

Permit #: 20042

Date Issued: 8-20-90

County: Bates

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

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

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

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	7-20-90
3i	
4	
4i	
5	8-14-91
6	7-18-95
7	
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	drillers		8-14-91
Samples	chip core		
Analyses	water		
	core		

Additional Submitted Data:



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 Pense Brothers Drilling Co., Inc., a Missouri corporation		DATE 7/20/90	
ADDRESS 800 Newberry Street P. O. Box 551	CITY Fredericktown	STATE MO	ZIP CODE 63645

**DESCRIPTION OF WELL AND LEASE**

NAME OF LEASE Shannons' Circle "S" Ranch, Inc.	WELL NUMBER 1	ELEVATION (GROUND) <i>LD</i> 980' 1030' Gr		
WELL LOCATION <i>1/4</i> 2290.4' (GIVE FOOTAGE FROM SECTION LINE) 2500 FT. FROM (N) <i>(S)</i> SECTION LINE 250.5 FEET FROM (E) <i>(W)</i> SECTION LINE				
WELL LOCATION SE/4 SE/4 NE/4	SECTION 25	TOWNSHIP 42 N	RANGE 33 W	COUNTY Bates

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 250 FEET  
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE N/A FEET

PROPOSED DEPTH 450'	DRILLING CONTRACTOR, NAME AND ADDRESS Pense Brothers Drilling Co., Inc.	ROTARY OR CABLE TOOLS Rotary (Air)	APPROX. DATE WORK WILL START 8/03/90 or on permit
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 _____ N/A			NO. OF WELLS: PRODUCING 0 INJECTION 0 INACTIVE 0 ABANDONED 0

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.)

PROPOSED CASING PROGRAM				APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
50'	7"	17 lbs	to surf.	50'	7"	17 lbs	to surface
TD to surf.	4 1/2"	9 lbs	to surf.	TD - to Surface	4 1/2"	9 lbs	to surface

**RECEIVED**  
JUL 24 1990  
MO Oil & Gas Council  
Economic Geology

I, the undersigned, state that I am the Assistant Vice President 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 7/20/90  
B. E. Blancett

PERMIT NUMBER <b>#20042</b>	<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED	<input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN
APPROVAL DATE 8/20/90	<input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN	<input checked="" type="checkbox"/> DRILL STEM TEST INFO. REQUIRED IF RUN
APPROVED BY <i>Jane Holly Williams</i> <i>XD</i>	<input checked="" type="checkbox"/> SAMPLES REQUIRED	<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>SHANNON'S CIRCLE "S" RANCH, INC.</b>		WELL NUMBER <b>20042 #1</b>			
LOCATION <b>SE/4 SE/4 NE/4</b>			SEC. TWP. AND RANGE OR BLOCK AND SURVEY <b>25-42N-33W</b>		
COUNTY <b>BATES</b>	PERMIT NUMBER (OGC OR OGC-94) <b>20042</b>				
DATE SPUDDED <b>8/29/90</b>	DATE TOTAL DEPTH REACHED <b>8/30/90</b>	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKR, RT, OR Gr.) FEET <b>1030</b>	ELEVATION OF CASING HD. FLANGE <b>1030</b> FEET	
TOTAL DEPTH <b>475'</b>	PLUG BACK TOTAL DEPTH <b>N/A</b>				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <b>423' THRU 433'</b>			ROTARY TOOLS USED (INTERVAL) <b>0</b> TO <b>475'</b>	CABLE TOOLS USED (INTERVAL) <b>N/A</b>	
DRILLING FLUID USED <b>AIR &amp; WATER</b>	WAS THIS WELL DIRECTIONALLY DRILLED? <b>N/A</b>		WAS DIRECTIONAL SURVEY MADE? <b>N/A</b>		DATE FILED <b>N/A</b>
WAS COPY OF DIRECTIONAL SURVEY FILED? <b>N/A</b>					DATE FILED
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST)					DATE FILED

**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>52'09"</b>	<b>6</b>	<b>NIL</b>
<b>PRODUCTION</b>	<b>6 1/4</b>	<b>4 1/2"</b>	<b>9 1/2 LB.</b>	<b>460'</b>	<b>90</b>	<b>NIL</b>

**TUBING RECORD**

**LINER RECORD**

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

**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>2</b>	<b>3 1/8" DENSIT JETS H. S. C.</b>	<b>423 THRU 433</b>	<b>500 GAL. 15% 7000 LB. SAND</b>	<b>423' THRU 433'</b>

**INITIAL PRODUCTION**

DATE OF FIRST PRODUCTION OR INJECTION <b>SHUT-IN</b>		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING -- IF PUMPING, SHOW SIZE AND TYPE OF PUMP.)					
DATE OF TEST <b>12/31/90</b>	HOURS TESTED <b>10</b>	CHOKE SIZE <b>1/4</b>	OIL PRODUCED DURING TEST <b>NIL</b> bbls.	GAS PRODUCED DURING TEST <b>27</b> MCF	WATER PRODUCED DURING TEST <b>NIL</b> bbls.	OIL GRAVITY <b>NIL</b> API (CORR.)	
TUBING PRESSURE <b>Tested 4 1/2 casing</b>	CASING PRESSURE	CALC'D RATE OF PRODUCTION PER 24 HOURS <b>54 MCF</b>		OIL <b>NIL</b> bbls.	GAS <b>54</b> MCF	WATER <b>NIL</b> bbls.	GAS OIL RATIO <b>1000</b>

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

**SHUT-IN**

METHOD OF DISPOSAL OF MUD PIT CONTENTS

**CUTTINGS ONLY, DRILLED WITH AIR-ROTARY + WATER**

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **ASSISTANT VICE PRESIDENT** OF THE **PENSE BROTHERS DRILLING 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 <b>8/03/91</b>	SIGNATURE <b>PENSE BROTHERS DRILLING CO., INC.</b> <b>By: B. E. Blawie, Asst. U.P.</b>
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**RECEIVED**  
**AUG 14 1991**



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

RECEIVED Form OGC-5  
JUL 18 1995

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

OWNER <i>PENSE BROTHERS DRILLING CO., INC.</i>		ADDRESS <i>Box 551, FREDERICKTOWN, MD 63645</i>	
LEASE NAME <i>SHANNAN'S CIRCLE "S" RANCH, INC.</i>		WELL NUMBER <i>#1</i>	
LOCATION <i>SE/4 SE/4 NE/4</i>		SEC. TWP. AND RANGE OR BLOCK AND SURVEY <i>SEC. 25, T 42N, R 33W</i>	
COUNTY <i>BATES</i>	PERMIT NUMBER (OGC-3 OR OGC-31) <i>20042</i>		
DATE SPUDDED <i>8/29/90</i>	DATE TOTAL DEPTH REACHED <i>8/30/90</i>	DATE COMPLETED READY TO PRODUCE OR INJECT <i>11/20/90</i>	ELEVATION (OF, RKR, RT. OR Gr.) FEET <i>GR 1030'</i>
TOTAL DEPTH <i>475'</i>	PLUG BACK TOTAL DEPTH <i>SQUEEZED By CONSOLIDATED &amp; Plug BACK 4 1/2 Plug @ 385'</i>	ELEVATION OF CASING HD FLANGE FEET <i>1032'</i>	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <i>PLANNED PERF 250' TO 260' -</i>		ROTARY TOOLS USED (INTERVAL) <i>0' TO 475'</i>	CABLE TOOLS USED (INTERVAL) <i>NIL</i>
WAS THIS WELL DIRECTIONALLY DRILLED? <i>NO</i>	WAS DIRECTIONAL SURVEY MADE? <i>NO</i>	DRILLING FLUID USED <i>N/A</i>	DATE FILED <i>N/A</i>
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) <i>GAMMA RAY - NEUTRON</i>			DATE FILED <i>8/03/91</i>

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
<i>SURFACE</i>	<i>8 5/8"</i>	<i>7"</i>	<i>19 LB</i>	<i>52' 09"</i>	<i>6</i>	<i>NIL</i>
<i>PROD. CSG.</i>	<i>6 1/4"</i>	<i>4 1/2"</i>	<i>9.5 LB</i>	<i>460'</i>	<i>90</i>	<i>NIL</i>

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
<i>NIL</i>	<i>5 1/2" 4" 3" 2" FEET</i>	<i>0 FT</i>	<i>1 1/2"</i>	<i>INCH</i>	<i>FEET</i>	<i>FEET</i>	<i>FEET</i>

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FOOT	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
<i>2</i>	<i>3 1/8 Dens Jets H.S.C.</i>	<i>423 - 433</i>	<i>500 921 15% HCL 7000 LB SAND</i>	<i>423 - 433 then cemented &amp; plugged back to 385'</i>
<i>no other Perfs or Attempts Production</i>				

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION <i>NIL</i>		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	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY	
TUBING PRESSURE	CASING PRESSURE	CALC'D RATE OF PRODUCTION PER 24 HOURS		OIL	GAS	WATER	API (CORR)
				bbls.	MCF	bbls.	GAS OIL RATIO
				bbls.	MCF	bbls.	

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)  
*ORIGINAL Perfs 423-433 indicated 54 MCF day - Plugged Back to 385' no other attempts made*

METHOD OF DISPOSAL OF MUD PIT CONTENTS  
*AIR DRILLED - Cuttings ONLY IN PIT - OVERLINED WITH TOPSOIL TO SURFACE LEVEL*

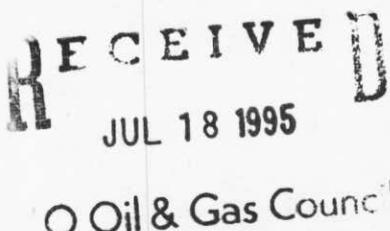
CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE *ASST. U.P.* OF THE *Pense Bros. DRLG. Co., INC.* COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DATE *7/14/95* SIGNATURE *PENSE BROS. DRLG. Co., INC.  
By: B.E. BLANCETT, ASST. U.P.*



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

FORM OGC-6

NAME OF LEASE <b>SHANNON'S 'CIRCLE 'S' RANCH, INC.</b>		DATE <b>7/14/95</b>	
WELL NUMBER <b>#1</b>	LOCATION <b>2290.4</b> FEET FROM (N) SECTION LINE AND <b>245.5</b> FEET FROM (E) SECTION LINE OF		
SECTION <b>25</b>	TOWNSHIP <b>42 N</b>	RANGE <b>33 W</b>	COUNTY <b>BATES</b>
THE ELEVATION OF THE GROUND AT WELL SITE IS <b>1030</b> FEET ABOVE SEA LEVEL. (TPO)		PERMIT NUMBER (OGC-3 OR OGC-3I NUMBER) <b>20042</b>	
NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS <b>COMPANY TOOLS - PENSE BROTHERS DRILLING CO., INC.</b>			
ADDRESS <b>Box 551 FREDERICKTOWN, MD 63645</b>		CITY <b>FREDERICKTOWN</b>	STATE <b>MD</b>
ZIP CODE <b>63645</b>			
DETAILS OF WORK (INDICATE SIZE, KIND, AND DEPTH OF PLUGS, WHERE CASING WILL BE PULLED, OTHER PERTINENT DETAILS)  <b>25' CEMENT AT PRESENT TOTAL DEPTH OF 385' (UNPERFORATED)</b>  <b>20' CEMENT AT TOP (3 1/2' TO 4' OF CASINGS CUT FROM GROUND LEVEL.)</b>  <b>PITS ALREADY FILLED, Levelled &amp; Seeded.</b> <b>TOPSOIL Levelled &amp; Smoothed w/ CASING AREA.</b>			
			
CERTIFICATE: I, the undersigned, state that I am the <b>ASS'T V. P.</b> of the <b>Pense Bros. Drilg. Co., INC.</b> (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>PENSE BROS. DRILG. CO., INC.</b> <b>By: B. E. BLANCETT</b>		DATE <b>7/14/95</b>	



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

FORM OGC 7

OWNER <b>PENSE BROTHERS DRILLING CO., INC.</b>		ADDRESS <b>Box 551, FREDERICKTOWN, MD 63645</b>	
NAME OF LEASE <b>SHANNONS' CIRCLE "S" RANCH, INC.</b>		WELL NUMBER <b>1</b>	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <b>20042</b>
LOCATION OF WELL <b>SE/4 SE/4 NE/4</b>		SEC-TWP-RNG OR BLOCK & SURVEY <b>25-42N, 33W</b>	COUNTY <b>BATES</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>NIL</b> GAS (MCF/DAY) <b>Tested only @ 54 MCF/D</b> WATER (BBL/DAY) <b>NIL</b>
DATE ABANDONED <b>7/18/95</b>	TOTAL DEPTH <b>475'</b>	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBL/DAY) <b>NEVER PRODUCED</b> GAS (MCF/DAY) <b>TESTED ONLY</b>	DRY? <b>PLUGGED</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"	Dry GAS ONLY - 54 MCF/D	423' thru 433'	CEMENT Plug BACK TO 385'
7/30/95 CEMENT PLUG FROM 385' UP TO 360', HEAVY GEL MUD FROM 360' UP TO 15' FROM SURFACE, CEMENT PLUG FROM 15' TO 3' FROM SURFACE. PLUGGED WITH COMPANY TOOLS BY RONALD RENKOP, OPERATOR.			

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"	52' 09"	NIL	49' 09"	CUT OFF 3' FROM SURF.	N/A
4 1/2"	460'	NIL	457'	CUT OFF 3' FROM SURF.	FLO AT SHOE

RECEIVED  
SEP 18 1995

WAS WELL FILLED WITH MUD-LADEN FLUID? **AS DETAILED ABOVE, FROM 360' TO 15' FROM SURF.**

INDICATE DEEPEST FORMATION CONTAINING FRESH WATER **NIL**

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE		
NAME	ADDRESS	DIRECTION FROM THIS WELL
(ONLY OPERATOR) <b>PENSE BROS. DRILG. CO., INC</b>	<b>Box 551, FREDERICKTOWN, MD 63645</b>	<b>N/A</b>
(OWNER) <b>C. J. SHANNON</b>	<b>Rt. 1, Box 40, AMSTERDAM, MD 64723</b>	<b>3/4 MILE SOUTHWEST</b>

METHOD OF DISPOSAL OF MUD PIT CONTENTS  
 DRILLED WITH AIR ROTARY RIG - CUTTINGS ONLY IN PIT - OVERFILLED WITH TOPSOIL TO SURFACE LEVEL. SITE NOW GRASSED OVER.

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. E. Blansett** PENSE BROS. DRILG. CO. INC DATE **7/30/95**

SHANNONS' CIRCLE "S" RANCH, INC.

1  
OF  
2

PERMIT NO. 20042 ELEVATION: 1030 (TOP)  
SE/4 SE/4 NE/4 SEC. 25, 42-33, BATES CO., MD.

B&B  
8/30/90

PENSE BROTHERS DRILLING CO., INC.

- 0-3 TOPSOIL, BROWN CLAY LOAM
- 3-5 CLAY, SANDY, LIGHT BROWN
- 5-10 SANDSTONE, FINE GRAINED, TAN TO BROWN
- 10-15 LIMESTONE, DENSE, WHITE TO BUFF
- 15-170 SHALE, SANDY TO SILTY, LIGHT GREY TO DARK GREY
- 170-175 CLAY, BLOCKY, LIGHT REDDISH BROWN
- 175-250 SHALE, SANDY TO SILTY, SILTSTONE & SANDSTONE  
STRIATIONS (MOSTLY IN LOWER PART) LIGHT TO DARK GREY
- 250-260 SANDSTONE, MEDIUM GRAINED, TAN TO GREY, GOOD  
OIL CUT AND FLUORESCENCE
- 260-265 SHALE, SANDY TO SILTY, LIGHT GREY
- 265-275 SANDSTONE, FINE TO MEDIUM GRAINED, WHITE TO GREY
- 275-285 LIMESTONE, SOME OOLITIC,
- 285-315 SHALE, CALCAREOUS, GREY TO BLUE-GREY
- 315-320 LIMESTONE, SHALY, DENSE, WHITE TO BUFF TO LIGHT GREY
- 320-335 SHALE, CALCAREOUS, GREY TO BLUE-GREY
- 335-355 LIMESTONE, DENSE, BUFF TO WHITE, LIGHT GREY AT BASE
- 355-380 SHALE, DENSE, GREY TO BLUISH GREY
- 380-385 SANDSTONE, MEDIUM GRAIN, SHALY, CALCAREOUS, GREY TO TAN
- 385-405 SHALE, DENSE, SLIGHTLY CALCAREOUS, GREY TO BLUISH GREY
- 405-420 SANDSTONE, FINE GRAIN, SHALY WITH SHALE STRIATIONS, 20% DULL FLUORESCENCE  
WITH NEGLIGIBLE CUT, SLIGHT GAS EMANATION, GREY TO LIGHT GREY
- 420-435 SANDSTONE, FINE TO SOME MEDIUM GRAIN, 35% DULL FLUORESCENCE,  
SLIGHT OIL CUT & GAS EMANATION, WHITE TO GRAY TO TAN
- 435-445 SANDSTONE AS ABOVE, TAN TO LIGHT BROWN, 35 TO 75%  
DULL FLUORESCENCE AT BASE, SLIGHT OIL CUT 440' TO 445'

(CONT'D)

RECEI

SEP 18 1995

Oil & Gas Co.

2  
OF  
2

SHANNONS' CIRCLE "5" RANCH, INC., CONTD.

BEB  
8/30/90

445-449 SHALE, DENSE, GREY, SLIGHT COAL SHOW.

449-455 LIMESTONE, DENSE, WHITE TO BUFF

455-475 SHALE, SLIGHT COAL SEAM, GREY TO DARK GREY  
475 T.D.

RECEIVED  
SEP 18 1995

Oil & Gas Council

**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.)	<u>107</u> Section of NGPA		<u>2</u> 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. CO., INC.</u> Name			_____ Seller Code	
	<u>BOONHEIBERRY ST., Box 551</u> Street				
	<u>FREDERICKTOWN</u> City	<u>MD</u> State	<u>63645</u> Zip Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	_____ Field Name				
	<u>BATES</u> County	<u>MD</u> State			
(b) For OCS wells:	_____ Area Name		_____ Block Number		
	Date of Lease:           Mo. Day Yr. OCS Lease Number _____				
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>SHANNON RANCH 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. _____				
(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. BLANCETT</u> Name			<u>ASS'T. V. P.</u> Title	
Agency Use Only	<u>B. E. Blancett</u> Signature				
Date Received by Juris. Agency	<u>12/30/92</u> Date Application is Completed			<u>(314) 783-3347</u> Phone Number	
Date Received by FERC					

**RECEIVED**  
**DEC 30 1992**  
**MD Oil & Gas Council**

2  
398.8 Ac.

24 18  
25 30

160.0 Ac.  
154.9 Ac.  
15.1 Ac.

2500'

CHAMPLIN

RECEIVED  
JUL 24 1990

MO Oil & Gas Council  
Economic Geology

PROPOSED 250'  
WELL

1" = 400'  
N  
TWP. 42 N

4  
800 Ac.

Shannon's Circle  
"S" Ranch Inc.

R33W WEST BOONE TSP  
R32W WEST BOONE TSP

POINDEXTER

#20042

WELL LOCATION MAP - BATES COUNTY TAX MAP  
65-05-7

PROPOSED SHANNON'S CIRCLE "S" RANCH, INC. WELL  
NO. 1 IN THE SOUTHEAST QUARTER OF THE NORTHEAST  
QUARTER OF SECTION 25, TOWNSHIP 42 NORTH,  
RANGE 33 WEST OF THE 5TH PRINCIPAL MERIDIAN  
IN BATES COUNTY, MISSOURI.

*William C. Lethcho* 7-18-90  
WILLIAM C. LETHCHO LS-1539  
BATES COUNTY SURVEYOR

SHEET 1 OF 2

25 30

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

WELL REFERENCE TIES IN THE SOUTHEAST QUARTER OF  
THE NORTHEAST QUARTER OF SECTION 25, TOWNSHIP  
42 NORTH, RANGE 33 WEST OF THE 5TH PRINCIPAL  
MERIDIAN IN BATES COUNTY, MISSOURI.



1"=60'

SHANNON'S CIRCLE "S" RANCH, INC. WELL NO. 1

FOR: PENSE BROTHERS DRILLING CO. INC.

MAGNETIC BEARINGS  
8° EAST DECL.

SPIKE IN SW SIDE  
10" WALNUT

PROPOSED SHANNON'S  
CIRCLE "S" RANCH  
WELL NO. 1

**RECEIVED**  
JUL 24 1990

MO Oil & Gas Council  
Economic Geology

**#20042**

SPIKE IN NE SIDE  
14" ELM

3RD STEEL  
FP WEST

SPIKE IN  
NW SIDE  
NORTH GP

SHEET 2 OF 2

*William C. Lethcho*  
WILLIAM C. LETHCHO LS-1539

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

T42N R33W



1" = 400' ±

N89°24'03"W

2  
398.8 Ac.

160.0 Ac.

154.9 Ac.

15.6 Ac.

WELL LOCATION MAP - BATES COUNTY TAX  
MAP 65-05-7  
SHANNON'S CIRCLE "S" RANCH, INC. WELL  
NUMBER 1 IN THE SOUTHEAST QUARTER OF  
THE NORTHEAST QUARTER OF SECTION 25,  
TOWNSHIP 42 NORTH, RANGE 33 WEST OF THE  
5TH PRINCIPAL MERIDIAN IN BATES COUNTY,  
MISSOURI

2290.4'

N00°09'12"W

WELL 245.5  
#1

4  
800 Ac.

WEST BOONE TSP.

EAST BOONE TSP.

R33

R32

THIS WELL LOCATION MAP CORRECTS AND  
SUPERSEDES THE WELL LOCATION MAP  
SECTION LINE TIES SHOWN ON THE WELL  
LOCATION MAP DATED 7-18-90.

RECEIVED  
OCT 11 1990

MO Oil & Gas Council

*William C. Lethcho* 9-28-90

WILLIAM C. LETHCHO LS-1539  
BATES COUNTY SURVEYOR

SHEET 1 OF 2

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

WELL REFERENCE TIES IN THE SOUTHEAST QUARTER OF  
 THE NORTHEAST QUARTER OF SECTION 25, TOWNSHIP  
 42 NORTH, RANGE 33 WEST OF THE 5TH PRINCIPAL  
 MERIDIAN IN BATES COUNTY, MISSOURI.



1"=60'

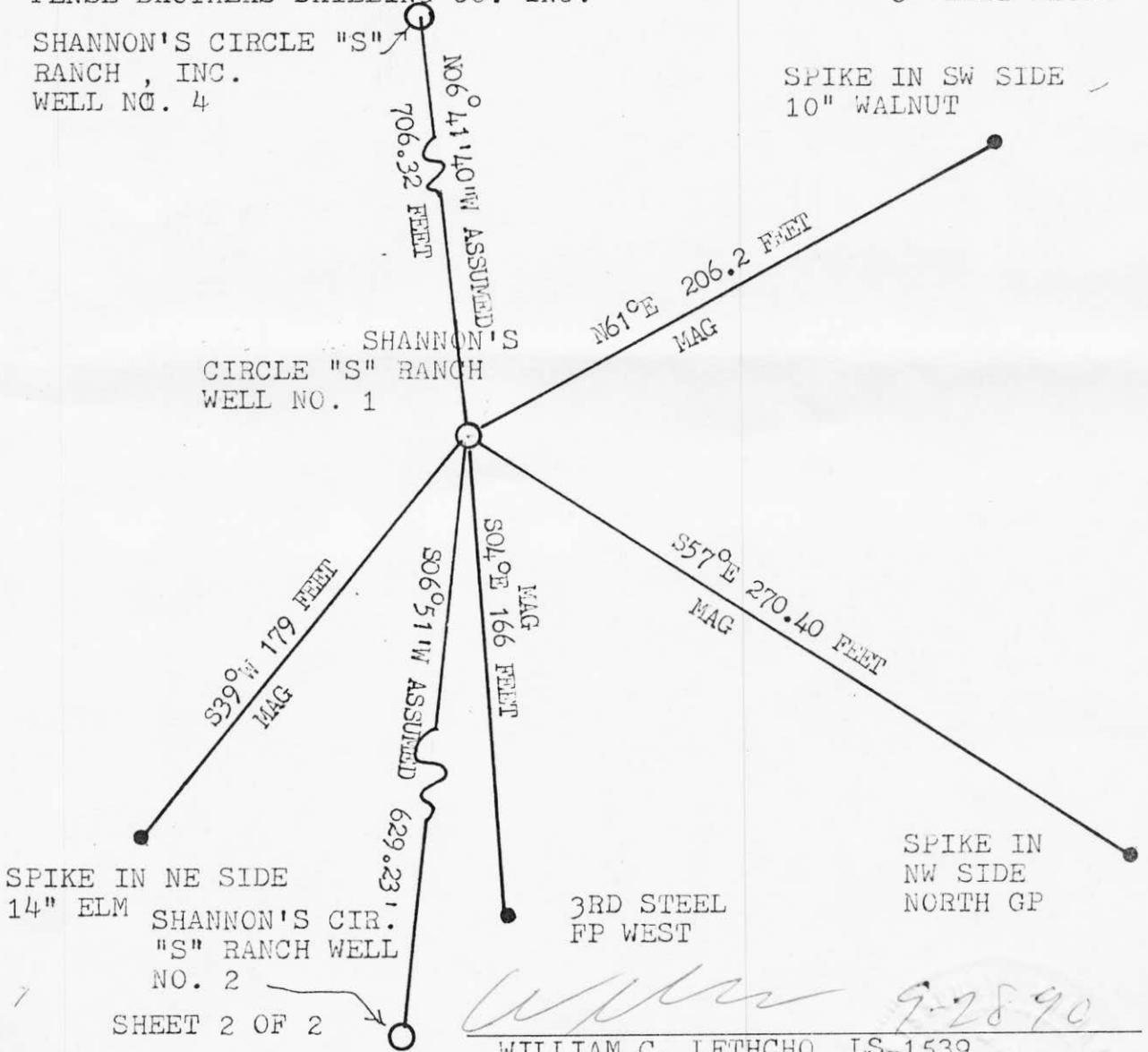
SHANNON'S CIRCLE "S" RANCH, INC. WELL NO. 1

FOR: PENSE BROTHERS DRILLING CO. INC.

MAGNETIC BEARINGS  
 8° EAST DECL.

SHANNON'S CIRCLE "S"  
 RANCH, INC.  
 WELL NO. 4

SPIKE IN SW SIDE  
 10" WALNUT



SPIKE IN NE SIDE  
 14" ELM  
 SHANNON'S CIR.  
 "S" RANCH WELL  
 NO. 2

3RD STEEL  
 FP WEST

SPIKE IN  
 NW SIDE  
 NORTH GP

SHEET 2 OF 2

WILLIAM C. LETHCHO LS-1539

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

SECTION 25, T42N,  
 R33W COORDINATES.  
 ASSUMED

NWC  
 N10054.54  
 E 4784.69  
 IBS

NEC  
 N10000.00  
 E10000.00  
 IBS

**RECEIVED**  
 OCT 11 1990

SWC  
 N4813.69  
 E4765.38  
 IBF

SEC  
 N4780.90  
 E10013.97  
 IBF 13.2' NORTH

MO Oil & Gas Council

WELL NO. 1	WELL NO. 2	WELL NO. 4
N7712.07	N7087.34	N8413.57
E9760.65	E9685.57	E9678.30

