



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.

DATE 8/23/93  
STATE MO ZIP CODE 63645

ADDRESS P.O. Box 551  
CITY FREDERICKTOWN

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE JOHN W. MARKHAM, ET UX WELL NUMBER 1 ELEVATION (GROUND) 960 (TOPO)  
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE)

WELL LOCATION 1150 FT. FROM (S) SECTION LINE 1000 FEET FROM (E) (W) SECTION LINE  
SECTION 5 TOWNSHIP 43N RANGE 33W COUNTY CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 165' FEET  
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE 330 FEET

PROPOSED DEPTH 325' DRILLING CONTRACTOR, NAME AND ADDRESS PENSE BRAS. DRG. CO., INC, Box 551, FREDERICKTOWN, MO, 63645 ROTARY OR CABLE TOOLS ROTARY (AIR) APPROX DATE WORK WILL START 9/01/93  
NUMBER OF ACRES IN LEASE 60 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 N/A NO OF WELLS: PRODUCING 0  
ADDRESS \_\_\_\_\_ INJECTION 0  
INACTIVE 0  
ABANDONED 0

STATUS OF BOND  SINGLE WELL AMOUNT \$ \_\_\_\_\_  BLANKET BOND AMOUNT \$ 20,000<sup>00</sup>  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

AMOUNT	SIZE	WT/FT	CEM.
<u>50'</u>	<u>7"</u>	<u>17 LB</u>	<u>TO SURF.</u>
<u>TD TO SURF.</u>	<u>4 1/2"</u>	<u>10.5 LB.</u>	

APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST

AMOUNT	SIZE	WT/FT	CEM.
"	"	"	"
"	"	"	<u>TO SURFACE</u>

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  
B. E. BLANCETT

DATE 8/23/93

PERMIT NUMBER #20569

APPROVAL DATE 9/1/93

APPROVED BY [Signature]

- 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 PERMITEE.

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 SEP 01 1993



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, MO 63645</b>	
LEASE NAME <b>JOHN W. MARKHAM, ET UX</b>		WELL NUMBER <b>1</b>	
LOCATION <b>SE/4 SE/4</b>		SEC. TWP. AND RANGE OR BLOCK AND SURVEY <b>SEC. 5, T 43N, R 33W,</b>	
COUNTY <b>CASS</b>	PERMIT NUMBER (OGC-3 OR OGC-31) <b>20569</b>		
DATE SPUNDED <b>9/08/93</b>	DATE TOTAL DEPTH REACHED <b>9/10/93</b>	DATE COMPLETED READY TO PRODUCE OR INJECT <b>DRY HOLE</b>	ELEVATION (DF, RKR, RT. OR Gr.) FEET <b>960 (Gr) (TOP)</b>
TOTAL DEPTH <b>316'</b>	PLUG BACK TOTAL DEPTH <b>N/A</b>		
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <b>DRY HOLE</b>		ROTARY TOOLS USED (INTERVAL) <b>0' TO 316'</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 - LITHOLOGY ONLY</b>			DATE FILED <b>7/17/95</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>53'</b>	<b>7 SACKS CEMENT 1 SACK GEL</b>	<b>NIL</b>

**TUBING RECORD**

**LINER RECORD**

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

**PERFORATION RECORD**

**ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD**

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
		<b>N/A</b>		

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**JUL 24 1995**

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**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) <b>DRY HOLE - N/A</b>					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST bbls.	GAS PRODUCED DURING TEST MCF	WATER PRODUCED DURING TEST bbls.	OIL GRAVITY API (CORR.)	
TUBING PRESSURE	CASING PRESSURE	CALCULATED 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)

METHOD OF DISPOSAL OF MUD PIT CONTENTS **AIR ROTARY WITH WATER, CUTTINGS ONLY IN PIT, OVERRILLED TO SURF WITH TOPSOIL, PIT AREA RESEEDED, NOW GRASSED OVER.**

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

DATE **7/17/95** SIGNATURE **B E Blauett PENSE BROS. DRILG. CO., INC.**  
**B.E. BLANCKETT, ASST. V.P.**



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

FORM OGC-8

NAME OF LEASE <b>JOHN W. MARKHAM, ET UX</b>		DATE <b>7/17/95</b>	
WELL NUMBER <b>#1</b>	LOCATION <b>1150 FEET FROM (S) SECTION LINE AND 1000 FEET FROM (E) SECTION LINE OF</b>		
SECTION <b>5</b>	TOWNSHIP <b>43N</b>	RANGE <b>33W</b>	COUNTY <b>CASS</b>
THE ELEVATION OF THE GROUND AT WELL SITE IS <b>960 (TOPO) FEET ABOVE SEA LEVEL.</b>		PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <b>20569</b>	

NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS: <b>COMPANY TOOLS, PENSE BROTHERS DRILLING CO., INC.</b>			
ADDRESS <b>800 NEWBERRY ST Box 551</b>	CITY <b>FREDERICKTOWN</b>	STATE <b>MO</b>	ZIP CODE <b>63645</b>

**DETAILS OF WORK (INDICATE SIZE, KIND, AND DEPTH OF PLUGS, WHERE CASING WILL BE PULLED, OTHER PERTINENT DETAILS)**

WELL DRILLED TO 316' T.D., 53' SURFACE CASING (17.5 LB) CEMENTED TO SURFACE @ 7 SACKS CEMENT & 1 SACK OF GEL AHEAD. WELL WAS DRILLED WITH INTENTION OF USING FOR AN INJECTION (WATER) WELL BUT INTENT CHANGED WITH DECISION TO DRY HOLE SAME.

MUD PIT WAS FILLED TO SURFACE WITH TOP SOIL & GRASS RESEEDED; PRESENTLY GRASSED OVER.

CASING TO BE CUT OFF APPROX 4' BELOW GROUND LEVEL WITH HOLE TO BE FILLED FROM BOTTOM TO TOP OF REMAINING 7" CASING WITH CEMENT & HEAVY MUD CONSISTING OF A MINIMUM OF CEMENT PLUGGING OF 25' AT BOTTOM & 20' AT TOP WITH BALANCE OF HEAVY MUD OR CEMENT, OR BOTH.

**RECEIVED**  
**JUL 24 1995**

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**CERTIFICATE:** I, the undersigned, state that I am the ASSY. V. P. of the Pense Bros Drilling 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 Blanceit PENSE BROS. DRILG. CO., INC.</b> <b>By: B.E. BLANCETT, ASST. V.P.</b>	DATE <b>7/17/95</b>
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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI OIL AND GAS COUNCIL  
PLUGGING RECORD

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RECEIVED FORM OGC 7  
SEP 19 1995

OWNER <b>PENSE BROTHERS DRILLING CO., INC.</b>		ADDRESS <b>Box 551, FREDERICKTOWN, MO 63645</b>			
NAME OF LEASE <b>JOHN W. MARKHAM, ET. UX</b>		WELL NUMBER <b>1</b>	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <b>20569</b>		
LOCATION OF WELL <b>SE/4 SE/4</b>		SEC-TWP-RNG OR BLOCK & SURVEY <b>5-43N-33W</b>		COUNTY <b>CAS</b>	
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: <b>PENSE BRAS. 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 (BBLS/DAY) <b>NIL</b>		DRY? <b>DRY HOLE</b>
DATE ABANDONED <b>7/17/95</b>	TOTAL DEPTH <b>316'</b>	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) <b>NIL</b>	GAS (MCF/DAY) <b>NIL</b>	WATER (BBLS/DAY) <b>10 BBLS DAY (EST.)</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	
<b>"HEPLER + BANDERA"</b>		<b>WATER</b>		<b>278' TO 315'</b>	
<b>9-08-95</b>		<b>BELLED MUD FROM 316' UP TO 250', HEAVY GELLED MUD FROM 250' UP TO 20' CEMENTED FROM 20' TO APPROX 4' FROM SURFACE, CASING CUT OFF APPROX. 4' BELOW SURFACE.</b>			
SIZE PIPE <b>7"</b>	PUT IN WELL (FT) <b>53'</b>	PULLED OUT (FT) <b>NIL</b>	LEFT IN WELL (FT) <b>49'</b>	GIVE DEPTH AND METHOD OF PARTING CASING (SHOT, RIPPED, ETC.) <b>CASING CUT OFF APPROX 4' FROM SURF.</b>	PACKERS AND SHOES <b>NIL</b>
<b>PLUGGED WITH COMPANY TOOLS, LARRY PENSE, OPERATOR.</b>					
WAS WELL FILLED WITH MUD-LADEN FLUID? <b>Yes, See ABOVE.</b>			INDICATE DEEPEST FORMATION CONTAINING FRESH WATER <b>HEPLER-BANDERA 278' TO 315'</b>		
NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
NAME		ADDRESS		DIRECTION FROM THIS WELL	
<b>(OPERATOR) PENSE BRAS. DRILG. CO., INC.</b>		<b>Box 551, FREDERICKTOWN, MO 63645</b>		<b>N/A</b>	
<b>(OWNER) JOHN W. MARKHAM, ET. UX</b>		<b>DREXEL, MO</b>		<b>1/8 MILE SOUTH</b>	
METHOD OF DISPOSAL OF MUD PIT CONTENTS		<p>DRILLED WITH ROTARY AIR RIG - CUTTINGS ONLY IN PIT OVERFILLED WITH TOPSOIL TO SURFACE, RESEEDED &amp; PRESENTLY GRASSED OVER.</p>			
NOTE FILE THIS FORM IN DUPLICATE WITH (USE REVERSE SIDE FOR ADDITIONAL DETAIL)					
CERTIFICATE I, the undersigned, state that I am the <b>ASST. U.P.</b> of the <b>Pense Bros Drilg Co, Inc.</b> (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>B. E. BLANCETT, ASST. U.P.</b>		PENSE BRAS. DRILG. CO., INC.		DATE <b>9/17/95</b>	

53' SURFACE  
7 SACKS CEMENT  
1 SACK GEL AHEAD

20569 - MARKHAM #1  
SEC 5, T43N, R33W, CASS CO.

BEB  
9/10/93

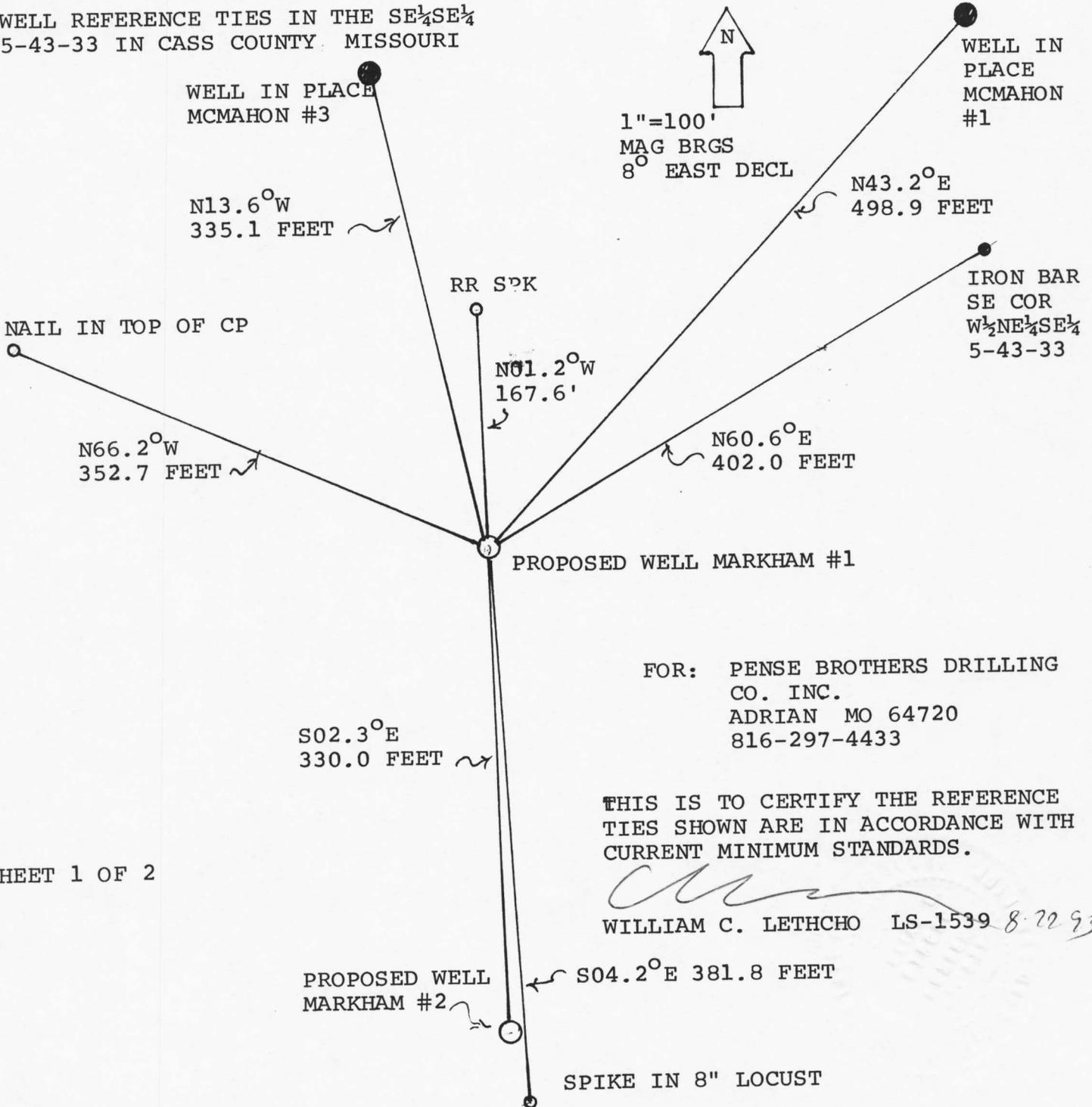
- 0-2 TOPSOIL, BROWN TO REDDISH, SILTY TO SANDY CLAY  
3-10 CLAY - REDDISH-BROWN  
10-30 CLAY - SANDY TO SHALY, TAN TO LIGHT BROWN  
30-45 SHALE - DENSE, GREY TO BLUE-GREY  
45-50 LIMESTONE, DENSE, BUFF TO BROWN  
50-55 SHALE, DENSE, GREY TO BLUE-GREY, CALCAREOUS  
55-95 LIMESTONE, VARIEGATED, MOSTLY GREY TO WHITE,  
FEW SHALE STRIATIONS  
95-100 SHALE, GREY TO DARK GREY, CLAY WITH 2' COAL BED  
98' TO 100'  
100-105 UNDERCLAY @ TOP, BALANCE SHALE, GREY TO BLUE GREY  
105-123 LIMESTONE, GREY TO BUFF TO WHITE, DENSE  
123-130 CONGLOMERATE, SHALE + CLAY WITH APPROXIMATELY 1' COAL  
BED AT 126' TO 127',  
130-134 SHALE, GREY TO LIGHT GREY  
134-140 LIMESTONE, DENSE, BUFF TO TAN  
140-26. SHALE, SANDY TO BLOCKY, GREY TO DARK GREY.  
265-275 SHALE, GREY TO GREENISH-GREY  
275-277 LIMESTONE, SHALY, GREY TO LIGHT GREY  
277-278 SHALE, GREY TO DARK GRAY @ BLACK SHALE 277' TO 278'  
278-305 SANDSTONE, VARIEGATED, ONLY SLIGHT FLUORESCENCE, STAIN, ODOR,  
OR GAS EMANATION, MOSTLY CALCITIC.  
305-307 SHALE, CALCAREOUS, LIGHT GREY TO GREY, SANDY  
307-315 SANDSTONE, VARIEGATED, NEGLIGIBLE FLUORESCENCE, STAINING, ODO  
OR CUT.  
315-316 SHALE, DENSE, GREY TO BLUE GREY  
316' T.P.

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JUL 24 1995

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

WELL REFERENCE TIES IN THE SE $\frac{1}{4}$ SE $\frac{1}{4}$   
 5-43-33 IN CASS COUNTY, MISSOURI



FOR: PENSE BROTHERS DRILLING  
 CO. INC.  
 ADRIAN MO 64720  
 816-297-4433

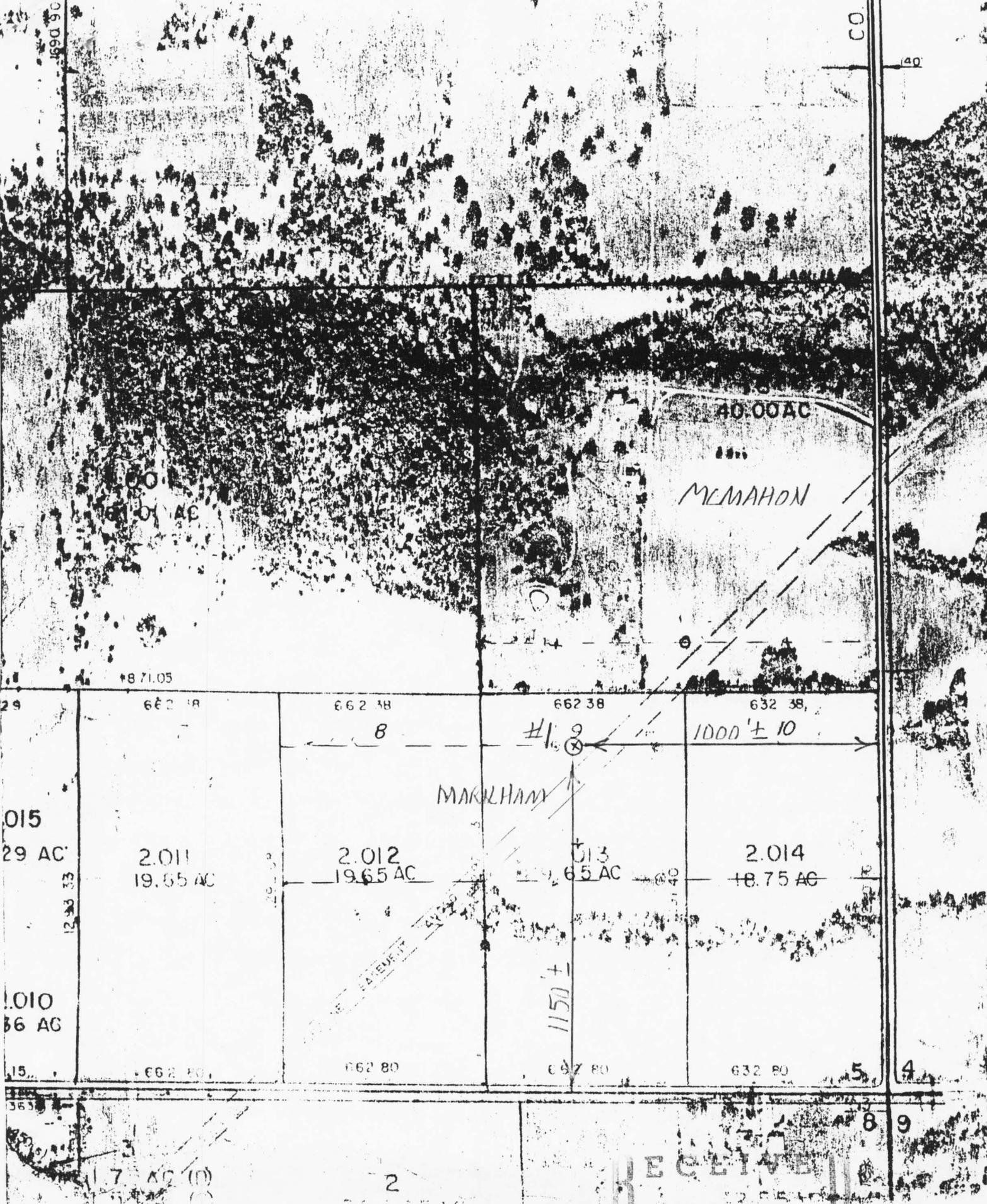
THIS IS TO CERTIFY THE REFERENCE  
 TIES SHOWN ARE IN ACCORDANCE WITH  
 CURRENT MINIMUM STANDARDS.

WILLIAM C. LETHCHO LS-1539 8-22-93

SHEET 1 OF 2

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WELL LOCATION MAP  
CASS CO TAX MAP 16-03  
Sheet 2 of 2

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1" = 400' ±  
743N R33W

*[Handwritten Signature]*

8-22-93