# UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE\*
(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO **BUREAU OF LAND MANAGEMENT** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN | b. TYPE OF WELL MULTIPLE 8. FARM OR LEASE NAME, WELL NO WELL. Carson Federal I #1R 2. NAME OF OPERATOR Cross Timbers Operating Company 9. API WELL NO. 3. ADDRESS AND TELEPHONE NO. 50-039 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements:\*) Blanco Mesaverde // Sec 34, T28N. 2325' FNL & 1085' FEL 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1452-<del>1988</del>' FNL & <del>1970</del>' FFL Sec 34 Sec 34, T28N R04W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 12. COUNTY OR PARISH 13. STATE Approx 49 from the Post Office in Blanco, NM Rio Arriba NM 15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. NO. OF ACRES ASSIGNED TO THIS WELL 320 16. NO. OF ACRES IN LEASE (Also to nearest drlg. unit line, if any) 660 160 18. DISTANCE FROM PROPOSED LOCATION 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6,600' 0-6,600' with Rotary Tools 21. ELEVATIONS (Show whether DF,RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* 7,265' Ground Level Fall of 2000 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE RADE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12-1/4" 9-5/8" 32.3# +/- 400' 215 sx cl B cmt 8-3/4" 20.0# +/- 4.500 500 sx cmt (total) 6-1/4" 4-1/2" 10.5# +/- 6,600 200 sx cmt (total) This action is excited to technical and probability review purposes to 42 OFR \$165.3 Surface Csg: Cmt 9 5/8 surf csg 440. Cmt w/215 sx cl B cmt w/2% CaCal2 & 1/4 pps celloflake (mixed @ 15.6 ppg & 1.18 cuft/sx). Attempt to circ cmt to surface. Intermediate Csg: Cmt 7" csg @ +/- 4,500'. Cmt w/(lead) 400 sx cl B cmt w/2% D-79 extender, 1/4pps celloflake, 2% CaCl2 (mixed @ 11.4 ppg & 2.87 cuft/sx) followed by (tail) 100 sx cl B cmt w/2% D-79 extender, 1/4 pps celloflake & 2% CaCl2 (mixed @ 13.5 ppg & 1.71 cuft/sx). Attempt to circ cmt to surface. SUBJECT TO GODE HOUSE WITH ATTACHED Production Csg: Cmt 4-1/2" csg @ +/- 6,600'. Cmt w/(lead) 50 sx c 2 E cmt w/2% B-79 extender, 1/4 pps celloflake & 2% CaCl2 (mixed @ 11.4 ppg & 2.87 cuft/sx) followed by (tail) 150 sx cl B w/2% D-79 extender, 1/4 pps celloflake & 2% CaCl2 (mixed @ 13.5 ppg & 1.71 cuft/sx). Est TOC @ 4.000. A BOP stack diagram is included in the drilling prog located in exhibit #5. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposalis to deepen, give dataon presentproductivezone and proposednew productivezone. If proposalis to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. allon Drilling Engineer SIGNED (This space for Federal of State office use) Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the application irect Tonal CONDITIONS OF APPROVAL, IF ANY: APPROVED BY \*See Instructions On Reverse Side

Title 18 U.S.C. Section 100 makes it a crime for any personknowinglyand willfully to make to any departments agency of the United States any false, fictitious or fraudulent statements or representations as to any new person in the person in

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DO, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

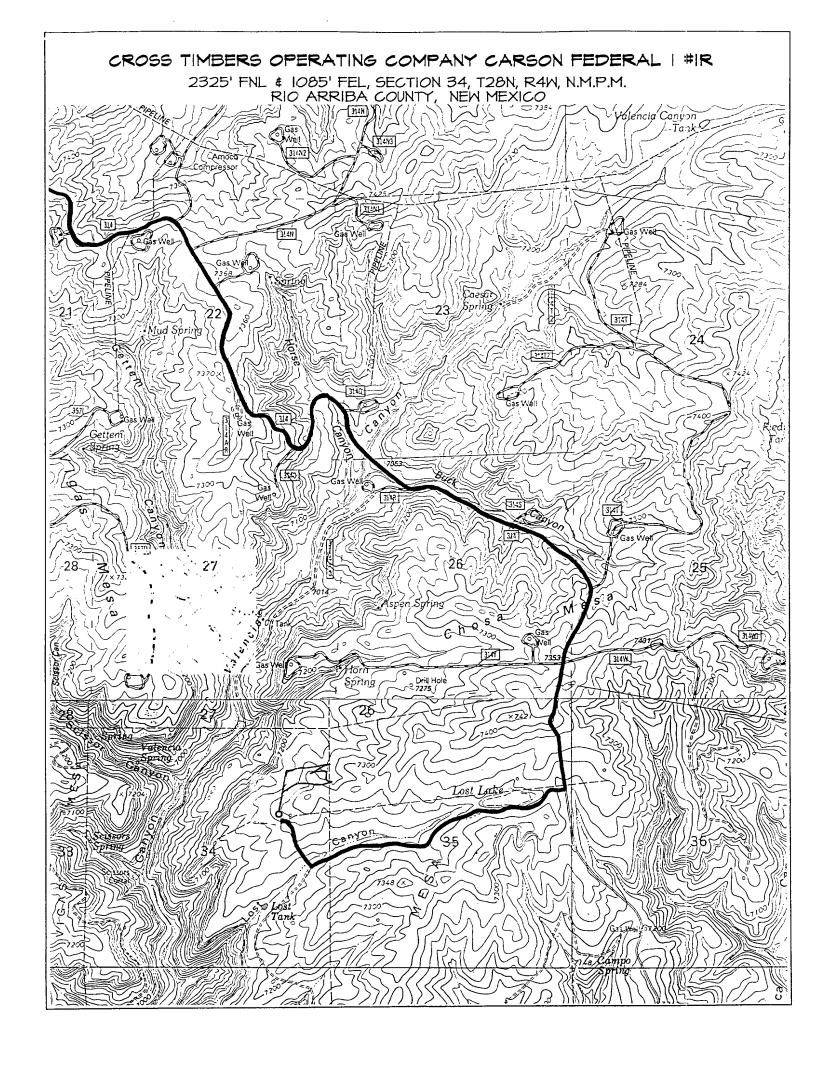
State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office
ISION State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

PO Box 2088, Santa Fe	e, NM 87504-20	88							
	V	VELL	LOCATI	ON AND A	CREAGE DED	ICATION PL	ΑТ		
'API Numb	er	'Pool Code		'Pool Name					
30-039-,2	6505		72319	j	BLANCO MESAVERDE				
'Property Code				Property CARSON FE				*Well Number	
754 00 OGRID No.				*Operator				1R *Elevation	
167067		CF	ROSS TI		ERATING COM	MPANY		7265	
				<sup>o</sup> Surface					
UL or lot no. Section	1	Range 4W	Lat Idn	Feet from the 2325	North/South line	Feet from the	East/West	1 070	
	11 Bot		 Hole L	ocation I		From Surf		ARRIBA	
UL or lot no. Section		Range	Lot Idn	Feet from the	North/South line	Feet from the	/ East/West		
G 34		4W		19462	NORTH	<del>1970</del> SX	EAS	ST RIO ARRIBA	
12 Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Conso	olidation Code	<sup>15</sup> Order No.					
NO ALLOWABLE W	VIII BE AS	STENET		S COMPLETT	THE TENT OF	TNTEDESTS L	AVE DEC	EN CONSOLIDATED	
NO ACLOWADEL. V	OR A N	ION-ST	ANDARD (	UNIT HAS BE	EN APPROVED	BY THE DIVIS	AVE BEE	IN JUNSULTUATED	
5280.00.				TOM-HOLE DCATION	1971/ 1970 1085' SURFACE / LOCATION	Signature Jeff For Printed Produc Title  Oate  18 SURVE I hereby certified was platted for under my stormect to the Signature and	atton Name tion End (fy that the wom field note to my that the wom field note to my that the wom field note to be to find that the wom field note to be to find that the wom field note to be to find that the women to find the women to	ERTIFICATION  well lixation shown on this plat is of actual surveys made by me of that the same is that and selief.	
		52	80.00°			Certifica	ite Numb	OFESSO 7	
		52	80.00'	<u>.</u>		Certifica	te Numb	OFESSE 27	



Form 3160-5 (November 1994)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM AFPROVED Budget Bureau No. 1004-0135 Expires November 30, 2000

Lease Serial No.NMNM - 14922

SUNDRY	NOTICES	ΔND	REPORTS	ON	WELLS
JUNDEL	NULLO	AIVD	NEFORIS	O11	44

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

	<u> </u>	
SUBMIT IN TRIPLICATE	7. If Unit or CA/Agreement, Name and/or No	
1. Type of Well Oil X Gas Well Other  2. Name of Operator		8. Well Name and No Carson Federal I #1R
Cross Timbers Operating Company	COT 2003	9. API Well No.
3a. Address	3b. Phone No. (include area code)	
2700 Farmington Ave., Bldg. K. Ste 4. Location of Well (Footage, Sec., T., R., M., or Survey Descrip 2325' FNL & 1085' FEL Sec 34, T28	ption)	10. Field and Pool, or Exploratory Area Blanco Mesavencle
2323 THE & 1003 TEE 300 34, 120	M, ROAM (Sairtace)	11. County or Parish, State
		Rio Arriba NM
12. CHECK APPROPR	HATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT	,OROTHERDATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Acidize Deepen Productio	on (Start/Resume) Water Shut-Off
	Alter Casing Fracture Treat Reclamati	ion W'ell Integrity
X Subsequent Report	Casing Repair New Construction Recomple	ete X OtherAPD Revision
Final Abandonment Notice	Change Plans Plug and Abandon Temporar	rily Abandon
Final Abandonment Nouce	Convert to Injection Plug Back Water Dis	sposal
If the proposal is to deepen directionally or recomi	Ity state all pertinent details, including estimated starting date of any proplete horizontally, give subsurface locations and measured and true verteformed or provide the Bond No. on file with BLM/BIA. Required su	ical depths of all pertinent markers and zones.

following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final AbandonmentNotices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Cross Timbers Operating Company has revised the APD drilling program attachment for the above mentioned

The enclosed drilling program attachment has been revised as follows:

- 1. Depths have change to reflect the difference in MD and TVD (directionally drilled hole).
- 2. The open hole logging program has been corrected.
- 3. The class of cement has been changed from class "B" to class "G". Cement availability has cause local cement service companys to change their supply. The change from class "B" to "G" has made only slight changes in the cement yield and water requirement.

. I hereby certify that the foregoing is true and correct Name(Printed/Typed)	Title Drilling Engineer		
700	Date 10/5/00		
THIS SPACE FOR FED	ERAL OR STATE OFFICE USE		
Approved by the color	Petr. Eng.	Date	16 00
conditions of approval if any, are attached. Approval of this notice does not we ertify that the applicant holds legal or equitable title to those rights in the sub which would entitle the applicant to conduct operations thereon.	arrant or Office (Ject lease		•

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any departmentor agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

well.

#### **CROSS TIMBERS OPERATING COMPANY**

#### Carson Federal I #1R APD Data October 6, 2000

Surface Location: 2,325' FNL & 1,085' FEL, Sec 34, T28N, R04W County: Rio Arriba State: New Mexico

Bottomhole location: 1980' FNL & 1970' FEL, Sec 34, T28N, R04W

PROJECTED TOTAL DEPTH: ±6,600' (TVD) ±6,698 (MD)

OBJECTIVE:

<u>Mesaverde</u>

GR ELEV: <u>7,265</u>

Est KB ELEV: <u>7,277 (12' AGL)</u>

#### 1. MUD PROGRAM:

INTERVAL	0' to 400'	400' to 4,500'	4,500' to TD
HOLE SIZE	12-1/4"	8-3/4"	6-1/4"
MUD TYPE	FW/Native Mud	FW/Polymer	Air
WEIGHT	8.6-8.8	8.6-9.0	
VISCOSITY	28-32	29-34	
WATER LOSS	NC	NC	

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. RU air compressors after setting the intermediate csg. Drill with air or foam to TD.

#### 2. CASING PROGRAM:

Surface Casing:

9-5/8" casing to be set at  $\pm 400$ ' in 8.6 ppg mud

					Coll	Burst						
}					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-400'	400'	32.3#	H-40	STC	1370	2270	254	9.001	8.972	5.98	5.68	15.73

Intermediate Casing: 7" casing to be set at  $\pm 4,500'$  (MD) 4,448' (TVD) in 9.0 ppg mud.

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-	4,500'	20.0#	J-55	STC	2257	3740	234	6.456	6.331	1.15	1.31	2.57
4,500'												
(MD)												

Production Casing: 4-1/2" casing to be set at 6,698' (MD) 6,600' (TVD) in air.

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-	6,698'	10.5#	J-55	STC	4010	4790	132	4.052	3.927	1.33	1.20	1.90
6,698'												
(MD)												

#### 3. WELLHEAD:

A. Casing Head: 9-5/8" x 4-1/2" 3,000 psig WP (6,000 psig test).

# 4. <u>CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):</u>

A. Surface: 9-5/8", 32.3#, H-40, STC casing to be set at  $\pm$  400'.

<u>Lead:</u> 215 sx of Class "G" cement containing 2% CaCl<sub>2</sub>, ¼ pps celloflake, mixed at 15.8 ppg. 1.145 ft<sup>3</sup>/sk, & 4.97 gal wtr/sk.

Total slurry volume is 246 ft<sup>3</sup>, 100% excess of calculated annular volume to 400'.

B. Intermediate: 7", 20.0#, J-55, STC casing to be set at  $\pm 4,500$ ' (MD).

<u>Lead:</u> 400 sx of Class "G" cement containing 3% D-79 (extender), ¼ pps D-29 (celloflake) and 2% S-1 (CaCl2) mixed at 11.4 ppg, 2.88 ft<sup>3</sup>/sk, 17.89 gal wtr/sx.

<u>Tail:</u> 100 sx of Class "G" cement containing 3% D-79 (extender), ¼ pps D-29 (celloflake) and 2% S-1 (CaCl2) mixed at 13.5 ppg, 1.71 ft<sup>3</sup>/sk, 9.15 gal wtr/sx.

Total slurry volume is 1,319 ft<sup>3</sup>, circulated to surface.

C: Production: 4-1/2", 10.5#, J-55, STC casing to be set at  $\pm 6,600$ ' (TVD) 6,698' (MD).

<u>Lead:</u> 50 sx of Class "G" cement containing 3% D-79 (extender), ¼ pps D-29 (celloflake) and 2% S-1 (CaCl2) mixed at 11.4 ppg, 2.88 ft<sup>3</sup>/sk, 17.89 gal wtr/sx.

Tail: 150 sx of Class "G" cement containing 3% D-79 (extender), ¼ pps D-29 (celloflake) and 2% S-1 (CaCl2) mixed at 13.5 ppg, 1.71 ft³/sk, 9.15 gal wtr/sx..

Total estimated slurry volume for the 4-1/2" production casing is 400 ft<sup>3</sup> for 2,600' of fill. Est. TOC should be @ 4,000'.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 40%.

#### 5. LOGGING PROGRAM:

- A. Mud Logger: There are no plans to use a mud logger at this time.
- B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/CAL/SP/CNL/LDT (lithodensity) from TD to the bottom of the intermediate csg. Run cased hole GR/CCL from TD to surface.

(10 min).

1. Test BOP after installation:

Pressure test BOP to 200-300 psig (low pressure) for 5 min.

Test BOP to Working Press or

to 70% internal yield of surf csg

TO CHOKE MANIFOLD 2" dia min.

San Choke Manifold drawing for

HCR VALVE (OPTIONAL)

2" (MIN) FULL OPENING

VALVE



KILL LINE

2" dia min.

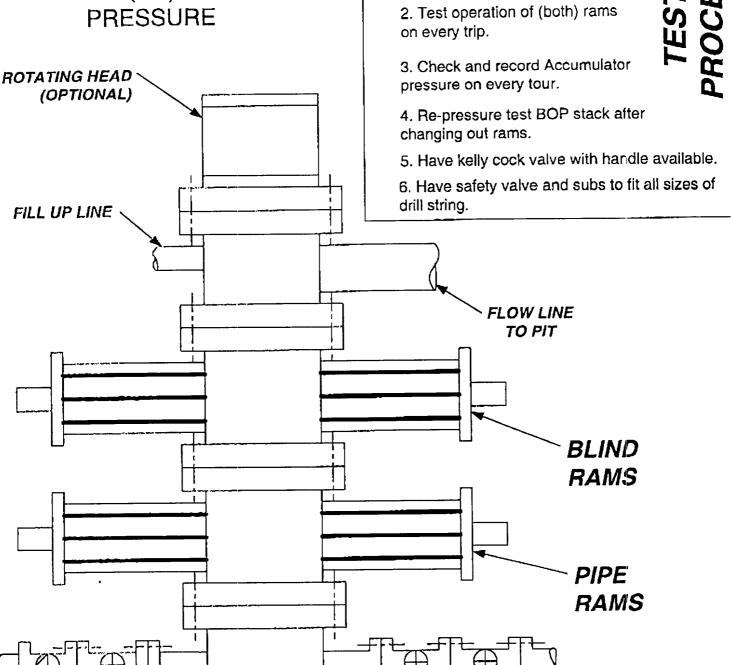
Remove check or ball

from check valve and

press test to same press

ac BOD'c \*\*

# BOP SCEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE



MUD CROSS

Form 3160-5 (August 1999)

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

### FORM APPROVED

OMB NO. 1004-0135	
Expires: November 30, 2000	

TY Date 1 2001

SUNDRY NOTICES  Do not use this form for			NMNM		
abandoned well. Use form	n 3160-3 (APD) for	such proposals	6. If Indian, 2	Allottee or Tribe Name	
SUBMIT IN TRIPLICATE - 0	Other instruction	s on réverse side	7. If Unit or 0	CA/Agreement Name and/or No.	
1. Type of Well Oil Well Gas Well	Other	Willy	8. Well Nam	a and Na	
2. Name of Operator	·	, M		N FEDERAL I(1 12	
CROSS TIMBERS OPERATING CO.		To be 31 (1.4)	9. API Well 1		
3a. Address 2700 FARMINGTON AVE., E FARMINGTON, NM 87401	BLDG K, SUITE 1	3b. Phone No (include of 505.324.1090 Ext	4007 10. Field and	Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R	., M., or Survey Descrip	otion)	<del></del>	O MESAVERDE Parish, and State	
1085FEL 2325FNL	34-1	8-4	SAN JU		
12. CHECK APPROPRIATE	E BOX(ES) TO INDI	CATE NATURE OF N	OTICE, REPORT, OR OT	HER DATA	
TYPE OF SUBMISSION		ТҮРЕ С	OF ACTION		
Notice of Intent  Subsequent Report  Final Abandonment Notice	cidize Iter Casing asing Repair hange Plans onvert to Injection		Fracture Treat  New Construction  Plug and Abandon  Reclamation  Recomplete  Temporarily Abandon		
13. Describe Proposed or Completed Operation (clearly st If the proposal is to deepen directionally or recomplete Attach the Bond under which the work will be perform following completion of the involved operations. If the testing has been completed. Final Abandonment Notice determined that the site is ready for final inspection.)  Cross Timbers Operating Company spudde casing was set @ 418' KB. The casing was surface. On 4/29/01, the BOP's and surface ok. Drilling resumed. SUBMITTING ENGINGERY.	e horizontally, give subsurfaned or provide the Bond No. e operation results in a multices shall be filed only after a led the above mention as cemented w/300 sx ex casing was pressur NEER: JEFF W. PAT	ce locations and measured and on file with BLM/BIA. Requiple completion or recompletional requirements, including reclaimed well @ 2:45 a.m. on Type III cement. 31 bb the tested to 1,000 psig for TONSUBMITTAL DATE	true vertical depths of all pertinentired subsequent reports shall be fill in in a new interval, a Form 3160-4 mation, have been completed, and 4/27/01. On 4/28/01, 9-5/8 is of cement was circulated or 30 minutes. Everything her 5/4/01	markers and zones. es within 30 days shall be filed once the operator has  " surface d to neld	
Committed to AFMSS for processing by Maur	rice Johnson on 05/09/20		ENGINEER		
Name (Printed/Typed) JEFF W. PAT	IVII .	1100	MINMINE		

WOOD

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

which would entitle the applicant to conduct operations thereon.

Title

Office