

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

May 6, 1991

Conoco Inc.  
10 Desta Drive West  
Midland Texas 79705-4514

Attention: Jerry Hoover

Re: Amendment of Division Order No. R-5250

Dear Mr. Hoover:

Reference is made to your request dated April 2, 1991 to amend Division Order No. R-5250, which order authorized the use of the King Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico, as a Devonian disposal well, injection to occur from a depth of approximately 10,300 feet to 10,550 feet. It is our understanding that the subject order limited the surface injection pressure to no more than 360 psi, and, that you now wish to amend the order to provide for a surface injection pressure limitation of 2,058 psi in accordance with current Division guidelines. It is further our understanding that the packer in the subject well has been set at a depth of 9,963 feet.

You are hereby authorized to inject into the subject well at a surface injection pressure not to exceed 2,058 psi.

Sincerely,

A handwritten signature in cursive script, appearing to read "William J. LeMay".

William J. LeMay  
Director

xc: OCD-Artesia  
Case File-5708  
D. Catanach  
Rick Brown



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NM 0147580

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

Salt Water Disposal

8. Well Name and No.

King SWD No. 1

2. Name of Operator

Conoco Inc.

9. API Well No.

300152025700

3. Address and Telephone No.

10 Desta Drive, Suite 100W, Midland, TX 79705 915-686-6548

10. Field and Pool, or Exploratory Area

Devonian

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 1980' FWL  
Sec. 9, T-20S, R-25E

11. County or Parish, State

Eddy, NM

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Moved packer  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On March 9-14, 1981 the following work was performed on this well:

1. Milled over the packer set at 1800' by the former operator, Roger Hanks.
2. Cleaned out hole with bit and casing scraper to 10,050'.
3. Went in hole with Baker Lok-Set packer and 318 jts. 2-7/8" tubing.  
Set packer at 9,963'.
4. Placed well on injection.

14. I hereby certify that the foregoing is true and correct

Signed Joseph M. Hoover

Title Regulatory Coordinator

Date 3/29/91

(This space for Federal or State office use)

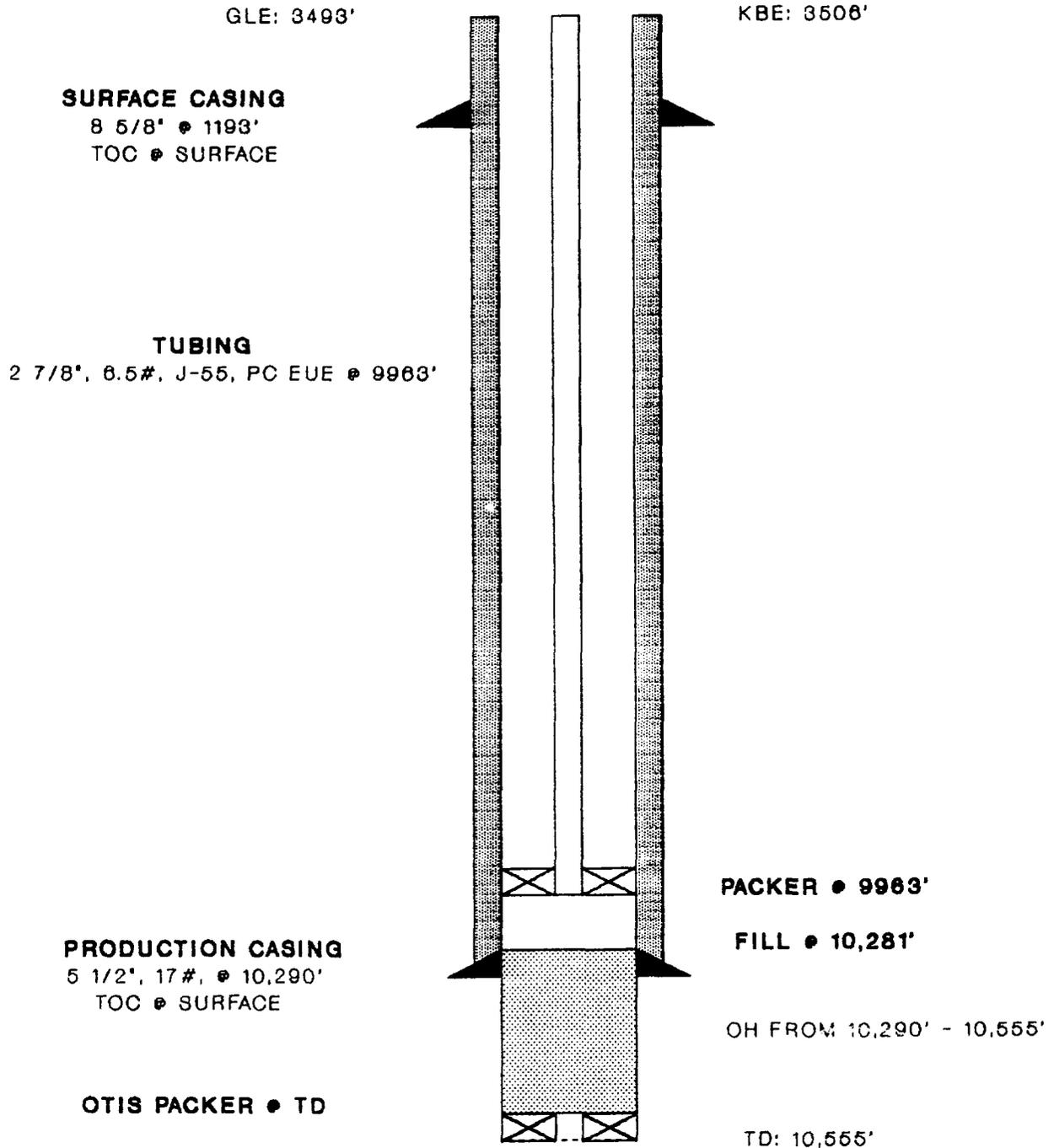
Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

# WELLBORE DIAGRAM KING NO. 1 SWDW



BY: JIM ALLEN

DATE: 01-28-91

**WELL DATA SHEET  
KING NO. 1 SWD**

**Well Data:**

Location: 660' FNL & 1980' FWL, Section 9, T-20S,  
R-25E, Eddy County, New Mexico

Elevation: 3493' GL      3506' KB      Zero @ KB

TD: 10,555'      PBSD: 10,555'

**Casing:** Surface: 8-5/8" @ 1193'

Production: 5-1/2" 17 ppf @ 10,290'  
TOC: @ Surface

**Tubing:** 318 joints of 2-7/8" plastic-coated EUE (9963')

**Packer:** Baker Lok-Set at 9963' set with 10k# compression

**OH Interval:** 10,290' - 10,555' Devonian

CSG SIZE (IN)	WGT (PPF)	GRD	CPLG	BURST (PSI)	COLL (PSI)	BODY (LBS)	JOINT (LBS)	DRIFT (ID)	BBLS/ FT.	CUFT/ FT.
8-5/8	24	K-55	ST&C	2,950	1370	381,000	263,000	7.972	.0636	.3575
5-1/2	17	K-55	LT&C	5,320	4910	273,000	272,000	4.767	.0232	.1305
*2-7/8	6.5	J-55	EUE	7,260	7680	72,580	72,580	2.347*	.00579*	.0325*
1-1/4	1.08	CT	NA	11,900	8810	22,260	---	1.08	.00112	.00702

\* Tubing is internally plastic-coated

CONTINENTAL OIL COMPANY

TRACTOR	LEASE	WELL NO.	STATE	N.M.
DRIG	Y. PERT	1		
NO.	DBI	CO. Eddie		

LANDING FLANGE ELEV. +	FT.	LAST CASING	DEPTH	SIZE	WT	GRADE	DATE
HEIGHT OF MEASURING POINT FROM LANDING FLANGE							

LO SUPERVISOR

3/7/81 MIRU. Prep to Pull tbg. STON

Cost to DATE: \$ 200<sup>00</sup>

3/8/81 POOH w/ 3" X LINE Tbg, 59 its 1795', 13' 3/2" sub, & Otis w/c seal assembly.  
 RIH w/ PKR Pishes, Cullite shoe, 6' washover pipe, 3 D.C.'s, Tag PKR @ 1833 y' mdr  
 a' progressu STON

Cost: \$ 5280<sup>00</sup>

3/10/81 Started milling PKs. PKs started spinning. POOH w/ lbs - D.C.'s + shoe. RIH w/ Gasper's overshot 3 1/2" ID T Bumpers sub. Could not catch fish. POOH. RIH w/ 3 3/8" w/ bumper sub. Caught fish, but could not get loose. Release fish T POOH w/ bumper sub & overshot. Grappel still on fish. RIH w/ (cont). shoe T milled up Grappel. STON

Cost 19556<sup>96</sup>

3/11/81 STARTED milling on PKs w/ the Bottom shoe, very little torque. PKs still spinning. Could not move PKs up or down. POOH T Had 4" piece of pipe probe engaged on PKs. PKs stuck. RIH w/ shoe. Not cutting & was binding and worse. RIH w/ PKs picks T jagged. Release shoe T started milling PKs still spinning. No Progress. STON.

Cost: \$ 12,656

3/12/81 Milled a His w/ jagged Bottom shoe. No Progress. POOH with tools. RIH w/ 1 ft wash over pipe dressed w/ Cullite and Bottom. Started milling on PKs. Good action for 4" (had lost torque. POOH - cutright word off at window pipe. RIH w/ 3 3/8" OS. bumper sub, pipe T 3 D.C.'s. Caught fish. Could not move PKs up or down. Jailed for 1 Hr. OS Pulled off at fish. Could not catch fish again. POOH. Rig up the tool. RIH w/ bumper. Bumper T

CONTINENTAL OIL COMPANY

DAILY DRILLERS' REPORT

DRILLER: XPERT  
RIG NO: D61  
LEASE: King  
WELL NO: 1  
CO: Eddie

LANDING PLANCE ELEV. FT.  
DEPTH MEASURED FROM DEPTH OF MEASURING POINT FROM LANDING PLANCE

DEPTH: \_\_\_\_\_ FT.  
SIZE: \_\_\_\_\_ IN.  
GRADE: \_\_\_\_\_ DATE: \_\_\_\_\_

3/12/81 (Cont.) Spot 2 SK. Cont. @ 1839' POOH 1 SIGN.

3/13/81 both w/ 4 1/4" cube shoe 3 D.C.'s. 7 slams making one PKT. Mined up PKs. Pkgs 10/27/81  
3 1/2 x line 1kg 7 cube shoe, with w/ 4 3/4" bit, big scrapes, ADC's 7 2 3/8" sig  
to 10,050'. PKs will I.D. SIGN.

Cost to Date: 121,500

3/14/81 PooH w/ 1/4 3 D.C.'s bit + scraper. WITH w/ Baker lok-set PKs, 318 jts 2 3/8" ps. 1kg.  
Set PKs @ 9973. Remove KOB. Tool washed. Place well cap. Disposed @ 2000 lbs. KOB to  
Reynolds Rig.

Cost to Date: 124,500

3/15/81 5,000 KPD @ 300 PSI

3/16/81 5,000 LID @ 850 PSI FIMH REPORT

DATE: Dec. 1981

BEFORE THE OIL CONSERVATION COMMISSION  
THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5708  
Order No. R-5250

APPLICATION OF ROGER C. HANKS FOR  
SALT WATER DISPOSAL, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 7, 1976, at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter.

NOW, on this 3rd day of August, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Roger C. Hanks, is the owner and operator of the King Disposal Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Devonian formation, with injection into the open-hole interval from approximately 10,300 feet to 10,550 feet.

(4) That the injection should be accomplished through 3 1/2-inch tubing installed in a packer set at a minimum depth of 1800 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(5) That the water disposed of in said well should be chemically treated to prevent corrosion and scale build up, and that coupon tests should be continuously conducted and the results thereof filed semi-annually with the Commission.

(6) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission should have authority to increase the aforesaid pressure limit if, in his judgement, conditions so warrant.

(7) That the operator should notify the supervisor of the Artesia District Office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(8) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(9) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Roger C. Hanks, is hereby authorized to utilize its King Disposal Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico, to dispose of produced salt water into the Devonian formation, injection to be accomplished through 3 1/2-inch tubing installed in a packer set at a minimum depth of 1800 feet, with injection into the open-hole interval from approximately 10,300 feet to 10,550 feet;

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

(2) That the water disposed of into said well shall be chemically treated to prevent corrosion and scale build-up, and coupon corrosion tests shall be continuously conducted and the results thereof filed semi-annually with the Artesia District Office of the Commission.

(3) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission shall have the authority to increase the aforesaid pressure limit upon satisfactory showing that such pressure limit increase is warranted.

(4) That the operator shall notify the supervisor of the Artesia District Office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(5) That the operator shall immediately notify the supervisor of the Commission's Artesia District Office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

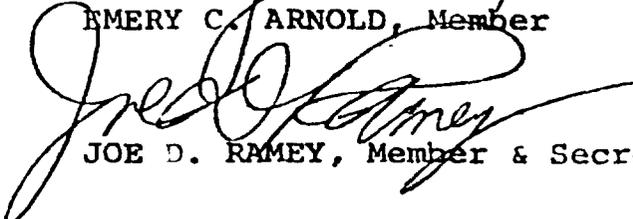
(7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
PHIL R. LUCERO, Chairman

  
EMERY C. ARNOLD, Member

  
JOE D. RAMEY, Member & Secretary

S E A L

dr/

B & D Well Testers  
(505) 393-0119

STEP RATE TEST

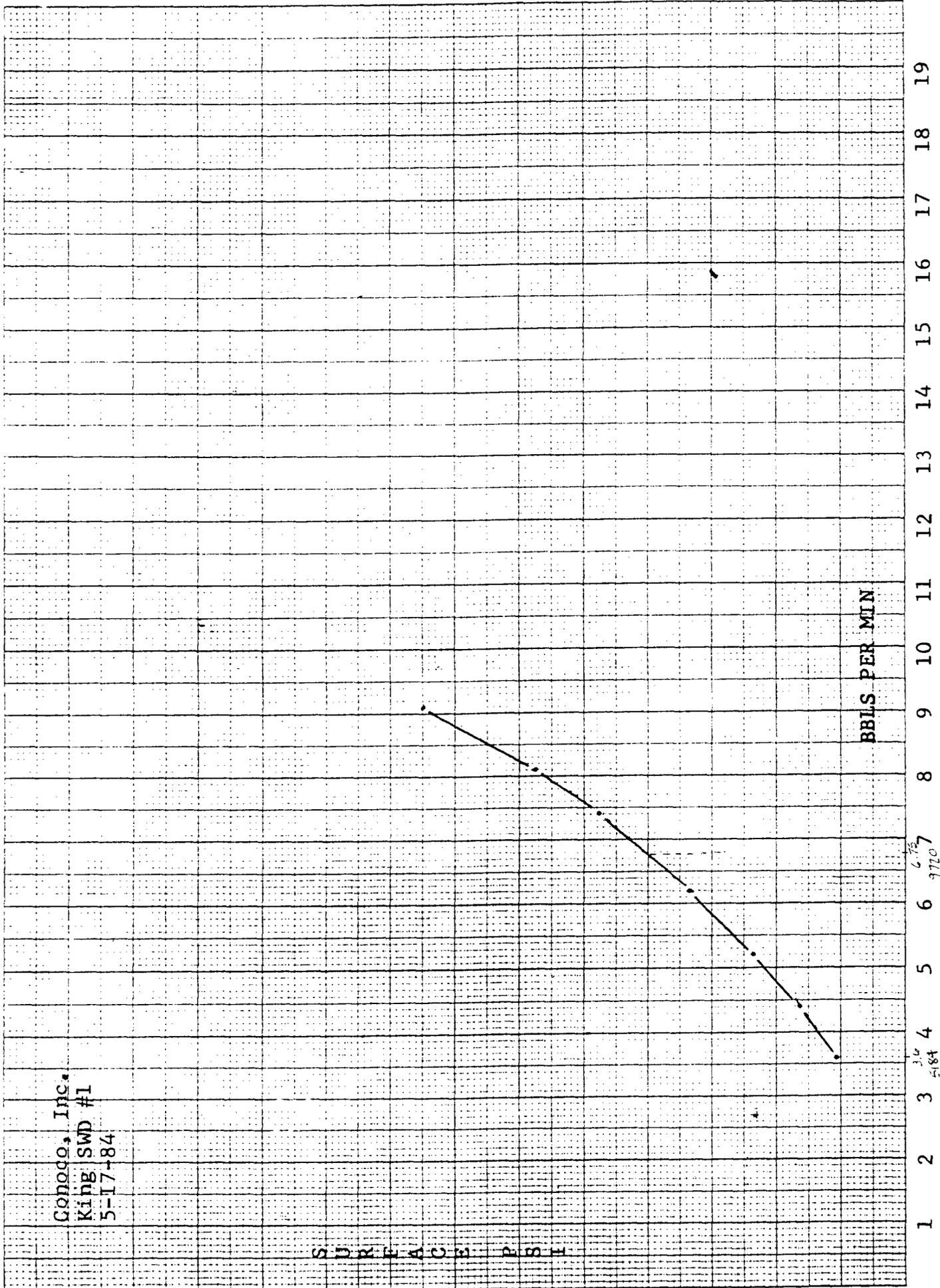
HOBBS,  
NEW MEXICO

FIELD DATA SHEET

Type Test: <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special Company: Conoco, Inc. Field: Dagger Draw Completion Date: _____ 12. Size: 5 1/2" No. 17# 13. Size: 2 7/8" No. _____ Type Completion (Describe): Salt Water Disposal Well Producing thru: _____	Reservoir: Devonian Plug Back TD: _____ Set At: 10,333' Open Hole Reservoir Temp. F: _____ Mean Ground Temp. F: _____	Test Date: 5-17-84 Elevation: 3493' Perforations: From _____ To _____ Perforations: From 10,333' To 10,555' Pecker Set At: _____ Baro. Press. - P: _____	Lease No. or Serial No.: _____ Allottee: _____ Unit: _____ Form or Lease Name: King SWD Well No.: 1 Sec. 9 Twp - Blk 20 Rpt 25 County or Parish: Eddy State: NM
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10. REPRESENTATIVE

DATE	ELAP. TIME	Well Information			surf. psi. cor friction	remarks
		Rate BPD	Surf. Psig	B.H.P.		
12:40			250	4276		Midway 10,444'
12:45	Start	3.6	250	4276		Fill @ 10,281' (IN CSS) Bombs @ 10,250' @ 12:45
12:50		3.6	525	4276		
12:55		3.6	525	4276		
1:00	15	3.6	530	4282		
1:05		4.4	805	4288		
1:10		4.4	810	4288		
1:15	30	4.4	810	4288		
1:20		5.2	1170	4295		
1:25		5.2	1175	4295		
1:30	45	5.2	1180	4295		
1:35		6.0	1620	4321		
1:40		6.0	1620	4321		
1:45	1	6.2	1670	4321		
1:50		7.3	2360	4333		
1:55		7.4	2390	4340		
2:00	15	7.4	2390	4340		
2:05		8.1	2840	4365		
2:10		8.1	2870	4365		
2:15	30	8.1	2870	4365		
2:20		9.0	3740	4391		
2:25		9.1	3750	4391		
2:30	45	9.1	3750	4391		End Test 631.0 BBLs total H2O
2:31			30	4321		
2:32			0	4269		
2:33			vac	4263		
2:34			vac	4263		
2:35			vac	4263		



• Surface Pressure  
 ○ Surface Pressure Friction Corrected

