



RECEIVED

MAY 07 1998

INJECTION WELL PERMIT APPLICATION
(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

MAY 07 1998

MO Oil & Gas Council

NOTE ▶ Permit approval for drilling only, not injection. Approval or denial of injection shall be the responsibility of the Mechanical Integrity Test results reviewed and official notification given.

APPLICATION TO DRILL DEEPEN PLUG BACK CONVERSION

NAME OF COMPANY OR OPERATOR: Pense Bros Drilling Co Inc DATE: _____

ADDRESS: 800 Newberry St CITY: Fredricktown STATE: MO ZIP CODE: 63645

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: McMahon WELL NUMBER: 2-W ELEVATION (GROUND): 950

WELL LOCATION: 1640 FT. FROM (N) (S) SEC. LINE 860 FT. FROM (E) (W) SEC. LINE

WELL LOCATION: SECTION 5 TOWNSHIP 43N RANGE 33W COUNTY Cass

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 450 FEET
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED -- FOR WELL ON THE SAME LEASE: 200 FEET

PROPOSED DEPTH: 300 ROTARY OR CABLE TOOLS: Rotary DRILLING CONTRACTOR, NAME AND ADDRESS: Town Oil Co. 16205 W. 287, Paola, KS. 66071 APPROX. DATE WORK WILL START: 9-5-97

NUMBER OF ACRES IN LEASE: 40 NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 6
NUMBER OF ABANDONED WELLS ON LEASE: 1

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NO. OF WELLS: PRODUCING 5
NAME: _____ INJECTION 1
ADDRESS: _____ INACTIVE _____
ABANDONED _____

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/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED.)

PROPOSED CASING PROGRAM				APPROVED CASING — TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	AMT. OF CEM.	AMOUNT	SIZE	WT/FT	AMT. OF CEM.
20'	6 1/4	14#	3				
300	2 7/8	6.5#	40				

I, the undersigned, state that I am the Partner of the Town Oil Co. (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: Lulu Town DATE: 9-5-97

PERMIT NUMBER: 20654 DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN

APPROVED DATE: 5/14/98 CORE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO. REQUIRED IF RUN

APPROVED BY: James Holly Williams SAMPLES REQUIRED SAMPLES NOT REQUIRED

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 _____

PROPOSED OPERATIONS DATA

PROPOSED AVERAGE DAILY INJECTION,	PRESSURE <u>200</u> PSIG, RATE <u>25</u> BPD/GPM, VOLUME _____ BBL/GAL
APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE <u>200</u> PSIG, RATE <u>25</u> BPD/GPM, VOLUME _____ BBL/GAL
PROPOSED MAXIMUM DAILY INJECTION,	PRESSURE <u>350</u> PSIG, RATE <u>50</u> BPD/GPM, VOLUME _____ BBL/GAL
APPROVED MAXIMUM DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE <u>350</u> PSIG, RATE <u>25</u> BPD/GPM, VOLUME _____ BBL/GAL

ESTIMATED FRACTURE PRESSURE/GRADIENT OF INJECTION ZONE _____ PSI/FOOT

DESCRIBE THE SOURCE OF THE INJECTION FLUID _____

NOTE ► SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET)

DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTED FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDING TOTAL DISSOLVED SOLIDS COMPARISONS

GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL

GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION WHICH PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION.



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 Bros. Drilling Co., Inc.		ADDRESS 800 Newberry St. Fredericktown, Mo. 63645			
LEASE NAME McMahon		WELL NUMBER 2-W			
LOCATION SE/4 SE/4 1640' FSL 860' FEL			SEC. TWP. AND RANGE OR BLOCK AND SURVEY 5-T43N-R33W		
COUNTY Cass	PERMIT NUMBER (OGC-3 OR OGC-31) 20654				
DATE SPUDDED 8-22-97	DATE TOTAL DEPTH REACHED 8-26-97	DATE COMPLETED READY TO PRODUCE OR INJECT 8-26-97	ELEVATION (DF, RKR, RT, OR Gr.) FEET 950	ELEVATION OF CASING HD. FLANGE FEET	
TOTAL DEPTH 301	PLUG BACK TOTAL DEPTH				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION 250-264			ROTARY TOOLS USED (INTERVAL) 0 TO 301		CABLE TOOLS USED (INTERVAL)
WAS THIS WELL DIRECTIONALLY DRILLED? No	WAS DIRECTIONAL SURVEY MADE?	WAS COPY OF DIRECTIONAL SURVEY FILED?		DATE FILED	
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) Gamma Ray-Neutron enclosed					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
Surface	9 3/4	6 1/4"	14	50'	7	0
Completion	5 5/8	2 7/8	6.5	299.5	42	0

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
No	IN.	FEET	FEET	INCH	FEET	FEET	FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	2 1/8 alum jets	250-264	55 bbls gelled water 5 sx sand	250-264

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP.)					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST		WATER PRODUCED DURING TEST	OIL GRAVITY
			bbls.	MCF		bbls.	API (CORR.)
TUBING PRESSURE	CASING PRESSURE	CAL'ED RATE OF PRODUCTION PER 24 HOURS		OIL	GAS	WATER	GAS OIL RATIO
				bbls.	MCF	bbls.	

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

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METHOD OF DISPOSAL OF MUD PIT CONTENTS
Hauled off and covered with dirt

DEC 14 1998

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE _____ OF THE _____ 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.

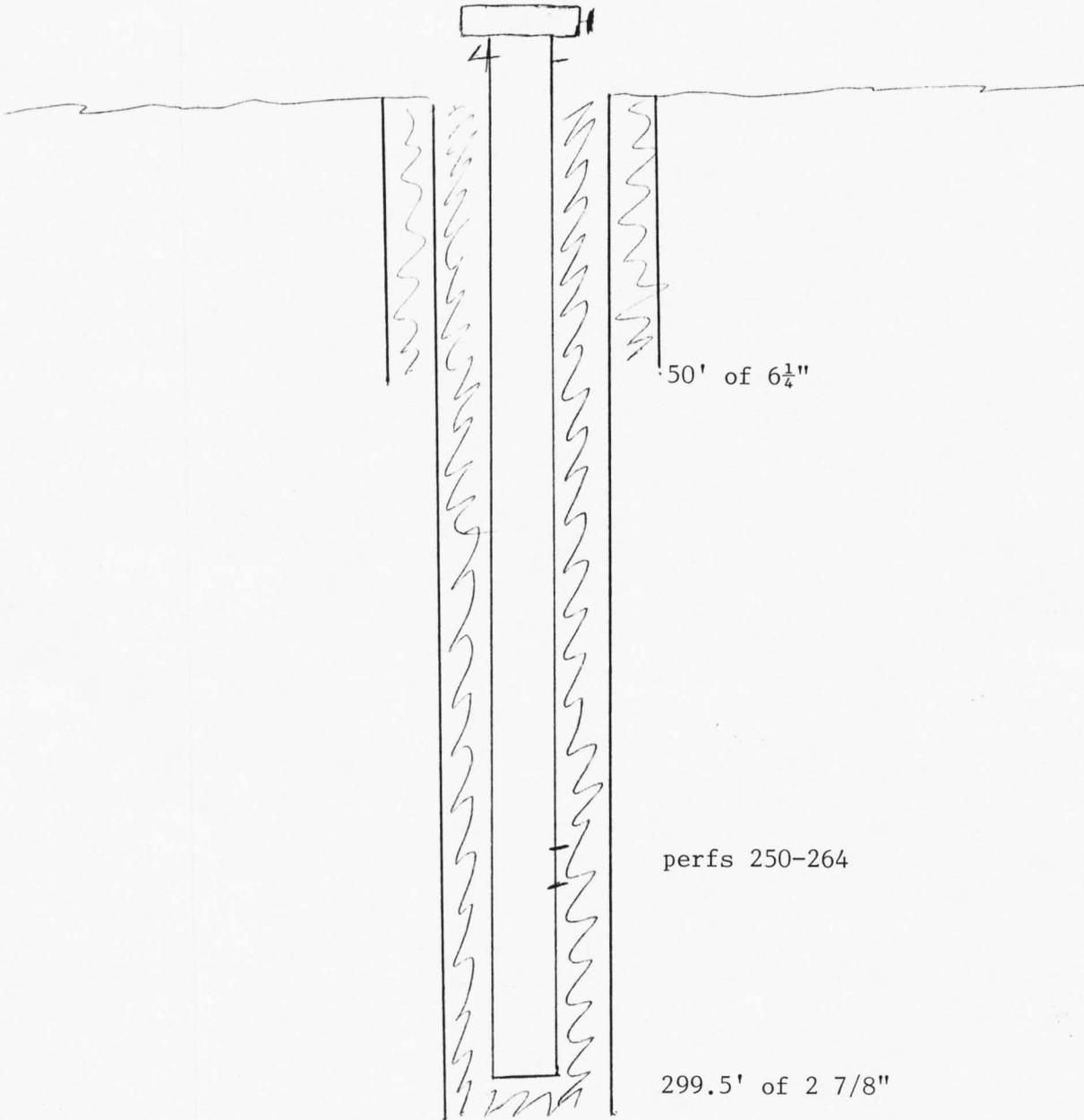
DATE: 12-4-98 SIGNATURE: Lester Town by djs

DEC 14 1998



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
INJECTION WELL SCHEMATIC

COUNTY Cass	PERMIT NUMBER	OPERATOR Pense Bros Drilling Co.	WELL NUMBER McMahon 2-W
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MO Oil & Gas Council

INSTRUCTIONS ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCLUDING THE FOLLOWING: CONFIGURATION OF WELL HEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET

Well #2-W
 Farm: McMahon
 Cass County, Ks.
 Lease Owner: Pense Bros Drilling Co., Inc

WELL LOG

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total Depth</u>
3	Soil	3
2	Lime	5
8	Clay	13
8	Shale	21
28	Lime	49
12	Shale & slate	61
19	Lime	80
7	Shale & slate	87
1	Lime	88
2	Shale	90
6	Lime	96 Hertha
6	Shale with lime shells	102
21	Shale	123
8	Gray sand	131
77	Shale	208
4	Hard gray sand	212
28	Shale	240
1	Slate	241
2	Light shale	243
1	Brown sand	244
1	Limey sand	245
3	Limey sand	248
1	Limey dry sand	249
4.5	Broken sand	253.5
5.5	Limey sand	259
6	Sandy lime	265
5	Sandy shale	270
19	Shale	299
2	Lime	302 TD

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MO Oil & Gas Council

MECHANICAL INTEGRITY TEST REPORT

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DEC 11 2007

Test Date: 14 Nov 2007

Operator: Town Oil Company, Inc.
Contact Person: Lester Town
Address: 16205 West 287th St. Paola, Kansas 66071
Phone: 913-294-2125

Mo Oil & Gas Council

Lease McMahon Well # 2-W
County CASS Permit # 20654

TEST INFORMATION:

Type MIT: Pressure Radioactive Tracer Survey Temperature Survey

	Run #1	Run #2	Run #3
Start Time:	<u>8:30</u>		
End Time:	<u>9:30</u>		

Length of Test: 60min
(Start Time minus End Time)

Initial Pressure (PSI): 70[#]
Ending Pressure (PSI): 70[#]

Pressure Change: 0
(Initial Pressure minus Ending Pressure)

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test: 87' to fluid 250-87 = 163' x .43 = 70.9#

Perf 250'-264' TD 291'

The bottom of the tested zone is shut in with Cement at a depth of 291' ft. In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the date shown at the top of this page.

Signed: Stirling P. Hornbuckle EO R
Operator Contact Person or Title
Approved Agent

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory Not Satisfactory
State Agent: Jeff JAQUES Witnessed: Yes No

REMARKS: Computer Update FILE WITH PERMIT!

MECHANICAL INTEGRITY TEST REPORT

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NOV 15 2002

MO Oil & Gas Council

Test Date: 8 Nov 2002

Operator: Town Oil Company, Inc.
Contact Person: Lester Town
Address: 16205 W. 287th St. Paola, Kansas 66071
Phone: 913-294-2125

Lease McMAHON Well # 2W
County CASS Permit # 20635 20654

TEST INFORMATION:

Type MIT: Pressure Radioactive Tracer Survey Temperature Survey

	Run #1	Run #2	Run #3
Start Time:	<u>0840</u>		
End Time:	<u>0915</u>		

Length of Test: 35 min
(Start Time minus End Time)

Initial Pressure (PSI): 127 #
Ending Pressure (PSI): 127 #

Pressure Change: 0
(Initial Pressure minus Ending Pressure)

Fluid used for test (water, nitrogen, CO2, ect.): Air

Comments about test: Perforations: 250-264 TD: 291

Full of fluid + 20# of Back Pressure
250 ft of Fluid x 1.43 = 107 + 20# Back Pressure = 127 #

The bottom of the tested zone is shut in with cement
at a depth of 291 ft. In signing the form below, it is certified
that the above indicated well was tested for mechanical integrity on the
date shown at the top of this page.

Signed: Stirling P. Hamblin EOR
Operator Contact Person or Title
Approved Agent

DO NOT WRITE BELOW THIS LINE

Results were: Satisfactory Not Satisfactory
State Agent: WJ Witnessed: Yes No

REMARKS: _____
Computer Update FILE WITH PERMIT!

CONSOLIDATED INDUSTRIAL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 316-431-9210 or 800-467-8676

TICKET NUMBER 4643

LOCATION Ottawa

FOREMAN A. Mader

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
8-29-97	7823	McMahon #2 W					Cass Mo.	
CHARGE TO <u>Town Oil</u>				OWNER				
MAILING ADDRESS <u>16205 W 287 St.</u>				OPERATOR				
CITY <u>Paola</u>				CONTRACTOR <u>Town</u>				
STATE <u>Ks</u>		ZIP CODE <u>66071</u>		DISTANCE TO LOCATION <u>45</u>				
TIME ARRIVED ON LOCATION <u>12:00</u>				TIME LEFT LOCATION <u>2:00</u>				

WELL DATA	
HOLE SIZE	<u>5 5/8</u>
TOTAL DEPTH	<u>305</u>
CASING SIZE	<u>2 7/8</u>
CASING DEPTH	<u>299'</u>
CASING WEIGHT	<u>pin at 293</u>
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

	PRESSURE LIMITATIONS	
	THEORITICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

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MO Oil & Gas Council

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Established circulation with clean water. Mixed + pumped 15x gel followed by app 5bbl clean water. Mixed + pumped 42sx 50/50 poz 2% gel. Circulated cement to surface. Pumped 2 1/2 rubber plug to pin at 293'. Well held 600# pressure for 30 min MIT. Closed valve.



Alan Mader

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE x PRESSURE x 40.8	

AUTHORIZATION TO PROCEED

TITLE

DATE

037-20654

BISS each of you,
eter and Freda Shipley 13-11c
Drexel,

Thank you for sponsoring the first
all tri-county carnival show. Your
help was appreciated. We got enough
by that we may have it again next

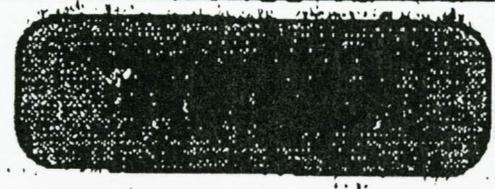
We'd also like to thank the
le that came to see our pieces,
our teacher, Shirley Williams
family. If you didn't come this
please come next year.

gited,
ck Thomas and Shelby Musick
13-11c

RENT
bedroom apartment in Drexel.
and refrigerator. No Pets. Non-
fer. \$300 rent and \$300.00 de-
Water and trash paid. 657-
15-11c

RENT
Home parking spaces,
State Street, Drexel. Call 816-
171. 9-11c

AL CANDY route. 30 vending
ines. Earn apx. \$800/day. All
995. Call 1-800-998-VBND.
BLISHED 1978. *Oil busi-
We make the best candy oil in
.S. & for your family eat.
re commercial/retail accounts.
um cash investment \$19,500.
397-6645.



NOTICE
Drexel Scouts 242 will hold first
pack meeting, Monday, September
22, 6:30 p.m., Drexel Methodist
Church basement. Ages 11 - 4th
Grades. 657-2481. **JOIN NOW!**

PUBLIC NOTICE
Pange Bros. has applied for oil-
water disposal/injection wells to
be drilled to an approximate depth
of 300 feet, at the following loca-
tions: Markham #4, SE SE SE;
McMahon #1W, SW, NE, SE;
McMahon #2W, SW NE SE;
McMahon #3W, SE NE SE;
Honsinger #1W, SW SE NE; Hon-
singer #2W, SW SE NE all in
Section 5, Township 43N, Range
33W in Cass County, Missouri.
Written comments or request for
additional information regarding
such wells should be directed
within fifteen (15) of this notice to
State Geologist
Missouri Oil & Gas Council
P.O. Box 250
Rolla, MO 65401

WANTED low band portable radio
with or without charger. K.B. Hat-
ten, 816-657-2102.

**OWN FOR THE PRICE OF
RENTING!** Build your home NOW,
without the downpayment banks de-
mand. Complete construction & per-
manent financing if qualified. De-
George Home Alliance, 1-800-343-
2884.

MORTGAGE LENDING.
Refinance. 1st, 2nds, all types of
credit. Professional Lending Serv-
ices Inc., Columbia, Mo. 1-800-530-

Saturday, September 20th and
Sunday September 21st, 8 a.m. - 7
4th & Main, Drexel, Mo. across from
Drexel School. Women's suits,
women's casual wear, children's
clothing, infant wear, misc., house-
hold items, bike, carpet etc. Rain
cancels until September 27. 13-11c

*Appeared in the
Sept 18, 1997 issue
of The Drexel
Star*
**First perfect score
of year takes Power
Points prize**

With upsets striking with alarming
regularity, it was beginning to look
like we'd never see a perfect score in
the Missouri POWER POINTS
Football Contest.

But all that came to an end during
Week 3.

Steve Crites of Brighton, Mo.
tallied the year's first perfect score of
136 points to take home state honors
and the accompanying \$1,000 cash
prize in the contest.

Crites entered the contest through
the Bolivar Herald-Free Press
newspaper.

Local winners were: Adrian John
Gross 121 points; Drexel - David
Duncan 106 points.

867 2032 or 383 1111
**Cinema 6 of
Harrisonville**
In the MM-Walk Mall
2727 Cahill Road
*All Shows Seen Before 8:00
P.M. Are \$3.50 All Seats*
Sept. 19-Sept. 25 @ 4:00; 6:40; 9:00
with a Sat. & Sun. Matinee @ 1:30
Sean Paul & Michael Douglas in