

Mr. Joe D. Ramey New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Attached is Southland Royalty Company's Application for Administrative Approval to dispose of produced water in the Point Lookout Formation. The proposed disposal well is located in Section 34, T30N, R12W, San Juan County, New Mexico. Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder District Engineer

REF/eq

Attachments

XC: NMOCD-Aztec, NM



FORM C-108 Revised 7-1-81

STATE OF NEW HEXICO -ENERGY AND MINERALS DEPARTME OIL CONSERVATION DIVISION POST OFFICE BOX 20HB STATE LAND OFFICE BUILDING SANTA FE NEW MERILD 8/501 APPLICATION FOR AUTHORIZATION TO INJECT

II. IV. v.	Application Operator: S Address: P Contact party Well data: Operator Is this an ex If yes, give Attach a map injection well well. This c Attach a tabu penetrate the	Secondary Recovery Pon qualifies for administra Southland Royalty Company 2. 0. Drawer 570, Farming Ponts of the English of the data required coroposed for injection. Additionally and the Division order number of that identifies all wells all with a one-half mile radiatical identifies the well's	phone:	JUN2 2 1983 CIL CON. DIV. (505) 325-1841 ³ this form for each well attached if necessary. Attachment
III. IV. V.	Address: P Contact party Well data: C p Is this an ex If yes, give Attach a map injection wel well. This c Attach a tabu penetrate the	R. E. Fielder Complete the data required of coposed for injection. Add a pansion of an existing protection the Division order number at that identifies all wells at 1 with a one-half mile radio.	Phone: on the reverse side of the ditional sheets may be a spect? yes X not	(505) 325-1841 ³ this form for each well attached if necessary. Attachment
III. IV. V. * VI.	Contact party Well data: C Is this an ex If yes, give Attach a map injection wel well. This c Attach a tabu penetrate the	R. E. Fielder Complete the data required of proposed for injection. Add a pansion of an existing protection the Division order number at that identifies all wells at 1 with a one-half mile radio.	Phone: on the reverse side of the ditional sheets may be a spect? yes X not	(505) 325-1841 this form for each well attached if necessary. Attachment
III. IV. V. * VI.	Well data: Open Is this an ex If yes, give Attach a map injection well well. This contact at the penetrate the	complete the data required or proposed for injection. Add pansion of an existing protection the Division order number at that identifies all wells at with a one-half mile radi	on the reverse side of the ditional sheets may be a ject? ves nuthorizing the project and leases within two minus circle drawn around	this form for each well attached if necessary. Attachment
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v. * vi.	If yes, give Attach a map injection wel well. This c Attach a tabu penetrate the	the Division order number a that identifies all wells a l with a one-half mile rada	outhorizing the project and leases within two mi	les of any proposed
* VI.	injection well well. This c Attach a tabu penetrate the	.l with a one-half mile radi	ius circle drawn around	les of any proposed
,	penetrate the		, area of review. Ac	each proposed injection tachment #2
	well's type, a schematic o	lation of data on all wells proposed injection zone. construction, date drilled, f any plugged well illustra	Such data shall include , location, depth, recor	e a description of each
VII.	Attach data o	n the proposed operation, i	ncluding:	
	2. Wheth 3. Propo 4. Sourc the 5. If in at the	sed average and maximum dai er the system is open or cl sed average and maximum inj es and an appropriate analy receiving formation if oth jection is for disposal pur or within one mile of the p disposal zone formation wa erature, studies, nearby we	osed; lection pressure; sis of injection fluid her than reinjected prod poses into a zone not p uroposed well, attach a ter (may be measured or	and compatibility with uced water; and roductive of oil or gas chemical analysis of
t (;	detail, geolo bottom of all total dissolv	riate geological data on th gical name, thickness, and underground sources of dri ed solids concentrations of e as well as any such sourc erval.	depth. Give the geolog nking water (aquifers c 10,000 mg/l or less) o	ic name, and depth to ontaining waters with verlying the proposed
IX. C	Describe the	proposed stimulation progra	m, if any.	Attachment #7
X	Attach approp with the Divi	riate logging and test data sion they need not be resub	on the well. (If well mitted.)	logs have been filed Attachment #8
a	available and	ical analysis of fresh wate producing) within one mile ells and dates samples were	of any injection or dis	h water wells (if sposal well showing Attachment #9
6	examined avai.	r disposal wells must make lable geologic and engineer hydrologic connection betwe nking water.	ing data and find no ev:	idence of open faults
KIII. A	Applicants mus	st complete the "Proof of N	otice" section on the r	
XIV. C	Certification			Attachment #11
I t	l hereby certi	ify that the information su f my knowledge and belief.	bmitted with this applic	cation is true and correct
N	kame:	R. E. Fielder	Title <u>Distr</u>	rict Engineer
5	Signature:	R.C. Fulcher	Date: June	21, 1983

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 the last and schematic form and shall include:
 - (1) Lease name: S., 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.

- 8. 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.



Bureau of Land Management P. O. Drawer 600 Farmington, New Mexico 87499

Dear Gentlemen:

Attached for your reference is a subsurface water disposal application filed with the New Mexico Oil Conservation Division on June 21, 1983.

A copy of this application is being submitted to all offset operators by certified mail. Objections to this proposal must be filed with the New Mexico Oil Conservation Division, Santa Fe Office, within 15 days.

Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder District Engineer

REF/eg

Attachments

√XC: NMOCD-Aztec, NM

RECEIVED
JUN2 2 1983

OIL COM. DIV.



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARIMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

BOX 2088 SANTA FE, NEW MEXICO 87501	
RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX	
Gentlemen:	
I have examined the application dated Denc 22 1933	
for the Control Provide Con According to Lease and Well No.	Unit S-T-R
and my recommendations are as follows:	·
•	



Beta Development Company 238 Petroleum Plaza Farmington, New Mexico 87401

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Attached for your reference is a subsurface water disposal application filed with the New Mexico Oil Conservation Division on June 21, 1983.

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Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder District Engineer

REF/eg

Attachments

✓XC: NMOCD-Aztec, NM



Amoco Production Company 501 Airport Drive Farmington, New Mexico 874 1

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SOUTHLAND ROYALTY COMPANY

R. E. Fielder District Engineer

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Attachments

✓ XC: NMOCD-Aztec, NM

JUN2 2 1983

OIL CON. DIV. DIST 3



Merrion Oil & Gas Corporation P. O. Box 1017 Farmington, New Mexico 87499

Dear Gentlemen:

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A copy of this application is being submitted to all offset operators by certified mail. Objections to this proposal must be filed with the New Mexico Oil Conservation Division, Santa Fe Office, within 15 days.

Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder District Engineer

REF/eg

Attachments

XC: NMOCD-Aztec, NM

RECEIVED

JUN2 2 1983

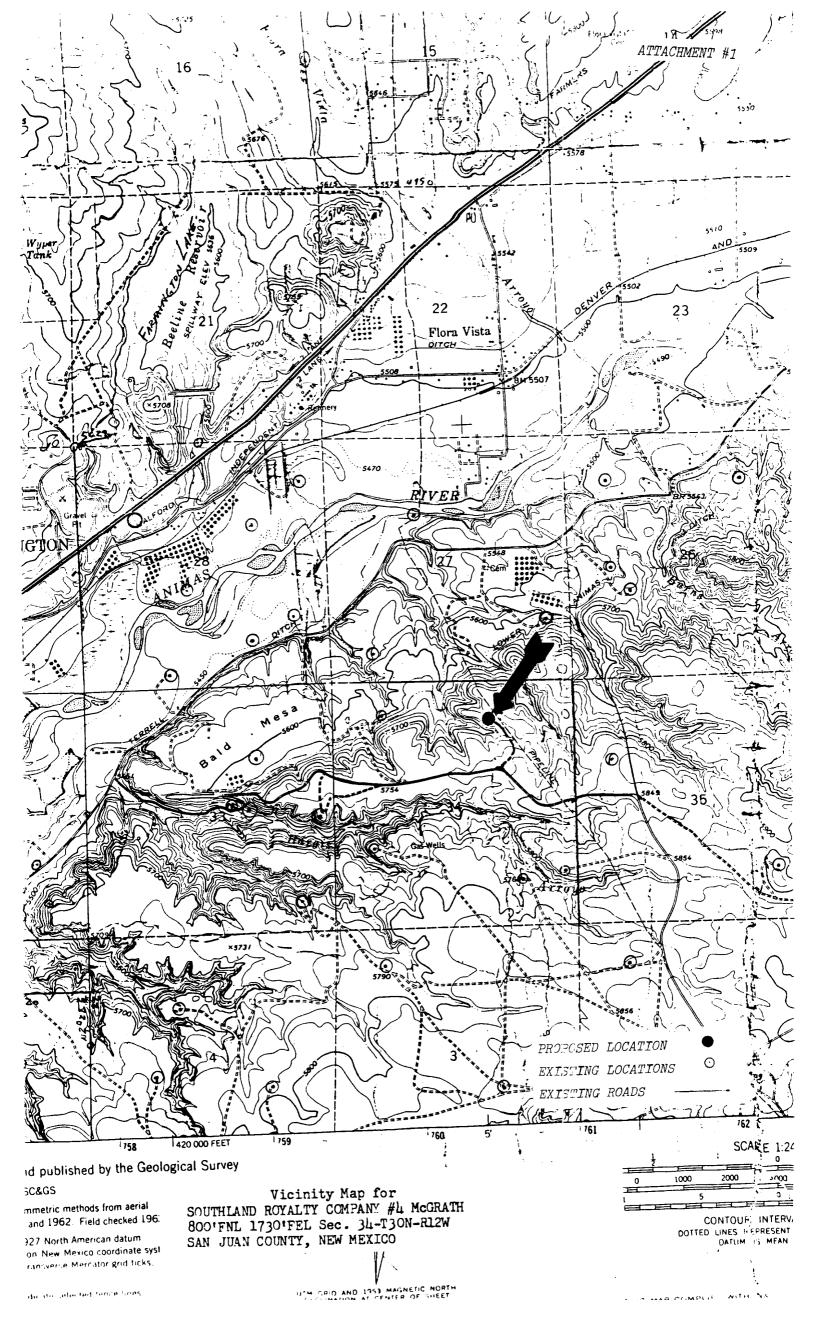
OIL COMP. J. V.

DIS1. 3

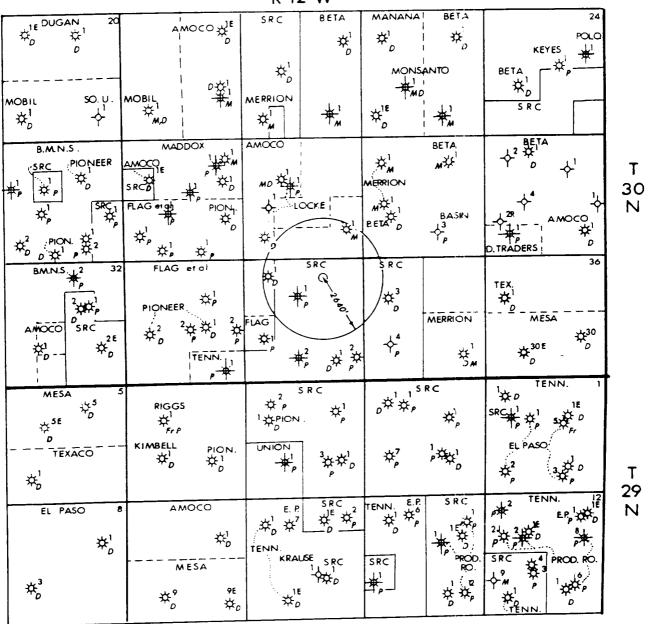
SOUTHLAND ROYALTY COMPANY

Well History Summary Sheet

O ₁	perator So	uthland	Royalty Co.		# McGrath #	4	Lea:	se # SF-07792	2
•			iton Ma						
			1730' FEL, S						
			Compl. Da						
•			ias Other .						
•	n/a								
			4225'-4300'						
			ed) 1050 gals						
						WEL	L HISTORY		
jo lamo			Drive or Conduc	tor	Propose to	drill thr	ough Ojo Ala	amo formatio	<u>n_</u>
456'					<u>and set 8-</u>	<u>5/8" surfa</u>	<u>ce casing.</u>	<u>Casing will</u>	
			Surface: 8-5/ 24 # Gr. 6 595	K-55	ulate ceme	nt to surf	ace. Test	to 600 psi,	
			@ 595 491 cu.ft.sx.1	Cmt. w/	then drill	to TD of	4700'. Run	<u>mud logging</u> 3/01'-3511'	
4			Hole Size	<u>'"</u>	will be DS	<u>T'd if gas</u>	show encour	<u>ntered.</u>	
			Max Mud Wt	8.4 #/G	IES, FDC/C at TD.	NL and BHC	Sonic logs	will be run	
					Run 4-1/2"			th DV tool a	
Fruitl	and							sufficient s 50% excess	
1586'					Cement 2nd	stage wit	h sufficient	t cement to	<u></u>
							-900' plus { a 100 sack (Class "B" nea	at
Pictur Cliffs	ed		Intermediate:	#	tail slurr	y with rem	aining volur	me made up o . Run GR-CCI	f
1896		1	Gr@_					rval with 1	
			Cmt w/					<u>d and balls.</u> test to col	
			Size	_" Max Mud			iles.		<u>160</u> 0
		DV Too	Wt 1 @ 2150'	#/G	Run inject	<u>ion tests.</u>			
		DV 100	1 6 2130				ril ed to ev		
								s and Cliff production	
Chacra					indicated	by DST and	l open hole	logs it will	be
3021'					prior to i	<u>as a gas w</u> njection i	nto the Poir	duced to dep nt Lookout.	<u>let</u> ion
			From						
Cliff				#					
House 3491'				•			····		
<u> </u>									
	İ		Wt						
t. Lo	okout								
221'						<u> </u>			
					•				
	نہ	L							
			Production: 4-	1/2 ",					—
			10.5 # k	(- <u>55</u> Gr. , Cmt. w/					_
			@ <u>4700</u>	_ Sx, TOC @					
			7-7/8	_ Hole Size _ Vix Mud Wt.					
			9.2	#/G ,	Tubing <u>2-3/8</u>	<u>", 4.</u>	7#, J-55	_ Gr, @ _4200 '	
			тр 4700	_	Tubing	00' Baker		_Gr.@ ouble grip	
		**	Stage 1: 577	cu.ft. St	age 2: 429	cu.ft.)		



R 12 W





Southland Royalty Company

FARMINGTÓN DISTRICT

PROPOSED POINT LOOKOUT — WATER DISPOSAL WELL —

SRC # McGrath 4 800 FNL & 1730 FEL. SEC. 34 - T30 N. - R.12 W.

SAN JUAN COUNTY, NEW MEXICO
BY Bob Fielder 1"=4000" MAY 11, 1983

D-154

ATTACHMENT #3

WELL HISTORIES - AREA OF REVIEW

SRC	Amoco	Атосо	Атосо	Operator
J. Hudson #3	Duff Gas Com #1	Duff GC "C" #1	Duff GC "B" #1	Well Name & No.
1750'FNL- 990' FWL	790' FNL- 1015' FWL	925' FSL- 950' FWL	1190'FSL- 800' FEL	Footage Location
35-30-12	34-30-12	27-30-12	27-30-12	S-T-R
5857' GL	5621' RKB	27-30-12 5553' RKB	5629' RKB	Elevation
PGW	PGW	PGW	PGW	Well Status
7-22-66	1-30-62	1-30-64	2-28-62	Date Drilled
6750'	6425'	6365'	3600'	Total Depth
DK	DK	DK	CH*	Comp. Intv.
6460'-80' 6540'-62' 6567'-72' 6580'-85' 6661'-80'	6275'-81' 6313'-19'	6228'-48' 6152'-62'	3448'-71'	Perforations
12-1/4" OH 8-5/8",24# @ 306'	12-1/4" OH 8-5/8"@354'	8-5/8"@383' 275 sxs	8-5/8"@490'	Surf Csg Program
250 sxs	250 sxs-circ	275 sxs	310 sxs-circ	Surf Csg Cement
7-7/8" OH DV @ 2148' 4-1/2", 10.5# @ 6750'	7-7/8" OH DV @ 1994' 4-1/2" @ 6425'	7-7/8" OH DV (16' 4-1/2" @ 6365'	7-7/8" OH DV @ 2007' 4-1/2" @ 3596'	Frod. Csg Frogram
1st 200 sxs 2nd 300 sxs	1st 700 sxs 2nd 500 sxs	1st 500 sxs 2nd 1100 sxs	1st 350 sxs 2nd 450 sxs Circulate	Prod. Csg Cement

* Cliff House

PROPOSED DISPOSAL OPERATION

1. The proposed injection well will be used to dispose of produced water from the following wells (leases). Water will be trucked from these wells to the injection well.

Well Name & Number	Location	Lease No.	BWPD (Max)	BWPD (Avg*)
Frontier "C" #1 Creek #2 Burnt Mesa #3 Reese Mesa #9 Wilmer Canyon #3 Cozzens #6E Cooper #3E (MV) Frontier "C" #2E Cozzens "C" #1E (Chacra) Huber #1 Hanks #16E Grenier #23E	NW-16-27-11 NE- 4-29- 5 SW-26-32- 7 NW-13-32- 8 NW-24-32- 8 SE-18-29-11 SE- 6-29-11 NE- 5-27-11 NW-20-29-11 NW-31-23- 1 NW-6-27- 9 NW-31-31-11	NM-6893 SF-077056 SF-078813 SF-080382 SF-077056 NM-19147	28 9 6 13 12 8 63 23 6 14 35 4	20 ** 5 1 1 7 ** 5 63 0 ** 1 5 ** 0 **
		Total	221	112

- * Based on low market demand gas production.
- ** Currently shut in for excessive water production into unlined surface pits.
- 2. The produced water will be stored in a closed tank on the injection location. The pump suction will be piped to this storage tank and the pump will be operated by a head switch located on the tank. Pump discharge will be manifolded into wellhead.
- 3. Formation fracture gradient for the Point Lookout in the area is estimated to be .62 psi/ft based on a review of completion attempts in the township.

A review of bottom hole pressure data from DST's run in the township indicate an average formation pressure gradient of .43 psi/ft. These tests were primarily on Cliff House intervals but are assumed to be valid for the Point Lookout as well. This indicates that we should be able to pump into this formation with very little pressure since the head of water will overcome formation pressure and friction will be negligible due to the low daily rates of disposal. Maximum surface pressure will be held to 850 psig.

4. Water Analysis: mg/l

Well Name	Na	<u>Ca</u>	Mg	<u>Fe</u>	<u>k</u>	<u>C1</u>	Bicarb	<u>S04</u>	<u>C03</u>	<u>0H</u>	TDS
Frontier "C" #1	16668	757	130	NR	nil	26806	418	540	0	NR	45319
Creek #2	NR	821	175	20	NR	3030	3442	200	NR	NR	9474
Burnt Mesa #3	3755	52	12	1	90	4931	1689	9	68	<.05	10607
Reese Mesa #9	4244	46	15	.08	31	5666	1768	5	<1	<.5	11775
Wilmer Canyon #3	4356	40	23	.12	24	4467	3911	7	111	<.5	12939
Cozzens #6E	NR	616	764	18	NR	18483	355	200	NR	NR	30452
Cooper #3E (MV)	13414	218	73	2.4	84	18716	1562	2358	<1.	<.5	36427
Frontier "C" #2E	2753+	323	18	NR	NR	5384	1219	4493	0	NR	19190
Cozzens "C" #1E (Ch)	NR	547	366	8	NR	16059	522	190	NR	NR	27038
Huber #1	NR	205	158	10	NR	4242	417	63	NR	NR	7482
Hanks #16E	NR	547	241	42	NR	8484	751	140	NR	NR	15286
Grenier #23E	NR	3009	1346	46	NR	41814	668	170	NR	NR	68386

- NR = Not recorded. These samples were run by a local company with limited testing facilities. The values obtained were from portable water analysis kits.
- 5. The Point Lookout sandstone is not productive of oil and gas within the prescribed one mile radius. Water analysis are not available in the immediate vicinity. Water sample analysis of a Point Lookout/Menefee test in NW 15-30-12 yielded 33,200 ppm TDS.

The following tabulation gives the calculated Rw from offset electric logs. BHT was assumed to be $115 \ \text{deg F}$ in all cases.

Well Name & Number	Location	SSP	Rmfe/Rwe	<u>Rw</u>	TDS*
Amoco-Duff Gas Com "C" #1	SW-27-30-12	-57 MV	2.8	.25	16000
Amoco-Duff Gas Com #1	NW-34-30-12	-48 MV	4.5	.25	16000
SRC-J. Hudson #3	NW-35-30-12	-51 MV	4.6	.43	8700
SRC-McGrath "C" #1	SE-34-30-12	-48 MV	4.5	.75	4900

^{*} NACL equivalent from Schlumberger log interpretation charts, page A-6.

FARMINGTON DISTRICT

	FARMIN	GTON PISTRICT	i
	LABORATORY	WATER ANALYSIS	No,
To Southlan	d Royalty		9/12/84
Attn: Do	ug Harris		ty of Halliburton Company and neither nor a copy thereof is to be published
Box 570	•		t securing the express written approval ent; it may however, be used in the as operations by any person or concern
Farminer	OF N M 87400	ana emplayees inerect	receiving such report from Halliburton
Submitted by Dou	R Harris 5	Date Rec	
Well No. McGrath	414 Depth	Formation	
County.	Field	Source	DST #2
	Top Recovery	Bottom Recovery	Sample Chambers
Resistivity	3.16@ 65°F	.97@ 71°F	68 @ 68 F
Specific Gravity			
pH	8.47	7.53	7.86
Calcium (Ca)	_55	210	210*MPL
Magnesium (Mg)	NT	NT	35
Chlorides (CI)	2900	6950	9900
Sulfates (SQ ₄)			
Blcarbonates (HCQ ₃)	320	705	670
Soluble Iron (Fe)	NT	NT	NT
	-		
11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
Remarks:			*Milligrams per liter
	Resnert	fully submitted,	

__ HALLIBURTON COMPANY

J, ____

NOTICE

Analyst:

CCi

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

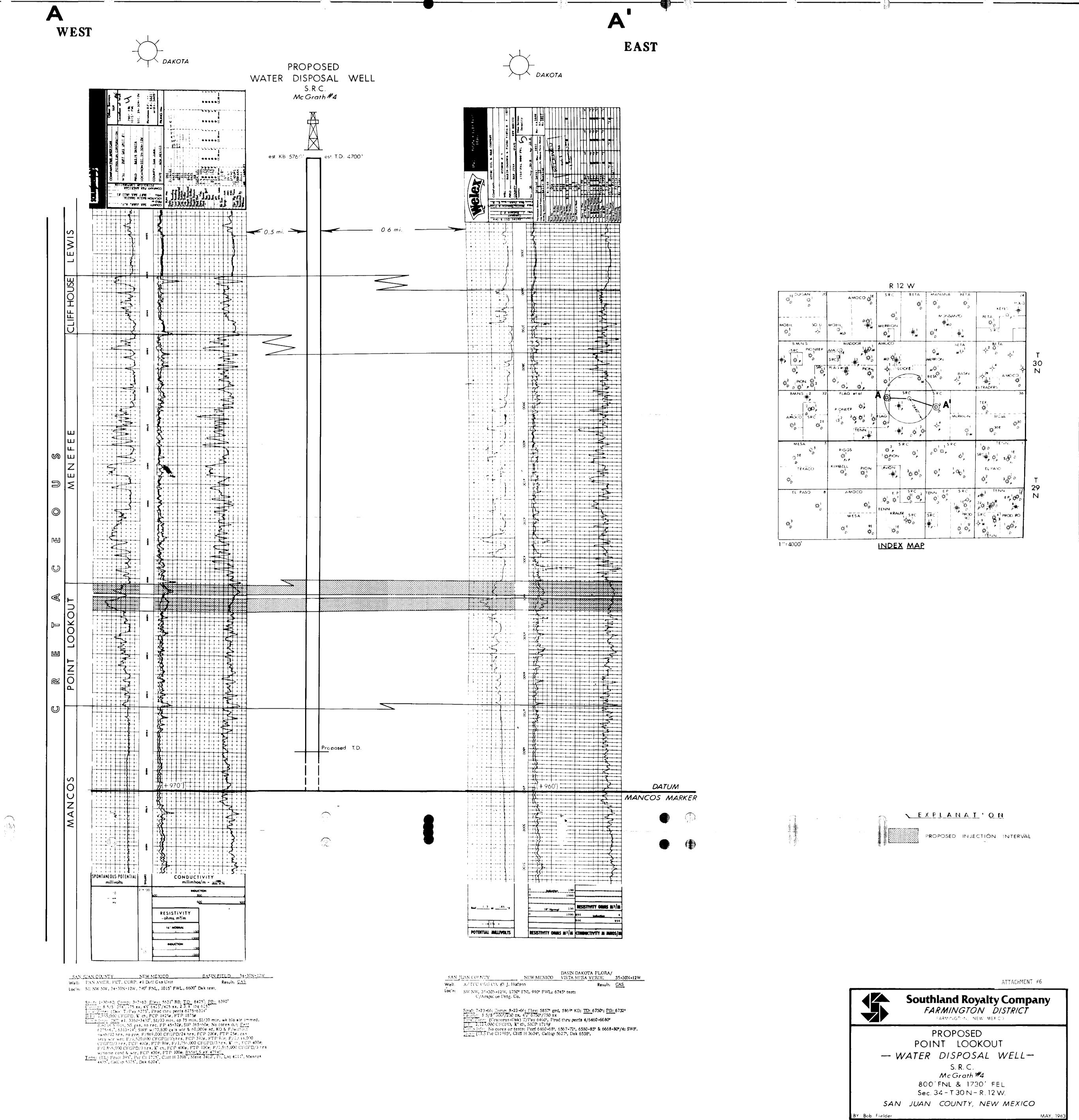
A sample log run on the J. Hudson #3, NW 35-30-12, indicates the Point Lookout in this area consists of sandstone-shale sequences typical of the Point Lookout. The shales are described as greenish gray, silty, soft to medium soft. The sandstones are predominately green to gray green colored, coarse large grained to conglomeratic quartz. The lowermost sandstones change to white to amber coarse grained, quartz. Some traces of coal were mentioned, but are probably remnants from the Menefee section.

There is a structural rise across section 34 from the NE to the SW of 10' which is typical of the slope into the central basin. There is no surface or subsurface evidence of faulting in the vicinity of this well.

Recent logs on Dakota infill wells in the area indicate porosity value ranges of 8 to 12%. The average for this site will be in the 9 to 10% range.

Average thickness of the proposed injection intervals within the Point Lookout is estimated as 68'. This interval is found in the depth range of 4000'-4400' in offset wells. A correlation cross-section for the proposed site is attached.

The only overlying sources of drinking water are the Nacimiento strata exposed at the surface. The Cjo Alamo is present at 456' to 595'. It is proposed to set surface casing through this interval for positive protection even though it contains non-potable water.



Deliver of A. Edge of ## A. Gel A. ## Challen Table A. #P - Challen

FF-028

PROPOSED STIMULATION PROGRAM

An acid job breakdown will be the only stimulation done on this well initially. This will be done to insure adequate communication between the wellbore and injection zone. Rate and pressure will be maintained so that the frac gradient (.62 psi/ft) is not exceeded. Additional matrix acidizing may be required in the future but will not be considered until the injectivity tests are analyzed.

LOGGING AND TEST DATA

The proposed logging program is:

- 1) Induction Electric Log from Total Depth to surface casing shoe.
- 2) One man mud logging unit from surface casing shoe to total depth.
- 3) Compensated Neutron/Formation Density Log from total depth to surface casing shoe.
- 4) Borehole Compensated Sonic Log from total depth to surface casing shoe.
- 5) Drillstem test of Cliff House interval if gas shows are present through this interval.

ATTACHMENT #9

The following water analysis were obtained from domestic water wells in the area on June 6, 1983.

Well Owner	Location	Depth	TDS	H ₂ S	<u>Na</u>	<u>Cu</u>	<u>Mg</u>	<u>Fe</u>	<u>K</u>	<u>C1</u>	HC03	<u> </u>	<u>co</u> 3	<u>OH</u>
Dave Thomas	NE-33-30-12	40'	789	neg	44	117	41	<.05	1.04	19.6	286	280	<1	<.5
Randy Burson	SE-27-30-12	68'	859	neg	59.8	115	41	<.05	1.27	33.1	411	198	<1	<.5
R. D. Carter	SE-27-30-12	72'	1592	neg	27.6	370	44	<.05	1.6	22.4	165	961	〈 1	<.5

All values reported are mg/l.

STATEMENT

I herby certify that I have examined available geologic and engineering data and can find no evidence of connection between the disposal zone and underground drinking water sources.

Date

R. E. Fielder District Engineer

AFFIDAVIT OF PUBLICATION

No. <u>13236</u>

STATE OF NEW MEXICO. County of San Juan:

Harga	ret Bil	lingsle	<u>V</u>	eing duly
sworn, says: That he i	s the Sec.	to the	Publis	her of
THE FARMINGTON DAIL published in English a				
hereto attached	Leg	<u>al Moti</u>	ce	
was published in a regu	ular and entire	issue of the	said FARMING	TON DAILY
Times, a daily newsp	aper duly qu	alified for th	he purpose w	ithin the
meaning of Chapter 19	67 of the 1933	7 Session Lav	vs of the Stat	e of New
Mexico for1	donsecutive	(days) (week	s on the sar	ne day as
follows:				
First Publication S:	<u>ndar.</u> J	<u>me 5.</u>	1983	
Second Publication				
Third Publication				
Fourth Publication				
and that payment the	refor in the a	mount of \$	7.60	
has been made.	jan £ 4	2.		
2	,		7	
Subscribed and	sworn to befo	re me this _	5 t b	day
of	<u>ne</u>		<u>83</u> .	
2	NOVARY PUB	a Kin	nleerlin	4
			COUNTY, NEW	MEXICO
My Commission expire	s:	7-87		

Copy of Publication

INTENT TO DISPOSE OF WATER IN THE SUBSURFACE

SUBSURFACE
Southland Royalty Company proposes to dispose of produced water in the Point Lookout formation. The injection well will be the McGrath No. 4 located 800° FNL & 1730° FEL of Section 34, 730N, R12W, NMPM, San Juan County, New Mexico. Depth of injection will be from 4225° to 4300°. Maximum antiopated rate 250 BWPD at a maximum surface injection pressure of 850 imum surface injection pressure of 850

imum surface injection pressure of 850 psig.

Questions should be addressed to Southland Royalty Company, Attention: R. E. Fielder. P.O. Drawer 570, Farmington, New Mexico 87499 or call (505) 325-1841. Objections to this proposal or request for hearing by interested parties must be filed with the New Mexico Oil Conservation Division. P.O. Box 2088. Santa Fe, New Mexico 87501 within 15 days.

Legal No. 13236 published in the Farmington Daily Times. Farmington, New Mexico on Sunday, June 5, 1983.