WFX-500

Southland Royalty Company

RECEIVED
MAY 20 1982
OIL CONSERVATION DIVISION
SANTA FE

ok w/ Artesia

May 6, 1982

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Dan Nutter

Dear Mr. Nutter:

Southland Royalty respectfully submits a revised procedure to convert the Dexter Federal "15" No. 1 from an inactive oil well to an active water injection well. The subject well is located 1650' FSL and 1650' FEL of Section 15, T-17-S, R-30-E, Eddy County, New Mexico.

Recently Southland Royalty applied for authority to convert the subject well to an injection well. Mr. Roy Johnson, of your office, requested that we take steps to insure that the Yates and Seven Rivers zones are protected from possible future communication during our waterflood operations in this well. As you will notice, our revised procedure includes steps to circulate cement behind the section of 4 1/2" casing which is presently unprotected by a cement sheath.

Please include the attached Form 9-331 in your review of our previous application to convert the subject well to an active water injection well. Should you require further information please do not hesitate to let us know.

Sincerely,

K. W. Harbin
District Production Manager

DDR/slh

Attachment

cc: Mr. W. A. Gressett
NMOCD, Artesia

Mr. James A. Gillham
Minerals Management Service, Roswell

Hobbs Dist.

7-26-82
Parting pressure @ 1700 PSI
↳ will write letter stating Facts.

called on 6-25-82, call again on July 6th
7-12-82 - will run step rate test, witness by O.C.D., Test will dictate psi. order to be written w/ J. Sextons' approval.
R. S.

Southland Royalty Company

June 14, 1982

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

ca & Jerry + file

Attn: Mr. Joe Ramey

Gentlemen:

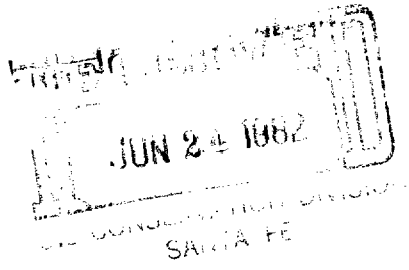
Southland Royalty Company respectfully requests authority to convert the Malmar Unit Well, Tr 1, #1 (13-1) from a producing oil well to an active water injection well. The subject well is located 660' FNL and 660' FEL of Section 13, T-17-S, R-32-E, Lea County, New Mexico. Conversion of this well will be a first step in our plans to develop the Malmar Unit on 20 acre spacing.

A-

The proposed average daily injection rate into this closed system well is 275 barrels of fresh water per day. Proposed average injection pressure is 2,500 psi surface pressure, with a maximum of 2800 psi. Injection will be confined to the Grayburg and San Andres producing zones.

Yucca water company in Artesia operates 8 Ogallala aquifer fresh water supply wells in the area. A table is attached giving the location of those wells. Southland Royalty purchases fresh water for this waterflood from Yucca and a chemical analysis of this water is attached. There are two inactive fresh water wells (shown on area of review map) believed to be completed in the Ogallala, however, samples could not be obtained from these wells.

During recompletion, we plan to acidize with 500 gallons of 15% Hydrochloric and overflush before placing the well on injection. This application is consistent with operations being conducted on the Malmar Unit and administrative approval is requested.



Sincerely,

K. W. Harbin
District Production Manager

DMD/mc

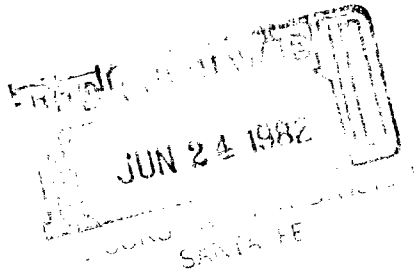
Attachment

1100 WALL TOWERS WEST (915) 682-8641 MIDLAND, TEXAS 79701

686-5600

YUCCA WATER COMPANY
LEA COUNTY NEW MEXICO
WATER WELLS

WELL NO	STATUS	FILE NO.	LOCATION
1	Inactive	L-3599	NW NW NW 28-16S-33E
3	Inactive	L-3598-X	NE NE NE 5-17S-33E
5	Active	L-3406	SE SW 30-16S-33E
6	Inactive	L-3405	NW NW NE 25-16S-32E
7	Active	L-3598	NW NW NW 6-17S-33E
8	Inactive	L-3599-X2	NW NW NW 34-16S-33E
9	Inactive	L-3599-X	SE SE SE 33-16S-33E
10	Inactive	L-3599-X3	NE NE NE 27-16S-33E



-David Dale
Southland Royalty Company
11-81

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

RECEIVED
JUN 24 1982
OIL CONSERVATION DIVISION
SANTA FE

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Southland Royalty Company

Address: 1100 Wall Towers West Midland, Texas 79701

Contact party: Ken W. Harbin Phone: (915) 682-8641

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? [X] yes [ ] no
If yes, give the Division order number authorizing the project R 2155.

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: Ken W. Harbin Title District Production Manager

Signature: Ken W. Harbin Date:

* 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.

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;

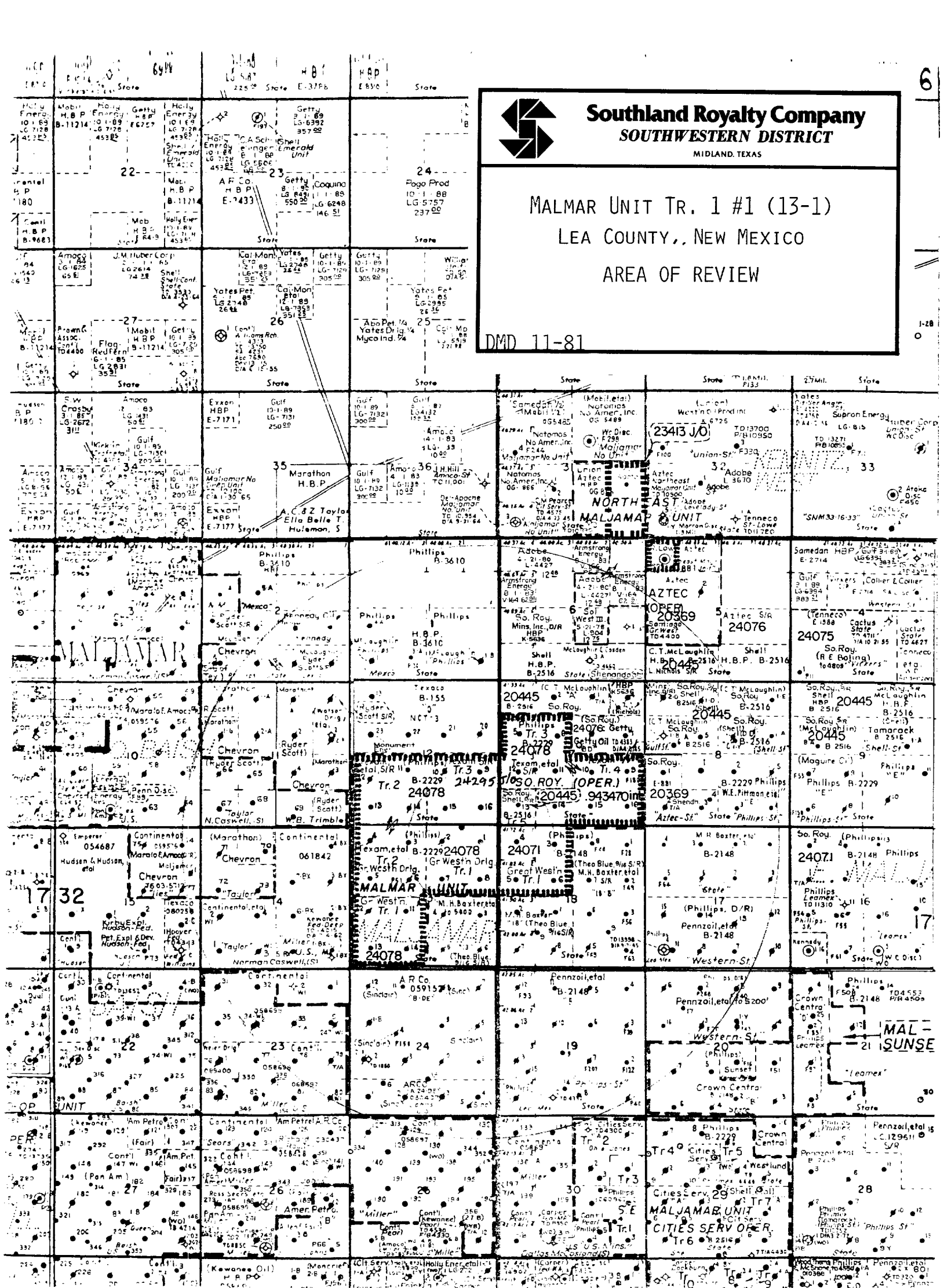
(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:

(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.


Southland Royalty Company
SOUTHWESTERN DISTRICT
MIDLAND, TEXAS
MALMAR UNIT TR. 1 #1 (13-1)
LEA COUNTY,, NEW MEXICO
AREA OF REVIEW
DMD 11-81
MALJAMAR UNIT
NORTH EAST MALJAMAR UNIT
MALMAR UNIT
MAL-SUNSE
CITIES SERV OPER.
AZTEC (OPER) 20369
24078
24075
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20445
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24295
Marathon H.B.P.
Phillips H.B.P. B-3610
Chevron
Continental
Pennzoil,etal
Cities Serv.
Crown Central
Phillips
Getty
Mobil H.B.P.
Amoco
Gulf
Exxon H.B.P. E-7177
Pogo Prod
Yates
Supron Energy
Samedan H.B.P. E-2714
Tenneco
Cactus State
Collier E Collier
Western-St
Phillips "E"
Tamarack
Leamex
Sunset
Crown Central
Pennzoil,etal B-2148
Phillips B-2229
Phillips B-2148
Phillips B-214H
Phillips B-2516
Shell H.B.P. B-2516
So. Roy.
Mins. Inc. D/R HBP K-5636
Armstrong Energy
Adobe
Aztec
Union-St
Lovelady-St
Monument
Taylor
Miller
Jones
Ryder (Scott)
Hyder (Scott S/R)
Kennedy
Mexico
Penn O.&G.
Hudson & Hudson, etal
Kirby Expl. Hudson-Fed.
Pet. Expl. & Dev. Hudson-Fed.
Hoover Fed.
Kewanee Fed. Deep
Kewanee Oil
Am Petro
Amer. Petro.
Pan Am
Sears
Fair
Ross Sears
Cont'l
Carper
Carlos McCasland (S)
Mobil,etal
Natomas No. Amer. Inc.
Maljamar No Unit
Union Aztec
Westn Oil Prod Inc
Lovelady-St
Tenneco
Adobe
Aztec Northeast Maljamar Unit
Armstrong Energy
Sol West III
Lovelady-St
Shenandoah
Texaco
Getty Oil
Texam,etal
Gr Westn Drlg.
Great Westn
M.H. Baxter,etal
M.W.E. Pittman,etal
Pennzoil,etal
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Western-St
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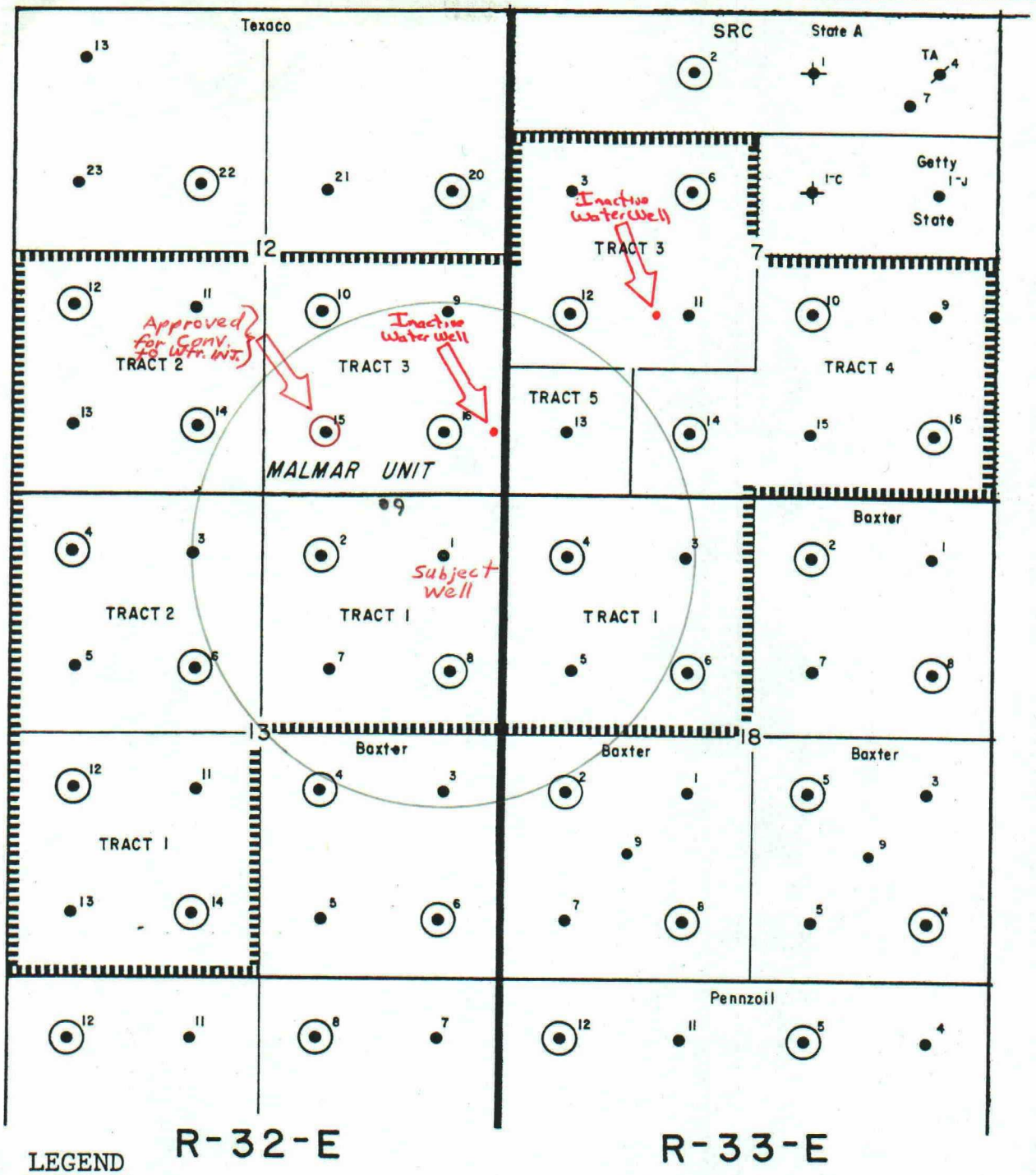
Tr 997
Tr 998
Tr 999
Tr 1000



LEGEND

- WATERFLOOD BOUNDARY
- INJECTION WELL
- PRODUCING WELL
- PROPOSED LOCATION
- SHUT-IN WELL

SCALE

0 1/2 1 Mile

NOTE:

Waterflood was unitized under Commission order no. R-2155. All wells in the unit area are producing from the Maljamar Grayburg-San Andres Pool.

Southland Royalty Company

MIDLAND, TEXAS

NORTHEAST MALJAMAR

LEA COUNTY, NEW MEXICO

11/81
DMD

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

MAY 20 1982

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: LC-029020L

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [XX] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Southland Royalty Company

8. FARM OR LEASE NAME: Dexter Federal "15"

3. ADDRESS OF OPERATOR: 1100 Wall Towers West, Midland, Texas 79701

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1650' FSL & 1650' FEL, Sec. 15, T-17-S, R-30-E

10. FIELD AND POOL, OR WILDCAT: Grayburg Jackson (SR-Q-GB-SA)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 15, T-17-S, R-30-E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3697' DF

12. COUNTY OR PARISH: Eddy

13. STATE: N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]

(Other) Revised procedure to Convert to Injection

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

17. 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.) *

1. MIRU CU, install BOP, RIH w/3 7/8" bit & csg scraper on 2 3/8" WS to PBTD (± 3511) circulate hole clean. POOH.
2. RIH w/COBP on wireline and set @ 1665', test csg to 2000 psi.
3. If no csg leak exists, perf w/4 way SQZ gun @ 1650'
4. RIH w/cement retainer on WL and set @ 1630'.
5. RIH w/WS and sting into retainer. Attempt to break circulation with brine water. Circulate cement (Use lite cmt w/18# salt per sk followed by Cl "C" neat w/2% $CaCl_2$). We must displace cement up to a minimum of 1125' (base of salt). Sting out of retainer and reverse out.
6. RIH w/bit & DC on work string and drill out to PBTD, POOH. Run temp survey.
7. Perf Premier 2860'-78' & Metex 2747-52', 1 JSPF, 25 holes, w/ 3 5/8" csg guns per Welex Radioactivity Log dated 4/8/60.
8. RIH w/RBP & pkr on 2 3/8 WS. Set RBP @ ± 2950', pkr @ ± 2650'. Pressure up backside to 500 psi.
9. B. J. Hughes acdz perfs @ 2747'-2878' w/2500 gal 15% NEHCl dropping 6 RCNB every 10 bbl of acid pumped. Flush w/18 bbl lease water. Swab back load. Retrieve RBP and POOH.
10. RIH w/plastic coated Baker Mod A-2 Loc-Set pkr on 2 3/8" plastic coated tbg to ± 2700'. Load backside w/30 bbls treated fresh water. Set pkr.
11. RD CU. Place well on injection.

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

SIGNED [signature] TITLE District Operations Engineer DATE 5/7/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

WELLS IN AREA OF REVIEW - MALMAR UNIT TR. 1 #1 (13-1)

WELL NAME & NO.	TYPE	G-SA INTERVAL	CASING SIZE	CASING DEPTH	CEMENT SACKS	CEMENT TOC	DATE DRILLED	LOCATION	LEA COUNTY	TD/PBD
Malmar Unit Tr. 1 #2 (13-2)	WI	4161-4436'	8 5/8"	307	250	CIRC	11-12-59	1980'FEL, 660'FNL	13-17S-32E	4439
			5 1/2"	4439	300	NA				
Malmar Unit Tr. 1 #3 (18-3)	OIL	4178-4535'	8 5/8"	310	250	NA	10-25-59	1980'FWL, 660'FNL	18-17S-33E	4581
			5 1/2"	4581	300	NA				
Malmar Unit Tr. 1 #4 (18-4)	WI	4191-4367'	8 5/8"	301	250	NA	11-02-59	660'FNL, 660'FWL	18-17S-33E	4466
			5 1/2"	4466	300	NA				
Malmar Unit Tr. 1 #5 (18-5)	OIL	4218-4376	8 5/8"	313	250	NA	11-12-59	1980'FNL, 660'FWL	18-17S-33E	4520
			5 1/2"	4520	300	NA				
Malmar Unit Tr. 1 #7 (13-7)	OIL	4117-4371	8 5/8"	325	250	NA	9-09-59	1980'FEL, 1980'FNL	13-17S-32E	4433
			5 1/2"	4433	300	NA				
Malmar Unit Tr. 1 #8 (13-8)	WI	4138-4172'	8 5/8"	325	250	NA	9-23-59	1980'FNL, 660'FEL	13-17S-32E	4454
			5 1/2"	4454	300	NA				
Malmar Unit Tr. 1 #9 (13-9)	OIL	4243-4472'	8 5/8"	978	550	CIRC	2-23-81	1340'FEL, 20'FNL	13-17S-32E	4550
			5 1/2"	4550	2615	CIRC				
Malmar Unit Tr. 2 #3 (13-3)	OIL	4110-4276'	8 5/8"	302	250	CIRC	12-18-59	1980'FWL, 660'FNL	13-17S-32E	4450/4423
			5 1/2"	4445	300	3000				
Malmar Unit Tr. 3 #9 (12-9)	OIL	4167-4271	8 5/8"	305	250	CIRC	12-28-59	660'FEL, 1980'FSL	12-17S-32E	4520/4496
			5 1/2"	4496	300	3118				
Malmar Unit Tr. 3 #15 (12-15)	OIL	4189-4488'	8 5/8"	309	250	NA	7-14-59	1980'FEL, 660'FSL	12-17-32	4776/4755
			5 1/2"	4755	300	NA				

11-81
DMD

WELLS IN AREA OF REVIEW - MALMAR UNIT TR. 1 #1 (13-1) (cont.)

WELL NAME & NO.	TYPE	G-SA INTERVAL	CASING SIZE	CASING DEPTH	CEMENT SACKS	CEMENT TOC	DATE DRILLED	LOCATION
Malmar Unit Tr. 3 #16 (12-16)	WI	4129-4433'	8 5/8"	NA	NA	NA	6-59	660'FSL, 660'
			5 1/2"	4693	NA	NA		
Malmar Unit Tr. 5 #13 (7-13)	OIL	4139-4488'	8 5/8"	306	275	CIRC	12-03-59	660'FSL, 660'
			5 1/2"	4527	200	NA		
Murphy H. Baxter State 13 #3	OIL	4068-4429'	8 5/8"	171	150	NA	5-05-59	1980'FSL, 660'
			5 1/2"	4415	150	NA		

SRC
11-81
DMD

RECORD OF DRILL-STEM AND SPECIAL TE[illegible]

Malmar Unit Tr 1 #1 (13-1)

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to TD feet, and from ..... feet to ..... feet.

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

PRODUCTION

Put to Producing 10-26-59, 19.....

OIL WELL: The production during the first 24 hours was 50 barrels of liquid of which 100 % was was oil; 0 % was emulsion; 0 % water; and 0 % was sediment. A.P.I. Gravity 35

GAS WELL: The production during the first 24 hours was ..... M.C.F. plus ..... barrels of liquid Hydrocarbon. Shut in Pressure ..... lbs.

Length of Time Shut in none

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico		Northwestern New Mexico	
T. Anhy	1,159	T. Devonian		T. Ojo Alamo	
T. Salt	1,243	T. Silurian		T. Kirtland-Fruitland	
B. Salt	2,427	T. Montoya		T. Farmington	
T. Yates	3,453	T. Simpson		T. Pictured Cliffs	
T. 7 Rivers	not picked	T. McKee		T. Menefee	
T. Queen	3,449	T. Ellenburger		T. Point Lookout	
T. Grayburg	3,998	T. Gr. Wash		T. Mancos	
T. San Andres	4,161	T. Granite		T. Dakota	
T. Glorieta		T.		T. Morrison	
T. Drinkard		T.		T. Penn	
T. Tubbs		T.		T.	
T. Abo		T.		T.	
T. Penn		T.		T.	
T. Miss		T.		T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	248	248	Sand & caliche				
248	1159	=911	Red Bed				
1159	1243	84	Anhydrite				
1243	2427	1148	Salt				
2427	3453	1026	Sand & anhydrite				
3453	3998	544	Sand				
3998	4455	457	Dolomite				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

October 27, 1959
(Date)

Company or Operator Santiago Oil & Gas Company

Address P. O. Box 1663, Midland, Texas

Name .....

Position or Title Secretary-Treasurer

Malmar
Unit
Tr 1 #1
(13-1)

Simultaneous

Radiation Log

22215	
HOBBS	
GR-34	
COMPANY	SANTIAGO OIL & GAS COMPANY
WELL	FIELDER TRUST # 11
FIELD	ROBERTS
COUNTY STATE	LEA NEW MEXICO
LOCATION	660'FNL & 660' FEL, SEC. 13, TWSP. 17-S, RANGE 32-E
LOG MEAS. FROM	9' ABV.G.L. ELEV. [illegible]
DRLG. MEAS. FROM	" " " ELEV.
PERMANENT DATUM	GROUND LEVEL ELEV. 4160.4

WELL: FIELDER TRUST # 11 — FIELD: ROBERTS — COUNTY: LEA — STATE: NEW MEXICO

CASING RECORD SIZE "-WT. #	FROM	TO	BORE HOLE RECORD BIT SIZE-"	FROM	TO
5 1/2	SURF.	4422	7 7/8		

REMARKS:

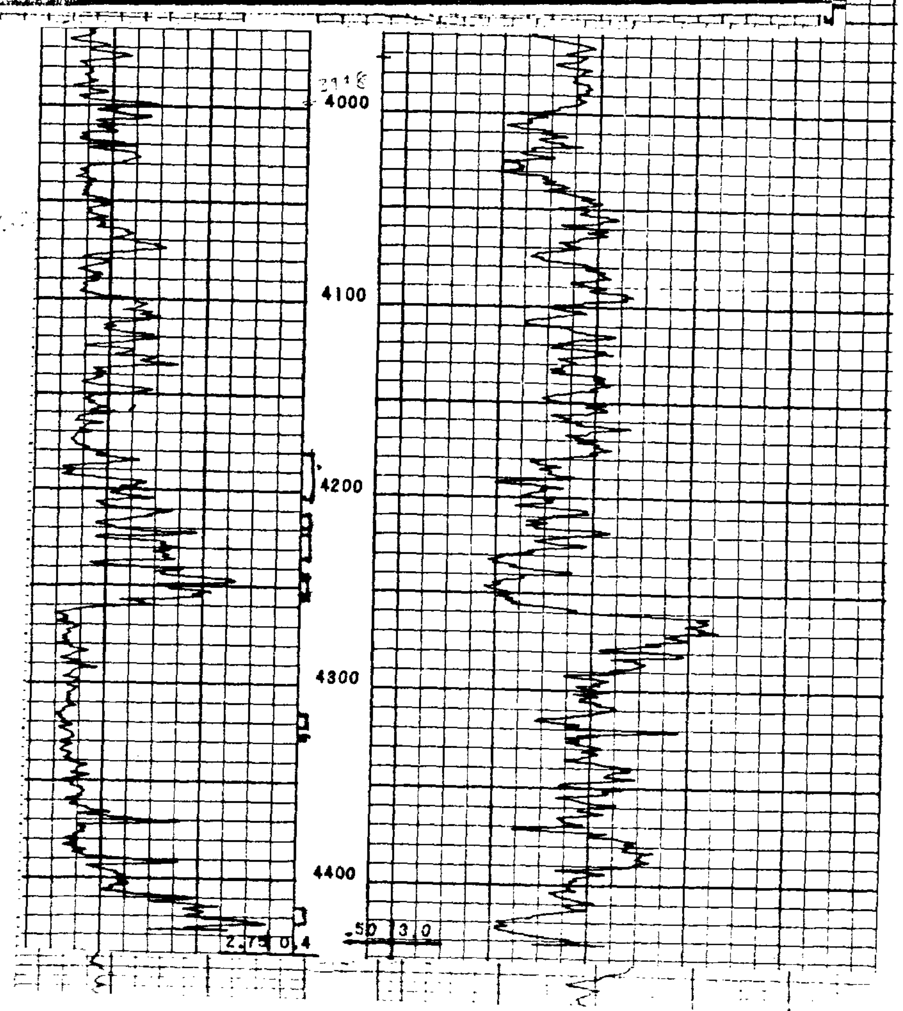
TYPE OF LOG	GAMMA RAY-NEUTRON
RUN NO.	ONE
DATE	10-21-59
TOTAL DEPTH - DRILLER	4431
TOTAL DEPTH - P.G.A.C.	4432
FLUID IN HOLE	OIL
FLUID LEVEL	FULL
MAX. TEMPERATURE °F.	-
INSTRUMENT O.D. AND NO.	3 5/8 #249
COUNTER TYPE	TA-PH-125
NEUTRON SOURCE TYPE	RB-600
STD. FOR CALIB. STD. - GR	90
- N	200
0' R SEN. /100 SMU	200
RECORDED BY	A. FUQUA
WITNESSED BY	

RECORDED INTERVAL RECORD

RUN	FROM FT.	TO FT.	SPEED '/MIN.	GAMMA-RAY SENSITIVITY RECD'R	GAMMA-RAY SCALE "/μr/hr	T.C. SEC.	NEUTRON SENSITIVITY RECD'R	NEUTRON SCALE "/100 SMU	T.C. SEC.
	4000	SURF.	60	70	0.4	2	150	3.0	2
	4431	4000	15	"	"	4	"	"	4
	"	"	"	"	"	"	"	"	"

ZERO AND SCALE DESIG.

REMARKS: INSTRUMENT RUN FREE.



DMD

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : SOUTHLAND ROYALTY
DATE : 10-30-81
FIELD,LEASE&WELL : MAL MAR FRESH
SAMPLING POINT:
DATE SAMPLED : 10-26-81

Purchased Fresh Water
Used for Injection on the Malmar Unit
Produced from Yucca Water Wells

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 261
PH = 7.7

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	2.8	56.1
MAGNESIUM	(MG)+2	.6	7.2
SODIUM	(NA),CALC.	.29	6.7
ANIONS			
BICARBONATE	(HCO3)-1	2.1	131.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.41	20
CHLORIDES	(CL)-1	1.1	39.9
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		1
BARIUM	(BA)+2	NOT RUN	
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX	TEMP
	30C 86F
CARBONATE INDEX	2.86
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-44.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : SOUTHLAND ROYALTY
DATE : 11-3-81
FIELD,LEASE&WELL : MAL MAR PRODUCED
SAMPLING POINT:
DATE SAMPLED : 10-26-81

Reinjected Produced Water
Malmar Unit

SPECIFIC GRAVITY = 1.038
TOTAL DISSOLVED SOLIDS = 57303
PH = 7.34

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	220	4408.
MAGNESIUM	(MG)+2	130	1580.
SODIUM	(NA),CALC.	649.	14940.
ANIONS			
BICARBONATE	(HCO3)-1	4.2	256.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	65.0	3125
CHLORIDES	(CL)-1	930.	32992.
DISSOLVED CASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		3.7
BARIUM	(BA)+2	NOT RUN	
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX	TEMP
	30C 86F
CARBONATE INDEX	.697
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	.353
CALCIUM SULFATE SCALING	LIKELY

SOUTHLAND ROYALTY COMPANY

Well History Summary Sheet

Operator Southland Royalty Well Name & # Malmar Unit Tr. 1 #1 (13-1) Lease # 0-024295

SRC District Midland Made By David Dale Date 2/17/81

Location 660'FNL & FEL, Sec. 13, T-17-S, R-32-E, Lea Co., New Mexico

Spud Date 9/26/59 Compl. Date 10/29/59 TD 4455' PBTD 4432'

Type Well: Oil X Gas ____ Other ____ Field Maljamar (GB-SA)

I P 50 BOPD 35° GR 18/64" chk GOR 357-1 Zone Grayburg-San Andres

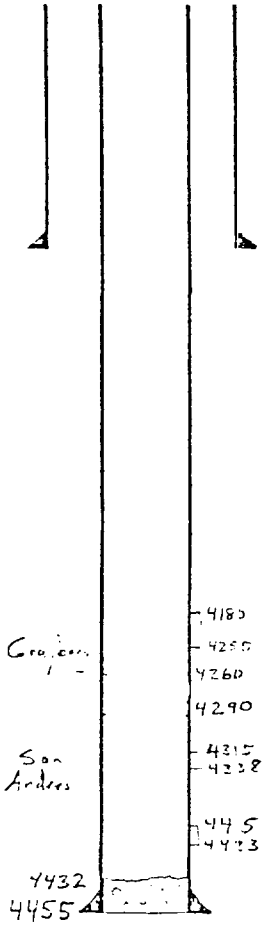
Perfs.: 4180-4203,11-18,31-34,46-48,52-55,4315-21,35-38,4415-23'. 2 JSPF Total Holes 118

Stimulation A/2700 F/41,000 Ref oil & 127,000# sd

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. ____



Drive or Conductor

____" @ ____'

Surface: 8 5/8" 24 # Gr. J-55 @ 302 Cmt. w/ 250 Sx. TOC Surf Hole Size 12 1/4" Max Mud Wt. Unknown #/G

Intermediate:

____", ____# Gr ____@____ Cmt w/ ____ Sx. TOC @ ____, Hole Size ____", Max Mud Wt. ____ #/G

Liner: ____" From ____' To ____', ____# ____Gr., Cmt. w/ ____ Sx. TOC @ ____' Hole Size ____", Max Mud Wt. ____ #/G

Production: 5 1/2", 14 #, J-55 Gr. @ 4451' Cmt. w/ 300 Sx, TOC @ 2993', Hole Size 7 7/8" Mx Mud Wt. Unknown #/G

TD 4455'

WELL HISTORY

Tops	Anhy	1159'
	Salt T	1243'
	Salt B	2427'
	Yates	2455'
	7R	Not Picked
	Queen	3449'
	Grayburg	3998'
	San Andres	4161'

Core 1 4108-81-73' lime & sandy shale. No shows.
2 4181-4250-69' sandy shale & dolomite. shows throughout.
3 4250-4322-72' anhy & dolo. Shows thruout.
4 4322-94-72' dolo. Top 8' frac & show.
5 4395-4440-45' dolo, show 4410-20.

10-27-59 A/2700 gal F/41000 gal Ref oil.
127000 # sd MP 6800 MP 4700 AIR 16 BPM.

6-74 Set CIBP @ 4290'. Cmt to 4260'
Reperforate 4228-34, 4242-52, 4SPF, 64 holes.
A/1000 F/40000 gal & 40000# sd MP 5750 MP 5000
AIP 5400 AIR 13.5 ISIP 3300 10 min 2900.

Tubing ____", ____#, ____ Gr. @ ____
Tubing ____", ____#, ____ Gr. @ ____
Packer @ ____

OPERATOR	LEASE			
Southland Royalty Company	Malmar Unit			
WELL NO. / FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE	
Tr #1 (13-1) 660 FNL & FEL	13	17S	32E	

Schematic

Tabular Data

Surface Casing

Size 8 5/8 " Cemented with 250 sx.

TOC Surface feet determined by NA

Hole size 12 1/4

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5½ " Cemented with 300 sx.

TOC 2993 feet determined by ~~Temp Survey~~

Hole size ~~7 7/8~~

Total depth 4455

Injection interval

4180 feet to 4423 feet Perforated
(perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with Plastic Applicators PA-500 (material) set in a

Baker Model AD-1 (brand and model) packer at ± 4100 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg/ San Andres

2. Name of Field or Pool (if applicable) Maljamar (GB-SA)

3. Is this a new well drilled for injection? / / Yes /X/ No

If no, for what purpose was the well originally drilled? Oil

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Maljamar Wolfcamp 10,300

DMD 11/81

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, _____

ROBERT L. SUMMERS

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto 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 _____ weeks.

Beginning with the issue dated

DECEMBER 10, 1981

and ending with the issue dated

DECEMBER 10, 1981

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 10TH day of

DECEMBER, 1981

Lynette Naegele
Notary Public.

My Commission expires

March 29, 1986

(Seal)

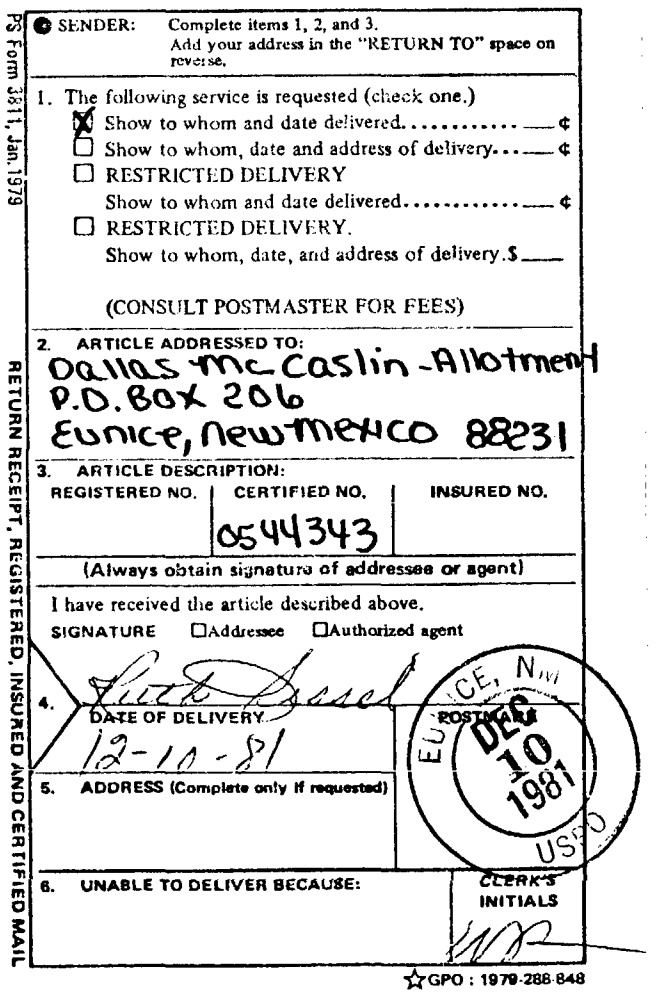
This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
December 10, 1981
CONVERT WELL TO WATER INJECTION

Southland Royalty Company, 1100 Wall Towers West, Midland, Texas, (915) 682-8641, Mr. Ken W. Harbin, District Production Manager, intends for the purpose of secondary recovery, to convert from producing oil well to water injection well its Malmar Unit Tract 1 #1 (13-1). Location is 660' FNL and 660' FEL of Section 13, T-17-S, R-32-E, Lea County, New Mexico. Total depth is 4455' in the Grayburg-San Andres Formation. Operator plans to inject fresh water at a rate of approximately 275 barrels per day with surface pressure of about 2500 psi. Any objections to this intent or requests for hearing must be filed with the New Mexico Oil Conservation Division, P.O. Box [redacted], Santa Fe, New Mexico, [redacted], within 15 days of this publication.

MALMAR UNIT TR 1 #1 (13-1)

LANDOWNER



PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- [X] Show to whom and date delivered..... ¢
- [ ] Show to whom, date and address of delivery..... ¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered..... ¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Dallas Mc Caslin - Allotment
P.O. Box 206
Eunice, New Mexico 88231

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0544343	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐Addressee ☐Authorized agent

4. Dallas Mc Caslin
DATE OF DELIVERY 12-10-81

POSTMARK EUNICE, N.M. DEC 10 1981 USPO

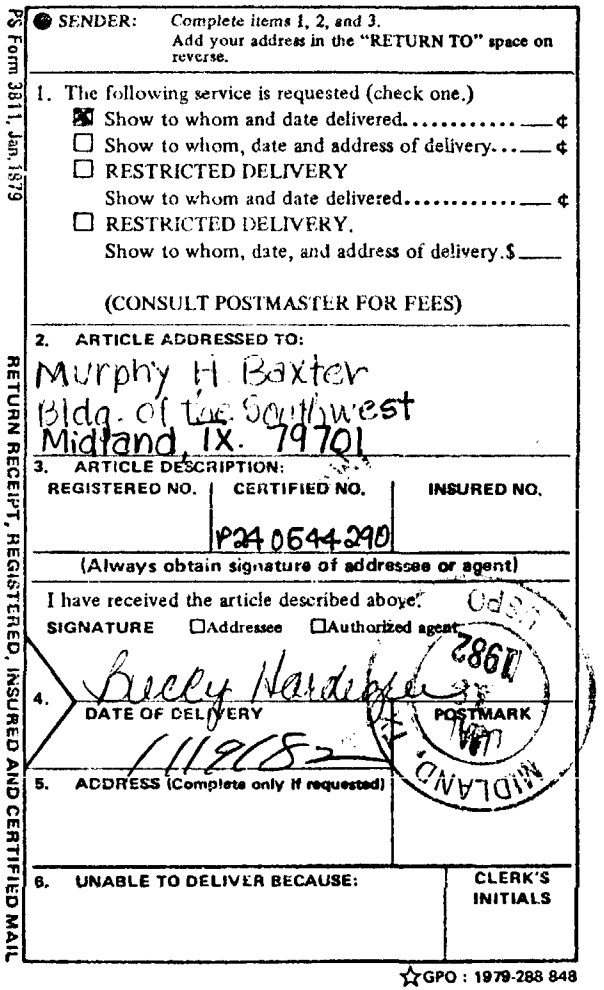
5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS

☆GPO : 1979-288-848

OFFSET OPERATOR



PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

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Add your address in the "RETURN TO" space on reverse.

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- [X] Show to whom and date delivered..... ¢
- [ ] Show to whom, date and address of delivery..... ¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered..... ¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Murphy H Baxter
Bldg. of the Southwest
Midland, TX. 79701

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P240544290	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐Addressee ☐Authorized agent

4. Lucy Hardberger
DATE OF DELIVERY 11-9-82

POSTMARK MIDLAND, TEXAS NOV 1982

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS

☆GPO : 1979-288 848

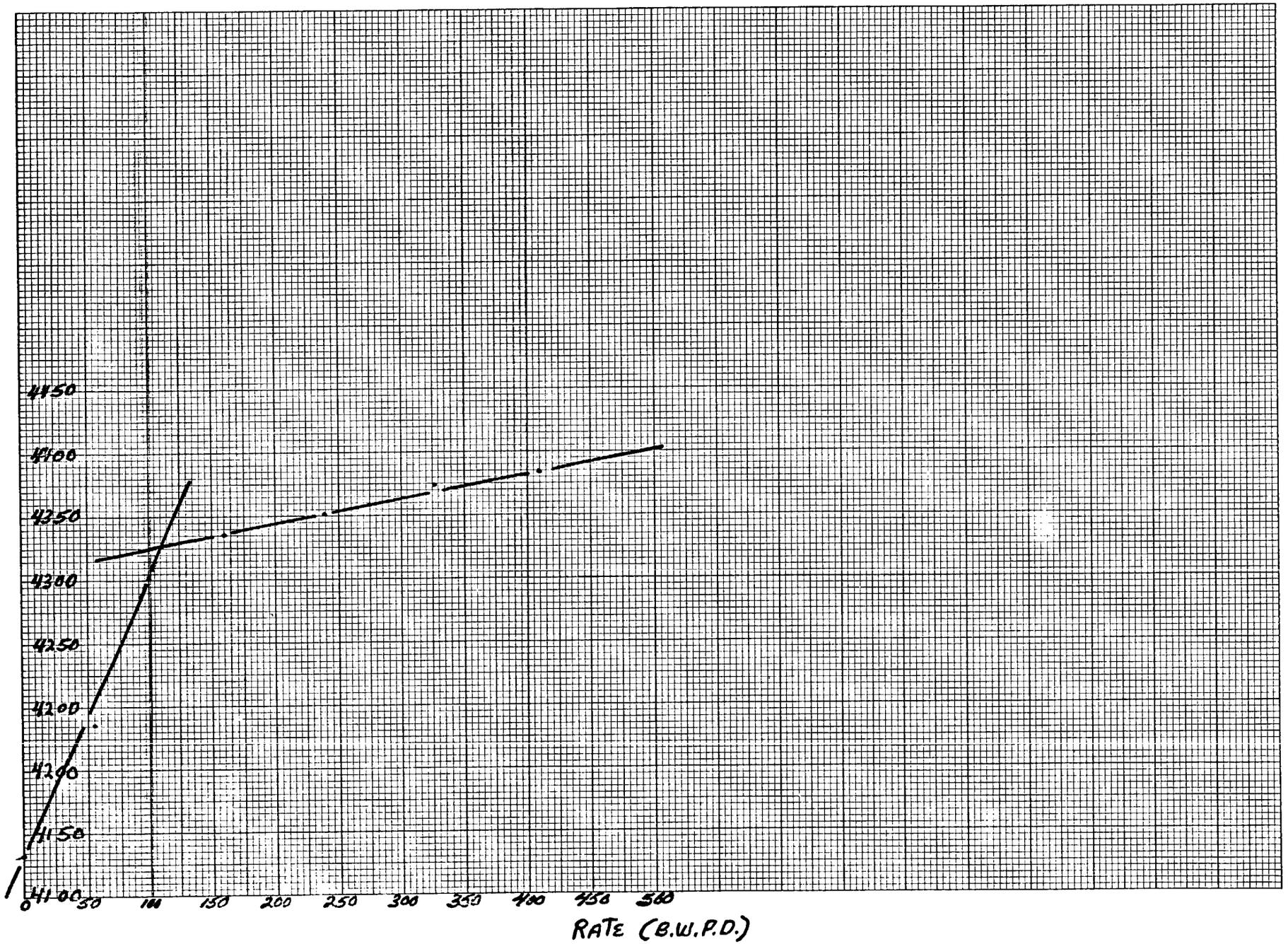
Southland Royalty Company
Malmar Unit Tr.#3 Well No. 15
Step-Rate Test
Tabulation of Pressure & Time

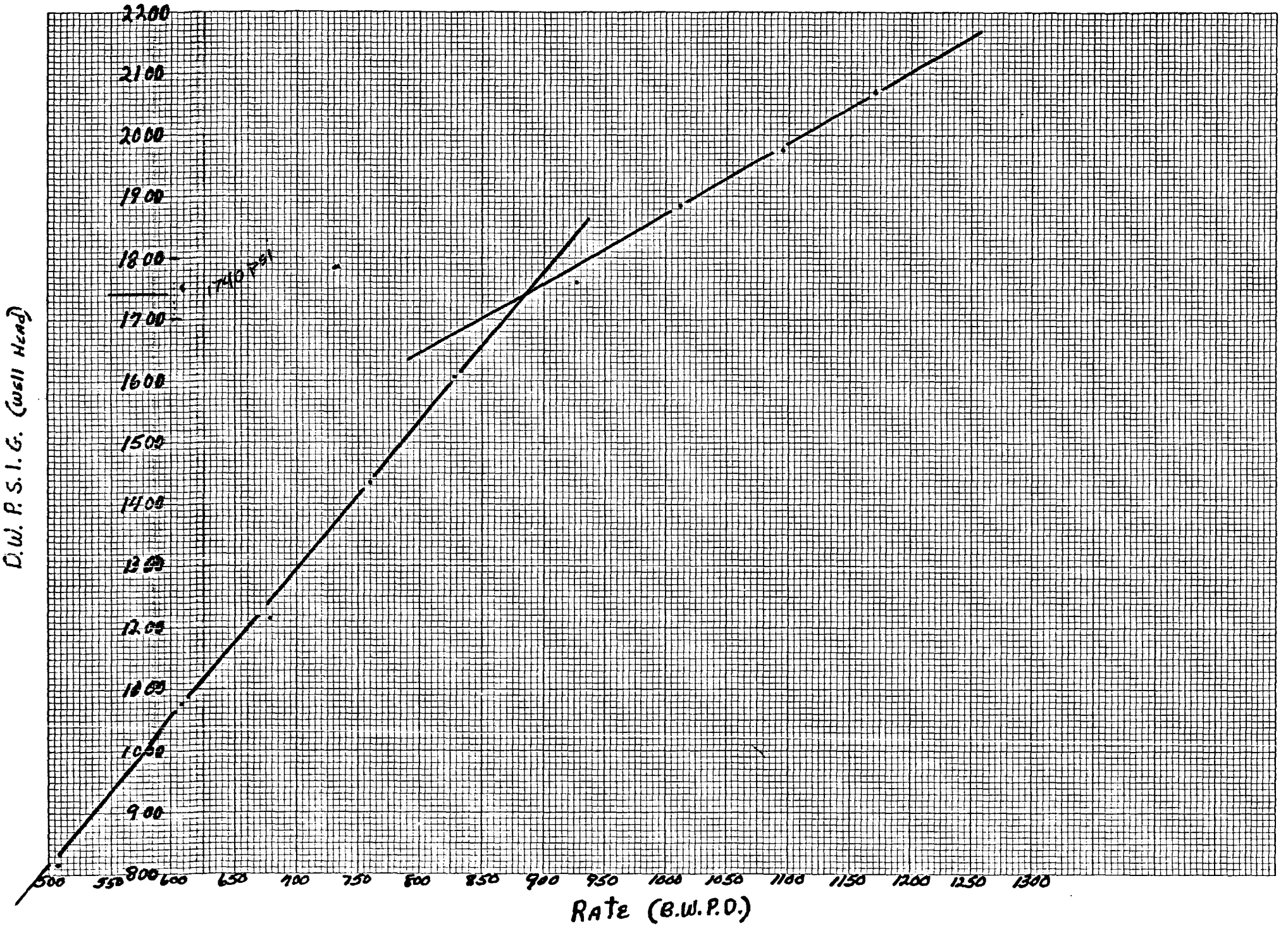
Test Conducted By:
D. & R. Well Testing Company

Test Date: July 15,1982
Test Depth: 4337 Feet
Clock: 0-12 Hour
Element: 0-6500 P.S.I.
Operator: Don Tyson & Leroy Thompson

Gradient .454

Cum. Hrs.& Min.	W.H.D.W. Pres.	Rate B.W.P.D.	P.S.I.G. Center Perfs.
00 Hrs. 00 Min.	474	S.I.	2283 Guage @ 3937'
00 20	474	S.I.	2283 Start Pump
00 25	665	514	2472 Rate 1
00 30	735	512	2586
00 35	815	508	2671 End Rate 1
00 40	919	604	2788 Rate 2
00 45	999	608	2866
00 50	1077	609	2965 End Rate 2
00 55	1130	678	3016 Rate 3
01 00	1165	679	3081
01 05	1215	678	3146 End Rate 3
01 10	1318	760	3221 Rate 4
01 15	1365	759	3290
01 20	1433	760	3349 End Rate 4
01 25	1510	840	3421 Rate 5
01 30	1560	829	3476
01 35	1609	828	3522 End Rate 5
01 40	1665	909	3561 Rate 6
01 45	1723	924	3620
01 50	1760	926	3659 End Rate 6
01 55	1812	1011	3698 Rate 7
02 00	1847	1010	3747
02 05	1885	1012	3783 End Rate 7
02 10	1925	1096	3829 Rate 8
02 15	1944	1093	3862
02 20	1975	1095	3885 End Rate 8
02 25	2020	1179	3917 Rate 9
02 30	2050	1175	3947
02 35	2070	1180	3970 End Rate 9
			End Test.





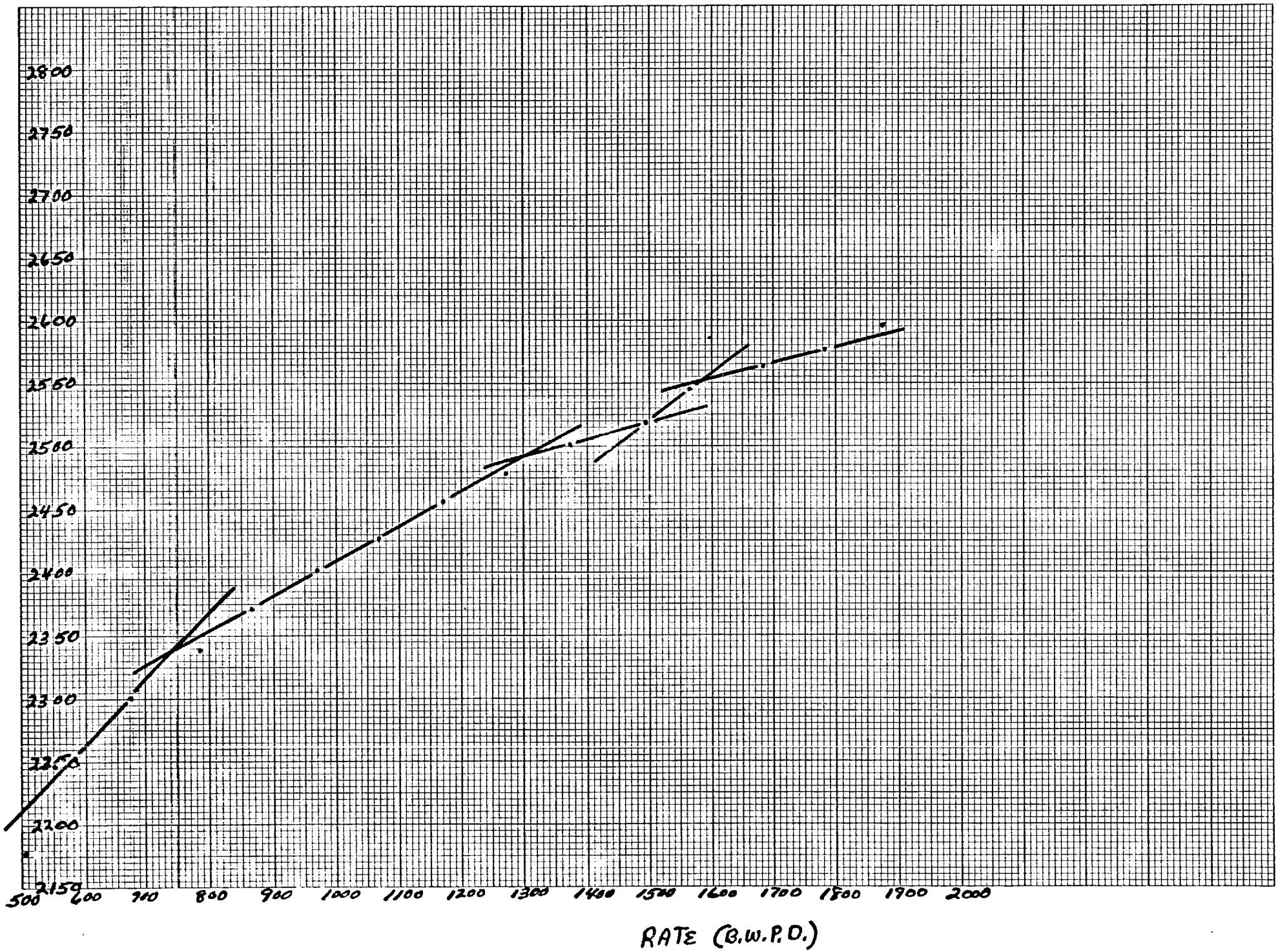
Southland Royalty Company
Dale H. Parke "C" Well No. 3-Y
Step-Rate Test
Tabulation of Pressure & Time

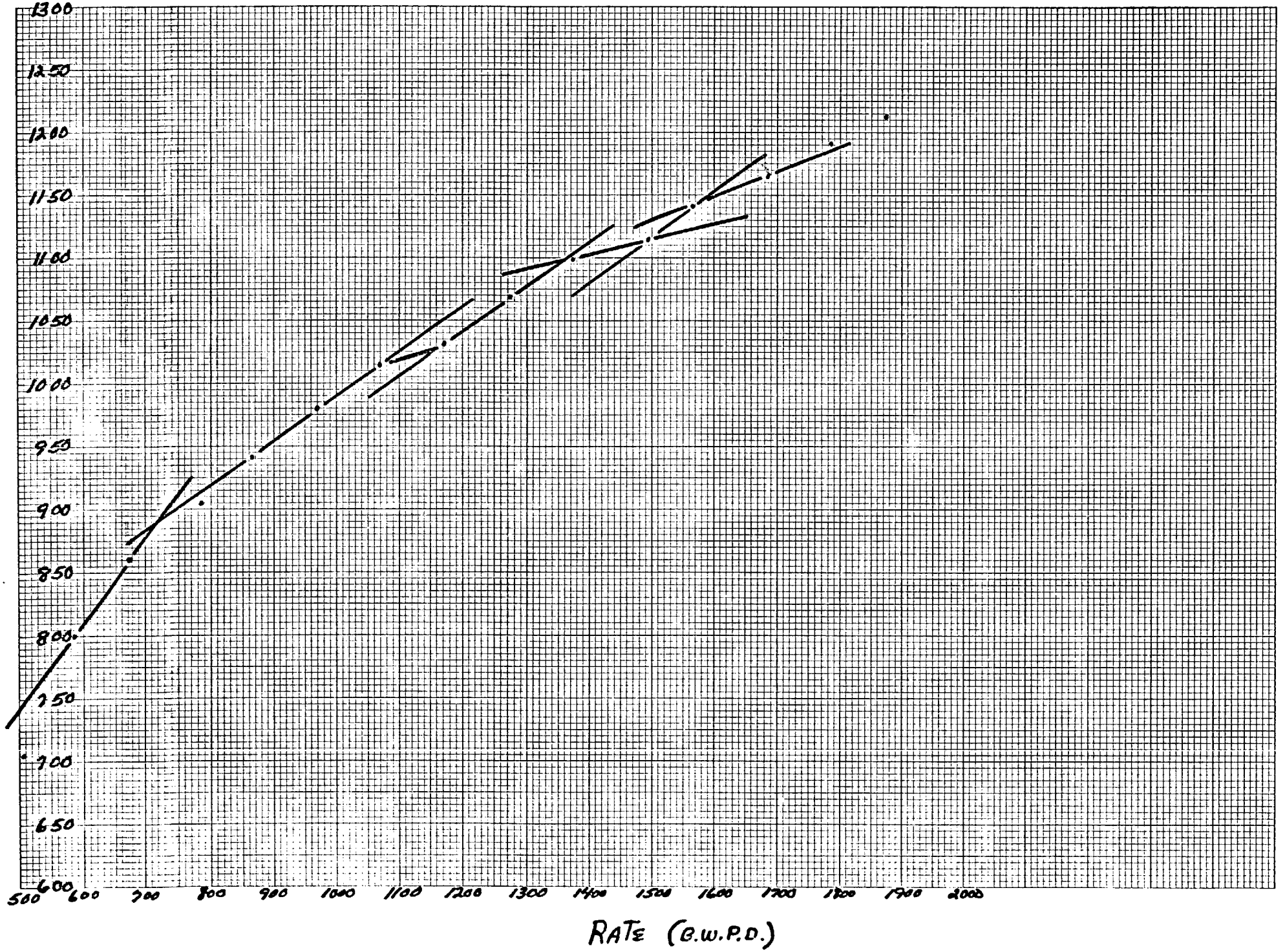
Test Conducted By:
D. & R. Well Testing

Test Date: July 14, 1982
Test Depth: 3158
Clock: 0-12 Hour
Element: 0-6500 P.S.I.
Operator: Don Tyson & Leroy Thompson

Cum. Hrs. & Min.	W.H.D.W. Pres.	Rate B.W.P.D.	Gradient .458 P.S.I.G. Center Perfs.
00 Hrs. 00 Min.	455	S.I.	2008 Gauge @ 2758'
00 20	455	S.I.	2008 Start Pump
00 25	610	514	2067 Rate 1
00 30	672	509	2099
00 35	705	508	2138
00 40	705	508	2177 End Rate 1
00 45	757	598	2190 Rate 2
00 50	775	587	2225
00 55	800	586	2251 End Rate 2
01 00	825	656	2268 Rate 3
01 05	840	658	2284
01 10	860	672	2300 End Rate 3
01 15	885	780	2317 Rate 4
01 20	899	786	2330
01 25	905	787	2339 End Rate 4
01 30	930	878	2352 Rate 5
01 35	935	872	2359
01 40	942	865	2372 End Rate 5
01 45	965	970	2382 Rate 6
01 50	971	984	2388
01 55	980	970	2401 End Rate 6
02 00	990	1072	2418 Rate 7
02 05	1010	1071	2424
02 10	1015	1070	2427 End Rate 7
02 15	1015	1170	2434 Rate 8
02 20	1020	1172	2434
02 25	1030	1171	2457 End Rate 8
02 30	1060	1265	2463 Rate 9
02 35	1068	1268	2470
02 40	1069	1272	2479 End Rate 9

Cum. Hrs. & Min.	W.H.D.W. Pres.	Rate B.W.P.D.	P.S.I.G. Center Perfs.
02 Hrs. 45 Min.	1080	1377	2486 Rate 10
02 50	1090	1380	2489
02 55	1099	1372	2502 End Rate 10
03 00	1104	1472	2509 Rate 11
03 05	1109	1495	2512
03 10	1114	1495	2519 End Rate 11
03 15	1125	1565	2525 Rate 12
03 20	1135	1568	2532
03 25	1142	1568	2545 End Rate 12
03 30	1149	1669	2551 Rate 13
03 35	1162	1668	2558
03 40	1165	1685	2564 End Rate 13
03 45	1177	1766	2567 Rate 14
03 50	1187	1774	2571
03 55	1192	1782	2577 End Rate 14
04 00	1205	1866	2584 Rate 15
04 05	1209	1868	2590
04 10	1213	1873	2596 End Rate 15
			End Test.
04 20	1221	1882	2606 Gauge Out
			End Test.

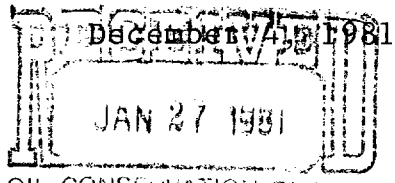

2800
2750
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250
2200
2159
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
RATE (B.W.P.D.)



Grayburg - Jackson Pool

Southland Royalty Company

December 15, 1981



New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Dan Nutter

Gentlemen:

Southland Royalty respectfully requests authority to convert the Dexter Federal Well #1 from an inactive oil well to an active water injection well. The subject well is located 1650'FSL and 1650'FEL of Section 15, T-17-S, R-30-E, Eddy County, New Mexico. Conversion of this well will aid in the development of our Parke Area Waterflood on 20 acre spacing.

The proposed average daily injection rate into this closed system well is 275 barrels of fresh water per day. Proposed average injection pressure is 1,900 psi surface pressure with a maximum of 2,100 psi. Injection will be confined to the Grayburg and San Andres producing zones. There are no known underground sources of drinking water in the area of this application.

During recompletion, we plan to perforate additional Grayburg pay from 2747 to 2878 feet. The new perforations will be acidized with 2,500 gallons of 15% hydrochloric acid before placing the well on injection.

This application is consistent with operations being conducted on our Parke Area Waterflood and administrative approval is requested.

Sincerely,

K. W. Harbin
District Production Manager

DMD/mc

Attachment

SOUTHLAND ROYALTY COMPANY

Well History Summary Sheet

Operator Southland Royalty Well Name & # Dexter Federal No. 1 Lease # 0-024276-09

SRC District Midland Made By David Dale Date 2/9/81

Location 1650'FEL & FSL, Sec. 15, T-17-S, R-30-E, Eddy Co., New Mexico

Spud Date Unknown Compl. Date Unknown TD 3543' PBTD 3511'

Type Well: Oil X Gas ____ Other ____ Field Grayburg Jackson(SR-Q-G-SA)

I P Unknown Zone San Andres

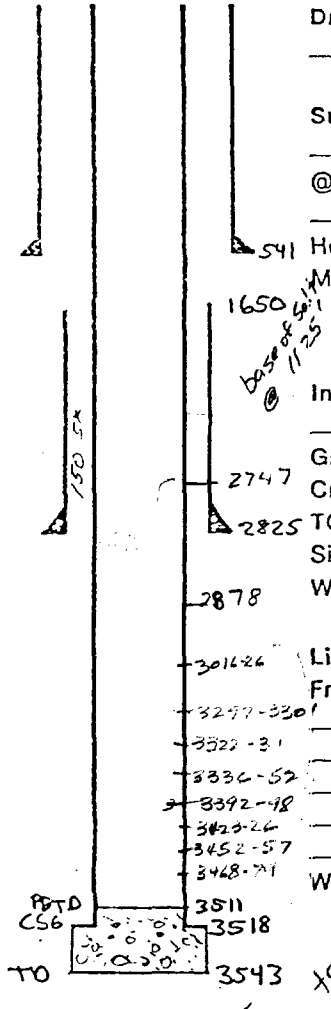
Perfs.: 3016-26,3297-01,3322-31,3336-52,3392-98,3423-26,3452-57,3468-79 Total Holes 223

Stimulation 3016-26 A/500 F/20Mgal & 35M# 3297-3479 Frac 25M#

Cumul Oil Unknown MCF Vented Water Unknown

Recent Test Temporarily Abandoned Lift Equipment None

Misc. DF3697 Tbg Head - Hinderliter 4½ x 2



Drive or Conductor ____" @ ____'

Surface: 8 1/4" unk # Gr. unk @ 541 Cmt. w/ 150 Sx. TOC unk Hole Size unk Max Mud Wt. unk #/G

Intermediate: 7 ", unk #, Gr unk @ 1650-2825 Cmt w/ 150 Sx. TOC @ unk, Hole Size unk ", Max Mud Wt. unk #/G

Liner: ____" From ____' To ____', ____#, ____ Gr., Cmt. w/ ____ Sx. TOC @ ____' Hole Size ____", Max Mud Wt. ____ #/G

Production: 4½" , " 9.5 #, unk Gr. @ 3518 , Cmt. w/ 150 Sx, TOC @ unk , Hole Size 6¼" Mx Mud Wt. unk #/G

TD 3543 '

Perf @ 1650 if TOC & circ to surf if possible if not perf @ base of Salt

WELL HISTORY

1650'-7" csg pulled when well plugged.

4-60 Re-entered P&A wellbore. Drilled out & set 4½" csg @ 3518' w/150 sx. Perfed 3297-3301' (16 holes), 3322-31' (36 holes), 3336-52' (64 holes), 3392-98' (24 holes), 3423-26' (12 holes) 3452-57' (20 holes), 3468-79 (44 holes) Frac w/25,000#sd.

10-62 Temporarily abandoned well.

2-65 Perfd 3016-26 w/7 JS, .41 EH, A/500 gal. Frac 20,000 gal H20 & 35000# 20-40. Tested 10 hr @ 96 BOPD 24 BWPD 36° API.

11-78 Intent to abandon filed w/USGS

Tubing ____", ____#, ____ Gr. @ ____

Tubing ____", ____#, ____ Gr. @ ____

Packer @ ____

DMD