MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

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		DATE	
PENSE BROTHERS DRILLING Co., INC			
ADDRESS	CITY	STATE	ZIP CODE
BOX 551 800 NEWBERRY STREET	FREDERICKTOWN	MO	63645

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE	WELL NUMBER	ELEVATION (GROUND)
LEE	#2 DEVELOPMENTAL	972' (TOPO)

ALL LOCATION (GIVE FOOTAGE FROM SECTION LINE)

1760± FT. FROM (N) SECTION LINE 240 FEET FROM (W) SECTION LINE

ALL LOCATION	SECTION	TOWNSHIP	RANGE	COUNTY
W/2 LOT 1 OF NW/4	4	43 N	33 W	CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 240 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE N/A FEET

PROPOSED DEPTH	DRILLING CONTRACTOR, NAME AND ADDRESS	ROTARY OR CABLE TOOLS	APPROX. DATE WORK WILL START
450'	PENSE BROS. DRLG. Co., INC. BOX 551, FREDERICKTOWN, MO 63645	ROTARY (AIR)	ON PERMIT

PROPOSED DEPTH IN LEASE	NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR
57a	NUMBER OF ABANDONED WELLS ON LEASE 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

NAME N/A

ADDRESS

NO. OF WELLS (Controlled Location): PRODUCING 0; INJECTION 0; INACTIVE 0; ABANDONED 1

STATUS OF BOND	☐ SINGLE WELL AMOUNT $	☒ BLANKET BOND AMOUNT $20,000.00	☒ 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.)

N/A

PROPOSED CASING PROGRAM				APPROVED CASING — TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM	AMOUNT	SIZE	WT/FT	CEM
50'	7"	19.5 LBS	TO SURF	50'	7"		TO-Surface
T.D. TO SURF	4½"	10.5 LBS	TO SURF	TD to surface	4½"		TO-Surface

I, the undersigned, state that I am the VICE PRESIDENT (ASS'Y) of the PENSE BROS. DRLG. Co., 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 PENSE BROS. DRLG. Co., INC. By: B. E. Blancett, ASS'Y V.P. DATE 8/18/96

PERMIT NUMBER 20624

APPROVAL DATE 8/20/96

APPROVED BY James Holly Williams SAS

☑ DRILLER'S LOG REQUIRED
☑ CORE ANALYSIS REQUIRED IF RUN
☐ SAMPLES REQUIRED
☐ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT
☑ E-LOGS REQUIRED IF RUN
☑ DRILL STEM TEST INFO. REQUIRED IF RUN

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION

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

_____ of the _____ Company confirms that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

SIGNATURE	DATE

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

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Oil & Gas Council

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☒ GAS ☐ DRY

OWNER: PENSE BROS. DRLG. CO., INC.	ADDRESS: Box 551, FREDERICKTOWN, MO 63645
LEASE NAME: LEE	WELL NUMBER: #2
LOCATION: W/2 LOT 1 OF NW/4	SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 4-43N-33W
COUNTY: CASS	PERMIT NUMBER (OGC-3 OR OGC-31): 20624

DATE SPUDDED	DATE TOTAL DEPTH REACHED	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKB, RT, OR Gr.) FEET	ELEVATION OF CASING HD FLANGE FEET
8/20/96	8/22/96	10-17-96	972 Gr (TOPO)	973.5

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
470'	N/A

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
341' - 351'	0 TO T.D. DRILLING FLUID USED AIR & WATER	NIL

WAS THIS WELL DIRECTIONALLY DRILLED?	WAS DIRECTIONAL SURVEY MADE?	WAS COPY OF DIRECTIONAL SURVEY FILED?	DATE FILED
NO	NO	N/A	N/A

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST): GAMMA RAY - NEUTRON ONLY LOG RAN — DATE FILED: 11/30/96

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
SURFACE CASING	8 5/8"	7"	19.5 LBS	51'02"	6	NIL
PRODUCTION CSG.	6 1/4"	4 1/2"	10.5 LBS	469'	58	NIL

TUBING RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE
NIL IN.	NIL FEET	NIL FEET	NIL INCH

LINER RECORD

TOP	BOTTOM	SACKS CEMENT	SCREEN
NIL FEET	NIL FEET	NIL	NIL FEET

PERFORATION RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL
2	3 1/8" DML-HSC 21 shots	341' - 351'

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
{PERFORATED & SWABBED ONLY - ACID & SAND FRAC TO BE DONE AT SUCH TIME GAS CONTRACT}	341' - 351'

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION: SWABBED 10/17/96

PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP): FLOWS GAS THRU UNPERFORATED PIPE, MEASURED 37.3 MCFD WHILE DRILLING - SHUT IN AWAITING GATHERING & SALE FACILITIES.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY
SEE ABOVE —			NO WATER OR OIL bbls.	EVIDENCED - FLOWING GAS 0 MCFD		4 API (CORR.)

TUBING PRESSURE	CASING PRESSURE	CAL'TED RATE OF PRODUCTION PER 24 HOURS	OIL bbls.	GAS MCF	WATER bbls.	GAS OIL RATIO

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD): Well will be stimulated at such time as gathering & sale facilities completed

METHOD OF DISPOSAL OF MUD PIT CONTENTS: Drilled with air rotary - pit to be overfilled with topsoil & area reseeded.

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE ASST. V.P. OF THE PENSE BROS. DRLG. CO., 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.

DATE	SIGNATURE
11/30/96	B E Blancett — PENSE BROTHERS DRLG. CO., INC. By: B.E. BLANCETT, ASST. V.P. 11/30/96

MO 780-0215 (1-86) (Rev 1-86)

LEE # 2 - PENSE BROS. DRLG. CO., INC.

PERMIT # 20624

EL: 972 GL (TOPO)

SURF. CSG. - 51'02"

CEMENT - 6 SACKS

SPUDDED: 08/20/96

T.D. 08/22/96

B.E.B.

0 - 4 TOPSOIL - CLAY, SANDY, REDDISH BROWN

4-32 LIMESTONE, SANDY LIMESTONE, BUFF TO TAN.

32-42 SHALE, DENSE, CALCAREOUS, GREY TO BLUISH GREY

42-62 LIMESTONE, GREY TO WHITE, SLIGHT OIL SHOW 55' TO 62'

62-68 SHALE, DARK GREY TO BLACK, VERY SLIGHT OIL SHOW

68-86 LIMESTONE TO SILTY LIMESTONE, TAN TO BUFF
SHALE STRIATIONS.

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86-220 SHALE, VARIEGATED, GREY TO BLUE GREY

220-228 SHALE, DARK GREY TO BLACK, CARBONACEOUS AT BASE.

228-240 LIMESTONE, SHALY, VERY SLIGHT OIL STAINING
AT BASAL SECTION.

240-275 SHALE, SANDY, GREY TO DARK GREY AT BASE.

275-282 LIMESTONE, DENSE, BUFF TO TAN

282-296 SHALE, GREY TO DARK GREY, CALCAREOUS; STRIATIONS
OF SANDY LIMESTONE.

296-310 LIMESTONE, TAN TO LIGHT BROWN - SLIGHT OIL + ODOR.

310-334 SHALE, DARK GREY, SOFT

334-360 LIMESTONE, WHITE TO BUFF, SLIGHT FLUORESCENCE, SLIGHT
OIL CUT & GAS EMANATION - GAS TEST 142 ON 1/4" CHOKE

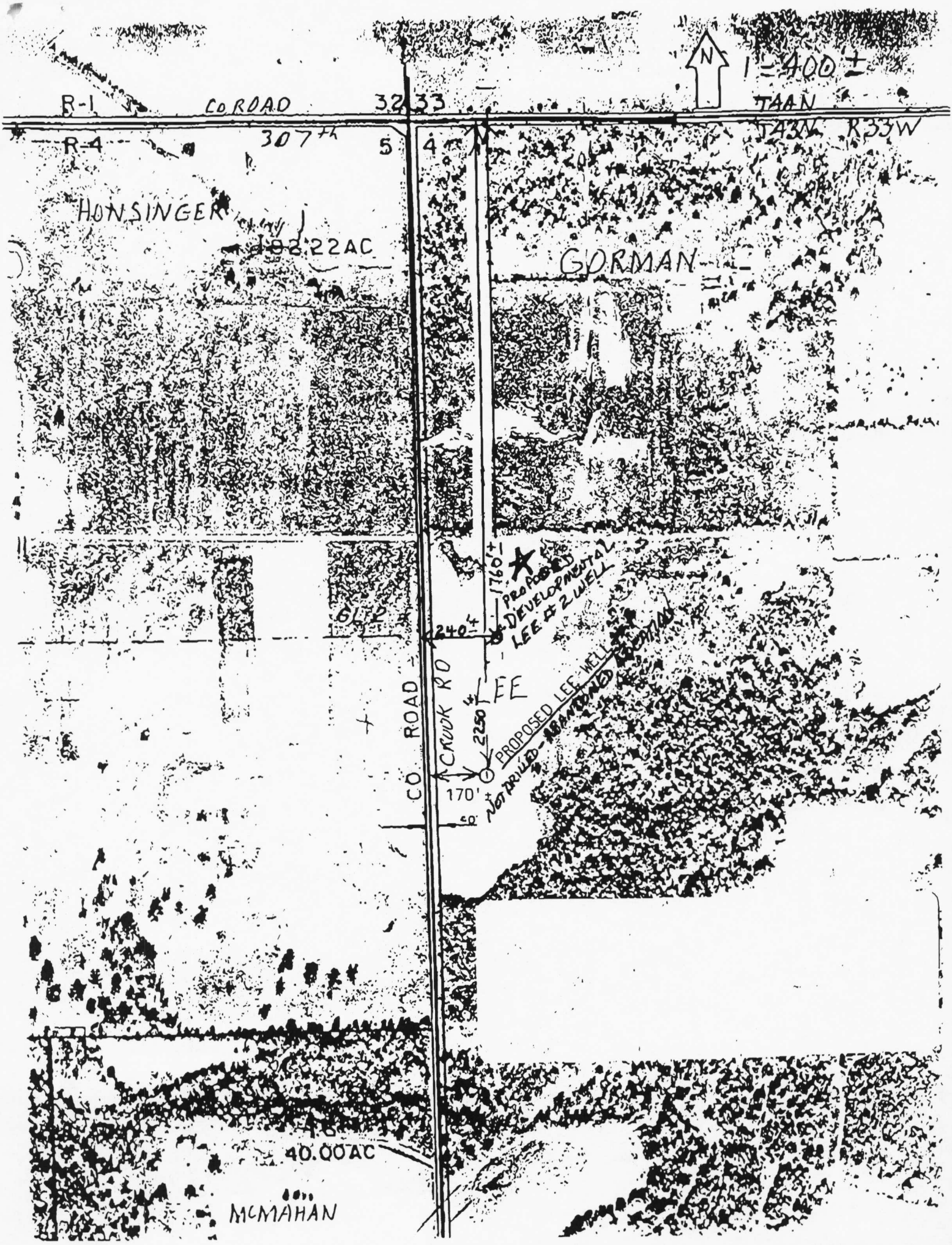
360-375 SHALE, SANDY, CALCAREOUS -

375-378 SHALE, DARK GREY TO BLACK, SLIGHT COAL SEAM & UNDERCLAY -

378-392 SILTSTONE, SHALY

392-398 SHALE, DARK GREY TO BLACK, SLIGHT COAL SHOW.

398-470 SANDSTONE + SILTSTONE, SLIGHT SHOW GAS + OIL 448' TO 456'
T.D. 470'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R-1
CO ROAD
32
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HONSINGER
22AC
GORMAN
1760'±
PROPOSED DEVELOPMENTAL LEE #2 WELL
612
240'±
LEE
2250'±
PROPOSED LEE WELL NOT DRILLED - ABANDONED
CO ROAD
CROOK RD
170'±
40.00AC
McMAHAN