



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: PEULSE BROTHERS DRILLING CO., INC.
 ADDRESS: Box 551, 800 NEWBERRY STREET CITY: FREDERICKTOWN STATE: MO ZIP CODE: 63645
 DATE: SUPPLEMENTING 7/25/95
DEVELOPMENTAL APPLICATION

DESCRIPTION OF WELL AND LEASE
 NAME OF LEASE: MARKHAM WELL NUMBER: # 5 ELEVATION (GROUND): 950' (TOPO)
 WELL LOCATION: SE/4 SE/4 (GIVE FOOTAGE FROM SECTION LINE) 160' FT. FROM (S) SECTION LINE 780' FEET FROM (E) SECTION LINE

WELL LOCATION: SE/4 SE/4 SECTION: 5 TOWNSHIP: 43N RANGE: 33W COUNTY: CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 160' FEET
 DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE: 659.60 FEET

PROPOSED DEPTH: 300' DRILLING CONTRACTOR, NAME AND ADDRESS: PEULSE BROS. DRLG. CO., INC. ROTARY OR CABLE TOOLS: ROTARY (AIR) APPROX. DATE WORK WILL START: ON PERMIT
 NUMBER OF ACRES IN LEASE: 60 NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 4
 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: 2
 ADDRESS: N/A 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.)
N/A

PROPOSED CASING PROGRAM				APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
<u>50'</u>	<u>7"</u>	<u>19 LB.</u>	<u>TO SURF</u>				
<u>TD TO SURF</u>	<u>4 1/2"</u>	<u>10.5 LB.</u>	<u>TO SURF</u>				

I, the undersigned, state that I am the ASS'T. V. P. of the PEULSE 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: B. E. Blancett PEULSE BROS. DRLG. CO., INC. DATE: 9/30/95
 BY: B. E. BLANCETT

PERMIT NUMBER: 20591
 APPROVAL DATE: 7-25-95
 APPROVED BY: Jane Holly Williams
 DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN
 CORE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO REQUIRED IF RUN
 SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 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: _____



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 BROTHERS DRILLING Co., Inc.		ADDRESS Box 551, FREDERICKTOWN, MO 63645	
LEASE NAME JOHN W. MARKHAM, ET UX		WELL NUMBER #5	
LOCATION LOT 9		SEC. TWP. AND RANGE OR BLOCK AND SURVEY SEC. 5, T 43N, R 33W,	
COUNTY CASS	PERMIT NUMBER (OGC-3 OR OGC-31) 20591		
DATE SPUDDED 7/25/95	DATE TOTAL DEPTH REACHED 7/26/95	DATE COMPLETED READY TO PRODUCE OR INJECT N/A (DRY HOLE)	ELEVATION (DF, RKR, RT, OR Gr.) FEET 950 (GY) (TOPD)
TOTAL DEPTH 305	PLUG BACK TOTAL DEPTH N/A	ELEVATION OF CASING HD. FLANGE N/A	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION N/A		ROTARY TOOLS USED (INTERVAL) TO 0 TO 305	CABLE TOOLS USED (INTERVAL) N/A
DRILLING FLUID USED AIR & WATER	WAS THIS WELL DIRECTIONALLY DRILLED? NO		DATE FILED N/A
WAS DIRECTIONAL SURVEY MADE? NO		WAS COPY OF DIRECTIONAL SURVEY FILED? N/A	DATE FILED 8/03/95
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) NO MECHANICAL LOGS - LITHOLOGY ONLY			DATE FILED 8/03/95

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	8 5/8"	7"	19 LB.	51' 07"	5 SACKS	NIL

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FOOT	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
		N/A		

INITIAL PRODUCTION

Oil & Gas Council

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	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY	
			N/A			API (CORR)	
TUBING PRESSURE	CASING PRESSURE	CAL' TED RATE OF PRODUCTION PER 24 HOURS		OIL	GAS	WATER	GAS OIL RATIO
				bbls.	MCF	bbls.	bbls.

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

N/A

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

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **ASS'T. 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 8/03/95	SIGNATURE B E Blauzett By: B. E. BLAUZETT	PENSE BROS. DRILG. CO., INC.
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
NOTICE OF INTENTION TO ABANDON WELL

FORM OGC-8

NAME OF LEASE <i>JOHN W. MARKHAM, ET UX.</i>		DATE <i>7/26/95</i>	
WELL NUMBER <i>#5</i>	LOCATION <i>168</i> FEET FROM (N) SECTION LINE AND <i>735</i> FEET FROM (E) SECTION LINE OF		
SECTION <i>5</i>	TOWNSHIP <i>43N</i>	RANGE <i>33W</i>	COUNTY <i>CASS</i>
THE ELEVATION OF THE GROUND AT WELL SITE IS <i>950 (TOP)</i> FEET ABOVE SEA LEVEL.		PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) <i>20591</i>	
NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS: <i>COMPANY TOOLS PENSE BROTHERS DRILLING CO., INC.</i>			
ADDRESS <i>800 NEWBERRY ST. Box 551</i>		CITY <i>FREDERICKTOWN</i>	STATE <i>MO</i>
ZIP CODE <i>63645</i>			
DETAILS OF WORK (INDICATE SIZE, KIND, AND DEPTH OF PLUGS, WHERE CASING WILL BE PULLED, OTHER PERTINENT DETAILS)			
<p><i>HOLE WAS DRILLED TO A TOTAL DEPTH OF 305' WITH 51' 7" OF 7" SURFACE CASING HAVING BEEN SET AND CEMENTED TO SURFACE.</i></p> <p><i>HOLE INDICATED NO PRESENCE OF POTENTIAL FOR OIL AND GAS PRODUCTION NOR WATER IN QUANTITY SUFFICIENT FOR DOMESTIC USE.</i></p> <p><i>AT PLUGGING ALL CSG. TO BE LEFT IN & CUT OFF APPROX. 3' FROM SURFACE HOLE TO BE PLUGGED BY CEMENT PLUG FROM TOTAL DEPTH TO THAT POINT 3' FROM SURFACE, WITH PIT TO BE OVERFILLED WITH TOPSOIL & AREA RESEEDED.</i></p>			
<p>RECEIVED</p> <p>AUG 08 1995</p>			
<p>CERTIFICATE: I, the undersigned, state that I am the <i>ASST. V. P.</i> of the <i>Pense Bros Drly Co, Inc.</i> (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 <i>B E Blaneett</i> <i>By: B. E. BLANCETT</i>		DATE <i>7/26/95</i>	



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

FORM OGC-7

OWNER PENSE BROTHERS DRILLING CO., INC.		ADDRESS Box 551, FREDERICKTOWN, MO 63645	
NAME OF LEASE MARKHAM		WELL NUMBER 5	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) 20591
LOCATION OF WELL Lot 9		SEC-TWP-RNG OR BLOCK & SURVEY SEC 5, T 43N, R 33W	
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: PENSE BROS. DRILG. CO., INC.		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) N/A GAS (MCF/DAY) N/A DRY? DRY
DATE ABANDONED 7/26/95	TOTAL DEPTH 305'	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) NIL GAS (MCF/DAY) NIL	WATER (BBLS/DAY) NIL

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.
BANDERA QUARRY SS	SLIGHT SHOW OIL & GAS & WATER	250' - 253'	HOLE CEMENTED FROM T.D. 305'
HEPLER	aa	225' - 230'	TO APPROX. 3' FROM SURFACE.

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"	51' 07"	NIL	51' 07"	CUT OF SURF CSG. APPROX 3' FROM SURF	HEC 8 AUG 08 1995

WAS WELL FILLED WITH MUD-LADEN FLUID? **CEMENTED T.D. 305' TO APPROX. 3' FROM SURF.**

INDICATE DEEPEST FORMATION CONTAINING FRESH WATER **VERY SLIGHT SHOW WATER IN HEPLER & BANDERA QUARRY @ 225-230' & 250'-253'.**

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

NAME	ADDRESS	DIRECTION FROM THIS WELL
ONLY AREA OPERATOR: PENSE BROS. DRILG. CO., INC.	Box 551, FREDERICKTOWN, MO 63645	N/A
OWNERS: John W. MARKHAM	Rt. 2, Box 46A, DREXEL, MO 64742	LIVES ON SUBJECT LAND
W. A. McMANON	Box 193, DREXEL, MO 64742	1/2 mile NORTH
DEL DUNNIE	76 GROWTH INDUSTRIES 12523 3RD ST. GRANDVIEW, MO 64030	HAS LAND ALL DIRECTIONS FROM THIS LAND.

METHOD OF DISPOSAL OF MUD PIT CONTENTS **MUD PIT CONTAINED ONLY CUTTINGS AS DRILLED WITH AIR ROTARY & WATER. TO BE OVERFILLED WITH TOPSOIL TO SURFACE LEVEL & RESEEDED WHEN DRY**

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. BLANCETT** PENSE BROS DRILG CO, INC DATE **8/03/95**

EL: 950 (Gr) (7010)
SURF. CSE. / 51' 7" OF 7"

MARKHAM #5
PERMIT # 20591

BER
7/26/95

- 0-3 TOPSOIL, BROWN TO REDDISH/BROWN, SANDY CLAY
3-10 CLAY, REDDISH/BROWN
10-28 CLAY, SILTSTONE, SLIGHTLY, TAN TO LIGHT BROWN
28-32 SHALE, DENSE, GREY TO BLUE/GREY
32-60 LIMESTONE, BUFF TO TAN, DENSE
60-64 SHALE, GREY TO BLUE/GREY
64-82 LIMESTONE, GREY TO WHITE.
82-87 SHALE, CONGLOMERATE @ FEW COAL PARTICLES
87-96 LIMESTONE, GREY TO BUFF
96-102 SHALE; GREY TO DARK GREY
102-104 LIMESTONE, BUFF TO WHITE
104-225 SHALE, GREY TO DARK GREY WITH FEW SILTSTONE STRIATIONS (SHALY), CALCITIC
225-230 SLIGHT LIMESTONE STRIATION, BALANCE CONGLOMERATE & SHALE
230-250 SHALE, VARIEGATED, GREY TO DARK/GREY
250-263 SANDSTONE, DENSE, GREY TO WHITE WITH SLIGHT TAN TO LIGHT BROWN STRIATIONS, CALC, SLIGHT FLUORESCENCE, STAINING & CUT FROM 250' THRU 253', NEGLIGIBLE GAS SHOW.
263-273 SHALE, GREY TO DARK GREY
273-277 SILTSTONE TO SANDSTONE, FINE GRAINED, DENSE, SHALY, GREY TO WHITE
277-305 SHALE, GREY TO DARK GREY
T.D. 305'

RECEIVED
AUG 08 1995

Oil & Gas Unit
COAL PARTICLES

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

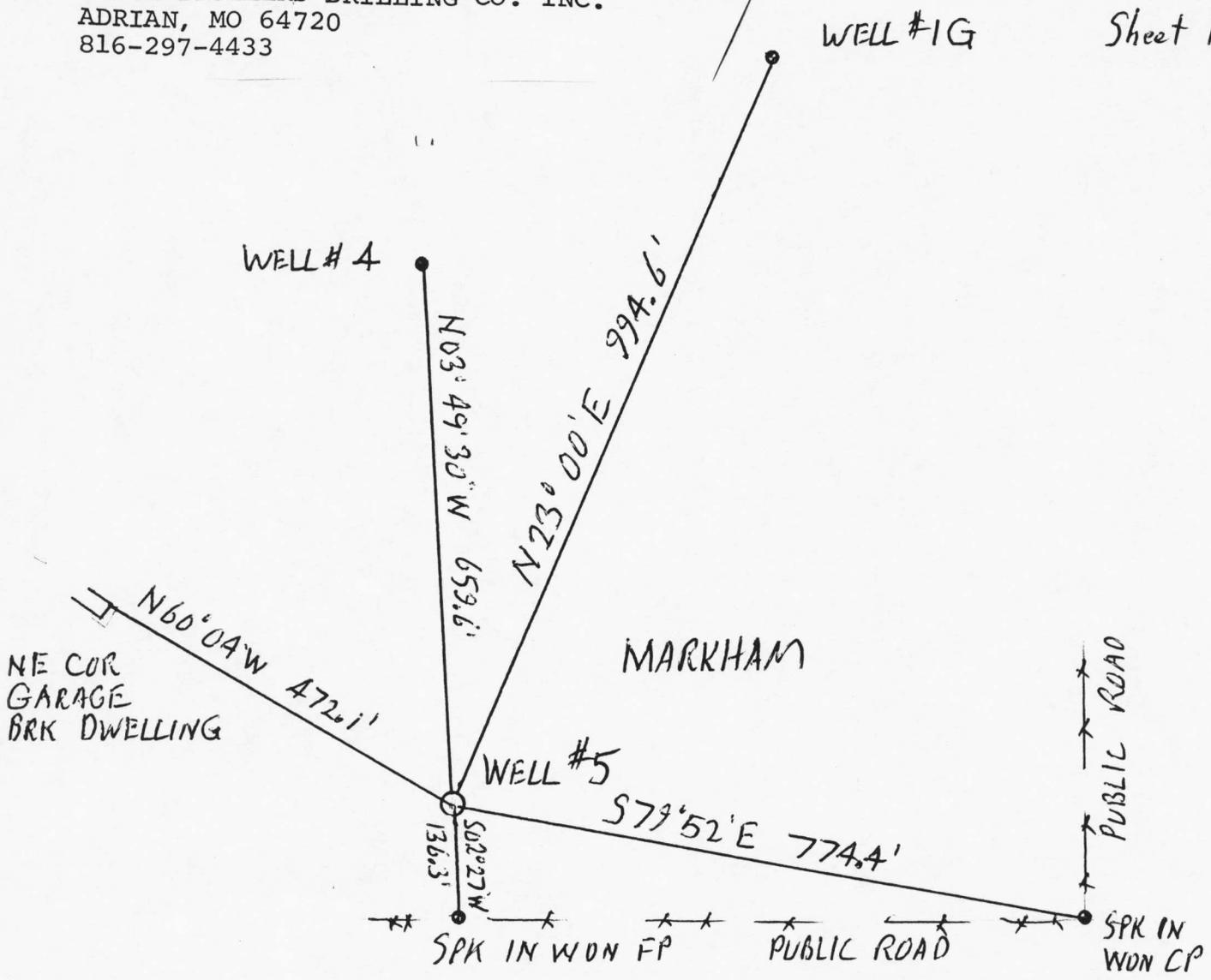
WELL REFERENCE TIES IN THE *SOUTHEAST* QUARTER
 OF THE *SOUTHEAST* QUARTER OF SECTION 5, TOWNSHIP
 43 NORTH, RANGE 33 WEST OF THE 5TH PRINCIPAL
 MERIDIAN IN CASS COUNTY, MISSOURI.

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

MAG BRG
 8° E DECL
 9-29-95



1"=200'
 Sheet 1 of 2



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

[Signature]
 WILLIAM C. LETHCHO LS-1539

Permit #: 20591

Date Issued: 7-25-95

County: Cass

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 7-26-95

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

COMMENTS:

	TYPE	ID #	Date Received
Logs			
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: PEASE BROTHERS DRILLING CO., INC. DATE: SUPPLEMENTING 7/25/95 DEVELOPMENTAL APPLICATION
ADDRESS: Box 551, 800 NEWBERRY STREET CITY: FREDERICKTOWN STATE: MD ZIP CODE: 63645

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: MARKHAM WELL NUMBER: # 5 ELEVATION (GROUND): 950' (TOPO)

WELL LOCATION: SE/4 SE/4 SECTION: 160± FT. FROM (S) SECTION LINE: 780± FEET FROM (E) SECTION LINE

WELL LOCATION: SE/4 SE/4 SECTION: 5 TOWNSHIP: 43N RANGE: 33W COUNTY: CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 160± FEET
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE: 659.60 FEET

PROPOSED DEPTH: 300' DRILLING CONTRACTOR, NAME AND ADDRESS: PEASE BROS. DRLG. CO., INC. Box 551, FREDERICKTOWN, MD 63645 ROTARY OR CABLE TOOLS: ROTARY (AIR) APPROX. DATE WORK WILL START: ON PERMIT
NUMBER OF ACRES IN LEASE: _____ NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 4
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: 2
ADDRESS: _____ 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.)
N/A

PROPOSED CASING PROGRAM				APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
<u>50'</u>	<u>7"</u>	<u>19 LB.</u>	<u>TO SURF</u>				
<u>TD TO SURF</u>	<u>4 1/2"</u>	<u>10.5 LB.</u>	<u>TO SURF</u>				

I, the undersigned, state that I am the ASST. V. P. of the PEASE 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: B. E. BLANCETT PEASE BROS. DRLG. CO., INC. DATE: 9/30/95
BY: B. E. BLANCETT

PERMIT NUMBER: 20591 DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN
APPROVAL DATE: 7-25-95 CORE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO REQUIRED IF RUN
APPROVED BY: Jarrett Holly Williams SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 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.

RECEIVED
OCT 03 1995

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: _____



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: 7/25/95
ADDRESS: 800 NEWBERRY ST. BOX 551 CITY: FREDERICKTOWN STATE: MO ZIP CODE: 63645

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: MARKHAM WELL NUMBER: DEVELOPMENTAL WELL #5 ELEVATION (GROUND): 950' (TOP)

WELL LOCATION: LOT 9 168 FT. FROM (S) SECTION LINE 235 FEET FROM (E) SECTION LINE

WELL LOCATION: SECTION SEC 5 TOWNSHIP T 43N RANGE R 33W COUNTY CASS

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY ON LEASE LINE: 168 FEET
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE: _____ FEET

PROPOSED DEPTH: 300' DRILLING CONTRACTOR, NAME AND ADDRESS: PENSE BROS. DRLG. CO., INC. BOX 551, FREDERICKTOWN, MO 63645

NUMBER OF ACRES IN LEASE: 60 ROTARY OR CABLE TOOLS: ROTARY (ALB) APPROX. DATE WORK WILL START: ON PERMIT

NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 3
NUMBER OF ABANDONED WELLS ON LEASE: 1 - To be plugged

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? _____ NO. OF WELLS PRODUCING: 3

NAME: _____ ADDRESS: N/A INJECTION: 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.)

N/A

PROPOSED CASING PROGRAM APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST

AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
<u>50</u>	<u>7"</u>	<u>19 LB.</u>	<u>TO SURF</u>	<u>50'</u>	<u>7"</u>	<u>19 lb</u>	<u>To surface</u>
<u>300'</u>	<u>4 1/2"</u>	<u>10.5 LB.</u>	<u>TO SURF</u>	<u>300'</u>	<u>4 1/2"</u>	<u>10.5 lb</u>	<u>To surface</u>

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. Blacett PENSE BROS. DRLG. CO., INC. DATE: 7/25/95
By: B. E. Blacett

PERMIT NUMBER: 20591
APPROVAL DATE: 7-25-95
APPROVED BY: Jane Holby Wilson
 DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN
 CONE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO REQUIRED IF RUN
 SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 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: _____

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

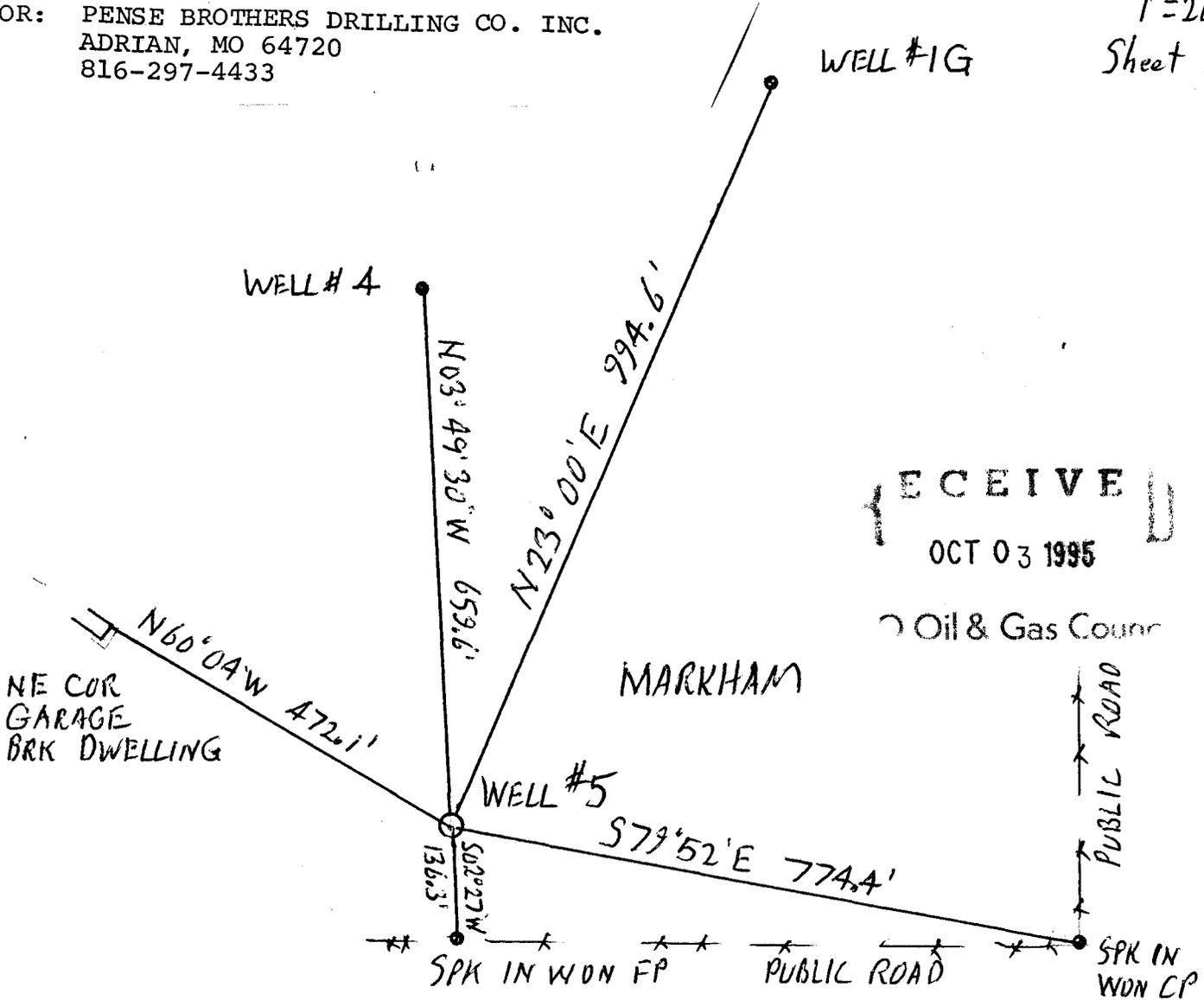
WELL REFERENCE TIES IN THE SOUTHEAST QUARTER
OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP
43 NORTH, RANGE 33 WEST OF THE 5TH PRINCIPAL
MERIDIAN IN CASS COUNTY, MISSOURI.

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

MAG BRG
8° E DECL
9-29-95



1"=200'
Sheet 1 of 2

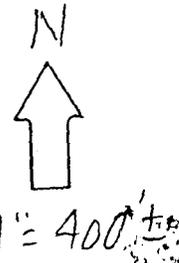


THIS IS TO CERTIFY THE REFERENCE TIES SHOWN ARE
IN ACCORDANCE WITH CURRENT MINIMUM STANDARDS.

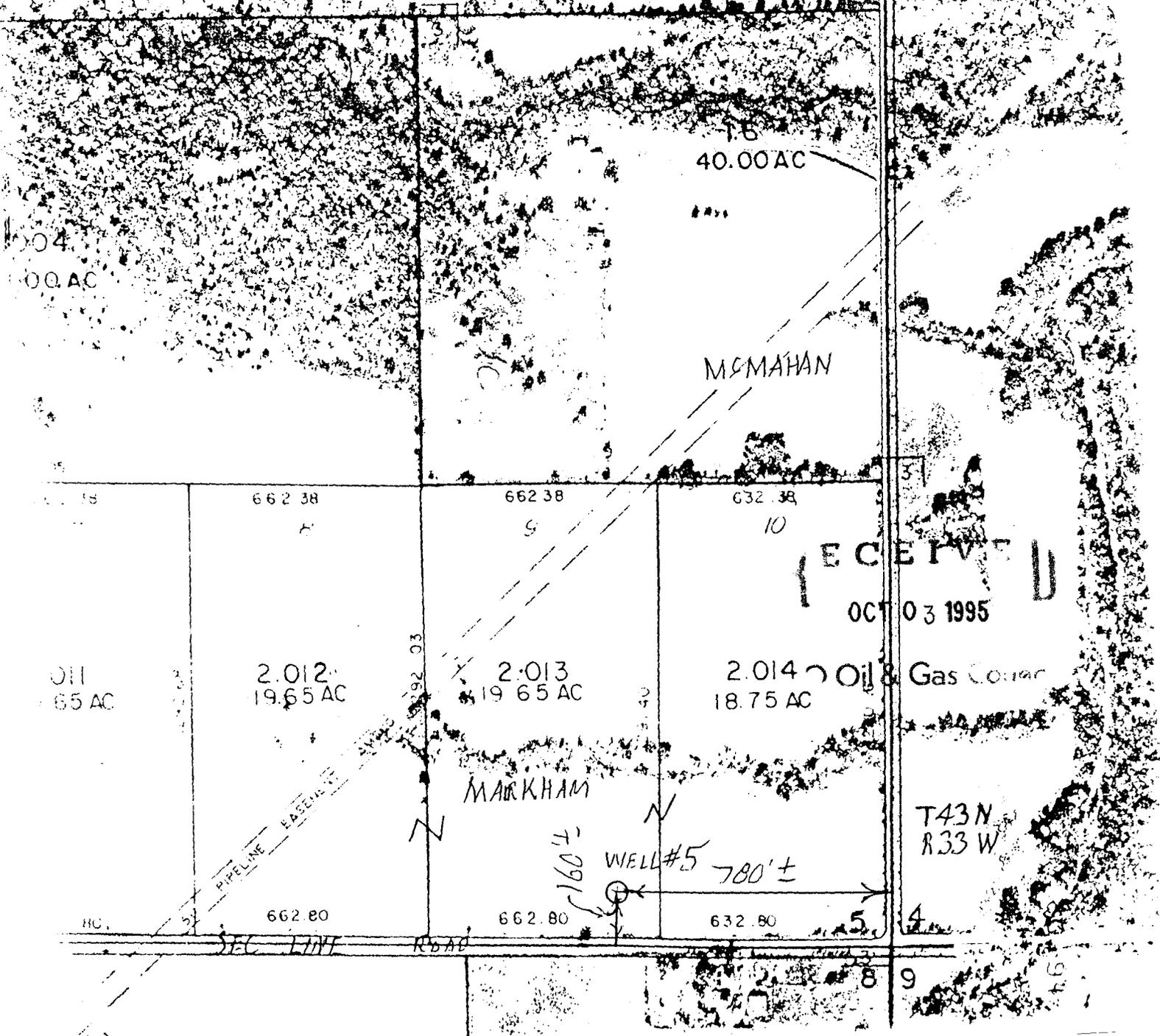
WILLIAM C. LETHCHO LS-1539

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

CO ROAD



William C. Letich
WILLIAM C. LETICH LS-1539



RECEIVED
OCT 03 1995

Oil & Gas Contract

T43N
R33W

WELL #5 780'±

160'±

SEC LINE ROAD