



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 <b>PENSE BROTHERS DRILLING CO., INC.</b>		DATE <b>12/29/92</b>	
ADDRESS <b>800 NEWBERRY STREET P.O. BOX 551</b>	CITY <b>FREDERICKTOWN</b>	STATE <b>MO</b>	ZIP CODE <b>63645</b>

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE <b>RHODES BROTHERS</b>	WELL NUMBER <b>No. 1</b>	ELEVATION (GROUND) <b>990 (TOPO)</b>
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WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE)  
**1600** FT. FROM (N) SECTION LINE    **1600** FEET FROM (W) SECTION LINE

WELL LOCATION	SECTION	TOWNSHIP	RANGE	COUNTY
<b>NW/4 SE/4 NW/4</b>	<b>36</b>	<b>44N</b>	<b>33W</b>	<b>CASS</b>

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE **280** FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE **NIL** FEET

PROPOSED DEPTH <b>750'</b>	DRILLING CONTRACTOR, NAME AND ADDRESS <b>PENSE BROS. DRG. CO., INC. Box 551, FREDERICKTOWN, MO 63645</b>	ROTARY OR CABLE TOOLS <b>ROTARY (AIR)</b>	APPROX. DATE WORK WILL START <b>ON PERMIT</b>
NUMBER OF ACRES IN LEASE <b>75</b>	NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR <b>1</b>		NUMBER OF ABANDONED WELLS ON LEASE <b>NIL</b>

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?  
NAME **N/A**  
ADDRESS \_\_\_\_\_

NO. OF WELLS: PRODUCING	<b>0</b>
INJECTION	<b>0</b>
INACTIVE	<b>0</b>
ABANDONED	<b>0</b>

STATUS OF BOND	<input type="checkbox"/> SINGLE WELL AMOUNT \$	<input checked="" type="checkbox"/> BLANKET BOND AMOUNT \$ <b>20,000.00</b>	<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED
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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.
<b>50'</b>	<b>7"</b>	<b>19 LB.</b>	<b>TO SURF</b>	"	"	"	"
<b>TD TO SURF</b>	<b>4 1/2"</b>	<b>10 1/2 LB</b>	<b>TO SURF</b>	"	"	"	"

I, the undersigned, state that I am the **ASST. U.P.** of the **PENSE BROS. DRG. 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 **B. E. Blancett**    DATE **12/29/92**  
**B. E. BLANCETT, ASST. U.P.**

PERMIT NUMBER <b>#20559</b>	<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED	<input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN
APPROVAL DATE <b>12/30/92</b>	<input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN	<input checked="" type="checkbox"/> DRILLER'S TEST INFO. REQUIRED IF RUN
APPROVED BY <b>Jarvis H. Williams</b>	<input checked="" type="checkbox"/> SAMPLES REQUIRED	<b>RECEIVED DEC 30 1992</b>
	<input type="checkbox"/> SAMPLES NOT REQUIRED	
	<input type="checkbox"/> WATER SAMPLES REQUIRED AT _____	

**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.

I \_\_\_\_\_ of the \_\_\_\_\_ Company confirm 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.

DRILLER'S SIGNATURE	DATE
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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 <b>PENSE BROTHERS DRILLING CO., INC.</b>		ADDRESS <b>Box 551, FREDERICKTOWN, MD 63645</b>			
LEASE NAME <b>RHODS BROTHERS</b>		WELL NUMBER <b>#1</b>			
LOCATION <b>NW/4 SE/4 NW/4</b>		SEC. TWP. AND RANGE OR BLOCK AND SURVEY <b>SEC. 36, T 44N, R 33W</b>			
COUNTY <b>CASS</b>	PERMIT NUMBER (OGC-3 OR OGC-31) <b>20559</b>				
DATE SPUDDED <b>12-30-92</b>	DATE TOTAL DEPTH REACHED <b>12-31-92</b>	DATE COMPLETED READY TO PRODUCE OR INJECT <b>N/A</b>	ELEVATION (DF, RKR, RT, OR Gr.) FEET <b>990' (Gr) (Top)</b>	ELEVATION OF CASING HD. FLANGE <b>N/A</b> FEET	
TOTAL DEPTH <b>720'</b>	PLUG BACK TOTAL DEPTH <b>N/A</b>		ROTARY TOOLS USED (INTERVAL) TO <b>0' TO 720'</b>		
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <b>NIL</b>			DRILLING FLUID USED <b>AIR WITH WATER</b>		CABLE TOOLS USED (INTERVAL) <b>NIL</b>
WAS THIS WELL DIRECTIONALLY DRILLED? <b>NO</b>	WAS DIRECTIONAL SURVEY MADE? <b>NO</b>	WAS COPY OF DIRECTIONAL SURVEY FILED? <b>NO</b>	DATE FILED <b>N/A</b>		
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) <b>NO MECHANICAL LOGS RAN - Lithology Log</b>					DATE FILED <b>7/12/95</b>

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
<b>SURFACE</b>	<b>8 5/8"</b>	<b>7"</b>	<b>19 LB.</b>	<b>50' 04"</b>	<b>6 CEMENT 1 GEL AHEAD</b>	<b>NIL</b>

TUBING RECORD

LINER RECORD

SIZE IN.	DEPTH SET FEET	PACKER SET AT FEET	SIZE INCH	TOP FEET	BOTTOM FEET	SACKS CEMENT	SCREEN FEET
			<b>N/A</b>				

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FOOT	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
		<b>N/A</b>		
<b>JUL 24 1995</b>				

Oil & Gas Council

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING --- IF PUMPING, SHOW SIZE AND TYPE OF PUMP)				
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST <b>N/A</b> bbls.	GAS PRODUCED DURING TEST <b>N/A</b> MCF	WATER PRODUCED DURING TEST <b>N/A</b> bbls.	OIL GRAVITY <b>N/A</b> API (CORR)
TUBING PRESSURE	CASING PRESSURE	CAL'ED RATE OF PRODUCTION PER 24 HOURS		OIL <b>N/A</b> bbls.	GAS <b>N/A</b> MCF	WATER <b>N/A</b> bbls.
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)						

METHOD OF DISPOSAL OF MUD PIT CONTENTS: **DRILLED WITH AIR ROTARY WITH WATER, CUTTINGS ONLY IN PIT, LANDOWNER MAY WANT PIT FOR SMALL WATER POND - IF NOT TO BE FILLED & GRASED OVER.**

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **ASS'T. U.P.** OF THE **PENSE BROS. DRILG. 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 **7/17/95** SIGNATURE **B. E. Blancett** **PENSE BROS DRILG. Co., INC.**  
By: **B. E. BLANCETT**



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI OIL AND GAS COUNCIL  
**NOTICE OF INTENTION TO ABANDON WELL**

FORM OGC-6

NAME OF LEASE <b>RHOADS BROTHERS</b>		DATE <b>7/17/95</b>
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WELL NUMBER <b>#1</b>	LOCATION <b>1600</b> FEET FROM (N) SECTION LINE AND <b>1600</b> FEET FROM (W) SECTION LINE OF
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SECTION <b>36</b>	TOWNSHIP <b>44N</b>	RANGE <b>33W</b>	COUNTY <b>CASS</b>
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THE ELEVATION OF THE GROUND AT WELL SITE IS <b>990 (TOPO)</b> FEET ABOVE SEA LEVEL.	PERMIT NUMBER (OGC-3 OR OGC-3I NUMBER) <b>20559</b>
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NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS:  
**COMPANY TOOLS, PENSE BROTHERS DRILLING CO., INC.**

ADDRESS <b>800 NEWBERRY ST. Box 551</b>	CITY <b>FREDERICKTOWN</b>	STATE <b>MO</b>	ZIP CODE <b>63645</b>
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**DETAILS OF WORK** (INDICATE SIZE, KIND, AND DEPTH OF PLUGS, WHERE CASING WILL BE PULLED, OTHER PERTINENT DETAILS)

WELL DRILLED TO 720' T.D., 50' 04" SURFACE CASING CEMENTED TO SURFACE WITH 6 SACKS CEMENT & 1 SACK GEL AHEAD. 25' CEMENT AT BASE HOLE & LEP, HEAVY MUD TO 24' FROM SURFACE, CUT CASING OFF 4' BELOW GROUND LEVEL AND 20' CEMENT OR SO MUCH AS NEEDED TO BRING TOP CEMENT PLUG TO 4' FROM GROUND LEVEL.

PIT TO BE OVERFILLED WITH TOPSOIL TO GROUND LEVEL AND SEEDED WITH GRASS OR, IF LANDOWNER DESIRES, LEFT AS SMALL POND FOR LIVESTOCK WATER

**RECEIVED**  
JUL 24 1995

O Oil & Gas Council

**CERTIFICATE:** I, the undersigned, state that I am the ASST. V.P. of the Pense Bros Dring Co, Inc (company), and that I am authorized to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct, and complete to the best of my knowledge.

SIGNATURE <b>B. E. Blance II</b> By: <b>B. E. BLANCE II</b>	<b>PENSE BROS. DRILG. Co., INC.</b>	DATE <b>7/17/95</b>
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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 MISSOURI OIL AND GAS COUNCIL  
**NOTICE OF INTENTION TO ABANDON WELL**

FORM OGC-6

NAME OF LEASE <b>RHOADS</b>			DATE <b>4/20/94</b>	
WELL NUMBER <b>1</b>	LOCATION <b>1600</b> FEET FROM (N) SECTION LINE AND <b>1600</b> FEET FROM (W) SECTION LINE OF			
SECTION <b>36</b>	TOWNSHIP <b>44N</b>	RANGE <b>33W</b>	COUNTY <b>CASS</b>	
THE ELEVATION OF THE GROUND AT WELL SITE IS <b>990</b> FEET ABOVE SEA LEVEL.		PERMIT NUMBER (OGC 3 OR OGC 61 NUMBER) <b>20559</b>		
NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS: <b>PENSE BROTHERS DRILLING CO., INC</b>				
ADDRESS <b>800 NEWBERBY ST. P.O. Box 551</b>		CITY <b>FREDERICKTOWN</b>	STATE <b>MO</b>	ZIP CODE <b>63645</b>
<p><b>DETAILS OF WORK</b> (INDICATE SIZE, KIND, AND DEPTH OF PLUGS, WHERE CASING WILL BE PULLED, OTHER PERTINENT DETAILS)</p> <p><i>HOLE COMMENCED 12/30/92. SURFACE HOLE 9 5/8" DRILLED TO 51' RAN 50'04" OF 7" (19LB.) SURFACE CASING &amp; CEMENTED TO SURFACE @ 6 SACKS OF CEMENT. 6 1/4" HOLE DRILLED FROM 51' TO T.D. OF 720'.</i></p> <p><i>NO CASING TO BE PULLED. FILL WITH HEAVY MUD TO 520', RUN CEMENT PLUG FROM 520' UP TO 500', FILL WITH HEAVY MUD TO 275' FROM 500', RUN CEMENT PLUG 250' TO 275', FILL WITH HEAVY MUD TO 30', RUN CEMENT PLUG FROM 30' UP TO 5', CUT CASING OFF 4' BELOW SURFACE &amp; CLOSE.</i></p> <p><i>FILL PIT WITH TOPSOIL, LEVEL, &amp; RESTORE ANY SURFACE DAMAGE.</i></p> <p><i>LITHOLOGY LOG ATTACHED.</i></p>				
<p><b>RECEIVED</b></p> <p><b>APR 25 1994</b></p> <p>MO Oil &amp; Gas Council</p>				
<p><b>CERTIFICATE:</b> I, the undersigned, state that I am the <u>ASST. V-P.</u> of the <u>Pense Bros Drig Co, Inc.</u> (company), and that I am authorized to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct, and complete to the best of my knowledge.</p>				
SIGNATURE <b>B. E. BLANCETT</b>			DATE <b>4/20/94</b>	



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI OIL AND GAS COUNCIL  
PLUGGING RECORD

RECEIVED SEP 19 1995  
OIL & Gas Council

OWNER <b>PENSE BROTHERS DRILLING CO., INC.</b>		ADDRESS <b>Box 551, FREDERICKTOWN, MO 63645</b>	
NAME OF LEASE <b>RHOADS BROTHERS</b>		WELL NUMBER <b>1</b>	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <b>20559</b>
LOCATION OF WELL <b>NW/4 SE/4 NW/4</b>		SEC-TWP-RNG OR BLOCK & SURVEY <b>36-44N-33W</b>	COUNTY <b>CASS</b>
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: <b>PENSE BROS. DRILG. CO., INC.</b>		HAS THIS WELL EVER PRODUCED OIL OR GAS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBL/DAY) <b>N/A</b> GAS (MCF/DAY) <b>N/A</b> DRY? <b>Dry Hole</b>
DATE ABANDONED <b>7/17/95</b>	TOTAL DEPTH <b>720'</b>	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBL/DAY) <b>NIL</b> GAS (MCF/DAY) <b>NIL</b>	WATER (BB/S/DAY) <b>NIL</b>

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, giving amount cement.
"SQUIRREL SAND"	Slight Show OIL & GAS	350' Thru 390'	AS BELOW
9/07/95 FILLED HOLE TO 110' (80) GELLED MUD, CEMENTED FROM 715' UP TO 310', HEAVY GEL MUD TO APPROX. 24' FROM SURF. CEMENT TO APPROX 3' FROM SURFACE. CUT CASING OFF APPROX. 3' BELOW GROUND LEVEL.			

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"	50' 04"	NIL	47' 04"	CUT CASING OFF APPROX. 3' FROM SURF	NIL
9/07/95 PLUGGED WITH COMPANY TOOLS, LARRY PENSE, OPERATOR					

WAS WELL FILLED WITH MUD-LADEN FLUID? **YES, SEE ABOVE DETAILS.**

INDICATE DEEPEST FORMATION CONTAINING FRESH WATER  
**NEGLECTIBLE WATER SHOW AT ANY DEPTH.**

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE		
NAME	ADDRESS	DIRECTION FROM THIS WELL
(OPERATOR) <b>PENSE BROS. DRILG. CO., INC.</b>	<b>Box 551, FREDERICKTOWN, MO 63645</b>	<b>N/A</b>
(LANDOWNER) <b>RICHARD RHOADS, ET AL.</b>	<b>RT. 1, Box 20, FREEMAN, MO 64746</b>	<b>1/4 MILE WEST</b>

METHOD OF DISPOSAL OF MUD PIT CONTENTS  
▶ **DRILLED WITH AIR ROTARY RIG, CUTTINGS ONLY IN PIT TO BE DRAINED, OVERFILLED TO SURFACE LEVEL WITH TOPSOIL & RESEED TO GRASS.**

NOTE: FILE THIS FORM IN DUPLICATE WITH (USE REVERSE SIDE FOR ADDITIONAL DETAIL)

CERTIFICATE ▶ I, the undersigned, state that I am the **ASST. V. P.** of the **Pense Bros Drilg 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: **B. Blanchett** PENSE BROS DRILG CO, INC DATE: **9/17/95**

Sheet 1  
of 2

RHDADS # 1 WELL  
EL: 990 (TOPO)

50.04" SWFCSB, 12/31/92  
BER

- 0-5 TOPSOIL, DARK BROWN LOAM TO SLIGHTLY SANDY CLAY AT BASE.
- 5-10 CLAY, SLIGHTLY SANDY, TAN TO LIGHT BROWN, SLIGHTLY CALCITIC.
- 10-25 LIMESTONE, BUFF TO WHITE, MOSTLY DENSE, SHALE AT BASE.
- 25-35 SHALE, DARK GRAY TO GRAY, FRIABLE, CALCITIC.
- 35-50 LIMESTONE, BUFF TO GRAY, DENSE, FEW SHALE STRIATIONS.
- 50-150 SHALE, VARIABLE, LIGHT GRAY TO BLUE-GRAY, SILTY TO SANDY.
- 150-160 SHALE, AS ABOVE, SLIGHTLY CALCAREOUS.
- 160-180 SILTSTONE, GRAY, CALCAREOUS, CONGLOMERATE SANDSTONE & CLAY WITH COAL PARTICLES THROUGHOUT BASE.
- 180-205 SHALE, GRAY TO BLUE-GRAY, SILTY, COAL PARTICLES AT BASE.
- 205-210 CONGLOMERATE - COAL, CLAY, WITH SILTY, LIGHT BROWN TO GREY SHALE AT BASE WITH SLIGHT FLUORESCENCE & OIL CUT.
- 210-225 SILTSTONE, LIGHT GRAY, SLIGHT BROWN SANDSTONE STRIATIONS, CALCITIC.
- 225-230 SANDSTONE, GRAY, CALCITIC.
- 230-240 SILTSTONE, SHALY, LIGHT GREY, FEW CHERT PARTICLES.
- 240-245 SLIGHT CLAY & COAL STRIATION TO LIMESTONE & CHERT AT BASE.
- 245-253 LIMESTONE, LIGHT BROWN, SHALE, GRAY @ NODULES, CALCITIC.
- 253-260 SHALE, DENSE, LIGHT GRAY @ LIMESTONE PARTICLES.
- 260-273 LIMESTONE, TAN TO BROWN, SOME CHERT.
- 273-275 SHALE, LIGHT GRAY.
- 275-280 SHALE, AS ABOVE, WITH ABUNDANT PYRITE, FEW PARTICLES SANDSTONE & FEW NODULES.
- 280-285 LIMESTONE, SLIGHT CLAY-SHALE & COAL STRIATION.
- 285-290 SHALE, GREY TO LIGHT GREY, SILTY, SLIGHT GAS SHOW.
- 290-327 LIMESTONE, BUFF TO WHITE, SLIGHT FLUORESCENCE 300 TO 310.
- 327-330 SHALE, LIGHT GRAY, SILTY.
- 330-333 CONGLOMERATE, SHALE, CLAY & COAL PARTICLES.
- 333-340 SHALE, LIGHT GREY, COAL PARTICLES IMBEDDED IN SOME.
- 340-350 SILTSTONE, SHALY @ SHALE STRIATIONS.
- 350-370 SANDSTONE, CALCITIC, LIGHT GRAY, FEW COAL PARTICLES 355-360 @ SLIGHT OIL CUT, SLIGHT FLUORESCENCE, & SLIGHT GAS EMANATION.
- 370-375 SILTSTONE, DENSE.
- 375-390 SANDSTONE, FINE GRAINED, GRAY TO LIGHT GRAY, SLIGHT GAS EMANATION.

## RHODES # 1 WELL, CONTD.

Sheet 2  
OF 212/31/92  
BEB

- 390-395 SILTSTONE, SHALY, GRAY TO LIGHT GRAY
- 395-405 SANDSTONE, FINE GRAINED, ANGULAR, SOME PYRITE, CHESTNUT & STAINING DEAD
- 405-415 SILTSTONE TO SANDSTONE, RESIDUAL OIL STAINING
- 415-425 SANDSTONE TO SILTSTONE, GRAY, RESIDUAL OIL STAINING, COAL PARTICLES
- 425-430 SHALE, SILTY, LIGHT GRAY
- 430-433 Conglomerate, CLAY, COAL & PYRITE.
- 433-440 LIMESTONE, GREY WITH FEW COAL PARTICLES
- 440-505 SHALE, GRAY TO DARK GRAY, EXCEPT SLIGHT LIMESTONE STRIATION 455-460 AREA & DENSE REDDISH BROWN CLAY @ 475' TO 480'
- 505-510 CLAY, COAL SEAM, LENSELAIN @ BLACK SHALE.
- 510-523 SHALE, DARK GRAY TO BLACK
- 523-552 SANDSTONE, LIGHT BROWN TO TAN, SOME SILTSTONE, SUBROUNDED, SOME IMBEDDED NODULES.
- 552-555 CLAY, COAL, CLAY & SHALE.
- 555-570 SHALE, FEW COAL PARTICLES.
- 570-575 SANDSTONE, IMBEDDED NODULES.
- 575-578 SHALE, DENSE, GRAY
- 578-595 SANDSTONE, GRAY, IMBEDDED NODULES
- 595-600 SHALE, FISSILE, FEW COAL PARTICLES AT BASE.
- 600-670 SANDSTONE TO SILTSTONE, GRAY TO WHITE, TRACES PYRITE, ROUNDED TO SUB-ROUNDED TO ANGULAR, SOME RESIDUAL OIL STAINING SHALE STRIATIONS 625' TO 650'.
- 671-680 SHALE, DARK GRAY TO GRAY
- 680-695 SANDSTONE TO SILTSTONE, SHALY, LIGHT GREY
- 695-700 SHALE, DARK GRAY TO BLACK
- 700-705 SANDSTONE TO CHESTNUT @ SLIGHT COAL SHOW.
- 705-720 LIMESTONE, TAN TO LIGHT BROWN, TRACES OF PYRITE & GREEN SHALE.

T.D. 720'

W. C. LETHCHO  
COUNTY ENGINEER & SURVEYOR  
Bates County Court House  
BUTLER, MO. 64730  
Phone 679-4031

December 29 1992

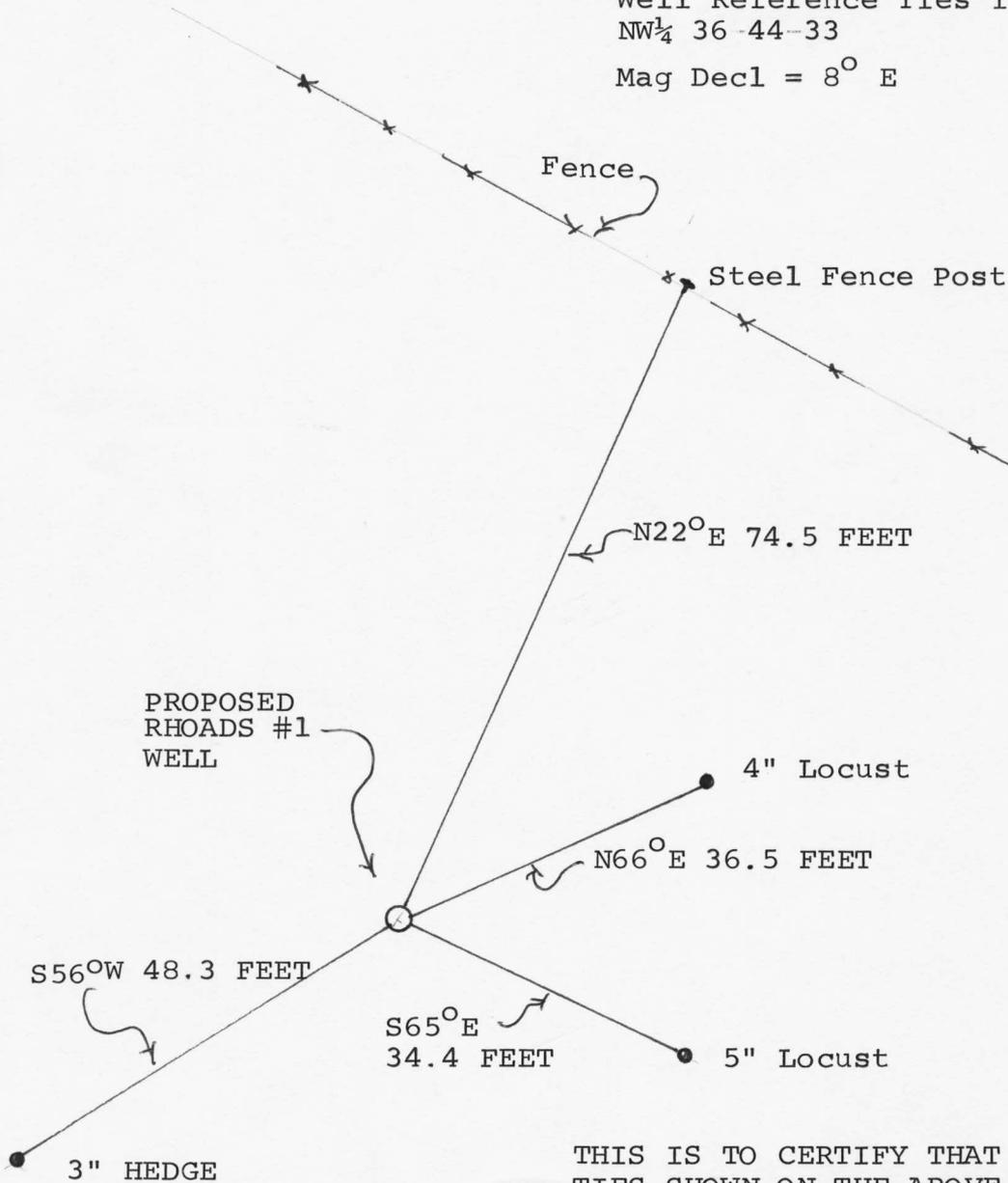
Survey Page 2

For: Pense Brothers Drilling Co. Inc.



Well Reference Ties in the  
NW $\frac{1}{4}$  36-44-33

Mag Decl = 8° E



THIS IS TO CERTIFY THAT THE REFERENCE  
TIES SHOWN ON THE ABOVE SKETCH ARE IN  
ACCORDANCE WITH THE CURRENT DNR MINIMUM  
STANDARDS FOR PROPERTY BOUNDARY SURVEYS  
10 CSR 30-2.010

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	- - -				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		2 Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	_____ feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>PENSE BROS. DRG.</u> Name <u>800 NEWBERRY ST., Box 551</u> Street <u>FREDERICKTOWN</u> <u>MO</u> <u>63645</u> City State Zip Code			Seller Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name <u>CASS</u> County <u>MO</u> State				
(b) For OCS wells:	Area Name		Block Number		
	Date of Lease:		OCS Lease Number		
		Mo. Day Yr.			
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>RHOADS No. 1</u>				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name			Buyer Code	
(b) Date of the contract:					
	Mo. Day Yr.	Million Cubic Feet			
(c) Estimated total annual production from the well:	_____ Million Cubic Feet				
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	_____	_____	_____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	_____	_____	_____
9.0 Person responsible for this application:	<u>B. E. BLANCKETT</u> Name Title <u>B. E. Blauett</u> Signature <u>12/30/92</u> Date Application is Completed <u>(314) 783-3347</u> Phone Number				
Agency Use Only					
Date Received by Juris. Agency					
Date Received by FERC					

RECEIVED  
 DEC 30 1992  
 MO Oil & Gas Council

35

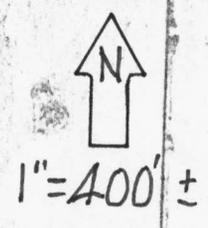
36

T44N R33W

2  
85.00 AC

KURZWEIL

1600'±



RICHARD RHOADS

3  
15.00 AC

RICHARD & DONALD RHOADS

15.0 AC

AURAND

1600'±

280'±

440'±

PROPOSED RHOADS # 1 WELL

2.001  
60.00 AC

2.003  
MHL

5.00 AC

KURZWEIL

2.002  
160.00 AC

329.34

4  
9.90 AC

WELL LOCATION MAP CASS COUNTY TAX MAP 15-07

WILLIAM C. LETHCHO LS-1539  
BATES COUNTY SURVEYOR  
BATES COUNTY COURY HOUSE  
BUTLER, MO 64730

SHEET 1 OF 2



4004 40  
8.75 37  
AC

Permit #: 20559

Date Issued: 12-30-92

County: CASS

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

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

Date Plugged: \_\_\_\_\_

20559 - RHOADS BROS. # 1

OGC 5 - 2

OGC 6 - 2

Lithology - 2

\* NOTE: YOU LISTED OUR HAVING FILED  
OGC-6 AT PREVIOUS TIME FOR  
THIS WELL BUT I COULD NOT  
FIND ANY "RECEIVED" COPY  
IN OUR FILE SO AM SENDING A NEW.  
BAB

OGC FORMS	Date Received
1	
2	
3	12-30-92
3i	
4	12-30-92
4i	
5	
6	7-25-94 & 7-24-95
7	
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs			
Samples	chip		
	core		
Analyses	water		
	core		
Additional Submitted Data:			

OGC-6

RHOADS #1 WELL