Permit #: 20034

Date Issued: 10-13-89

County: Bates

Date Cancelled:

CONFIDENTIAL UNTIL:

Date Plugged: 7-31-91

OGC FORMS	Date Received
1	
2	
3	10-13-89
3i	
4	10-13-89
4i	
5	8-14-91
6	8-14-91
7	8-14-91
8	8-14-91
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	G-log		8-14-91
Samples	chip		
	core	x1	8-14-91
Analyses	water		
	core		8-14-91

Additional Submitted Data:

COMMENTS:

converted to water well

FORM OGC-3

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED OCT 13 1989 MO Oil & Gas Council Economic Geology

☒ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☒ FOR AN OIL WELL ☐ OR GAS WELL

NAME OF COMPANY OR OPERATOR		DATE
Pense Brothers Drilling Co., Inc., a Missouri corporation		9/29/89
ADDRESS: 800 Newberry Street, P. O. Box 551	CITY: Fredericktown	STATE: MO / ZIP CODE: 63645

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE	WELL NUMBER	ELEVATION (GROUND)
James E. Ferguson, et ux	Ferguson No. 1	985'

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE): 660 FT. FROM (N)(S) SECTION LINE 1320 FEET FROM (E) (W) SECTION LINE

WELL LOCATION	SECTION	TOWNSHIP	RANGE	COUNTY
C W. L. SE/4 SE/4	2	41 N	32 W	Bates

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 603' 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
790'	Pense Brothers Drilling Co., Inc.	Rotary (Air)	10/23/89 or on permit

NUMBER OF ACRES IN LEASE

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

ADDRESS

NO. OF WELLS: PRODUCING N/A; INJECTION N/A; INACTIVE N/A; ABANDONED N/A

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.
90'	7"	17 lbs.	to surf.	✓	✓	✓	✓
T.D. to surf	4 1/2"	7.75 lbs.	to surf.	✓	✓	✓	✓

I, the undersigned, state that I am the 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 Clifford L. Pense — Clifford L. Pense

DATE 9/29/89

PERMIT NUMBER 20034

APPROVAL DATE 10-13-89

APPROVED BY James Holly Williams

☑ 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.

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

MO 780 0211 (2-88)

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

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

WELL LOCATION PLAT

FORM OGC-4

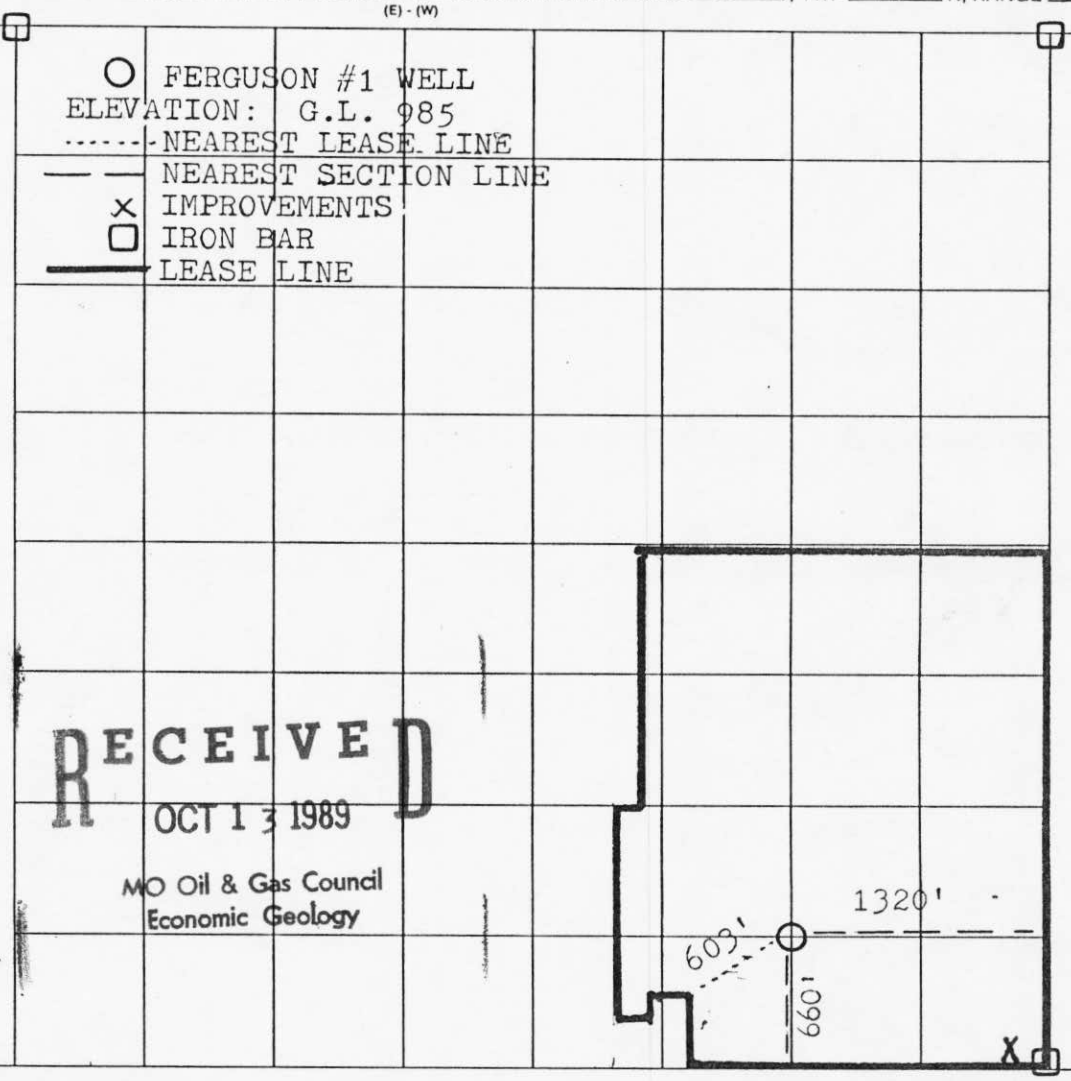
OWNER: PENSE BROTHERS DRILLING CO. INC.

LEASE NAME: JAMES E. FERGUSON AND VIRGINA L. FERGUSON

COUNTY: BATES

660 FEET FROM S (N) - (S) SECTION LINE AND 1320 FEET FROM E (E) - (W) SECTION LINE OF SEC. 2, TWP 41 N, RANGE 32

SCALE
1" = 1000'



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OCT 13 1989
MO Oil & Gas Council
Economic Geology

REMARKS

PERMIT APPLICATION FOR FERGUSON #1 WELL. BUILDINGS AND IMPROVEMENTS ON ABOVE DESCRIBED LEASE AT APPROXIMATE LOCATION INDICATED. THERE ARE NO PRODUCING WELLS OR ABANDONED WELLS ON THE LEASE AT THIS TIME. WELL SITE IS ON GRASS LAND.

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

(SEAL)

REMIT TWO (2) COPIES TO:
MISSOURI OIL AND GAS COUNCIL
P.O. BOX 250, ROLLA, MO 65401

REGISTERED LAND SURVEYOR: WILLIAM C. LETHCHO
BATES COUNTY SURVEYOR

NUMBER: LS-1539

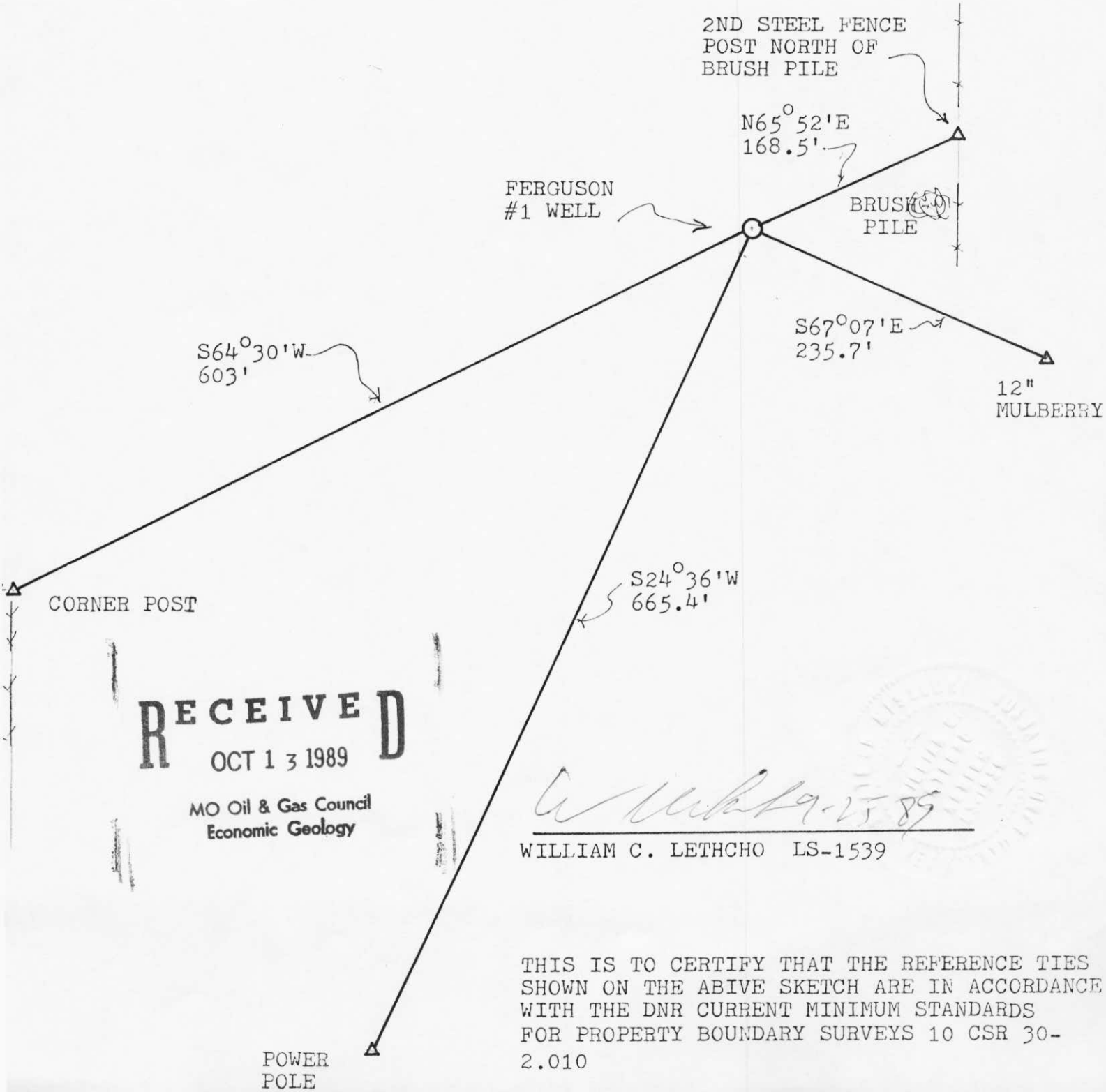
MO 780-0213 (10-87)

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

N

1"=100'

SEPTEMBER 25, 1989
FERGUSON WELL #1 REFERENCE TIES
SOUTH LINE OF 2-41-32 ASSUMED EAST-WEST



RECEIVED
OCT 13 1989
MO Oil & Gas Council
Economic Geology

W. C. Lethcho 9-25-89

WILLIAM C. LETHCHO LS-1539

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

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: JAMES E FERGUSON, ET UX	WELL NUMBER: #1
LOCATION: C. W.L. SE/4 SE/4	SEC. TWP. AND RANGE OR BLOCK AND SURVEY: 2-41N-32W
COUNTY: BATES	PERMIT NUMBER (OGC-3 ~~OR OGC-3I~~): 20034

DATE SPUDDED	DATE TOTAL DEPTH REACHED	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKR, RT, OR Gr.) FEET	ELEVATION OF CASING HD. FLANGE FEET
7/05/90	7/07/90	7/19/90	985	986

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
455'	N/A

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
253' THRU 257'	0' TO 455' DRILLING FLUID USED WATER	N/A

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

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST)	DATE FILED
GAMMA-NEUTRON & CORE	7/30/91

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 LBS.	93' 02"	15	NIL
PRODUCTION	6 1/4"	4 1/2"	9 1/2 LBS.	322'	45	NIL

TUBING RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE
N/A IN.	FEET	FEET	INCH

LINER RECORD

TOP	BOTTOM	SACKS CEMENT	SCREEN
FEET	FEET		FEET

PERFORATION RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL
2	3 1/8" DENSI JET-X	253' THRU 257'

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
100 GAL 15% HCL	253' THRU 257'
2000 LBS SAND	253' THRU 257'

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.
NIL	SWABBING 4 1/2" Csg.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY API (CORR.)
7/20/90	10		NIL bbls.	NIL MCF	50 bbls.	NIL

TUBING PRESSURE	CASING PRESSURE	CAL'TED RATE OF PRODUCTION PER 24 HOURS	OIL	GAS	WATER	GAS OIL RATIO
N/A	NIL	SWAB	NIL bbls.	NIL MCF	180 bbls.	N/A.

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

METHOD OF DISPOSAL OF MUD PIT CONTENTS: AIR DRILLED - CUTTINGS ONLY IN PIT - OVERFILL AT COMPLETION

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.

RECEIVED AUG 14 1991 MO Oil & Gas Council

DATE	SIGNATURE
7/30/91	B E Blancett B.E. BLANCETT - ASS'T. V.P.

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

INSTRUCTIONS: ATTACH DRILLERS LOG OR OTHER ACCEPTABLE LOG OF WELL.

* SHOW ALL IMPORTANT ZONES OF POROSITY, DETAIL OF ALL CORES, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * ABOVE)
PENNYSLVANIAN	0'	455'	*SEE LITHOLOGY LOG ATTACHED.

FERGUSON NO. 1 WELL - PERMIT NO. 20034
C WL SE/4 SE/4 SEC. 2, 41N-32W, Bates CO. MO.
ELEVATION: 985' (TOPO) PENSE BROS. DRG. CO., INC.

PREPARED BY BEB
DATE 7/05/90

0 - 2 TOPSOIL, BROWN - SANDY CLAY LOAM
2 - 5 CLAY, REDDISH-BROWN WITH LIMESTONE STRIATION NEAR BASE
5 - 10 SANDSTONE, PINKISH-RED WITH PINKISH LIMESTONE AT BASE
10 - 25 LIMESTONE, DENSE, GREY, SHALY
25 - 40 SHALE, DENSE, CALCITIC, LIGHT GREY
40 - 50 LIMESTONE, TAN TO LIGHT BROWN, DENSE
50 - 220 SHALE, SOME SLIGHTLY CALCITIC OR BITUMINOUS, GREY TO BLUE-GREY
220 - 225 SILTSTONE, SHALY WITH SHALY SANDSTONE STRIATIONS, SOME MICA & CALCITE.
225 - 232 SHALE & SILTSTONE, DENSE, LIGHT GREY
232 - 250 SANDSTONE, CALCITIC, SLIGHT AMOUNTS GLAUCONITE & CLEAR QUARTZ, ANGULAR TO SUBROUNDED, WHITE TO BUFF
250 - 254 SANDSTONE, ANGULAR TO SUBROUNDED, SLIGHT OIL STAINING AND FLUORESCENCE, TAN TO BUFF
(CORED 254 TO 274 - 254 TO 262 FINE GRAINED SANDSTONE)
262 - 272 SHALE, DENSE, IMBEDDED LIMESTONE NODULES, LIGHT GREY
272 - 285 LIMESTONE, DENSE, TRACE OOLITES AT BASE, WHITE TO BUFF
285 - 305 SHALE, DENSE, GREY TO DARK GREY
305 - 310 LIMESTONE, DENSE, TAN TO BUFF
310 - 315 SHALE, SILTY, DENSE, LIGHT GREY
315 - 320 SANDSTONE, FINE GRAINED, ANGULAR TO SUBROUNDED, TAN
320 - 330 SHALE, DENSE, DARK GREY TO GREY
330 - 350 LIMESTONE, SLIGHT POROSITY, WHITE TO TAN & BUFF
350 - 355 SHALE, DENSE, BLACK TO DARK GREY
355 - 365 LIMESTONE WITH OCCASIONAL SANDSTONE STRIATION, TAN TO Light Brown
365 - 400 SHALE, SILTY, GREY TO LIGHT GREY
400 - 415 SILTSTONE, DENSE, SHALY, GREY

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Oil & Gas Council

FERGUSON NO. 1 WELL, CONT'D.

PREPARED BY BEB
DATE 7/15/90

415-425 SANDSTONE, FINE GRAINED, SILTY, ANGULAR TO SUB-ROUNDED, CALCITIC, GREY TO WHITE

425-450 SHALE, SILTY TO SANDY, GREY TO LIGHT GREY

450-455 LIMESTONE, DENSE, WHITE TO BUFF

TD 455'

RECEIVED
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MO Oil & Gas Council

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

FORM OGC-6

NOTICE OF INTENTION TO ABANDON WELL

NAME OF LEASE	DATE
JAMES E. FERGUSON, ET. UX.	7/30/91

WELL NUMBER	LOCATION
#1	660 FEET FROM (S) SECTION LINE AND 1320 FEET FROM (E) SECTION LINE OF

SECTION	TOWNSHIP	RANGE	COUNTY
2	41N	32W	BATES

THE ELEVATION OF THE GROUND AT WELL SITE IS	PERMIT NUMBER (OGC-3 OR OGC-3I NUMBER)
985 FEET ABOVE SEA LEVEL.	20034

NAME OF CONTRACTOR OR COMPANY THAT WILL DO WORK IS:

COMPANY TOOLS - PENSE BROTHERS DRILLING CO., INC.

ADDRESS	CITY	STATE	ZIP CODE
P.O. BOX 551	FREDERICKTOWN	MO	63645

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

93'02" 7" - 19LB. SURFACE CASING - CEMENTED TO SURFACE (LEFT IN)
322' 4½" - 9½ LB. PRODUCTION CASING - " " " " "
PERFORATED 253' THRU 257' (9 HOLES) OR 2 HOLES PER FOOT.
WATER ONLY - NO GAS OR OIL PRODUCTION.
GAMMA RAY - NEUTRON LOG + CORE, ACIDIZED + SAND FRAC.
LANDOWNER DESIRES WELL FOR WATER PURPOSES AND AS PRESENTLY COMPLETED.
3' SQUARE CONCRETE APRON AT SURFACE AROUND CASING,
4½" TO 2" SWEDGE WITH 2" BALL VALVE.
SAMPLES NOT REQUIRED BY PERMIT BUT COMPANY HAS 5' CONTINUOUS SAMPLES FROM SURFACE TO TOTAL DEPTH OF 455'
CORE FROM 254 THRU 261' TO BE DELIVERED TO STATE DEPARTMENT NATURAL RESOURCES.

RECEIVED
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MO Oil & Gas Council

CERTIFICATE: I, the undersigned, state that I am the ASS'T. V.P. of the PENSE BROS. DRG. 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	DATE
B E Blancett B. E. BLANCETT, ASS'T. V. P.	7/30/91

MO 780-0214 (10-87) **REMIT TWO COPIES TO:** MISSOURI OIL AND GAS COUNCIL, P.O. BOX 250, ROLLA MO 65401

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

FORM OGC-7

PLUGGING RECORD

OWNER	ADDRESS
PENSE BROTHERS DRILLING CO., INC.	BOX 551, FREDERICKTOWN, MO 63645

NAME OF LEASE	WELL NUMBER	PERMIT NUMBER (OGC-3 ~~OR OGC-31 NUMBER~~)
JAMES E. FERGUSON, ET UX	#1	20034

LOCATION OF WELL	SEC-TWP-RNG OR BLOCK & SURVEY	COUNTY
C WL SE/4 SE/4	SECTION 2-41N-32W	BATES

APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF:	HAS THIS WELL EVER PRODUCED OIL OR GAS?	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBLS/DAY)	GAS (MCF/DAY)	DRY?
ABOVE NAMED OWNER	☐ YES ☒ NO	NIL	NIL	YES

DATE ABANDONED	TOTAL DEPTH	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY)	GAS (MCF/DAY)	WATER (BBLS/DAY)
7/31/91	455'	NIL	NIL	180

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.
HEPLER	WATER	253' THRU 257'	NO PLUGS.
	SLIGHT SHOW OIL + GAS		
	WHEN DRILLING - WATER		
	PRODUCTION ONLY AFTER		
	STIMULATION		

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"	93'02"	NIL	93'02"	CEMENTED TO SURF	N/A
4½"	322'	NIL	322'	CEMENTED TO SURF.	SHOE @ 322

WAS WELL FILLED WITH MUD-LADEN FLUID? NO — OWNER WANTS SAME FOR WATER

INDICATE DEEPEST FORMATION CONTAINING FRESH WATER: PENNYSLVANIAN @ 415'

RECEIVED AUG 14 1991 MO Oil & Gas Council

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

NAME	ADDRESS	DIRECTION FROM THIS WELL
OPERATOR ONLY	BOX 551, FREDERICKTOWN, MO 63645	N/A
LANDOWNER JAMES E. FERGUSON	RT. 2, BOX 267, ADRIAN, MO 64720	1/4 MILE SOUTHEAST

METHOD OF DISPOSAL OF MUD PIT CONTENTS ▶ DRILLED WITH AIR ROTARY - CUTTINGS ONLY IN PIT, OVERFILLED WITH TOPSOIL TO SURFACE LEVEL.

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

CERTIFICATE ▶ I, the undersigned, state that I am the ASS'T. 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, ASS'T. V.P.

DATE: 7/30/91

MO 780-0217 (10-87)

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

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * BELOW)
PENNYSLVANIAN	0'	455'	* SEE LITHOLOGY LOG ATTACHED
			GAMMA RAY-NEUTRON LOG + CORE
			FURNISHED, ALSO CORE ANALYSIS.

NOTE ▶ * Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS ▶ Attach drillers log or other acceptable log of well if available.
This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL CONVERSION AGREEMENT

FORM OGC-8

This agreement is made this 31ST day of JULY, 1991, between PENSE BROTHERS DRILLING CO., INC., of BOX 551, FREDERICKTOWN, MO 63645, owner of the following described well or test hole, hereinafter called "operator," and JAMES E. FERGUSON of RT. 2, BOX 267, ADRIAN, MO 64720, owner of surface rights to the land on which the following described well or test hole is situated, hereinafter called "landowner."

WHEREAS operator has drilled or has caused to be drilled a test well for oil and gas, or has operated a producing well, which well is known as JAMES E. FERGUSON, ET UX #1 and is located C W.L. SE/4 SE/4 SECTION 2, 41N, 32W, PERMIT #20034, BATES County, Missouri;

WHEREAS operator desires to plug and abandon said well or test hole in a manner approved by the Missouri Oil and Gas Council;

WHEREAS landowner desires to employ said well or test hole as a source of potable water for the beneficial use of himself or himself and others;

NOW THEREFORE, it is agreed that operator shall plug the hole in accordance with the rules, regulations and instructions of the Missouri Oil and Gas Council except that no plug shall be set at the surface in said well or test hole nor shall surface pipe be cut off below plow depth, thus facilitating the use of the well or test hole as a water source well.

Landowner hereby acknowledges that the operator will be released by the Missouri Oil and Gas Council from future liability for further plugging which may be required by the Council and accepts full responsibility for the operation of the well or test hole as a water well and for the proper plugging and abandonment thereof when its use for this purpose has ended.

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WITNESS SIGNATURE	DATE	OPERATOR SIGNATURE	DATE
Virginia Ferguson	7/30/91	PENSE BROTHERS DRILLING CO., INC. BY: B E Blanett ASST. V.P.	7/30/91
WITNESS SIGNATURE	DATE	LANDOWNER SIGNATURE	DATE
Virginia Ferguson	7/30/91	James E. Ferguson JAMES E. FERGUSON	7/30/91

MO 780-0218 (10-87) **REMIT TWO COPIES TO:** MISSOURI OIL AND GAS COUNCIL, P.O. BOX 250, ROLLA MO 65401

7/30/91

IN DUPLICATE:

OGC-5
OGC-6
OGC-7
OGC-8
LITHOLOGY LOG 0' THRU 455'

ALSO:

1 GAMMARAY-NEUTRON LOG
1 CORE ANALYSIS REPORT
CORE 254' THRU 261' TO BE DELIVERED AT LATER DATE.

THE ABOVE ENCLOSURES REGARDING THE FERGUSON #1 WELL, PERMIT # 20034, ARE ENCLOSED FOR YOUR EXAMINATION AND APPROVAL AND FOR APPROVAL OF WELL CONVERSION AGREEMENT IN FAVOR OF JAMES E. FERGUSON, THE OWNER OF BOTH THE MINERAL & SURFACE THERETO THE LAND DESCRIBED WITHIN PERMIT # 20034.

THANKS!

Pense Brothers Drilling Co., Inc.
By: B.E. Blancett, Ass't. V.P.

RECEIVED
AUG 14 1991
MO Oil & Gas Council

PENSE BROS.
DRILLING COMPANY, INC.
EXPLORATION DRILLING
P.O. Box 551, 800 Newberry St.
Fredericktown, MO 63645
(314) 783-3347
FAX (314) 783-7954

DIVISION OF GEOLOGY + LAND SURVEY
ATTENTION:
EVAN A. KIFER, CHIEF
UIC/OIL + GAS UNIT

RECEIVED
JUL 17 1995
O Oil & Gas Council

ENCLOSED ARE COPIES OF OGC-8 AND ASSOCIATED FORMS TOGETHER WITH NEUTRON-GAMMA RAY LOG + CORE ANALYSIS.

YOU INDICATED I SHOULD SEND THESE TO YOU + YOU WOULD EXAMINE SAME + PASS ON TO WATER DIVISION.

THE FERGUSON WELL, PERMIT # 20034, IS ON LAND WHICH HAS BEEN PURCHASE BY MR. DANNY HAHN WHO DESIRES TO KEEP THE WELL FOR WATER FOR LIVESTOCK CONSUMPTION - WATER DIVISION SAID NOT TO SEND FEE PRESENTLY - WE ARE PAYING SAME SINCE THE LANDOWNERS DID NOT KNOW FEE NECESSARY.

Pense Brothers Dry Co, Inc.
By: B. E. Blancett
7/14/95

CORE ANALYSIS REPORT

FOR

PENSE BROS. DRLG. CO.

TIGHT-HOLE

MISSOURI

FURGESON #1 # 20034

RECEIVED
JUL 17 1995
O Oil & Gas Council

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom; and for whose exclusive and confidential use; this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories (all errors and omissions excepted); but Core Laboratories and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or formation in connection with which such report is used or relied upon.

Western Atlas International
A Litton/Dresser Company

CORE LABORATORIES

July 10, 1990

Pense Bros. Drilling Co.
P. O. Box 760
Glenpool, Oklahoma 74033

Attn: Jake Pense\Larry Pense

Subject: Core Analysis Data
Tight Hole
Missouri
CA File: 57183-90083

Gentlemen:

Core material obtained from the subject well was submitted to the Core Laboratories facility in Tulsa for the analytical testing described on the following page of this report. This final report presents the following information:

1. Core Analysis Procedures
2. Tabular Core Analysis Results
3. Statistics
4. Core Analysis Crossplots and Histograms
5. Correlation Coregraph

It has been a pleasure to be of service in the completion of this study. If there are any questions, please do not hesitate to contact us at (918) 664-9071.

Sincerely,

Michael C. Hudson

Michael C. Hudson
Laboratory Supervisor

MCH:reh

7304 E. 38th Street, Tulsa, Oklahoma 74145, (918) 664-9071, Fax (918) 665-3032

CORE LABORATORIES

Company : PENSE BROS. DRLG. CO.
Well : TIGHT-HOLE

Field :
Formation :

File No.: CA57183-90083
Date : 10-JUL-1990

ANALYTICAL PROCEDURES AND QUALITY ASSURANCE

HANDLING & CLEANING

Core Transportation	: PENSE BROS. PERSONNEL
Solvent	: TOLUENE
Extraction Equipment	: DEAN STARK SOXHLETS
Extraction Time	: 24 HOURS
Drying Equipment	: CONVECTION OVEN
Drying Time	: 8 HOURS
Drying Temperature	: 250 DEG F

ANALYSIS

Pore volume measured by Boyle's Law in a Hassler holder using He
Grain volume measured by Boyle's Law in a matrix cup using He
Water saturations by Dean Stark
Oil saturations by weight difference in Dean Stark
Permeabilities measured on 1.5 in. diameter drilled plugs
Dean Stark grain densities clean, dry solid mineral phase are measured

REMARKS

WELL SPECIFIED AS TIGHT-HOLE BY LARRY PENSE; THEREFORE, NO HEADING INFORMATION WAS REPORTED.
CORE WILL REMAIN AT CORE LABORATORIES UNTIL FURTHER NOTICE.

CORE LABORATORIES

Company : PENSE BROS. DRLG. CO.
Well : TIGHT-HOLE
Location :
Co,State : MISSOURI

Field :
Formation :
Coring Fluid : AIR\MIST
Elevation :

File No.: CA57183-90083
Date : 10-JUL-1990
API No. :
Analysts: DW

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	PERMEABILITY KLINKENBERG (EQUIV-LIQ) md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME) OIL %	SATURATION (PORE VOLUME) WATER %	GRAIN DENSITY gm/cc	DESCRIPTION
1	254.0- 55.0	234.	224.0	19.2	15.2	61.9	2.70	SST F GRN CALC MIC
2	255.0- 56.0	208.	198.0	23.9	11.6	66.5	2.67	SST F GRN SLILY CALC QTZ-OVTGH MIC
3	256.0- 57.0	637.	623.0	25.9	14.7	64.2	2.67	SST F GRN W-RNDD SLILY CALC MIC
4	257.0- 58.0	695.	682.0	25.7	13.1	66.2	2.67	SST F GRN W-RNDD SLILY CALC MIC
5	258.0- 59.0	757.	741.0	25.3	19.5	57.1	2.67	SST F GRN W-RNDD SLILY CALC MIC
6	259.0- 60.0	485.	474.0	23.8	16.2	62.5	2.68	SST F GRN W-RNDD CALC MIC
7	260.0- 61.0	638.	627.0	26.5	8.8	65.7	2.67	SST F GRN W-RNDD SLILY CALC MIC
8	261.0- 62.0	329.	316.0	22.5	8.1	81.0	2.68	SST F GRN CALC SH LAMS MIC

CORE LABORATORIES

Company : PENSE BROS. DRLG. CO.
Well : TIGHT-HOLE

Field :
Formation :

File No.: CA57183-90083
Date : 10-JUL-1990

TABLE I

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA

ZONE:

Identification --------	UNSPECIFIED
Top Depth ----------	254.0 ft
Bottom Depth ----------	262.0 ft
Number of Samples --------	8

DATA TYPE:

Porosity ----------	(HELIUM)
Permeability -------	(HORIZONTAL) Kair

CUTOFFS:

Porosity (Minimum) -------	0.0 %
Porosity (Maximum) -------	100.0 %
Permeability (Minimum) ---	0.0000 md
Permeability (Maximum) ---	100000. md
Water Saturation (Maximum)	100.0 %
Oil Saturation (Minimum) -	0.0 %
Grain Density (Minimum) --	2.00 gm/cc
Grain Density (Maximum) --	3.00 gm/cc
Lithology Excluded -----	NONE

CHARACTERISTICS REMAINING AFTER CUTOFFS

ZONE:

Number of Samples -----	8
Thickness Represented -	8.0 ft

POROSITY:

Storage Capacity ------	192.8 ϕ-ft
Arithmetic Average ----	24.1 %
Minimum ----------	19.2 %
Maximum ----------	26.5 %
Median ----------	24.6 %
Standard Deviation ----	±2.4 %

GRAIN DENSITY:

Arithmetic Average ----	2.68 gm/cc
Minimum ----------	2.67 gm/cc
Maximum ----------	2.70 gm/cc
Median ----------	2.67 gm/cc
Standard Deviation ----	±0.01 gm/cc

PERMEABILITY:

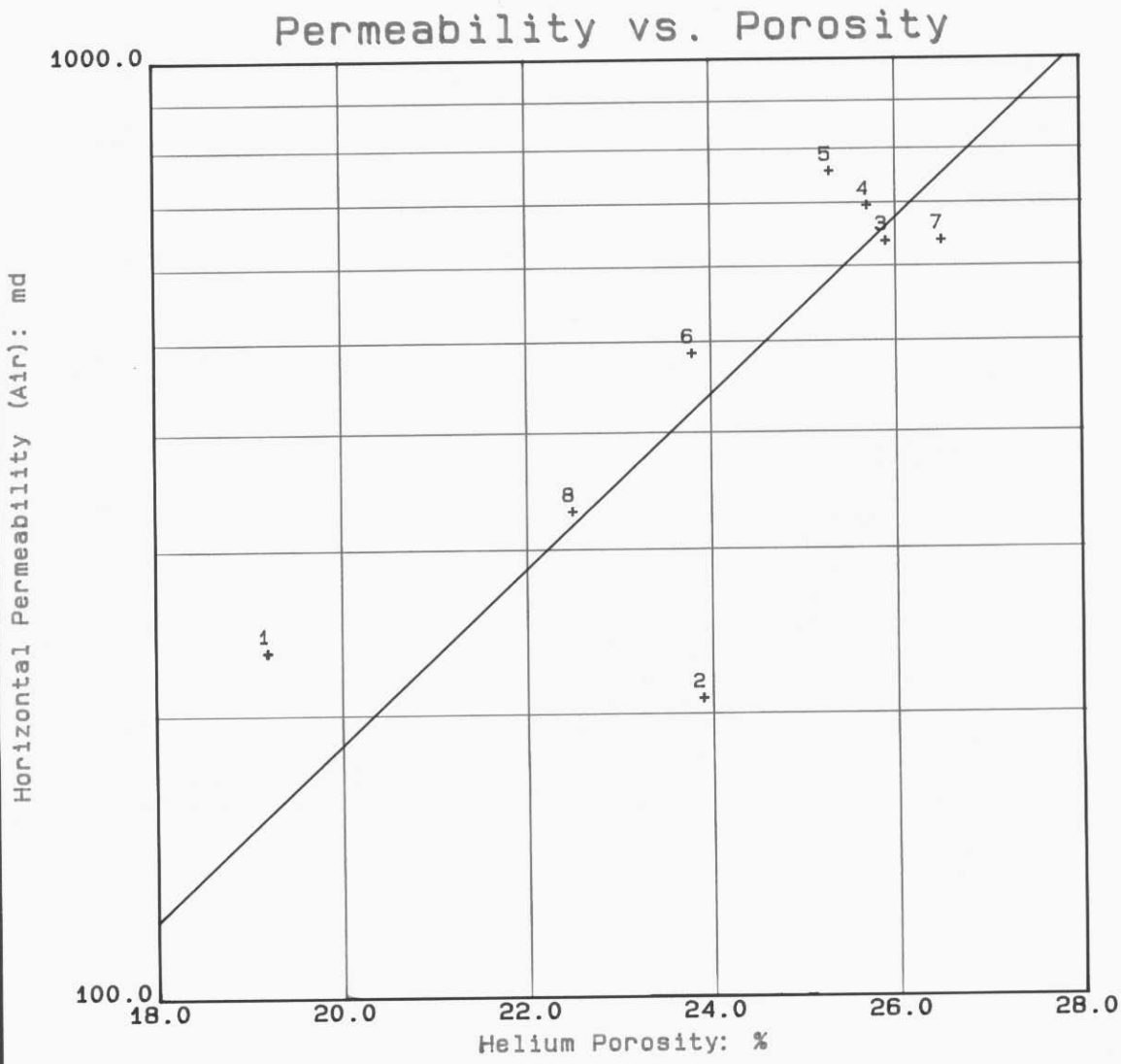
Flow Capacity ---------	3983.0 md-ft
Arithmetic Average ----	498. md
Geometric Average -----	449. md
Harmonic Average ------	398. md
Minimum ----------	208. md
Maximum ----------	757. md
Median ----------	561. md
Standard Dev. (Geom) --	$K \cdot 10^{\pm 0.222}$ md

HETEROGENEITY (Permeability):

Dykstra-Parsons Var. --	0.455
Lorenz Coefficient ----	0.203

AVERAGE SATURATIONS (Pore Volume):

Oil ----------	13.4 %
Water ----------	65.5 %

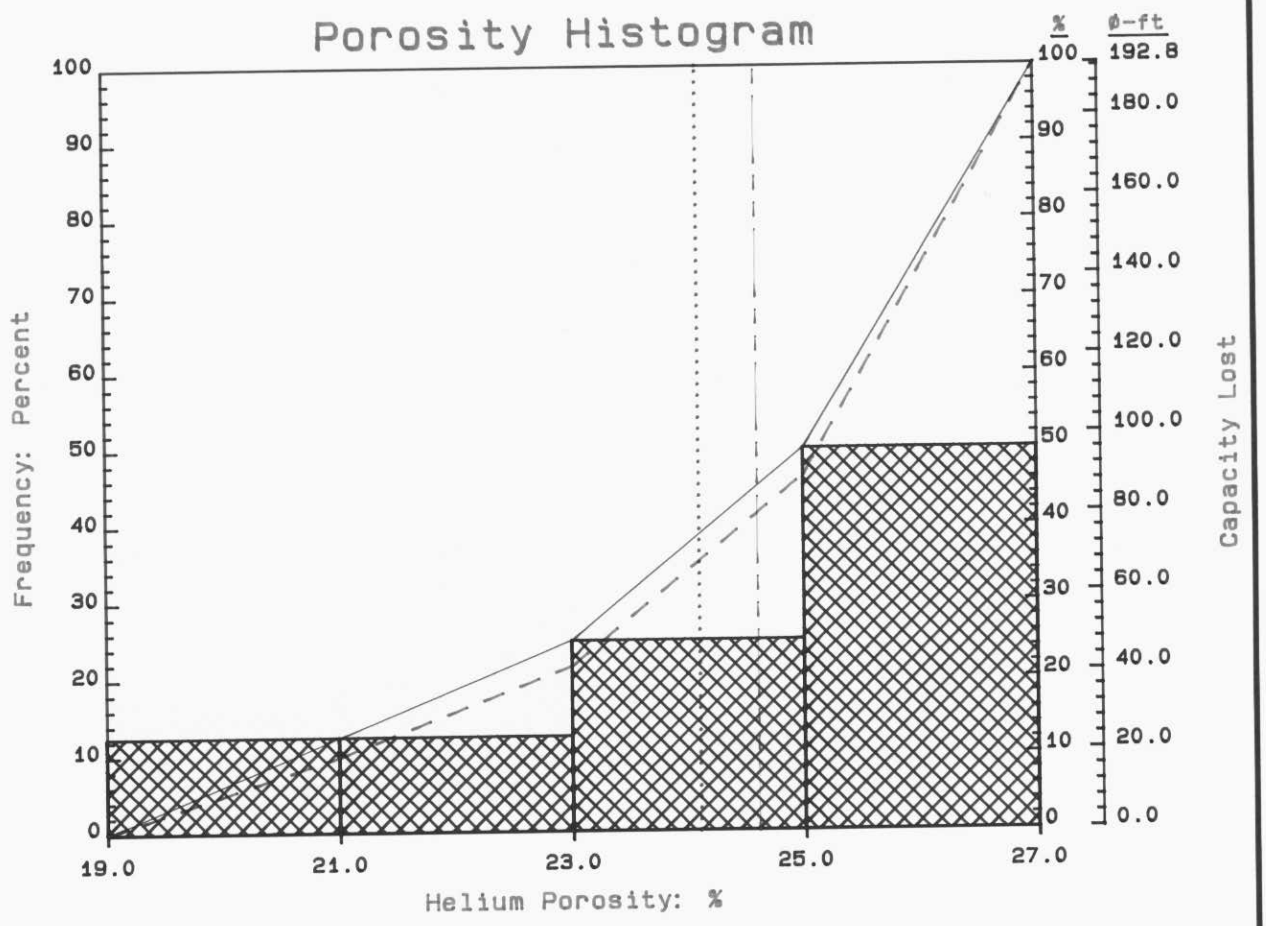


PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -
UNSPECIFIED



PENSE BROS. DRLG. CO.
TIGHT-HOLE

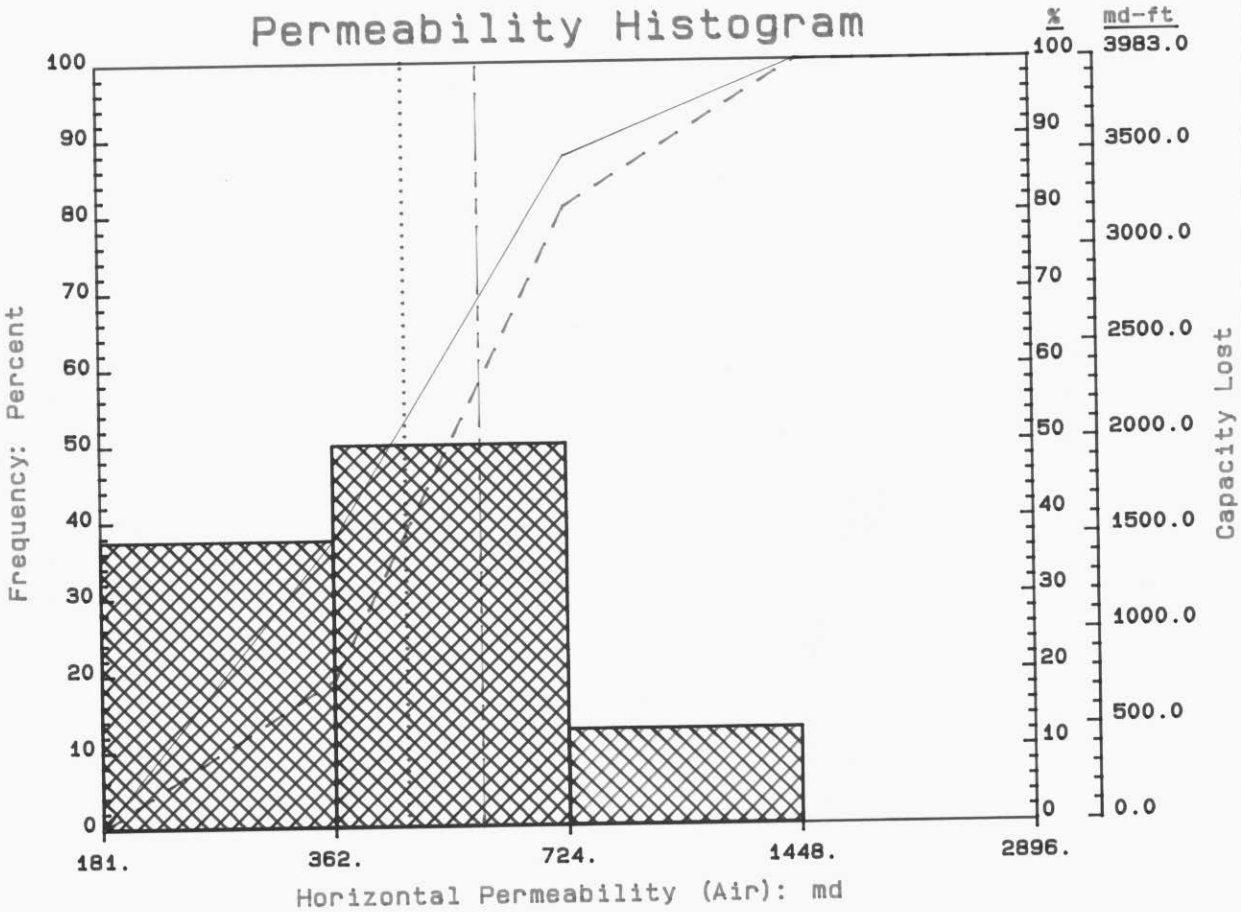
UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -

- Median Value (24.6)
- Arith. Average (24.1)
- Cumulative Frequency
- Cumulative Capacity Lost

8 Samples



PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

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Cumulative Frequency
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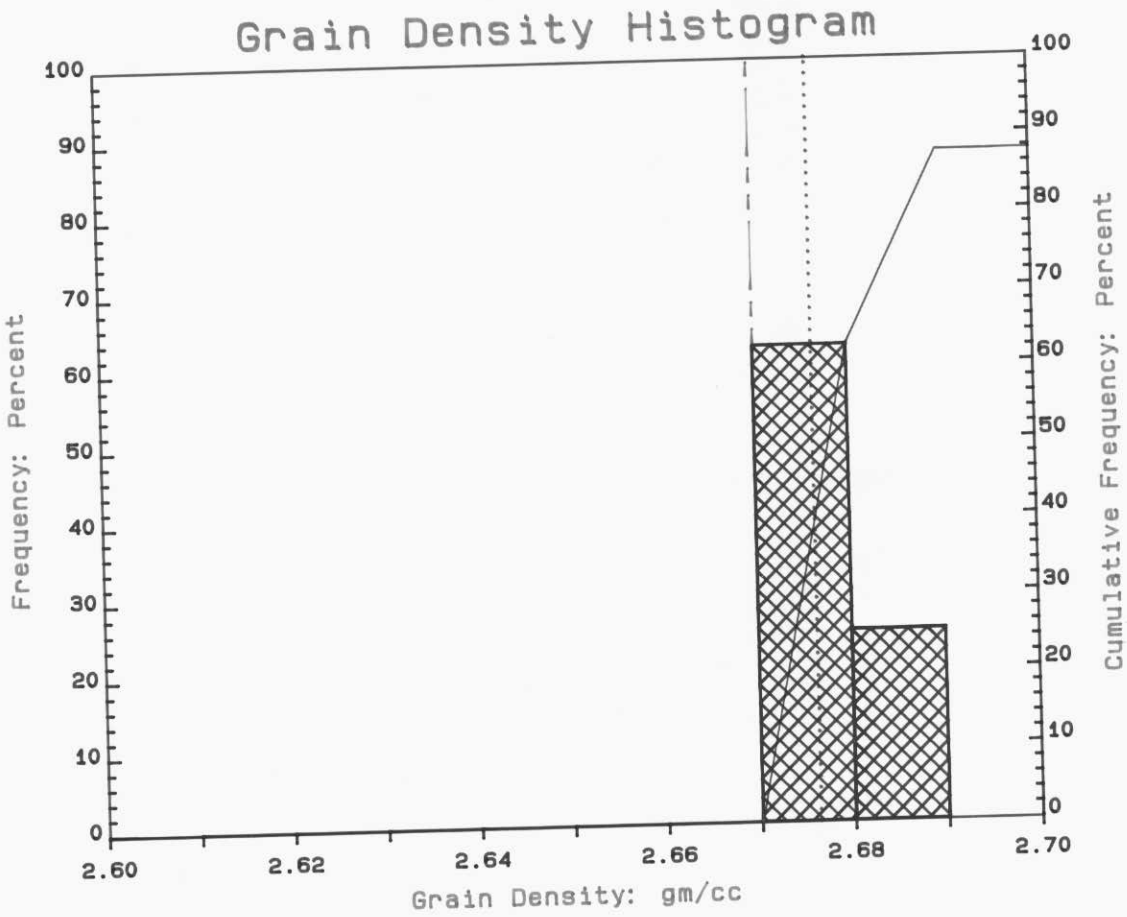
8 Samples



PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -

Median Value (2.67)
Arith. Average (2.68)
Cumulative Frequency

8 Samples

CORRELATION COREGRAPH

PENSE BROS. DRLG. CO.

TIGHT-HOLE

MISSOURI

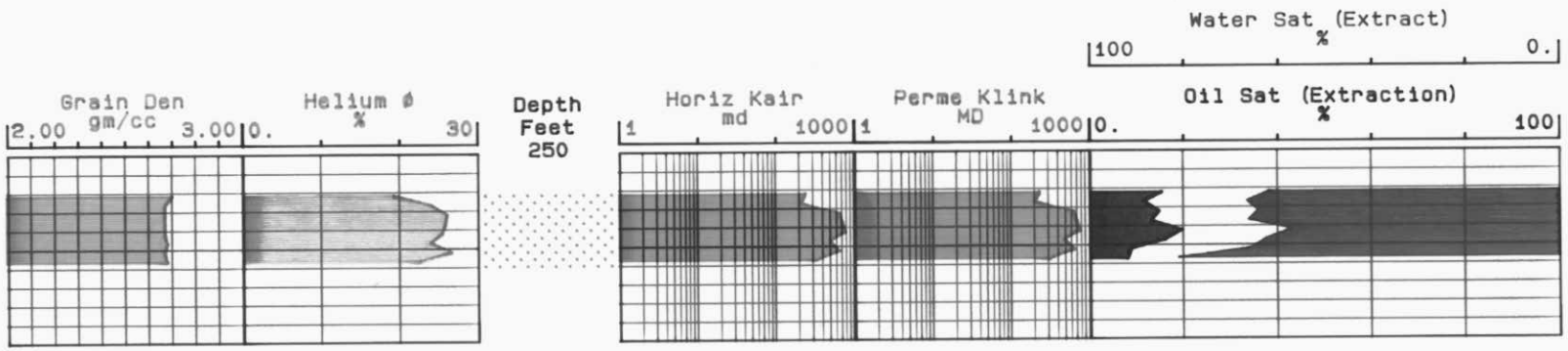
(254-262 FEET)

Core Laboratories 7-Jul-1990

Vertical Scale
5.00 in = 100.0 ft

- Lithology Legend -

Sandstone



CORE ANALYSIS REPORT

FOR

PENSE BROS. DRLG. CO.

TIGHT-HOLE FERGUSON #1

MISSOURI PERMIT 20034

Western Atlas International
A Litton/Dresser Company

CORE LABORATORIES

RECEIVED
AUG 14 1991
MO Oil & Gas Council

Western Atlas International
A Litton/Dresser Company

CORE LABORATORIES

July 10, 1990

Pense Bros. Drilling Co.
P. O. Box 760
Glenpool, Oklahoma 74033

Attn: Jake Pense\Larry Pense

Subject: Core Analysis Data
Tight Hole
Missouri
CA File: 57183-90083

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Field :
Formation :

File No.: CA57183-90083
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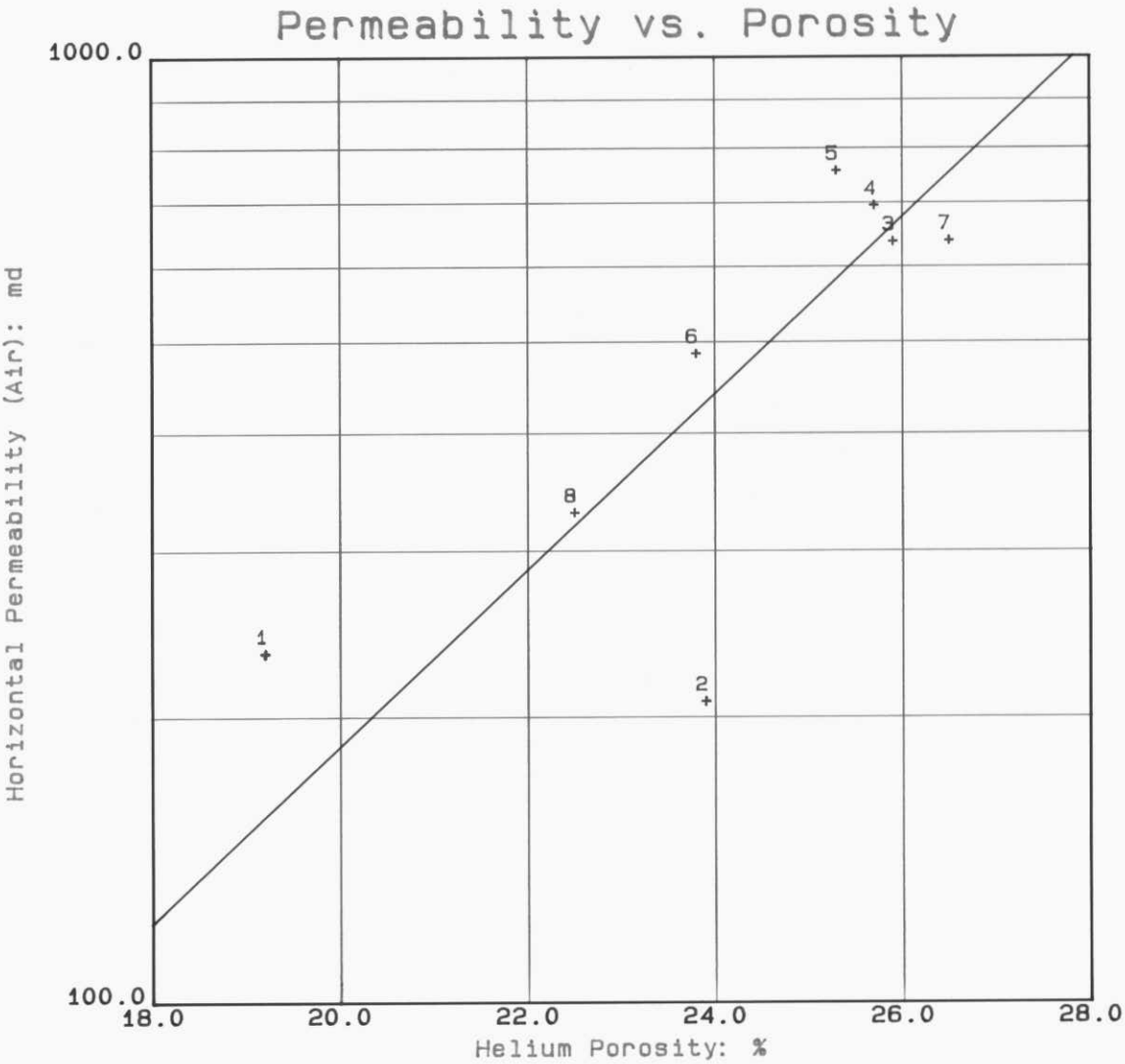
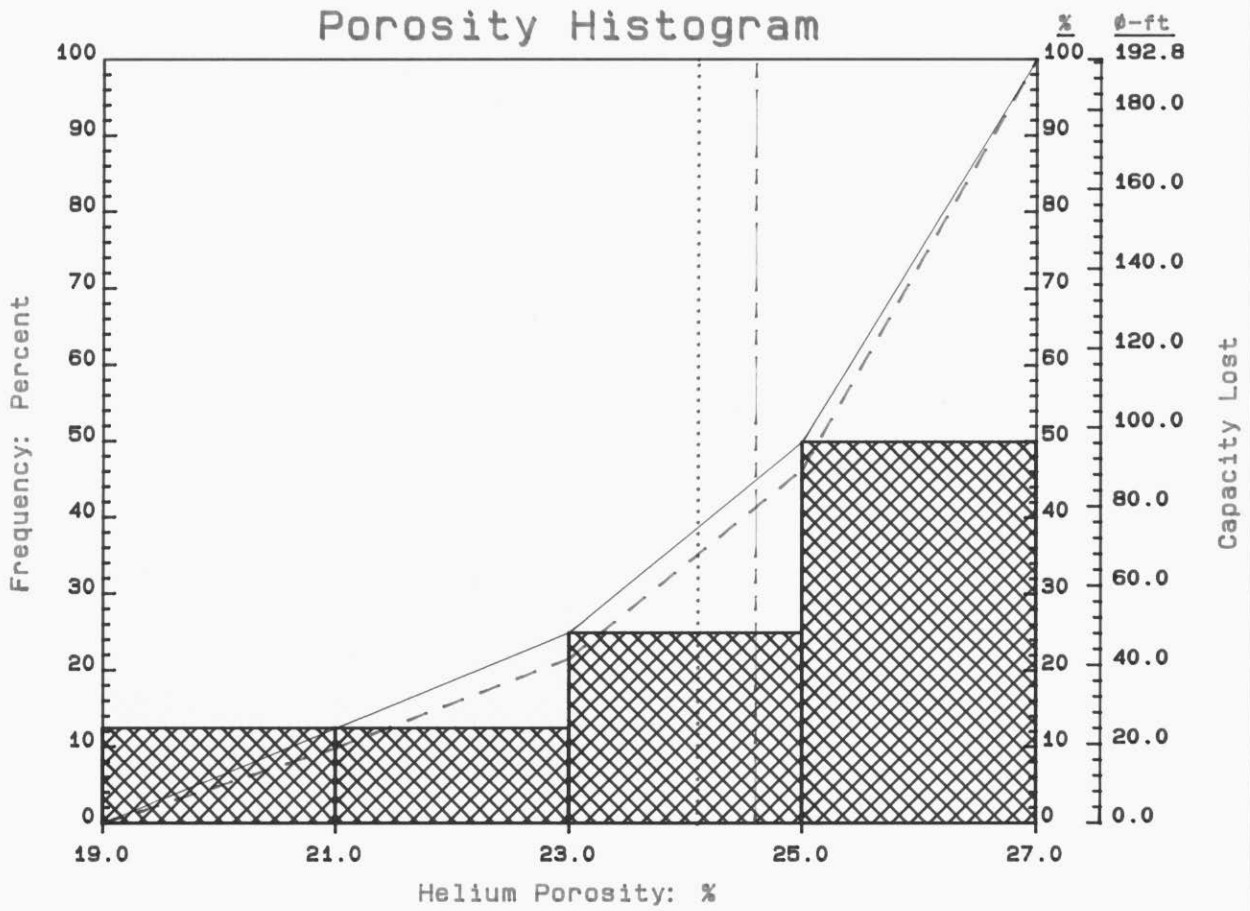


PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -
UNSPECIFIED



PENSE BROS. DRLG. CO.
TIGHT-HOLE

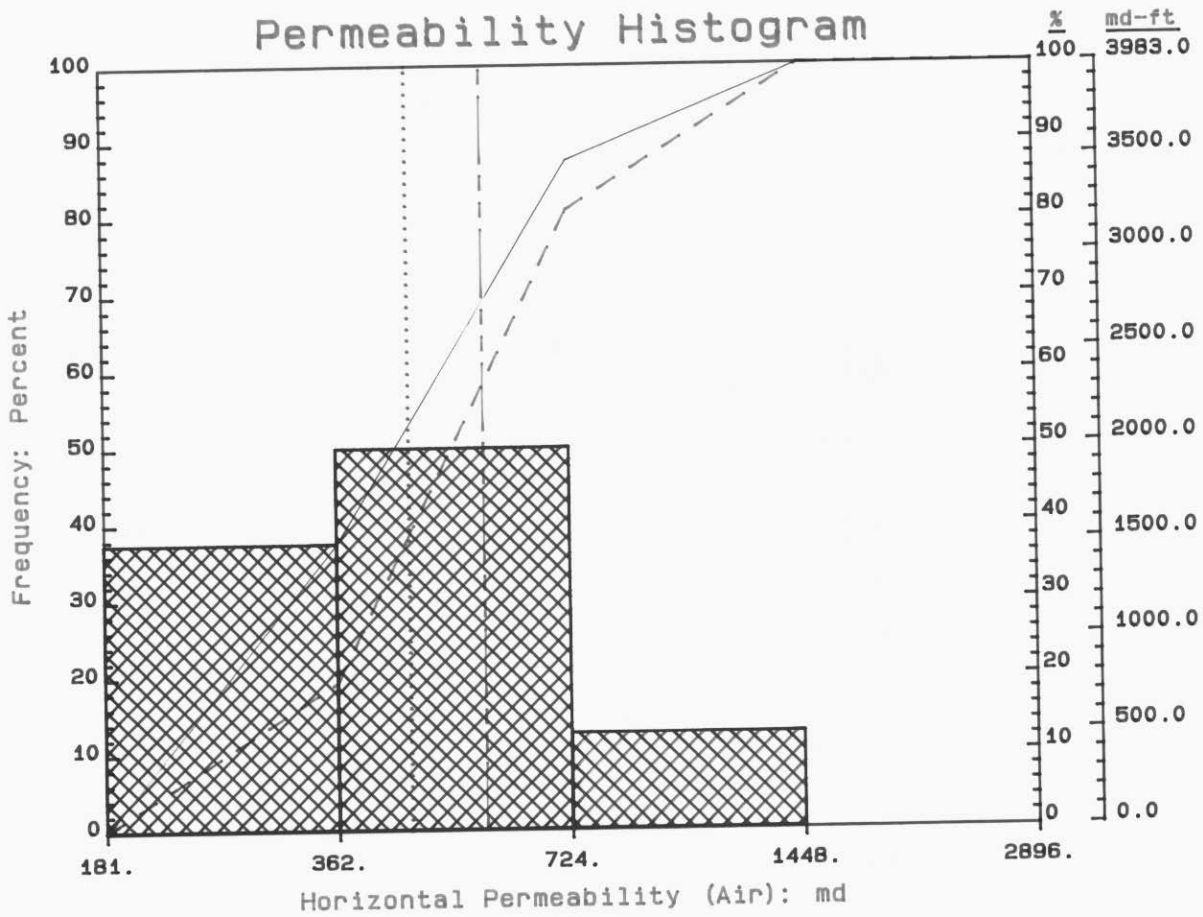
UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -

- Median Value (24.6)
- Arith. Average (24.1)
- Cumulative Frequency
- Cumulative Capacity Lost

8 Samples



PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

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- Geom. Average (449.)
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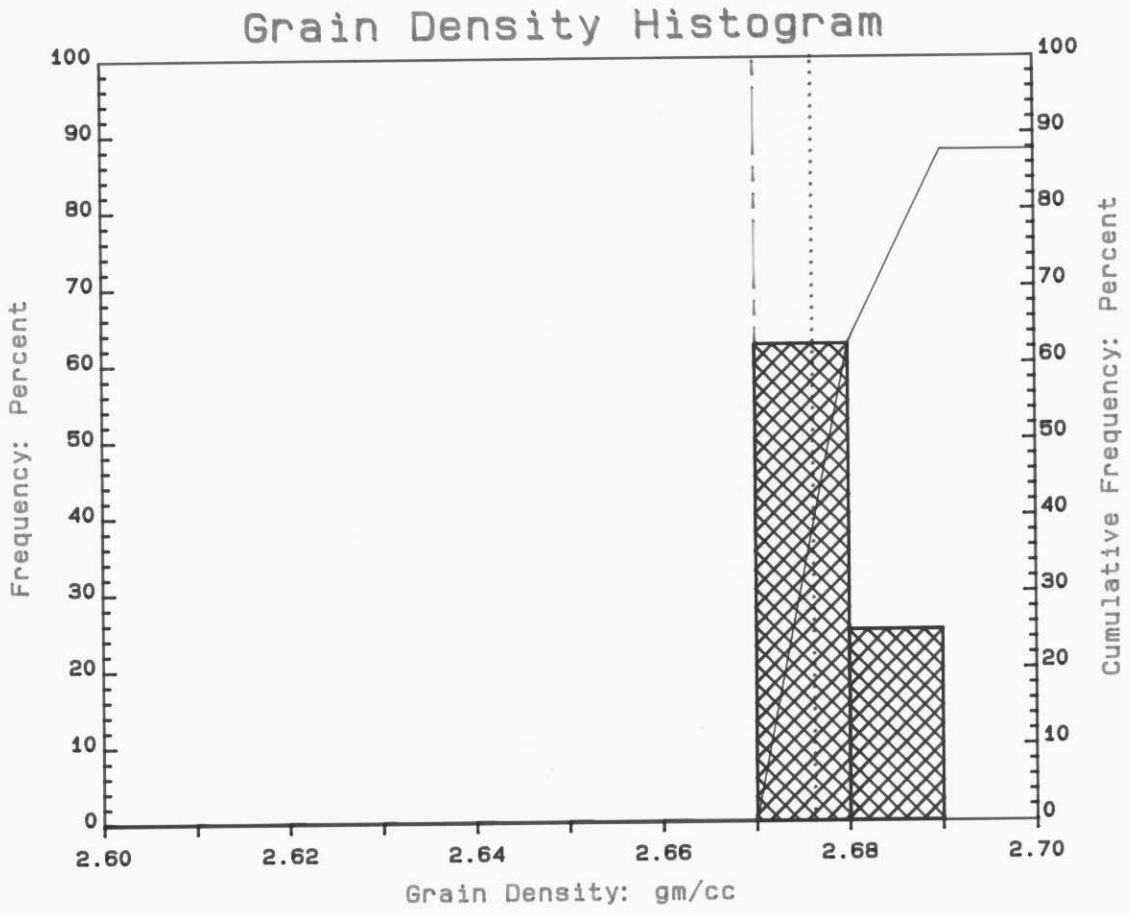
8 Samples



PENSE BROS. DRLG. CO.
TIGHT-HOLE

UNSPECIFIED (254-262 feet)

Core Laboratories 7-Jul-1990

- LEGEND -

——— - Median Value (2.67)
..... Arith. Average (2.68)
——— Cumulative Frequency

8 Samples

CORRELATION COREGRAPH

PENSE BROS. DRLG. CO.

TIGHT-HOLE

MISSOURI

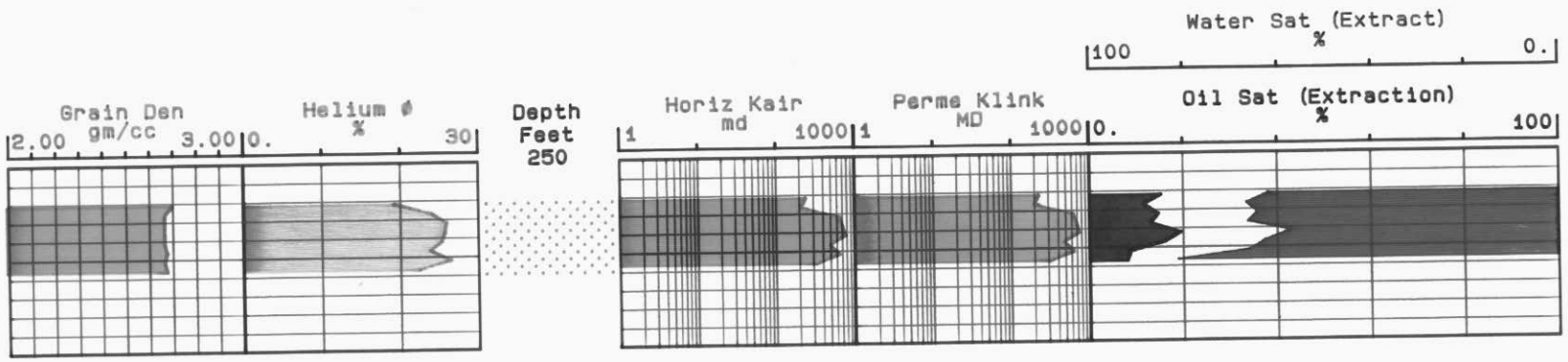
(254-262 FEET)

Core Laboratories 7-Jul-1990

Vertical Scale
5.00 in = 100.0 ft

- Lithology Legend -

Sandstone



MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND LAND SURVEY

WATER WELL RECORD AND PUMP INFORMATION RECORD

(PLEASE PRINT CLEARLY)

DO NOT FILL IN	
REF. NO. 98737	DATE RECEIVED RECEIVED JAN 16 1996
CROSS REFERENCE NO.	CHECK NO. 46
STATE WELL NUMBER	TRANSMITTAL NO. 888750
CHECKED BY SA	ROUTE 28 Jump
APPROVED BY / DATE APPROVED	ENTERED Ph1 ✓ Ph2 ✓ Ph3

OWNER
NAME: DANNY LEE HAHN [RE. FERGUSON #1, PERMIT #20034]
TELEPHONE NO.: (816) 297-2747
ADDRESS: RR #2, Box 243
CITY: ADRIAN
STATE: MO
ZIP CODE: 64720

OWNER STATUS
☐ BUILDING CONTRACTOR ☐ DEVELOPER ☐ BUILDER
☒ PRIVATE HOME OWNER ☐ OTHER (SPECIFY)
EXISTING WELL CERTIFICATION NUMBER:

DRILLING CONTRACTOR
NAME: PENSE BROTHERS DRILLING CO. INC.
PUMP CONTRACTOR NAME:

DRILLING EQUIPMENT
☐ MUD ROTARY ☐ REVERSE ROTARY ☒ AIR ROTARY
☐ CABLE TOOL ☐ AUGER (TYPE) ☐ OTHER (SPECIFY)
DATE COMPLETED: 7/30/91

CASING DETAILS
LENGTH: 93'02" DIAM. (IN.): 7" WEIGHT OR SDR NO.: 19LBS DIAM. OF DRILL HOLE: 8 5/8"
MATERIAL: ☒ STEEL ☐ PLASTIC ☐ OTHER (SPECIFY)
DRIVE SHOE? ☐ YES ☐ NO
JOINTS: ☒ THREADED ☐ WELDED ☐ GLUED

PACKER INFORMATION
USED ON CASING? PACKER DEPTH (FT.)
USED ON LINER? ☐ YES ☐ NO PACKER DEPTH (FT.)

CASING GROUTING DETAILS
TYPE OF SEAL: ☒ FULL LENGTH ☐ TOP ☐ BOTTOM
MATERIAL USED: ☒ NEAT CEMENT ☐ BENTONITE ☐ CUTTINGS ☐ TYPE OTHER
DEPTH OF SEAL: TOP SURF. BOTTOM TO FULL LENGTH ✓
SACKS OF CEMENT OR BENTONITE USED: TOP ____ BOTTOM ____ FULL LENGTH 15
DRILLING SUSPENDED 72 HRS. AFTER GROUTING? ☐ YES ☒ NO 10 HRS.

LINER DETAILS
LENGTH: 322' DIAM. (IN.): 4 1/2" WEIGHT OR SDR NO.: 9 1/2 LBS.
DEPTH FROM LAND SURFACE: 321'06"
JOINTS: ☒ THREADED ☐ WELDED ☐ GLUED
MATERIAL: ☒ STEEL ☐ PLASTIC ☐ OTHER (SPECIFY)

LINER GROUTING DETAILS
TYPE OF SEAL: ☒ FULL LENGTH ☐ TOP ☐ BOTTOM
MATERIAL USED: ☒ NEAT CEMENT ☐ BENTONITE ☐ OTHER
DEPTH OF SEAL: TOP ____ BOTTOM ____ FULL LENGTH ✓
SACKS OF CEMENT OR BENTONITE: TOP ____ BOTTOM ____ FULL LENGTH 45

SCREEN DETAILS
MAKE OR TYPE / LENGTH OPEN TO AQUIFER (FT) / SLOT SIZE / DIAM. (IN.) / THICKNESS OF GRAVEL PACK
GRAVEL SIZE ____ (IN.) FROM (FT.) ____ TO (FT.) ____

YIELD TEST
☒ BAILED SWAB ☐ PUMPED ☐ COMPRESSED AIR
HOURS: 24 YIELD (GPM): 22

WATER LEVEL
MEASURE FROM LAND SURFACE STATIC (FT.): 115'
DRAW DOWN OR PUMPING LEVEL: DURING YIELD TEST 70 FT. AFTER 24 HOURS

ABANDONED WELL
IS THERE AN ABANDONED WELL? ☐ YES ☐ NO
WAS IT PROPERLY SEALED? ☐ YES ☐ NO
WELL DISINFECTED AFTER DRILLING? ☐ YES ☐ NO
TYPE OF TOP CASING SEAL: ☐ PITLESS ADAPTER ☐ WELL SEAL ☐ OTHER

COMPLETION DATA
PUMP CAPACITY: ____ GPM ____ HP ____ STAGES AT SETTING ____ FT.
MAKE OF PUMP ____
TYPE OF DROP PIPE: ☐ PLASTIC ☐ GALVANIZED
WELL DISINFECTED AFTER SETTING PUMP? ☐ YES ☐ NO
PUMP SET BY: ☐ PUMP INSTALLER ☐ OWNER ☐ DRILLER
NOT TO BE INSTALLED UNTIL ____

DEPTH FROM LAND SURFACE FEET	TO FEET	FORMATION DESCRIPTION	DIAMETER OF DRILL HOLE
0'	322'	PENNSYLVANIAN	SURF. 8 5/8" BAL. HOLE: 6 1/4"

LOCATION OF WELL
SHOW LOCATION IN SECTION PLAT
AREA NO. 12
COUNTY BATES
SURFACE ELEVATION 986
C WL SE¼ SE¼ SEC. 2
TWN 41 N, RNG 32 ~~E OR~~ W
TOTAL DEPTH OF WELL 322'

SKETCH EXACT LOCATION OF WELL WITH DISTANCES TO AT LEAST TWO PERMANENT LANDMARKS. ALSO SHOW ABANDONED WELL. FOR MONITORING WELLS, LANDMARKS ARE TEMPORARY AND PERMANENT BENCHMARKS.

SEE SURVEY ATTACHED

IF YIELD WAS TESTED AT DIFFERENT DEPTHS DURING DRILLING, LIST BELOW.

FEET	GALLONS PER MINUTE

NOTES, MILEAGE AND DIRECTION FROM NEAREST TOWN OR HIGHWAY

SEE SURVEY ATTACHED

I HEREBY CERTIFY THAT THE WELL HEREIN DESCRIBED WAS CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS FOR THE CONSTRUCTION OF WATER SUPPLY WELLS AND/OR MONITORING WELLS.

SIGNATURE (WELL DRILLER): PENSE BROS DRLG CO INC By: B O Blancett, V.P.
DATE: 1/10/96
PERMIT NO. (WELL DRILLER): 001901
SIGNATURE (PUMP INSTALLER)
DATE
PERMIT NO. (PUMP INSTALLER)

INFORMATION TO BE SUPPLIED BY OWNER

PROPOSED USE OF WELL
☒ DOMESTIC (1 TO 3 CONNECTIONS) ☐ MULTIPLE FAMILY
☐ PUBLIC WATER SUPPLY ☐ NON-COMMUNITY
☐ HEAT PUMP ☐ IRRIGATION
☐ OTHER (SPECIFY) ____ ☐ MONITORING

SIGNATURE (WELL OWNER): Danny Lee Hahn DATE: 1-10-96

FOR MONITORING WELLS ONLY
WELL POINT NUMBER: W01 APR 5 1996
WASTE MANAGEMENT IEPA ID-NO.
MEAN SEA LEVEL ELEVATION OF WELL
SITE TYPE ☐ RCRA ☐ SUPERFUND ☐ LANDFILL ☐ OTHER

MO 780-0230 (9-90)

DISTRIBUTION: WHITE/DRILLER CANARY/DIVISION PINK/WELL OWNER
MAIL CANARY COPY TO: WELL DRILLER'S FUND, P.O. BOX 250, ROLLA, MO 65401.
ENCLOSE $35 WATER WELL CERTIFICATION FEE WITHIN 60 DAYS AFTER WELL COMPLETION.