



APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

MO Oil & Gas Council

NAME OF COMPANY OR OPERATOR: Larry E. & Linda c. Enlow DATE: 8-25-94
 ADDRESS: RR 2 Box 51A CITY: Drexel STATE: Mo. ZIP CODE: 64742

DESCRIPTION OF WELL AND LEASE
 NAME OF LEASE: Enlow WELL NUMBER: 1 ELEVATION (GROUND): _____

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE):
3150 FT. FROM (N) SECTION LINE 2970 FEET FROM (E) SECTION LINE
 SECTION: 32 TOWNSHIP: 44N RANGE: 32W COUNTY: Cass

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 235 FEET
 DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE: N/A FEET

PROPOSED DEPTH: 330' DRILLING CONTRACTOR, NAME AND ADDRESS: Town Oil Co. ROTARY OR CABLE TOOLS: Rotary APPROX. DATE WORK WILL START: 9-15-94

NUMBER OF ACRES IN LEASE: 35 NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 0
 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 0 INJECTION 0 INACTIVE 0 ABANDONED 0

STATUS OF BOND: SINGLE WELL AMOUNT \$ 500.00 BLANKET BOND AMOUNT \$ _____ 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.
20'	6 1/2"	20	3 sacks	40'	6 1/4"	20	6 sacks
330'	4 1/2"	9 1/2"	to surface	"	"	"	"

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.

SIGNATURE _____ DATE _____

PERMIT NUMBER: 20581 APPROVAL DATE: 8/31/94 APPROVED BY: James H. 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 IS 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: Lutty Town DATE: 8-26-94



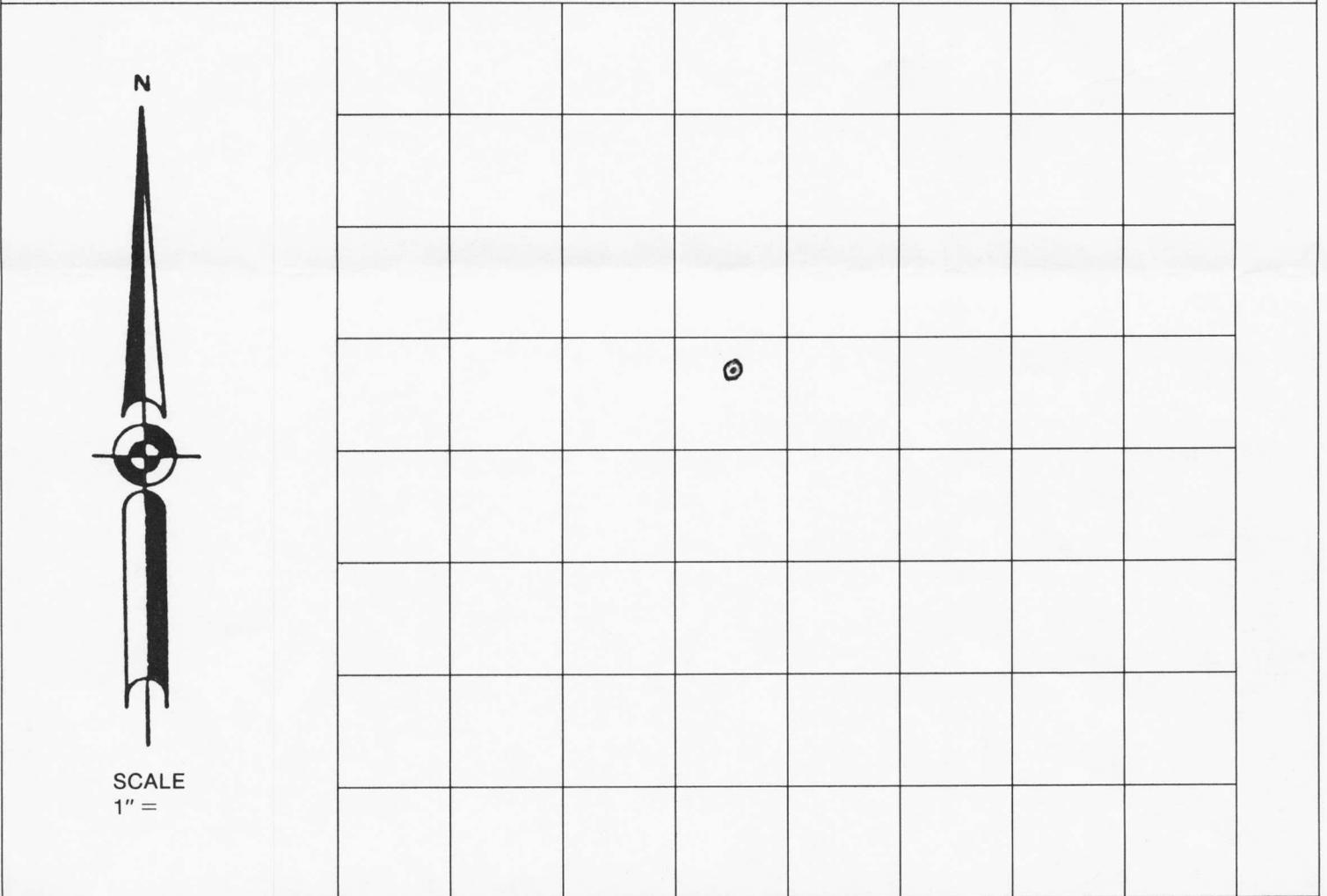
MISSOURI DEPARTMENT OF NATURAL RESOURCES
 MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

RECEIVED
 AUG 29 1994
 FORM DCC-4

OWNER Larry E. & Linda C. Enlow MO Oil & Gas Council

LEASE NAME Enlow COUNTY Cass

3150 FEET FROM S SECTION LINE AND 2970 FEET FROM E SECTION LINE OF SEC. 32, TWP 44N N, RANGE 32W
(N) - (S) (E) - (W)



REMARKS

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

NUMBER



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

RECEIVED
OCT 13 1994
Oil & Gas Council

Form OGC-5

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

OWNER Larry E. and Linda C. Enlow		ADDRESS Rt. 2, Box 51A Drexel, MO. 64742			
LEASE NAME Enlow		WELL NUMBER 1			
LOCATION 3150' FSL 2970' FEL			SEC. TWP. AND RANGE OR BLOCK AND SURVEY 32-44N-32W		
COUNTY Cass	PERMIT NUMBER (OGC-3 OR OGC-31) 20581				
DATE SPURRED 9-6-94	DATE TOTAL DEPTH REACHED 9-13-94	DATE COMPLETED READY TO PRODUCE OR INJECT Unk	ELEVATION (DF, RKR, RT, OR Gr.) FEET	ELEVATION OF CASING HD. FLANGE FEET	
TOTAL DEPTH 480'	PLUG BACK TOTAL DEPTH 320'				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION Slate			ROTARY TOOLS USED (INTERVAL) 0 TO 480		CABLE TOOLS USED (INTERVAL)
WAS THIS WELL DIRECTIONALLY DRILLED? No	WAS DIRECTIONAL SURVEY MADE? No	WAS COPY OF DIRECTIONAL SURVEY FILED? NO		DATE FILED	
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) None				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		40'	6	None
Completion	6 1/8	4 1/2		295'	40	None

TUBING RECORD

LINER RECORD

SIZE 1" IN.	DEPTH SET 310 FEET	PACKER SET AT None FEET	SIZE INCH	TOP FEET	BOTTOM FEET	SACKS CEMENT	SCREEN FEET
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PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
Open hole		295-320		

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION Unk-home use gas well		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 bbls.	GAS PRODUCED DURING TEST MCF	WATER PRODUCED DURING TEST bbls.	OIL GRAVITY API (CORR.)
TUBING PRESSURE	CASING PRESSURE	CAL'ED RATE OF PRODUCTION PER 24 HOURS		OIL bbls.	GAS MCF	WATER bbls.

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

METHOD OF DISPOSAL OF MUD PIT CONTENTS

Sucked out and covered with dirt

CERTIFICATE: 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.

DATE October 10, 1994	SIGNATURE <i>Winton Laws</i>
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MO Oil & Gas Council

Well #1
 Farm: Enlow
 Cass County, MO.
 Lease Owner: Larry E. and Linda C. Enlow

WELL LOG

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total Depth</u>
0-18	Soil & clay	18
40	Sandy shale	58
121	Shale	179
3	Slate	182
6	Shale	188
9	Sandy shale	197
23	Shale	220
2	Coal	222
4	Shale	226
2	Lime	228
1	Sandy lime	229
5	Shale	234
4	Lime	238
4	Slate	242
5	Sand	247
2	Shale	249
2	Lime	251
22	Lime	273
5	Shale	278
2	Lime	280
2	Shale	282
2	Slate	284
3	Slate lt.	287
6	Lime	293
9	Shale	302
3	Slate	305
2.5	Coal or coke	307.5
2.5	Shale	310
2	Shale/shell	312
21	Shale	333
2	Shale	335
10	Sand	345
2	Sand	347
12	Sand	359
3	Shale	362
9	Shale	371
17	Shale	388
1	Coal	389
2	Shale	391
2	Shale	393
1	Shale	394
2	Sand	396
1	Sandshell	397
5	Sand/shale	402

6	Shale/shell	408	
4	Shale	412	
1	Coal	413	
3	Shale	416	
3	Sandy shale	419	
4	Shale	423	
5	Coal	428	
52	Shale	480	TD

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Short Cuts

TANK CAPACITY

BLS. (42 gal.) equals D²x.14xh

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH — barrels per hour

PSI — pounds square inch

TO FIGURE PUMP DRIVES

* D — Diameter of Pump Sheave

* d — Diameter of Engine Sheave

SPM — Strokes per Minute

RPM — Engine Speed

R — Gear Box Ratio

C — Shaft Center Distance

D — RPMxd over SPMxR

d — SPMxRXD over RPM

SPM — RPMXD over RxD

R — RPMxd over SPMXD

BELT LENGTH — $2C + 1.57D + d1 + \frac{D - d2}{4C}$

*Need these to figure belt length

TO FIGURE AMPS:

$$\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. 11

Farm Enlow

(State) Mo. (County) Cass

(Section) 32 (Township) 44 (Range) 32

For Enlow (Well Owner)

TOWN OIL CO.

Route 4

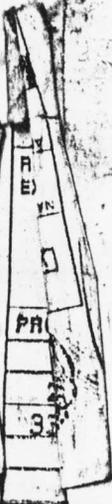
Paola, Kansas 66071

913-294-2125

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Farmer: Case County: Case
M.D. State: Well No. 1

Elevation _____
Commenced Spudding 9-5 1994
Finished Drilling _____ 19__

Driller's Name _____

Driller's Name _____

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name _____

32 44 32

(Section) _____ (Township) _____ (Range) _____

Distance from ~~32~~ 5 line, 3150 ft.

Distance from E line, 2930 ft.

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
21	80				
30	50				
32	90				
33	10				
32	00				
29	50				
30	10				
18	50				
17	70				
33	40				
26	08				
305	50				
10	00				
295	50				

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

6 1/2" Set 40 in 6 1/2" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

brook in

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Oil & Gas Council

Thickness of Strata	Formation	Total Depth	Remarks
0-18	Sandstone	18	
40	Sandstone	58	
121	Shale	179	121.124 thin layer shale
3	Shale	182	
6	Shale	188	
9	Sandy shale	197	No shows
23	Shale	220	
2	coal	222	
4	Shale	226	OK shows
2	Shale	228	OK shows
1	conglomerate	229	
3	Shale	232	
4	Shale	238	OK Brown shows of sandstone
4	Shale	242	Water
5	Sand	247	Water / oil Rainbows
2	Shale	249	
2	Shale	251	Shows Pinkish
22	Shale	273	Shows
5	Shale	278	
2	Shale	280	
2	Shale	282	hard
2	Shale	284	
3	Shale	287	soft shale
6	Shale	293	
9	Shale	302	Shows 300 TD
3	Shale	305	Gas

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Thickness of Strata	Formation	Total Depth	Remarks
2.5	coal or coke	307.5	Burst water in
2.5	shale	310	shale
2	shale	312	
21	shale	333	Small tube Fract
2	shale	335	1 thin log core
10	sand	345	1st Brown log core
2	sand	347	1st Brown log core
12	sand	359	Brown log core
3	shale	362	1st sand
9	shale	371	1st
17	shale	388	2nd
1	coal	389	
2	shale	391	1st S. Fracture
2	shale	393	1 Brown shale
1	shale	394	1st shale
2	sand	396	1st blue sand shale
1	sand/shale	397	1st shale
5	sand/shale	402	
6	shale	408	
4	shale	412	DK
1	coal	413	
3	shale	416	gray
3	sandy shale	419	gray No sand
4	shale	423	DK
5	coal	428	water in
58	shale	480	oil from shale