

POST OFFICE BOX 1206 JAL. NEW MEXICO 88252

February 2, 1982

505/395-3056

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

SUBJECT: Application for Salt Water Disposal System in the San Andres

RE: Buckskin Federal No. 3 1650' FSL & 1980' FWL, Sec. 18, T-24-S, R-38-E, Lea County, New Mexico

Gentlemen:

Attached you will find a map that identifies all wells and leases within two miles of our proposed injection well with a one-half mile radius circle drawn around the proposed site to identify the area of review. Also attached you will find a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone along with a schematic illustrating all plugging detail for each well.

- 1. We propose to inject an average of 150 bb1s of fluid per day with a maximum rate of 250 bb1s per day.
- 2. The system will be closed.
- 3. Average injection pressure will be 300 PSI and maximum will be 800 PSI.

Below are the fluid analysis of the injection fluid and the receiving formation; analysis are from Tretolite Labs and "Salinity Map of San Andres Formation" taken from McNeal R.P. 1964.

	Buckskin Federal #1	Buckskin Federal #2	Receiving Formation
нсоз	122 Mg/L	207 Mg/L	Chlorides between
C1	111,100 Mg/L	135,542 Mg/L	100,000 to 50,000 ppm
S04	950 Mg/L	575 Mg/L	
Ca	10,400 Mg/L	14,000 Mg/L	
Mg	3,159 Mg/L	8,262 Mg/L	
Iron (FE)	18 Mg/L	375 Mg/L	
Total Hardness/			
(CaCO3)	39,000 Mg/L	69,000 Mg/L	

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Buckskin Federal No. 1 Application for Salt Water Disposal -Page 2-

The San Andres section in this well is comprised mainly of dolomite and limestone with some shale and sand. The top of the San Andres is at 4295' and the base is at 5248', giving it a thickness of 953'. The only fresh water produced is from alluvial at the surface. There are no fresh water wells producing within a one mile radius of the proposed disposal well, nor have we found any evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. Logs have already been filed with the Division.

Please note:

- 1.) The injection formation is the San Andres.
- 2.) The well was originally drilled as an oil well.
- 3.) The next higher oil zone is the Queen with a base at 3937' (358 feet away) and the nearest oil zone underlying is the Tubbs at 6280' (1041 feet away).
- 4.) The injection site is perforated and intervals are sealed off with bridge plugs as follows:

Perfs.	6710' - 6740'	Bridge plug	6620 '
Perfs.	6238' - 6460'	Bridge plug	6200 '
Perfs.	5724' - 5896'	Bridge plug	5690 '
Perfs.	5412' - 5444'	Bridge plug	5318 '

Below is a list of required attachments for this application. If you desire anything further, please contact the undersigned.

- 1.) Form 9-331
- 2.) Form C-108
- 3.) Proof of Publication, Hobbs Daily News Sun.
- 4.) Injection Well Data Sheet

Sincerely,

Steven J. McCormick Technical Advisor

SJM/tic Enclosures

cc: Via Certified Mail Mr. Clyde Cooper, Surface Owner 201 W. Nebraska Jal, NM 88252

Offset Operators:

Getty Oil Company Two Midland National Center Midland, TX 79702

February 2, 1983

Application for Salt Water Disposal -Page 3-Conoco, Inc. Box 1959 Gibralter Saving Center Midland, TX 79702 Gulf Oil Exploration and Production Company P.O. Box 670 Hobbs, NM 88240 Arco Oil and Gas Company Box 1610 Atlantic Richfield Building Midland, TX 79702 Texaco, Inc. Box 3109 7th Floor Midland Savings Midland, TX 79701 HNG Oil Company P.O. Box 2267 Midland, TX 79702 Oil Conservation Division P.O. Box 1980 Hobbs, NM 88240 Alpha Twenty-One Production Company 2100 First National Bank Building Midland, TX 79701 ATTN: Mr. Tom Phipps United States Department of the Interior Minerals Management Service P.O. Drawer 1857 Roswell, NM 88201 ATTN: Armando A. Lopez

Buckskin Federal No. 1

ENERGY	STATE OF NEW MEXICO AND MINERALS DEPARTMENT BIL CUNSERVATION DIVISION CONTRACTOR OFFICE BOX 2008 BANTA FE, NEW MEXICO 8/501
APPLICAT	ION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure HaintenanceATION Divisional Storage Application qualifies for administrative approval? ANDerE no
II. (Operator: Alpha Twenty-One Production Company
	Address: 2100 First National Bank Building, Midland, Texas 79701
(Contact party:Steve McCormick Phone:Phone:S1056
111. N	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
:	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.
1	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:
•	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
t 1 1	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. C	Describe the proposed stimulation program, if any.
	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
8	Attach a chemical analysis of fresh water from two or more fresh water wells (if avai]able and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
	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.
x111. /	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
x1v0	Certification
1	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. Name:
* If the submitt	information required under Sections VI, VIII, X, and XI above has been previously ted, it need not be duplicated and resubmitted. Please show the date and circumstance earlier submittal.

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:
 - 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 usel, 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 well: 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 (eed be shown coly 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 SUBHITTED.

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.

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"BUCKSKIN FEDERAL #1"

660' FSL & 1980' FWL, Sec. 18, T-24-S, R-38-E, Elevation: 3174.5 Casing: 8-5/8", 1295'; 700 sx circulated 5-1/2", 6825'; 1175 sx circulated Date Drilled: 10-3-80 TD: 6825' Completion: Perforations: 6666 - 6726 (26 perfs.), acidized w/ 300 gals 15% NCA, acidized w/6,000 gals 15% NE

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"BUCKSKIN FEDERAL #6"

2310' FEL & 330' FSL, Sec., 18, T-24-S, R-38-E, Elevation: 3180' GL Casing: 8-5/8", 1263.27'; 700 sx 5-1/2", 6811.49', 2410 sx Date Drilled: 7-2-82 TD: 6810' Completion: Perforations: 6716 - 25 (6 perfs) acidize w/1500 gals NEFE 15%.

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"DOESKIN FEDERAL #1"

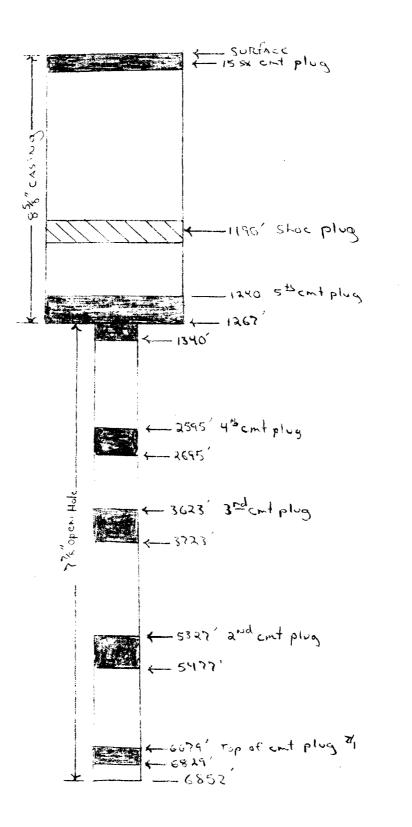
2310' FWL & 2310' FNL, Sec. 18, T-24-S, R-38-E, Elevation: 3189' GL Casing: 8-5/8", 1267'; cemented w/675 sx Date Drilled: 8-9-81 TD: 6852' Plugged and Abandoned: 1st plug: 6679' - 6829' 2nd plug: 5327' - 5477' 3rd plug: 3623' - 3723' 4th plug: 2595' - 2695' 5th plug: 1240' - 1340' 6th plug: @ surface; 15 sx

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Alpi & Twenty One Prod. Co.

"Doeskin "1"

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HUMBLE OIL AND REFINING COMPANY

"FEDERAL KNOX #1"

Completion:

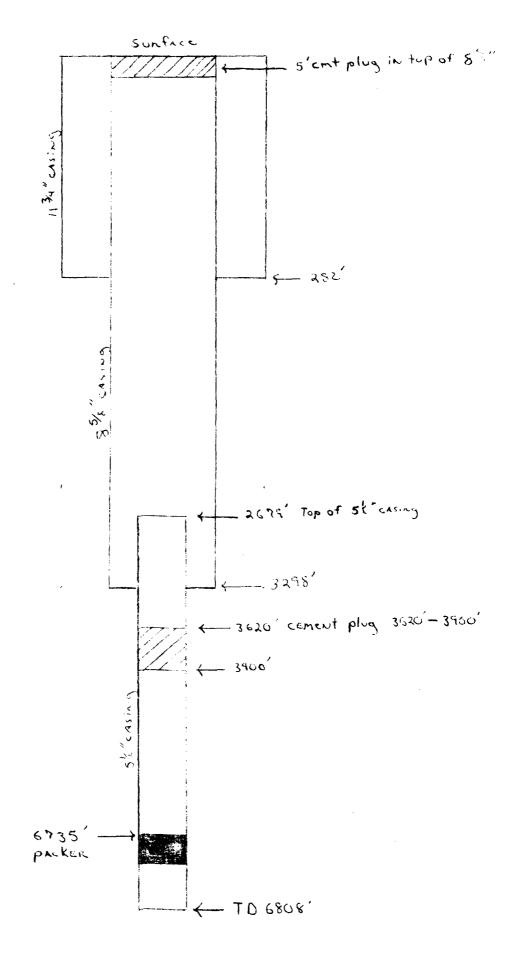
Perforations @ 6775' and 6769' w/6 holes each; acidized w/1000 gals acid, squeezed perfs and set packer @ 6735'.

Perforations @ 5800' w/2 bullet holes; cemented w/ 450 sx, top of cement @ 3210'.

Perforations @ 5376' - 90' w/4 bullets per foot, acidized w/500 gals 15% HCL, squeezed w/175 sx cement.

Perforations @ 5443' - 77' w/4 shots per foot, acidized w/500 gals 15% HCL, squeezed w/95 sx cement.

Perforations @ 3805' - 21', 3830' - 70' w/4 shots per foot, acidized w/1000 gals mud acid, frac w/20,000 gals refined oil and 30,000 lbs sand; placed cement plug from 3900' - 3620' w/35 sx ; shut off 5-1/2" casing @ 3175'; casing parted @ casing bowl; recovered 66 jts., 2630'.



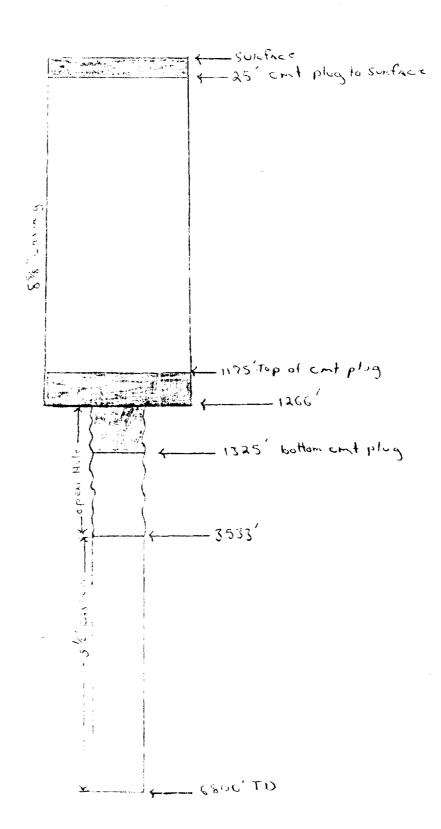
HUMBLE OIL AND REFINING COMPANY

"FEDERAL KNOX #2"

330' FSL & 660' FWL Sec 18, T24-S, R38-E Elevation: 38185' DF Casing: 8-5/8" 24# @ 1266' Cemented w/900 sxs 5 - 1/2''0 6800' Cemented $w/495 \, sxs$ Date Drilled: May 11, 1958 TD: 6800' Completion: Perforation - 6749-62 w/2 shots per foot, acidize w/500 gal., acidize w/3,000 gal., squeezed w/75 sxs Perforation - 6711-19 w/2 shots per foot, acidize w/500 gal., acidize w/3,000 gal. Perforation - 6723-27 w/4 jet shots per foot, acidize w/5,000 gal. frac w/10,000 gals refined oil and 10,000 # sand. Plug & Abandon: Spotted cost, plug area perforation in 5-1/2" casing from

6711 - 6727' with 25 sxs neat cement. Cut off 5-1/2" csg. @ 3533' and pulled from this depth. Removed wellhead, spotted cement plug from 1325' to 1175' w/40 sxs regular cement. Set cement plug from 25' to surface. Hundsle Oil + Refining Co.

"reducal knox #2"



For m 9–331 Dec. 1973		Form Approved. Budget Bureau No. 42–R142
UNITED ST	ATES	5. LEASE
DEPARTMENT OF T	HE INTERIOR	NM-40558
GEOLOGICAL		S. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Constitute and a second s	DIVISION
SUNDRY NOTICES AND I (Do not use this form for proposals to drill or reservoir. Use Form 9-331-C for such proposal	REPORTS ON WELLS E	7. UNIT AGREEMENT NAME
reservoir. Use Form 9-331-C for such proposal	ls.)	8. FARM OR LEASE NAME
1. oil gas		Buckskin Federal
	ry Hole	9. WELL NO.
2. NAME OF OPERATOR	ian Company	#3
Alpha Twenty-One Product 3. ADDRESS OF OPERATOR	ion Company	10. FIELD OR WILDCAT NAME Dollarhide-Tubb Drinkard
2100 1st Natn'l Bank Bld	g. Midland, TX 79701	11. SEC., T., R., M., OR BLK. AND SURVEY (
4. LOCATION OF WELL (REPORT LOC	×	
below.)		Sec 18 T24-S R38-E
AT TOP PROD. INTERVAL: Same		33 12. COUNTY OR PARISH 13. STATE Lea NM
AT TOTAL DEPTH: Same		14. API NO.
16. CHECK APPROPRIATE BOX TO IN	NDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA		15. ELEVATIONS (SHOW DF, KDB, AND W
REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:	3193DF, 3194KDB, 3181GL
TEST WATER SHUT-OFF		(NOTE: Report results of multiple completion or zo change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPL including estimated date of startin measured and true vertical depths	g any proposed work. If well is d	ate all pertinent details, and give pertinent dat directionally drilled, give subsurface locations a ent to this work.)*
an an	d a Baker Lok-set pack	the hole with 2-3/8" tubing ker, set the packer @ 4950' er through the perforations

_

Subsurface Safety Valve: Manu. and Type	_ Set @	Ft.
18. I hereby certify that the foregoing is true and correct SIGNED them f. Metermick TITLE Technical Advisor DATE Feb.	2,1983	
(This space for Federal or State office use)		

APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

_ _ _ _

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO : 1981 0 - 347-166

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

1, _____

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 ___

January 31 , 1983

and ending with the issue dated

January 31 <u>19.83</u> luN lemmy Publisher.

Sworn and subscribed to before

me this <u>15th</u> day of

February Notary Public.

My Commission expires_____

arch 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.



U.

OL CONSERVATION DIVISION SANTA FE

O Box 7 w Mexico 97501 within i days,

INJECTION WILL DATA SHEET

ALPHA TWEN	TY-ONE PRODUCTION CO		FEDERAL	
3	1650' FSL & 1980' F	WL 18	24-S	38-E
WELL NO.	FOUTAGE LUCATION	SECTION	TOWNSHIP	RANGE
Schema	ntic Surface	Тарг	ilar Data	
	[]]	Surface Casing		
8" '2"		Size 8-5/8" "	Cemented wit	h650
<u>8-5/8"</u> 5-1/2" 2-3/8"		TOC Surface fe		
2 5-		Hole size <u>12-1/4'</u>		
		Intermediate Casing		
3'		Size	Cemented wit	h ·
		TOC fe		
		Holc size		
		Long string		
		Size <u>5-1/2"</u>	Cemented wit	b 2190
		TOC Surface fe		
r Lok-		Hole size 7-7/8		······································
@ 4950'	Perfs @	Total depth6800'		
		Injection interval		
ge Plug 7777		5053 feet to	5239	faat
	- Perfs @ - 5412' -	(perforated or greaxing	, indicate which	7
ge Plug	5444'			
90'	//////////////////////////////////////			
	E 5724' -			
ge Plug	- 5896			
00'	- Perfs @ - 6238' -			
	F 6460'			
ge Plug 77777 20'	Dorfa @			
	+ Perfs @ 6710' -			
TD	6740'			
Tubing size _	2-3/8" line	ed with <u>plastic</u> (materi	2])	set in a
Baker Lo		packer at		feet
	d and model) any other casing-tubir	ng seal).		
Other Data				
	he injection formation	San Andres		
	ield or Pool (if appli			
3. Is this a	new well drilled for	injection? / Yes /XI	₹ No	
If no, fo	or what purpose was the	e well originally drilled?	originally dril	led as
aı	n oil well			
4. Has the wand give	ell ever been perforat plugging detail (sacks	ted in any other zone(s)? s of cement or bridge plug(List all such pe s) used)Perfs	rforated interv @ 6710 -6740:
		5412 - 5444. Bridge plug		- ,
5. Give the	depth to and name of a	any overlying and/or underl	yimy oil or gas :	zones (pools) i
this area	. <u>The closest ove</u>	rlying zone is the Queen st oil zone underling is	with a base @ 3	<u>1937', </u>
(358 16	eet away), the heate	ou our bone anderrung ro		, ,

	· · · ·	· Share at the	•	
	OIL CONSERVATION DI DISTRICT I	OIL CONSERV	ATION DIVISION	• •
	- -	SA:	NTA FE	
OIL CONSERVATION DIVISI P. O. BOX 2088	ON	DATEMarch 1,	1983	÷
SANTA FE, NEW HEXICO 87	501	RE: Proposed MC Proposed DH	1C	
	· · · · ·	Proposed NS Proposed NS Proposed SI	SP	
• . •		Proposed WF Proposed PM		
Gentlemen: 1 have examined the app Alpha Twenty-One Product Operator		No. 3-K 18-24-38 No. Unit, S - T	- R	
1 have examined the app Alpha Twenty-One Product	ion Co. Buckskin Lease and Well I		- R	
1 have examined the app Alpha Twenty-One Product Operator	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		•
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a If any pressure is encou	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		•
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a If any pressure is encou	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a If any pressure is encou	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		•
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a If any pressure is encou	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		
1 have examined the app Alpha Twenty-One Product Operator and my recommendations a If any pressure is encour casing stubJ.S.	ion Co. Buckskin Lease and Well I are as follows:	No. Unit, S - T		
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