BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

BEFORE COMMISSIONERS:

MICHAEL LENNEN, CHAIRMAN

PARGALEE WRIGHT KEITH R. HENLEY

IN THE MATTER OF THE APPLICATION OF GLACIER PETROLEUM CO. FOR AN ORDER AMENDING PARAGRAPH 3, 6 AND 7 OF THE COMMISSION'S ORDER DATED JULY 29, 1949, TO ALLOW THE INJECTION OF FLUIDS FOR ENHANCED RECOVERY, INTO WELL NO. 1, WHICH IS ON THE THRALL UNIT FARM AND BESSIE MCKEE LEASE, COVERING THE W/2 AND NE/4 OF SECTION 32 AND S/2 OF SECTION 29 AND S/2 NW/4 AND SW/4 SECTION 28 AND PART OF THE SE OF THE SE/4 OF SECTION 30 AND N/2 OF THE NW/4 OF SECTION 33, ALL IN TOWNSHIP 25 SOUTH, RANGE 10 EAST IN THE THRALL FIELD IN GREENWOOD COUNTY, KANSAS, TO ADD SIX (6) INJECTION WELLS AND DECREASE THE INJECTION PRESSURE ON THE ORIGINAL ORDER AS DESCRIBED IN PARAGRAPH (1);

DOCKET NO. E-2226

CONSERVATION DIVISION

LICENSE NO. 5721

URDER

THE ABOVE-ENTITLED MATTER COMES BEFORE THE COMMISSION FOR FURTHER CONSIDERATION AND DISPOSITION. THE COMMISSION, HAVING TAKEN THE MATTER UNDER ADVISEMENT FINDS:

1. An application was filed on the 23rd day of January, 1986, to amend Paragraph 3, 6 and 7 of the order dated July 29, 1949 in Docket No. E-2226, to add six (6) injection wells to the system: McKee #3, located 3190 feet from the South Line and 4280 feet from the East Line in Section 32, Thrall #8B, located 0 feet from the South Line and 1056 feet from the East Line, Thrall #14B, located 1056 feet from the South Line and 1584 feet from the East Line in Section 29, Thrall #20B, located 528 feet from the South Line and 5016 feet from the East Line, Thrall #23B, located 1980 feet from the South Line and 3830 feet from the East Line and Thrall #108, located 2310 feet from the South Line and 2970 feet from the East Line in Section 28, All in Township 23 South, Kange 10 East, Greenwood County, Kansas, with the following casing information:

McKee #3

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR MUDDED	SACKS CEMENT <u>USED</u>
7"	2 <i>5</i> 2′	CEMENT ED	75
4 1/2"	2372 ′	CEMENT ED	100

2 3/8" J-55 DUOLINE TUBING WITH BAKER 1) PACKER SET AT 2225'.

THRALL #8B

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR MUDDED	SACKS CEMENT USED	
7"	11 <i>3</i> ′	CEMENT ED	50	
4 1/2"	2360′	CEMENT ED	120	

2 3/8" J-55 DUOLINE TUBING WITH BAKER AD PACKER SET AT 22/8'.

THRALL #14B

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR HUDDED	SACKS CEMENT USED
7"	217 '	CEMENT ED	80
4 1/2"	2408 '	CEMENT ED	100

2 3/8" J-55 DUOLINE TUBING WITH BAKER AD PACKER SET AT 2290'.

THRALL #2UB

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR MUDDED	SACKS CEMENT USED
8 5/8"	204 ′	CEMENTED	115
4 1/2"	2370 ′	CEMENTED	150

2 3/8" J-55 DUOLINE TUBING WITH BAKER AD PACKER SET AT 2264'.

THRALL #23B

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR MUDDED	SACKS CEMENT USED
8 5/8"	20/'	CEMENT ED	120
4 1/2"	2410'	CEMENT ED	150

2 3/8" J-55 DUOLINE TUBING WITH BAKER AD PACKER SET AT 2310'.

THRALL #10B

SIZE	SEAT <u>DEPTH</u>	CEMENTED OR MODDED	SACKS CEMENT USEU
8 /8"	200 ′	CEMENT ED	11ປ
5 1/2"	2449 ′	CEMENT ED	150

2 3/8" J-55 DUOLINE TUBING WITH BAKER PACKER SET AT 2326'.

AND DECREASE THE INJECTION PRESSURE TO 1000 PSI MAXIMUM.

- 2. PROPER NOTICE HAS BEEN FURNISHED ALL PARTIES HAVING ANY INTEREST HEREIN. NO PROTESTS HAVE BEEN FILED AND APPROVAL HAS BEEN RECOMMENDED BY THE CONSERVATION DIVISION.
 - 3. Applicant's Lease is located and described as follows:

W/2 AND NE/4 of Section 32 AND S/2 of Section 29 AND S/2 NW/4 AND SW/4 SECTION 28 AND PART OF THE SE OF THE SE/4 OF SECTION 30 AND N/2 OF THE NW/4 OF SECTION 33, ALL IN TOWNSHIP 23 SOUTH, RANGE 10 EAST IN THE THRALL FIELD, GREENWOOD COUNTY, KANSAS;

- 4. THE APPLICATION SHOULD BE GRANTED IN ACCORDANCE WITH THE ABOVE FINDINGS.
- IT IS, THEREFORE, BY THE COMMISSION ORDERED: THAT GLACIER PETROLEUM CO., BE, AND IS HEREBY GRANTED AN AMENDMENT TO PARAGRAPH 3, 6 AND 7 OF THE ORDER DATED JULY 29, 1949 IN DOCKET No. E-2226 AND THAT SAID APPLICANT BE PERMITTED TO ADD SIX (6) INJECTION WELLS AND DECREASE THE INJECTION PRESSURE AS DESCRIBED IN PARAGRAPH 1.

IT IS FURTHER BY THE COMMISSION ORDERED: THAT THE ENHANCED RECOVERY AUTHORITY GRANTED BY THIS ORDER SHALL NOT BE ASSIGNED, SOLD OR TRANSFERRED WITHOUT THE APPROVAL OF THIS COMMISSION.

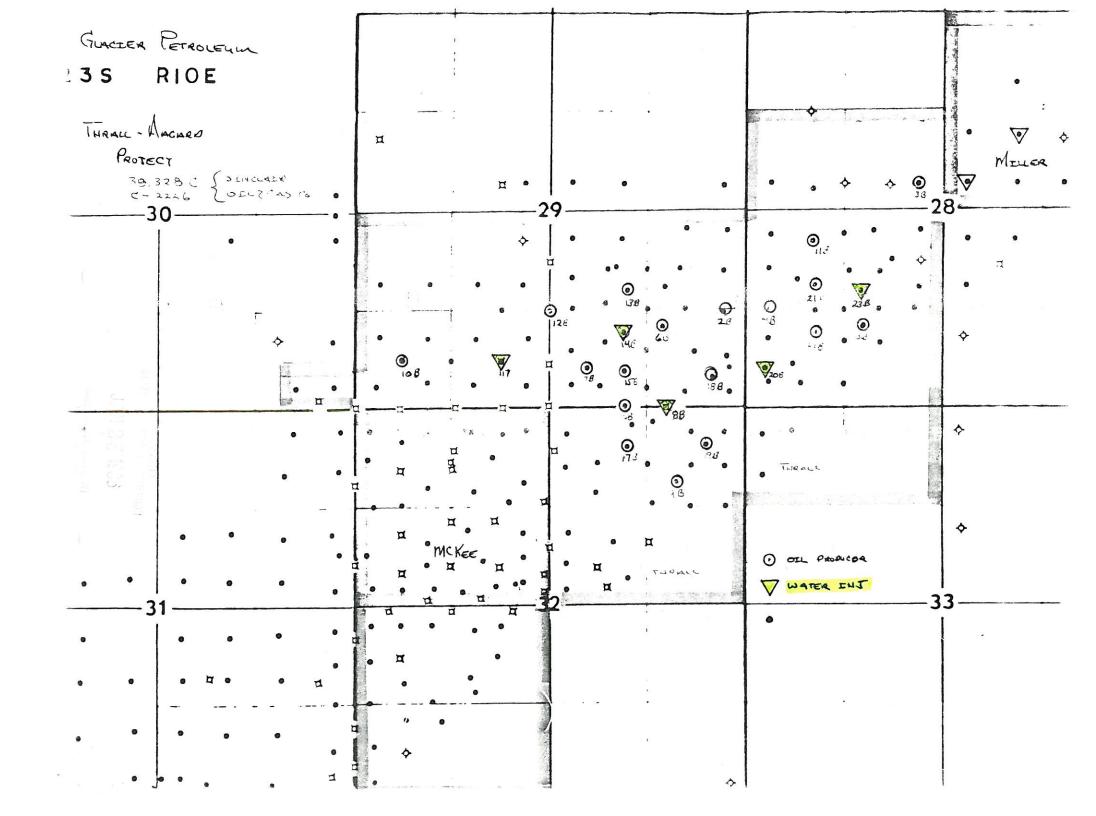
GLACIER PETROLEUM CO.

E-2226 AMENDED ENHANCED RECOVERY

THE COMMISSION RETAINS JURISDICTION OF THE SUBJECT MATTER AND THE PARTIES FOR THE PURPOSE OF ISSUING SUCH FURTHER ORDER OR ORDERS AS FROM TIME TO TIME IT MAY DEEM NECESSARY.

LENNEN,	CHMN.; WRIGHT, COM.;	HENLEY,	Com •				
NATED:	SEP 2 4 1986						
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Amending paragraph (s) \$\frac{1}{3} \(\) \(\) \(\) Date of Original Order \) WELL No. \(\) (from original order); Name of Lease \(\) \(\) \(\) \(\) (from original order); Complete lease description \(\) \	Op	perator <u>Alanie</u>	r) Tetroleum Co	License No. 572	-1
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NEW Well	
CASING MECHANICAL INTEGRITY TEST	pocket # $C-222$ (
Disposal Enhanced Recovery:	5w4, Sec 28, T 23 S, R 10 (E/W
Repressuring Flood Tertiary	Feet from South Section Line Feet from East Section Line
Date injection startedAPI #15	Lease TRAIN Well # 23-B County GREEN Weed
Operator: Glacier Vet. Name & O. C.	Operator License # <u>572/</u>
Address <u>F. O. Bo x 577</u>	Contact Person J. M. WES
Emporia Ke. 66801	Phone 316-345-1148
	production Injection below production Production Liner Tubing Size $\frac{3}{3}/8$ Set at $\frac{3}{3}/0$ Type TD (and plug back) ft. depth
F Time: Start 315 Min. 20 Mi	
I E Pressures: 120 120	120 Set up 1 System Pres. during test
	Set up 2 Annular Pres. during test
A	Set up 3 Fluid loss during testbbls.
A	ng - Tubing Annulus
The bottom of the tested zone is	
Test Date 1/30/86 Using	Company's Equipment
The operator hereby certifies that	at the zone between feet and 23/0 feet
was the zone tested	Signature Title
The results were Satisfactory	, Marginal, Not Satisfactory
	al Title PIPT Witness: Yes No
REMARKS:	
	02
Orgin. Conservation Div.;	KDHE/T; Dist. Office;
Computer Update	KCC Form U-7 6/84

FEB 6 1936

CONSERVATION DIVISION

CONSER'	CORPORATION CO VATION DIVISIO LORADO DERBY B A, KANSAS 6720	N - UIC SEC UILDING	TION		C-2226 [KCC k	
ANNUAL FLUID	REPORT OF PRE INJECTION AND	SSURE MONIT ENHANCED RE	ORING, COVERY	Lease Name (if batter) locations	Thrall W	lell# 23B th list with
Operat	or License Num	ber_ 5721		Feet from	E section line_	3830
Name X	825 Comme	rcial			hrall-Aagard Greenwood	
Contac	t Person	C. Hawes	1			Recovery[x]
Phone_	316-342-1	148	and the same of th			
was LII	(s) responsib is well/projec revious operat	t reported	last years	_x _Jyes_L	Porter]no	*
I. INJ	ECTION FLUID:					
Type: []f [x]b []b []w	resh water rine treated rine untreated ater/brine mix	Source: [x]pr other: ture	oduced water	Quality: Total disc Additives (attach wa	olved solids <u>N/</u> ater analysis, if	A ppm/mgm/liter N/A available)
TYPE C	OMPLETION:					
[]p	ackerless (tub	ing-no pack	er) Maximum	authorized i	n 2310 feet. pressure1000 rate 1200 bb1/	psi.
Month	Total Fluid Injected in Month (bbl)	Days of Injection	Maximum Injection Pressure	Average Injection Pressure	Aver.Pressure Tubing to Casing Annulus	Pressure psig Casing to Surf. Pipe
Jan.	3385	31	860	840	0	0
Feb.	3500	28	920	800	11	11
Mar.	8915	31	1000	920	u	II .
Apr.	6080	30	1000	980	11	ш
May	5435	31	980	900	11	11
June	2440	30	960	920	TI .	п
July	3180	31	960	880		н
Aug.	7245	31	1000	940	11	TT .
Sept.	5825	30	1000	940	н	п
Oct.	6510	31	1000	960	II	11
Nov.	5640	30	1000	980	11	II
Dec.						
	5635	31	1000	920		11

^{*}For disposal wells complete page 1 plus section IV page 2.
For enhanced recovery wells (repressuring, secondary, tertiary) complete both pages.
Prepare one form for each injection well (SWD and ER) but only one report of Section II and III for each docket (project). 12/83 Form U3CE CENTONACIONE COMMISSIONES