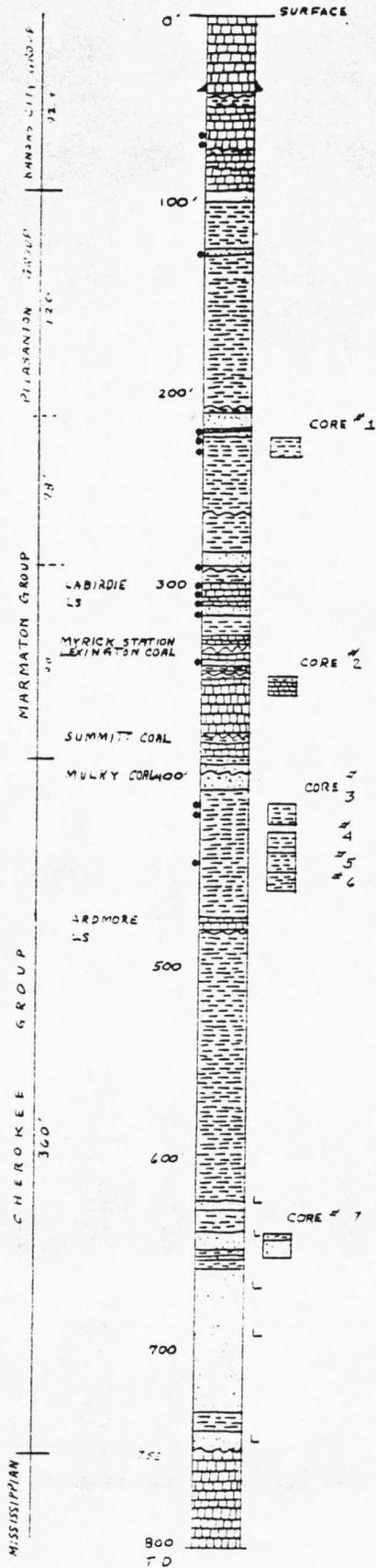
MO. OIL & GAS COUNCIL

3/12/82

BISHOP WELL #1

The main objective of drilling the Bishop well was to explore the expected Squirrel sand interval anticipated between 400' and 450'. The interval was reported to be productive in closely adjacent holes also drilled on the Lislé Anticline. However, the channel sands of the Squirrel were missing in the interval cored from 410' to 455'.

H BISHOP #1  
Sec 32 T44N R33W  
432' FNL #1/44 FBL  
EIV 980



Name of Lease: Harold Bishop      Number Acres in Lease: 120      Location: NE 1/4, Sec 32-T44N-R33W

Date of Report: April 14, 1981      County: Cass      State: Missouri

Well No: 1      Well Location: Sec 32, T44N-R33W  
492' fr. N line  
1,142' fr. E line      Company: Odyssey Joint Venture

Surface Elevation: 980'      Casing Record: 39'7", 7" J55 to 39'4"

Date Spudded: March 24, 1981      Cementing Record: 6 Sacks, Portland A in 30 Gal. Water

Date Completed or Abandoned:      Hole Size:  
9-7/8" to 40'  
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. 980'

Sample and Core Descriptions

<u>Formation</u>	<u>Depth(s)</u>	<u>Unit Description</u>
	0-5	soil and sandstone, tan, weathered
	5-20	limestone, dark gray, crystalline, dense
	20-25	limestone, gray, light, crystalline, dense; brown fossiliferous
	25-40	limestone, light tan, dense, fossiliferous
	40-45	limestone, dark gray, silty
	45-50	shale, dark gray; shale, black, fissile
	50-55	limestone, light tannish-gray, dense; show shale, black, fissile
	55-60	limestone, light cream, dense

Bishop - Well No. 1

60-70	limestone, light tan, sugar-texture, oil stained
70-75	shale, dark gray, medium soft; show shale, black, fissile
75-80	shale, dark gray; shale, black, fissile; limestone, brown, dense
80-85	limestone, light gray, dense; limestone, brown, dense 10%
85-90	limestone, gray, dense; shale, gray, soft; minor limestone, brown
90-95	sandstone, light blue-gray, silty; limestone, gray, dense; limestone, brown
95-100	shale, light gray, sandy; sandstone, tan, very fine-grained, variegated with shale, gray; sandstone, light blue, silty (a sandstone-shale mix)
100-115	shale, gray, medium-hard, platy
115-120	shale, gray, sandy; variegated with sandstone, light gray, very fine-grained, thinly varved with carbon on varved surfaces
120-130	shale, gray, sandy, hard, variegated with sandstone, gray, fine-grained; all varved or alternating very thin-beddings (4 to 8 mm)
130-140	same as above; slight oil staining on some sandstone fragments
140-205	shale, gray, sandy
205-215	shale, gray, soft; coal, black
215-220	sandstone, gray and tan, oil droplets in sandstone
220-230	<u>Core #1</u>

All shale, gray, with varved sand splits. Upper 5' of core bleeding brown oil and small bubbles

Bishop - Well No. 1

gas frying from sandy intervals - interval has 17 breaks (horizontal) in the 5'. ~~Remainder of core~~ is iridescent with rainbow oil.

Shale easily parts on varving planes.

- 230-260 shale, dark gray, sandy, platey
- 260-265 shale, dark gray; show shale, black, fissile
- 265-270 shale, black, fissile
- 270-275 shale, gray, sandy, soft; coal or fissile shale
- 275-280 shale, gray, sandy; show coal or fissile shale, black
- 280-285 shale, gray, sandy variegated with sandstone, fine-grained, thinly varved; carbonaceous
- 285-290 shale, gray, sandy; show coal; oil stained in part
- 290-295 limestone, grayish-tan, fossiliferous; shale, gray, sandy; minor shale, black, fissile
- 295-300 shale, gray, soft; limestone, gray-tan, fossiliferous
- 300-310 limestone, tan to light tan, dense, fossiliferous; oil stained
- 310-315 limestone, tan to light tan; sandstone, brown, thin-bedded; limestone oil stained in part
- 315-320 shale, light gray, soft, variegated with sandstone, tan, very fine-grained; shale, gray, sandy, platey
- 320-330 shale, gray, soft, sandy
- 330-335 shale, black, fissile; limestone, brown, dense
- 335-340 shale, black, fissile; shale, light gray, sandy, soft; sandstone, tan, very fine-grained, platey
- 340-345 sandstone, brown, fine-grained; oil stained

Bishop - Well No. 1

- 345-353 Core #2 - Cut 8'. Received 7.6'.
- 345-348 Shale, dark gray, sandy; upper 3' coalified.
- 348-352.6 Limestone, light gray, dense, massive. No odor. No staining and no acid rainbows. No evidence of gas or oil.
- 353-365 limestone, tannish-gray, dense, fossiliferous
- 365-375 limestone, gray, sandy
- 375-380 limestone, tan, dense; shale, gray, sandy
- 380-385 coal, black
- 385-390 coal, black; shale, gray; minor limestone, tan, dense
- 390-395 limestone, gray, sandy, dense
- 395-400 shale, black, fissile; shale, gray, sandy
- 400-405 coal, black; shale, black, fissile; shale, gray, soft
- 405-411 sandstone, tan, fine-grained; yielding oil; sandstone, gray, fine-grained; oil in sample, sample water, etc.; strong odor of oil; oil visible on sample fragments; oil, brown, non-viscous
- 411-421 Core #3 - Cut 10'. Received 10'.
- All shale, gray, sandy with interfingers of sandstone, tan, very fine-grained throughout core; bands are knife-edge narrow and make up 30% of core; most bleeding oil faintly.
- 421-423 missing
- 423-433 Core #4 - Cut 10'. Received 10'.
- All shale, dark gray, sandy; no oil/gas; faint odor.

Bishop - Well No. 1

- 433-443 Core #5 - Cut 10'. Received 10'.  
433-439 Shale, dark gray to black; no oil/gas.  
439-443 Shale, dark gray with sandstone, tan, very fine-grained; sandstone is varved with shale as thin horizontal bands from 1/4 to 3/4 inches wide. Shale and sand readily split apart.
- 443-453 Core #6 - Cut 10'. Received 10'.  
All shale, dark gray, sandy, dense; no oil/gas indications except uppermost 3" of shale carried sandstone, tan, very fine-grained, faintly bleeding oil.
- 453-475 shale, dark gray and gray, sandy  
475-485 shale, dark gray, sandy; limestone, light tan, dense  
485-495 shale, gray, platy  
495-505 shale, light gray, very sandy; show coal, black  
505-510 shale, light gray, sandy; showing coal; shale, tan, thin flakes, non-calcareous  
510-515 shale, light gray, sandy; shale, tan to red, thin flakes, hard  
515-520 shale, light gray, sandy; shale, tan (flakes); show coal, black  
520-530 shale, light gray, sandy; shale, dark gray, sandy  
530-535 shale, gray, sandy; shale, light gray, sandy  
535-540 shale, gray, sandy; shale, light gray with sandstone, brown to tan, very fine-grained as variegations in the shale  
540-545 shale, dark gray; sandstone, brown, silty, dense

Bishop - Well No. 1

- 545-550 shale, black, platy and fissile; shale, dark gray; minor sandstone, brown, dense
- 550-555 shale, dark gray, sandy; shale, black, fissile
- 555-560 shale, light gray, buff (soft); shale, black, fissile; coal, black
- 560-565 shale, dark gray, sandy; minor shale, light gray; shale, black, fissile
- 565-570 shale, dark gray, sandy, platy; shale, black fissile 10%
- 570-590 shale, dark gray; variegated with sandstone, light tan, very fine-grained, very thinly bedded (less than 1/8 inch in width)
- 590-605 shale, dark gray, platy; shale, gray, sandy; show shale, black, fissile; minor sandstone, gray, variegated with shale, gray
- 605-610 shale, dark gray to black, sandy, platy
- 610-615 shale, dark gray to black, sandy, platy; show sandstone, light tan, very fine-grained, platy
- 615-637 shale, light gray, very sandy, hard (borderline between sandstone and shale)
- 637-647 Core = 7 - Cut 10'. Received 10'.
- 637-642 Shale, dark gray, variegated with sandstone, light gray, fine-grained, dense.
- 642-647 Sandstone, light gray, very fine-grained with carbon bands as staining and as carbonaceous sandstone bands. Sandstone appears porous. No oil/gas indications; hole is making light flow of gas.
- 647-680 sandstone, gray and dark gray, fine-grained, carbonaceous
- 680-695 sandstone, light gray, fine-grained; shale, gray, sandy

Bishop - Well No. 1

695-700	sandstone, light gray, fine-grained; shale, black, fissile
700-705	sandstone, light gray, fine-grained; shale, gray, sandy
705-725	sandstone, light gray, fine-grained, platy, carbonaceous
725-730	sandstone, dark gray, very fine-grained, platy
730-735	sandstone, dark gray and gray, very fine-grained, platy
735-740	sandstone, dark gray, very fine-grained, platy
740-745	sandstone, dark gray, very fine-grained; shale, dark gray; both very platy
745-750	shale, dark gray, platy, sandy
750-755	shale, dark gray, platy, sandy; sandstone, gray, very fine-grained, platy
755-760	shale, dark gray; shale, black fissile; show chert, cream, dense
760-765	shale, dark gray; chert, gray-black, dense; minor sandstone, thinly bedded
765-780	no returns
780-785	sand-shale bits, sand of limestone
785-800	no returns
TD 300	

Permit #: 20164

Date Issued: 3-18-81

County: Cass

Date Cancelled: \_\_\_\_\_

CONFIDENTIAL UNTIL: \_\_\_\_\_

Date Plugged: 8-8-82

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	3-16-81
3i	
4	3-18-81
4i	
5	
6	
7	9-2-82
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs			
Samples	chip core		
	water		
Analyses	core		9-2-82

Additional Submitted Data:

Additional Submitted Data:
----------------------------

CORE ANALYSIS REPORT

FOR

*Landmark Production, Inc.*  
~~ODYSSEY PETROLEUM, INC.~~

BISHOP NO. 1 WELL  
CASS COUNTY, MISSOURI

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
OKLAHOMA CITY, OKLAHOMA

MAY 19, 1981

REPLY TO  
SUITE 133  
400 SOUTH VERMONT  
OKLAHOMA CITY, OKLA.  
73108

ODYSSEY PETROLEUM, INC.  
1801 B SOUTH BUTLER DR.  
HARRISONVILLE, MO 64701

ATTN: BRENT NATRASS

SUBJECT: CORE ANALYSIS DATA  
BISHOP NO. 1 WELL  
CASS COUNTY, MISSOURI  
CLI FILE NO. 3406-00439

GENTLEMEN:

DIAMOND CORES WERE TAKEN IN THE SUBJECT WELL AND LATER TRANSPORTED TO OUR CHANUTE LABORATORY FOR ANALYTICAL PURPOSE. THE MEASURED DATA FOLLOWS ON THE ACCOMPANYING PAGES OF THIS REPORT.

THE ACCOMPANYING COREGRAPH PRESENTS THE SURFACE CORE GAMMA LOG AND BINOMIALLY AVERAGED CORE ANALYSIS DATA IN GRAPHICAL FORM TO AID CORRELATION WITH DOWNHOLE ELECTRICAL SURVEYS.

POOR PERMEABILITY AND POROSITY DEVELOPMENT INDICATED BY THE MEASURED DATA SUGGESTS DESIRED FLOW RATES OF COMMERCIAL SIGNIFICANCE WOULD NECESSARILY BE ACHIEVED ONLY THROUGH EXCELLENT RESPONSE FROM FORMATION FRACTURE TREATMENT.

ZONAL AVERAGES ALONG WITH ESTIMATES OF RECOVERABLE OIL (WHERE APPLICABLE) ARE PRESENTED ON THE CORE SUMMARY PAGE OF THIS REPORT.

WE APPRECIATE THIS OPPORTUNITY OF SERVING YOU.

VERY TRULY YOURS

CORE LABORATORIES, INC.

*Dale E. Boyle (RR)*  
DALE E. BOYLE  
DISTRICT MANAGER

5 CC - ADDRESSEE

**CORE LABORATORIES, INC.**  
*Petroleum Reservoir Engineering*

DALLAS, TEXAS

ODYSSEY JOINT VENTURE NO. 1  
 BISHOP NO. 1 WELL  
 BISHOP FIELD  
 CASS COUNTY, MISSOURI

DATE: 4/24/81  
 FORMATION: WAYSIDE/LAGANDA SHALE/SQU  
 DRUG. FLUID: WATER BASE MUD  
 LOCATION: SEC. 32-44S-33W

FILE NO: 3406-004  
 ENGINEER: HUDSON  
 ELEVATION: UNKNOWN

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	FLUID SATS. WTR.	GR. DEN.	DESCRIPTION
----------	-------	-----------------------	------------------	-----------------	------------------	----------	-------------

DEAN STARK ANALYSIS

1	220.0-21.0	5.0	20.4	68.1	13.8	2.69	SD, SLTY, V/SHY
2	221.0-22.0	2.8	19.7	31.8	58.6	2.70	SD, SLTY, V/SHY
3	222.0-23.0	<0.1	15.6	10.0	78.2	2.84	SD, SLTY, V/SHY
4	223.0-24.0	<0.1	17.0	11.3	84.1	2.75	SD, SLTY, V/SHY
5	224.0-25.0	0.6	16.0	12.5	73.2	2.81	SD, SLTY, V/SHY
6	225.0-26.0	34.0	17.1	18.6	74.3	2.71	SD, SLTY, V/SHY
7	226.0-27.0	<0.1	17.0	12.7	75.6	2.73	SD, SLTY, V/SHY
8	227.0-28.0	<0.1	15.9	14.4	75.3	2.74	SD, SLTY, V/SHY
9	228.0-29.0	18.0	16.1	11.2	85.4	2.73	SD, SLTY, V/SHY
10	229.0-30.0	28.0	16.2	8.7	90.2	2.74	SD, SLTY, V/SHY
	230.0-11.0						DRILLED
11	411.0-12.0	0.9	15.5	7.0	85.8	2.71	SD, SLTY, CAL
12	412.0-13.0	<0.1	14.4	2.3	95.3	2.81	SD, SLTY, CAL
13	413.0-14.0	0.1	13.6	2.4	97.0	2.86	SD, SLTY, DOL
14	414.0-15.0	0.1	11.6	3.4	95.1	2.76	SD, SLTY
15	415.0-16.0	<0.1	14.2	19.8	80.0	2.75	SD, SLTY
16	416.0-17.0	<0.1	14.6	10.7	89.7	2.76	SD, SLTY
	417.0-20.0						SH, SD LAM
	420.0-39.0						LOST CORE
17	439.0-40.0	<0.1	16.3	2.6	82.5	2.74	SD, SLTY, SHY, SL/CA
18	440.0-41.0	<0.1	15.7	2.5	86.3	2.72	SD, SLTY, SHY, SL/CA
19	441.0-42.0	1.5	16.0	1.2	79.6	2.73	SD, SLTY, SHY, SL/CA
20	442.0-43.0	0.3	15.6	1.1	84.7	2.74	SD, SLTY, SHY, SL/CA

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
 Oklahoma District

Company ODYSSEY PETROLEUM, INC.

Page 2

Well BISHOP NO. 1

CLI File 3406-00439

**CORE SUMMARY AND CALCULATED RECOVERABLE OIL**

FORMATION NAME	SECOND KNOBTOWN	SQUIRREL			
DEPTH INTERVAL	220-30	411-43			
FEET OF CORE RECOVERED FROM ABOVE INTERVAL	10	13			
FEET OF CORE INCLUDED IN AVERAGES	5	5			
AVERAGE PERMEABILITY: MILLIDARCY	18	0.6			
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	90	3			
AVERAGE POROSITY: PER CENT	17.9	14.5			
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	27.7	3.0			
AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	64.5	88.4			
AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE					
OIL GRAVITY: °API					
ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL					
ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL					
CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	*	*			

Calculated maximum solution gas drive recovery is \* barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. These recovery estimates represent theoretical maximum values for solution gas drive and do not take into account any prior production or drainage to other areas. The difference between the calculated stock-tank oil in place and the solution gas drive recovery estimates, which are barrels per acre-foot, represent that portion of the reservoir oil which is available for possible secondary recovery techniques. Estimates of additional recoverable oil by secondary or enhanced methods would necessitate a complete engineering study of the subject reservoir.

\* TRANSITION ZONES

(c) calculated

(e) estimated

(m) measured

A-80

CORE LABORATORIES, INC.  
2908 S. SANTA FE AVE.  
P. O. BOX 945  
CHANUTE, KANSAS 66720

COMPANY: ODYSSEY JOINT VENTURE NO. 1

WELL: BISHOP NO. 1

These are calculated from the fluid saturations from the BISHOP NO. 1 well,  
for Oil Content, in place, within the reservoir.

Calculations on lost core and drilling procedures are not included in this report.

<u>DEPTHS</u>	<u>OIL CONTENT*</u>
220.0-21.0	1077.8
22.0	486.0
23.0	121.0
24.0	149.0
25.0	155.2
26.0	246.8
27.0	167.5
28.0	177.6
29.0	139.9
30.0	109.3
411.0-12.0	84.2
13.0	25.7
14.0	25.3
15.0	30.6
16.0	218.1
17.0	121.2
439.0-40.0	32.9
41.0	30.5
42.0	14.9
43.0	13.3

COMPANY ODYSSEY PETROLEUM, INC. FILE NO. 3406-00439  
 WELL BISHOP NO. 1 DATE 5-5-81  
 FIELD BISHOP FORMATION NOBLETOWN/SQUIRREL ELEV. UNKNOWN  
 COUNTY CASS STATE MISSOURI DRLG. FLD. AIR CORES \_\_\_\_\_  
 LOCATION SEC. 32-44S-33W

## CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

