

1. To: STATE CORPORATION COMMISSION
 CONSERVATION DIVISION - UIC SECTION
 2. 200 COLORADO DERBY BUILDING
 3. WICHITA, KANSAS 67202

C NE NE , Sec. 36 , T 30 S, R 2 W NE
 660 feet from NAX section line
 660 feet from AX/E section line

4. APPLICATION FOR INJECTION WELL

5. DISPOSAL ENHANCED RECOVERY

Lease description: E/2 Sec. 36-30S-2W & W/2 Sec. 31-30S-1W

6. DATE 02-06-84

Lease Name Bates Unit Well # 5-W02

7. Operator License # 5229

Field Name Bates

8. Operator: Phillips Petroleum Company
 Name & P.O. Box 287
 9. Address Great Bend, KS 67530

County Sumner County
 Deepest Usable Water: Formation Wellington

10. Contact Person Name K. A. Westby
 Phone 316-793-8421

Depth 200 feet to formation bottom

11. Old Well Being Converted Newly Drilled Well Well to be drilled

12. Surface elev. 1308 feet, Well Total Depth 3750 feet, Plug back depth 3750 feet
 13. Datum of top of injection formation -2428 feet (reference mean sea level)

INJECTION FORMATION DESCRIPTION

name	top/bottom	perf/open hole	depth
14. Mississippi Lime	3736	NOT Penetrated OH	at 3739 to 3750 feet
15. /			at to feet

LIST OF WELLS SUPPLYING SALT WATER (use extra sheet if needed)

LEASE OPERATOR	LEASE NAME	LEASE DESCRIPTION	WELL ID# & Spot location
16. 1. Phillips Pet. Co.	Bates Unit	E/2 Sec. 36-30S-2W	#1-1 W/2 SE NW Sec. 31-30S-1W
17. 2. "	"	& W/2 Sec. 31-30S-1W	#1-2 S/2 SW NW Sec. 31-30S-1W
18. 3. "	"	"	#1-3 S/2 NE NW Sec. 31-30S-1W
19. 4. "	"	"	#1-4 S/2 NW NW Sec. 31-30S-1W
20. 5. "	"	"	#2-1 SW NE SW Sec. 31-30S-1W
21. 6. "	"	"	#2-2 E/2 NW SW Sec. 31-30S-1W
22. 7. "	"	"	#3-2 NW SE SW Sec. 31-30S-1W
23. 8. "	"	"	#3-3 E/2 SW SW Sec. 31-30S-1W

PRODUCING FORMATION

STRATA	DEPTH	TOTAL DISSOLVED SOLIDS
24. 1. Mississippi Lime	3732 to Penetrated	223,053 mg/l
25. 2. "	3722 to " feet	217,053 mg/l
26. 3. "	3732 to " feet	219,799 mg/l
27. 4. "	3727 to " feet	218,013 mg/l
28. 5. "	3736 to " feet	217,844 mg/l
29. 6. "	3717 to " feet	217,224 mg/l
30. 7. "	3713 to " feet	230,806 mg/l
31. 8. "	3727 to " feet	219,053 mg/l

32. Liquid Injection Rate: Max 900 bbl/day, Min 500 bbl/day
 33. or Gas Injection Rate: Max - scf/day, Min - scf/day, Type of gas -

34. Injection Pressure: Min 150 psig; Max 500 psig

35. LITHOLOGY from Injection Zone up to deepest Usable Water:
 See attached driller's log.

36. Estimated Maximum safe injection pressure 500 psig.

WELL COMPLETION:

TYPE: Tubing & packer / /; Packerless (tubing) / /; Tubingless / /

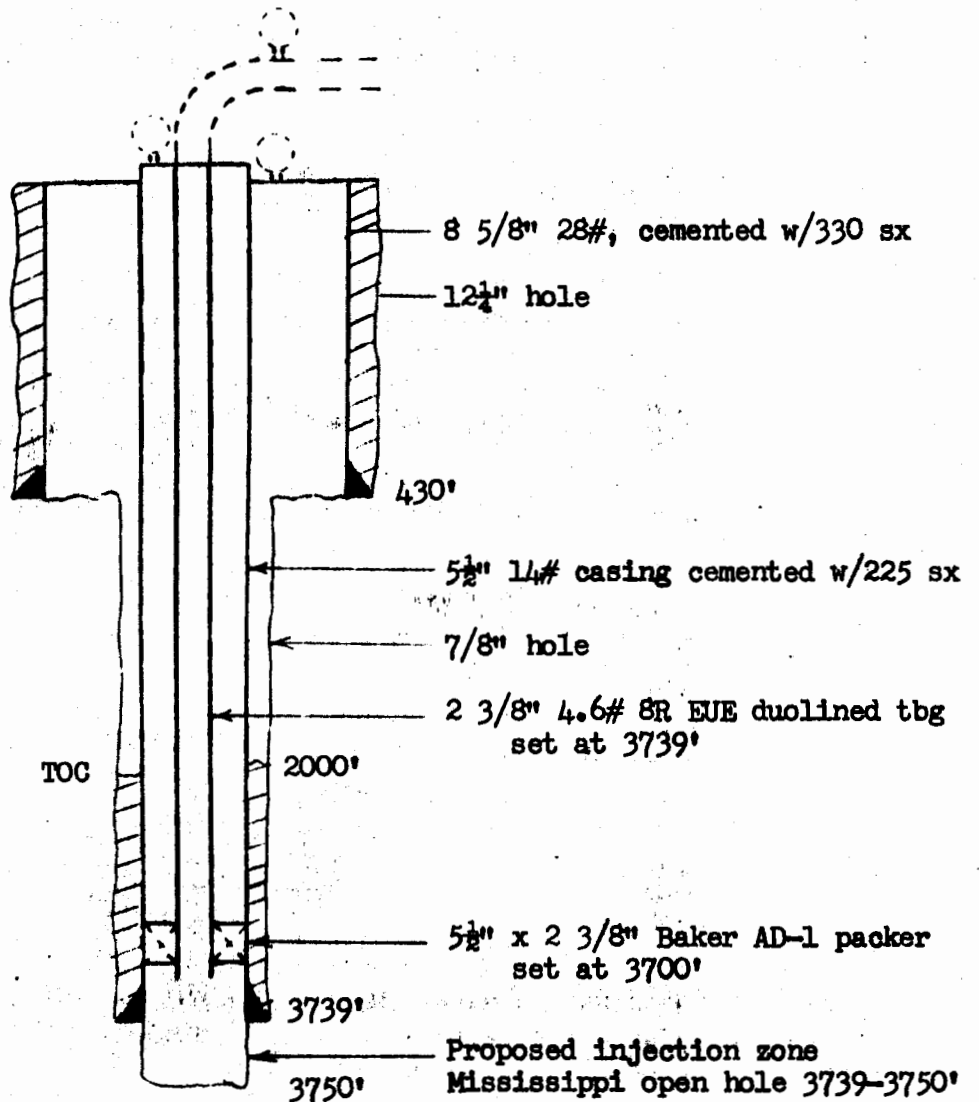
CASING OR TUBING	CONDUCTOR	SURFACE	INTERMEDIATE	PRODUCTION	TUBING
SIZE	-	8 5/8, 28#		5 1/2, 14#	2 3/8"
SITTING DEPTH	-	430		3739	3698
CEMENT SACKS	-	330		225 sx	-
CEMENT: TOPS BOTTOMS		Top: Surface Btm: 430'		Top: 2000' Calculated Btm: 3739'	-

TUBING TYPE & GRADE: 2 3/8 duolined tbg 4.60# J-55

CORROSION INHIBITOR IN ANNULUS: Fresh water w/corrosion inhibitor

PACKER TYPE & DEPTH: Baker AD-1 set at 3700'

LIST LOGS ENCLOSED: Driller's log



Static water level is 1440 feet below surface.

(To sketch installation, darken appropriate lines, indicate cement, and show depths.)

NOTE: Page 4 must be completed on all applications.

WELL LOG
Riner "A" #2
NE NE 36-30S-2W
Sumner County, Kansas

1 copy

<u>FROM</u>	<u>TO</u>
0	432 Shale
432	3095 Shale and Lime
3096	3320 Lime
3321	3738 Lime and shale
3739	3750 Mississippi Lime
3750	Total Depth

Elevation: 1314' K.B.

Formation Tops:
None Available


STATE OF KANSAS

COUNTY OF BARTON ss

T. D. Sweetman, Partner of S & S Drilling Company, being first duly sworn on oath says: That I have knowledge of the facts, statements and matters herein contained and the log of the above described well as filed and that the same are true and correct.


T. D. Sweetman

Subscribed and sworn before me this 6th day of July, 1967


Notary Public Barton County

My Commission Expires 5/9/71

