STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

9-5-91

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Swd-451

RE: Proposed:
MC
DHC
NSL
NSP
SWD X
WFX
PMX

Gentlemen:

I have examined the application for the:

Phillips Petroleum Co. Davis N #5-N 7-8-33
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: PHILLIPS PETROLEUM COMPANY

Address: 4001 Penbrook St., Odessa, TX 79762

Contact party: Carole Stevens Phone: (915) 368-1310

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: L. M. Sanders Title Supervisor, Regulation and Proration

Signature: L M Sanders Date: Sept. 3, 1991

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Submitted 3/82 upon completion

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Received

AUG 30 1991

P.B.R. Regulatory Section

AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico, }

I, Jean M. Pettit

Bus. Manager,

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period

of one time

..... weeks

beginning with the issue dated 26th

August, 1991

and ending with the issue dated 26th

August, 1991

Jean M. Pettit
Manager

Sworn and subscribed to before me

this 26th day of

August, 1991

Notary Public

My commission expires

July 21, 1994

(Seal)

Publish August 26, 1991

LEGAL NOTICE

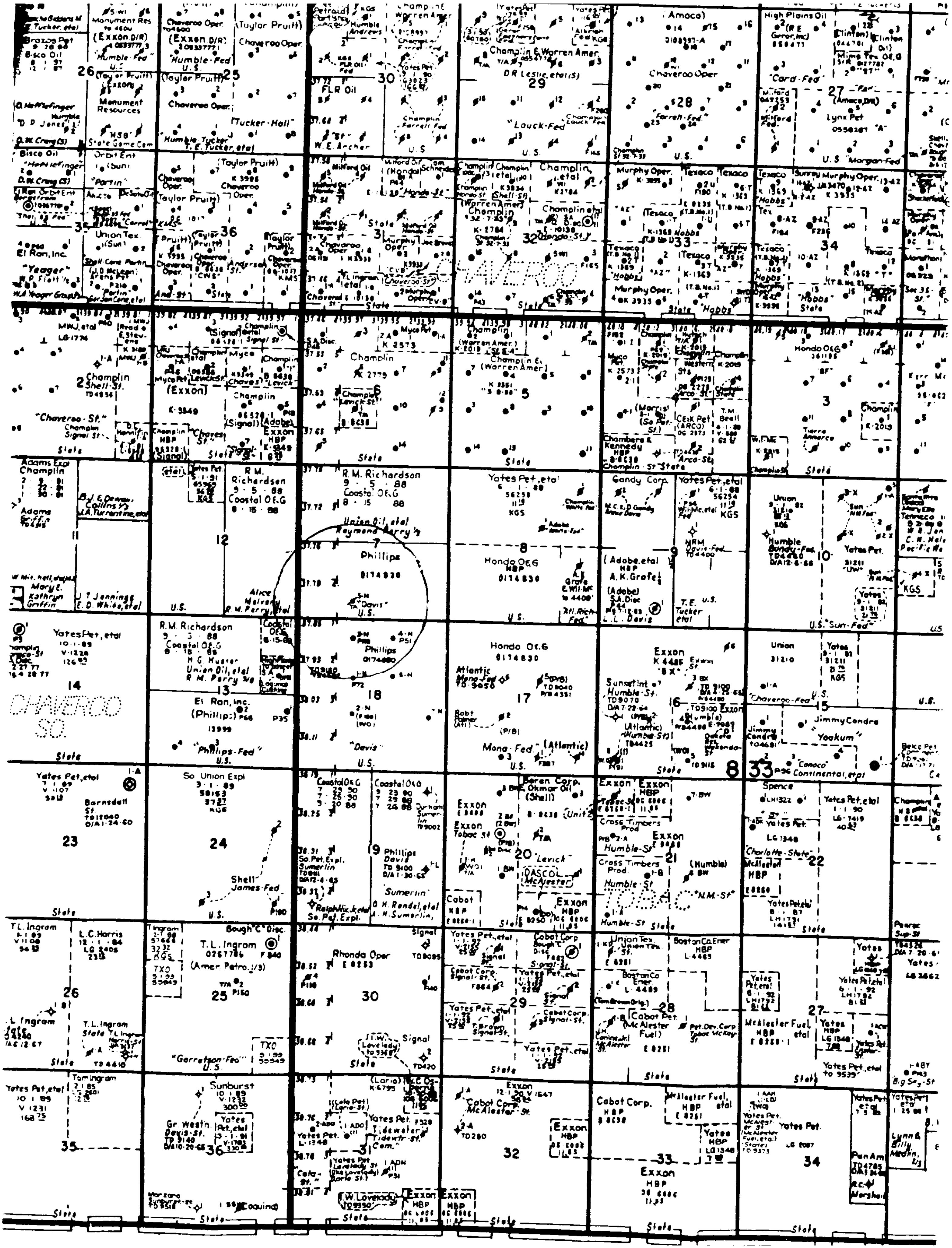
Notice is hereby given of the application of Phillips Petroleum Company, 4001 Penbrook Street, Odessa, Texas, 79762, Attention L. M. Sanders, 915/368-1488, to the Oil Conservation Division, New Mexico Energy and Mineral Department, for approval of the following disposal well authorization for the purpose of salt water disposal:

Well Name: Davis N Well No. 5
Location:
660 feet from the north line and 1980 feet from the east line, Sec. 7, T-8-S, R-33-E, Chaves County, New Mexico.

The disposal formation is San Andres at a depth of 4266'-4498' below the surface of the ground.

Expected maximum injection rate is 1000 bbls water per day and expected maximum injection pressure is 500 pounds per square inch.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501 within fifteen (15) days.



Monument Resources
Humble-Fed
Chaveroo Oper.
Tucker-Hall
State Game Com
FLR Oil
W. E. Archer
Champlin & Warren Amer.
D R Leslie, etal (S)
Louck-Fed
Amoco
Chaveroo Oper
Farrell-Fed.
High Plains Oil
Card-Fed
Lynx Pet
U.S. Morgan-Fed
Taylor Pruitt
Union Tex
El Ran, Inc.
Yeager
Champlin, etal
Champlin etal
CHAVEROO
Murphy Oper.
Texaco
Hobbs
State
Champlin
Shell-St.
Chaveroo-St.
(Exxon)
Champlin
K-2775
Champlin & (Warren Amer.)
Hondo O&G
Arco-St
Kennedy
R. M. Richardson
9 - 5 - 88
Coastal O&G
8 - 15 - 88
Yates Pet, etal
Gandy Corp.
Union Oil, etal
Raymond Perry 1/2
Phillips
0174830
Davis
Hondo O&G
A. K. Grafe
Humble
Bondy-Fed.
Yates Pet.
U.S. Sun-Fed
Union Oil, etal
R. M. Perry 3/8
CHAVEROO SO.
El Ran, Inc.
(Phillips)
Phillips-Fed
Hondo O&G
0174830
Mono-Fed.
(Atlantic)
Exxon
Humble-St.
Jimmy Condra
Yoakum
Conoco
Continental, etal
Yates Pet, etal
So Union Expl
Barnsdall St.
Shell
James-Fed
Coastal O&G
Phillips
Davis
Sumerlin
Exxon
Toboc St
Levick
DASCO
McAlester
Cross Timbers Prod.
Humble-St
N.M.-St
Spence
Yates Pet.
Charlotte-State
T. L. Ingram
L. C. Harris
T. L. Ingram
0257786
(Amer. Petro. 1/3)
Garretson-Fed
Rhonda Oper
Signal
Cabot Corp
Yates Pet, etal
Boston Co Ener
Cabot Pet
McAlester Fuel
McAlester Fuel, etal
Yates Pet, etal
Sunburst
Gr. Westn
Davis-St.
Yates Pet, etal
Yates Pet.
Tidewater
Cabot Corp.
McAlester-St.
Exxon
HBP
Cabot Corp.
McAlester Fuel, etal
Yates Pet.
PanAm
T. W. Lovelady
Big Sky-St

DAVIS N #5
660' FSL & 1980' FNL
Section 7, T8S, R33E
Chaves County, New Mexico

Application For Authorization To Inject
Wells of Public Record within the Area of Review

Well Name	Type	Date	Location	Depth Drilled
Davis N #1	Oil	3/68	1980'FNL & FWL Sec. 18, T8S, R33E	9150' TD 4590' PTD
Davis N #3	Oil	2/76	660' FNL & 1980' FWL Sec. 18, T8S, R33E	4540' TD 4503' PTD
Davis N #4	Oil	4/82	660' FNL & 1980' FEL Sec. 18, T8S, R33E	4620' TD 4550' PTD

Proposed Operation
1. Average Rate = 500 BWPD
   Maximum Rate = 1000 BWPD
2. Closed system
3. Average Injection Pressure = 350 psi
   Maximum Injection Pressure = 500 psi

Geological Data
Lithology: Dolomite
Geological Name: San Andres
Thickness: 1,000 '
Depth: 3608'-4600'

Water
Underground sources of drinking water
There are no fresh water wells within a mile radius of this well. No chemical analysis included.

The overlying drinking water source is the Ogallala at 140'-150'. There are no known underlying drinking water sources.

DAVIS N WELL NO.5
Recommended Procedure
April 24,1991

Safe operations are of utmost importance at all Phillips Petroleum Company properties and facilities. To further this goal, the Phillips Supervisor at the location shall request tailgate safety meetings prior to initiation of work and also prior to any critical operations. These tailgate safety meetings shall be attended by all Company, contract, and service personnel then present at the location. All parties shall review proposed upcoming steps, procedures, and potentially hazardous situations. Occurrence of these meetings shall be recorded in the Daily Report.

1. MI and RU DDU. GIH with SL and check TD at 4527'. Clean out as necessary.

2. RU HALLIBURTON LOGGING SERVICES to perforate 4-1/2" casing with a 3-1/8" casing gun, 2 SPF over the following intervals:

DEPTH	FEET	SHOTS
4352'-4356'	4'	8
4360'-4368'	8'	16
4373'	1'	2
4380'	1'	2
4386'	1'	2
4434'-4436'	2'	4
4442'-4448'	6'	12
4452'	1'	2
TOTAL	25'	50 shots

Collars are located at: 4198', 4237+, 4277+, 4316', 4352', 4389',4427',4466'.

3. GIH with treating packer on 2-3/8" workstring. Set packer at 4210'. Load annulus with lease produced water. Maintain 500 psi on annulus during treatment. Pump 160 gallons xylene and 160 gallons Unichem TS 165. Displace with 17 bbls. lease produced water. SION. Swab back load.

4. RU CHARGER to treat perforated interval (4268'-4498') down 2-3/8" workstring with 2000 gallons 15% NEFE HCl acid and 600 gallons 10# brine with 600 lbs. rock salt as follows:

a. Test all lines to 3000 psi.
b. Pump 600 gallons acid at 4 BPM.
c. Pump 300 gallons 10# brine with 300 lbs rock salt.
d. Pump 700 gallons acid.
e. Pump 300 gallons 10# brine with 300 lbs. rock salt.
f. Pump 700 gallons acid.
g. Displace with 25 bbls. produced water.

Max. Treating Pressure = 2500 psi Max. Treating Rate = 4 BPM

5. Swab back load.

6. COOH with workstring and packer.

I, Scott C. Balke, have reviewed the the available geologic and engineering data and find no evidence of any open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Scott C. Balke

DAVIS "N" #5
660' FSL & 1980" FNL
SECTION 7, T8S, R33E
Chaves County, New Mexico

WELL DATA

(A)

Casings: 8-5/8", 24#, K-55, set at 614', in a 12-1/4" hole
Cemented with 400 sks. Cement circulated to surface.

4-1/2", 10.5#, K-55, set at 4600', in a 7-7/8 hole
Cemented with 1245 sks. TOC at 1260' from temp. survey

Tubing to be Used: 2-3/8", 4.7#, J-55, with TK-70 or equivalent plastic coating

Packer Type to be Used: Baker LOC-SET packer or equivalent to be set at +/- 4160'

(B)

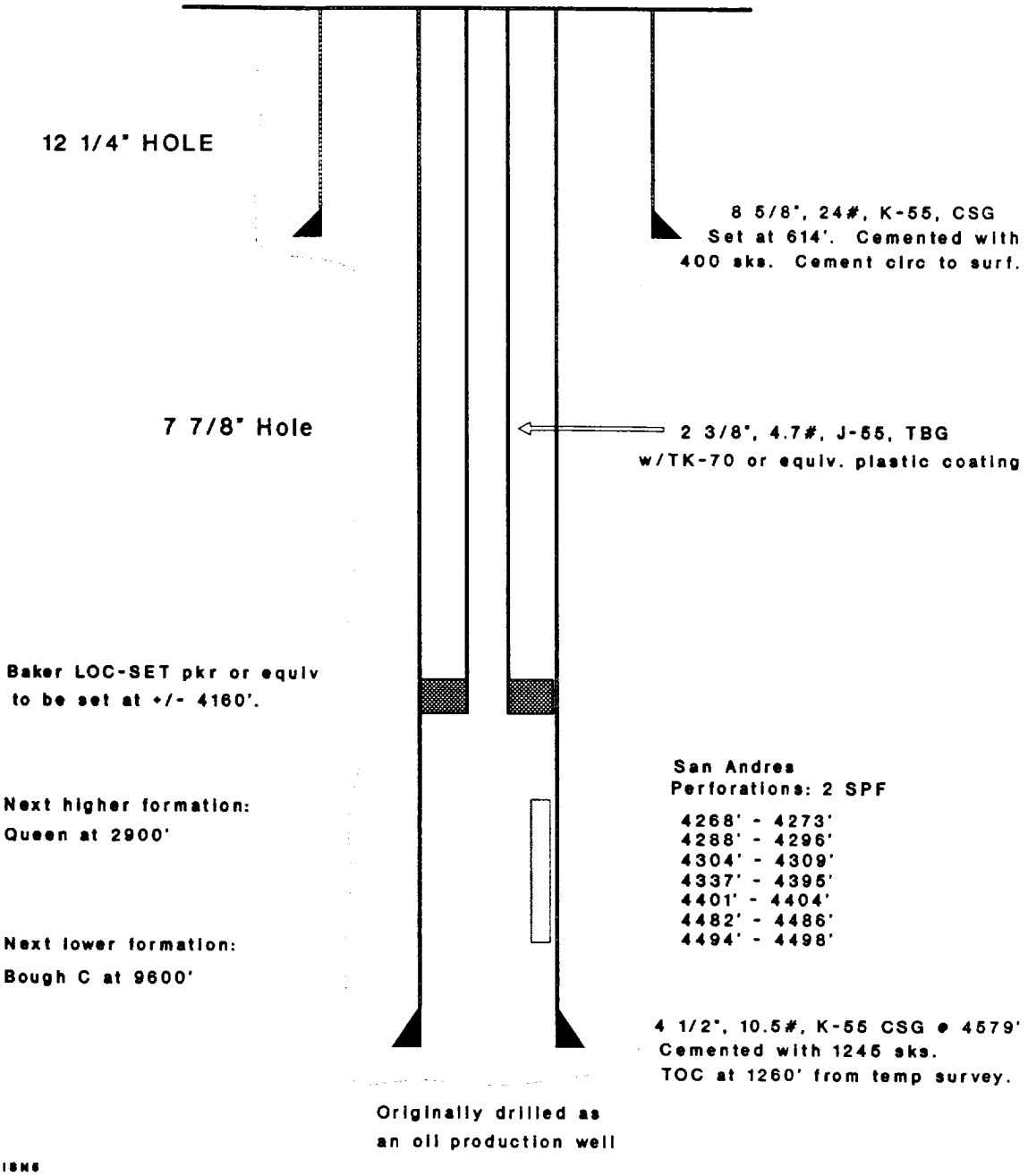
Injection Formation: San Andres
Field/Pool Name: Chaveroo San Andres
Injection Interval: Perforated 4268'-4498'
Original Well Purpose: Production
Other Intervals: Not open in this well
Next Higher Oil & Gas Zone: Queen Formation at 2900'
Next Lower Oil & Gas Zone: Bough C-Penn at 9600'

DAVIS "N" #5

660' FNL & 1980' FEL

SECTION 7, T8S, R33E

San Andres Chavaroo (SA) Field



RLB:DAVISN6

PHILLIPS PETROLEUM COMPANY
ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP
Permian Basin Region

DAVIS N WELL NO. 5

OFFSET OPERATORS:

High Plains Oil Co.
P.O. Box 141
Tatum, NM 88267

UNLEASED OFFSETS:

Estate of Harry G. Houston
c/o Alice H. Cushing
1605 Bayita Lane, NM
Alburquerque, NM 87107

SURFACE LAND OWNER:

Bureau of Land Management
P.O. Box 1857
Roswell, NM 88201

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM-0174830

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: Davis-N

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: Chaveroo San Andres (PRO)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 18, 8-S, 33-E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: Room 401, 4001 Penbrook, Odessa, Texas 79762

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 660' FN and 1980' FE lines
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO.: ---
DATE ISSUED: 1-22-82

12. COUNTY OR PARISH: Chaves
13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-15-82	3-7-82	4-21-82	4449 DF, 4450' KB	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
4620	4550		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Chaveroo/San Andres Top: 3600'; Btm: 4620'
(4253-4532')

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DLL-Rxo-GR-Cal, CNS-CDL-GR-Cal, CNS-GR-Cal

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, K-55	604'	12-1/4"	400 sx Class "C"	
4-1/2"	10.5#, K-55	4620	7-7/8"	1600 sx TLW & 225 sx Class "C"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	4527'	

31. PERFORATION RECORD (*Interval, size and number*)
Perfd 4-1/2" csg w/2 JSPF as follows:

4253'-4276' 4327'-4332' 4526'-4532'
4278'-4285' 4357'-4366'
4299'-4304' 4385'-4388'
4306'-4313' 4459'-4473'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4253'-4532'	Trtd w/7000 gals NEFE HCl w/1 ball sealer/bbl (166 balls)

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4-25-82	2" x 1-1/2" x 16' insert pump	producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-29-82	24	---		51	39	86	759

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
---	---		---	---	---	32.8

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Sold

TEST WITNESSED BY: D. Thorp

35. LIST OF ATTACHMENTS
Logs to be furnished direct by Gearhart.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. J. Mueller TITLE Sr. Engineering Specialist DATE May 5, 1982

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Surface	0	610'	
Salt & Anhy	610'	1391'	
Redbeds	1391'	1890'	
Salt & Anhy	1890'	3197'	
Dolo & Shale	3197'	4393'	
Lime, Shale	4393'	4550'	
Dolo, Lime, Shale	4550'	4595'	
Lime, Dolo	4595'	4620	
TD	4620'		

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Rustler	1804'	
Yates	2343'	
Queen	2856'	
San Andres	3600'	
Pi	4083	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.: NM 0174830

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Davis-N

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT: Undesignated San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 18, T-8-S, R-33-E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: Room 711, Phillips Bldg., Odessa, Texas 79761

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: Unit C, 660' FN & 1980' FW lines
At top prod. interval reported below: Same
At total depth:

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
-	1-28-76	Chaves	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-5-76	2-13-76	2-19-76	4430' Gr., 4438' RKB	-

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
4540	4503	-	→	0-4540	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: San Andres = top 3530, bottom 4503'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Schlumberger
BHC-Sonic-GR Caliper-dual latrolog

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	28.55# X-42	400'	12¼"	(400 sx Class H w/2% CaCl2 & ¼# Celloflakes/sx	Circ 100 sx) -
4-1/2"	11.6# K-55	4540'	7-7/8"	(300 sx TRLW w/10% DD, 7½# salt/sx & 300 sx Class H neat. Temp survey TOC at 2675')	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	4157	-

31. PERFORATION RECORD (*Interval, size and number*)
One jet shot per foot 4240-56', 4262-66', 4274-84', 4289-94', total 35', 35 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4240-94'	2000 gals 15% NE HCL acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
2-21-76	Insert pump 2" x 1½ x 16'	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-27-76	24	-		110	44	2	402

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-	-		-	-	-	35.5

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: E. T. Millhollon

35. LIST OF ATTACHMENTS: Logs as above were furnished direct by Schlumberger

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. J. Mueller TITLE Engineering Advisor DATE 3-2-76

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

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Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Caliche, sand, surface	0	400		Rustler	1795	
Redbeds	400	740		Yates	2342	
Redbeds, salt	740	1925		Queen	2852	
Anhydrite, salt	1925	3260		San Andres	3530	
Anhydrite	3260	3533		Pr Zone	4082	
Anhydrite, lime	3533	4540				

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Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM0174830

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: —

7. UNIT AGREEMENT NAME: —

8. FARM OR LEASE NAME: Davis "H"

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Tobac (Penn)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 18, T-8-S, R-33-E

12. COUNTY OR PARISH: Chaves

13. STATE: New Mexico

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: Room B-2, Phillips Building, Odessa, Texas

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FN and W lines
At top prod. interval reported below
At total depth

14. PERMIT NO.: —
DATE ISSUED: 1-30-68

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-7-68	3-19-68	3-28-68	4434' Gr; 4447' DF	—

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
9150	9109	—	→	0-9150	—

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 8909-19'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Laterlog, Microlaterlog, Sonic GR

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	408'	17-1/2"	450 sx Class H, Circ. to surf.	—
8-5/8"	24#, 32#	4820'	11"	750 sx Trinity LW, 700 sx "H", TOC 2100'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5-1/2"	4602'	9144'	400 Trinity (Incor)	—

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	8955'	8825

31. PERFORATION RECORD (*Interval, size and number*)

2 - 1/2" holes/ft. (20 holes)

8909-19'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8909-19	2000 gals 10% NeA acid
8909-19	1000 gals 3% NE acid
	5000 gals 15% NE acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
3-31-68	Flowing	producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-23-68	24	1/2"	→	162	355	5 BAW	2189

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
110	pkr	→	—	—	—	45.2

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented - to be connected

TEST WITNESSED BY: B. W. M

35. LIST OF ATTACHMENTS: Deviation record; DST and Core data sheet

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available reco

SIGNED R. J. Stringer TITLE Assoc. Reservoir Engineer DATE —

*(See Instructions and Spaces for Additional Data on Reverse Side)

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FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Surface Sand, Caliche	0	90'	See core and DST detail sheet, attached
Sand, Redbeds	90'	410'	
Redbeds	410	742	
Redbeds, Anhy, Salt	742	2160'	
Anhy, Salt	2160	3290'	
Anhydrite	3290	3938'	
Anhy, Lime	3938	4029'	
Lime	4029	4820'	
Sand, Lime	4820	5263'	
Lime	5263	7317'	
Lime, Shale	7317'	7953'	
Lime	7953	8246'	
Lime, Shale	8246	8313'	
Lime, Chert	8313	8324'	
Lime	8324	8865'	
Lime, Shale	8865	8938'	
Lime	8938	9052	
Lime, Shale	9052	9150'	

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Glorieta	4927	-478
Tubb	6393	-1944
Abo	7244	-2795
3 Brothers	8648'	-4199
Bough B	8839	-4390
Bough C	8902	-4453

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