Form 9-331 C		(COF	Y TO O. C. C.			
(May 1963)	TINU		~	SUBMIT IN T. (Other instru	ction	E* Form approved. Budget Bureau No. 42-R1425.	
	DEPARTMEN	STATES) NITC	reverse s	ide)	30-025-21.105	
		GICAL SURV		RIUR		5. LEASE DESIGNATION AND SEBIAL NO.	
						<u>/C 032233 (a)</u>	
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	NLL 🖄	DEEPEN [PLUG BA		7. UNIT AGREEMENT NAME	
	348 []]						
2. NAME OF OPERATOR	WELL X OTHER			EINGLE MULTIP		S. FARM OR LEASE NAME	
Exxon Corpo	oration				-	Bowers "A" Federal	
3. ADDRESS OF OPERATOR						: 37	
4. LOCATION OF WELL (1	600, Midland, T	exas 79702			:	10. FIELD AND POOL, OR WILDCAT	
	Report location clearly and			State requirements.*)		Byers Queen	
At proposed prod. zo:	FEL and 770'FS ••	L of Sectio	n			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	PER TOWN OD DOG				Sec. 30, T 18 S, R 38 E	
2 miles west		ALSI IOWA OR POSI	OFFIC	, E -	- -	12. COUNTY OR PABISE 13. STATE Lea New Mexico	
15. DISTANCE FROM PROP LOCATION TO NEARES	OSED*		16. N	O. OF ACRES IN LEASE	17. NO. 0	Lea New Mexico	
(Also to nearest drig	ve, FT. (. line, if anv) 66	0'		300	TO TH	HIS WELL	
18. DISTANCE FROM PROI TO NEAREST WELL, D	BILLING COMPLETED		19. р	BOPOSED DEPTH	20. ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH 21. ELEVATIONS (Show wh		None		4,000'	Rota	irv	
3,642'Gr	ether DF, RT, GR, etc.)				:	22. APPROX. DATE WORK WILL START*	
23.		POPOSED GARD			<u> </u>	9-15-79	
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12½ or 11"	SIZE OF CASING	WEIGHT PER FOR	Эт	SETTING DEPTH .		QUANTITY OF CEMENT	
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						800 sx.	
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24.	11 0		<u> </u>				
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CONDITIONS OF APPROVAL	L, IF ANY :	TITLE		SET N=	17	DATE	
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	•			ACTING DISTRICT			
		*See Instructi	ons (On Reverse Side		at a B Kan	
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Exxon Lse No.	NEW ME CONSERVATION COMMISSION	
State Lse. No WE	ELL LOU TON AND ACREAGE DEDICATION PLA	
Federal Lae. No	All distances must be from the outer boundaries of the Section.	
Operator		

Form C+102 Supersedes C-128 Effective 1-1-65

Operator		All distances m	ust be from the outer b	oundaries of the	Section.		
Exxon Corporation			Bowe				
Jnit Letter	Section	Township	Range		ounty	37	
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16			•				
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BOWERS "A" FEDERAL #37 tion 30, T188, R38E Lea County, New Mexico

1. The geologic name of the surface formation: Recent

2. The estimated tops of important geologic markers:

Rustler	1 450'
Salado	1530'
Yates	2 665 '
Bowers	3175'
Queen	3 565'

3. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to occur:

Water	351
Gas	2 665'
0i1	3175'
Gas	3565'

4. Proposed Casing Program:

5

String	Size	Weight/Grade	Condition	Depth Interval
Surface	8-5/8"	24 #/ K−55	New or Used	0 - 500'
Production	5-1/2"	14#/K-55	New or Used	0 - 3900'

5. Minimum specifications for pressure control equipment:

- a. Wellhead Equipment Threaded type 2000 psi WP for 8-5/8" x 5-1/2" casing program and 2-3/8" tubing.
- b. Blowout Preventers Refer to attached drawing and list of equipment titled "Type II-B" for description of BOP stack and choke manifold.

c. BOP Control Unit - Unit will be hydraulically operated and have at least 3 control stations.

d. Testing - When installed on the 8-5/8" surface casing the BOP stack will be tested to a low pressure (200 - 300 psi) and to 1500 psi. Casing rams will be tested in like manner when installed prior to running production casing. An operational test of the blowout preventers will be performed on each round trip (but not more than once each day); the annular and pipe ram preventers will be closed on drill pipe, and the blind rams will be closed while pipe is out of the hole. 6. Type and Anticipated Characteristics of Drilling Fluid:

Depth Interval (Feet)		Veight (ppg)	Funnel Visc. (Sec/Qt)	WL (cc)	_pH
0 - 500	Fresh water	r spud mud	~*	~	
500 - 2500	Brine	10	28	ð a	10+
2 500 - TD	Brine-	10	30-35	20	10.5+
	Starch				

Not less than 200 barrels of fluid will be maintained in the pits. Weighting material should not be needed.

- 7. Auxiliary Control Equipment:
 - a. Kelly Cocks: Upper and lower installed on kelly.
 - b. Safety Valve: Full opening ball type to fit each type and size of drill pipe in use will be available on rig floor at all times, in open position for stabbing into drill pipe when kelly is not in the string.
 - c. Trip tank to insure that hole is full and takes proper amount of fluid on trips. Will be used during drilling of production hole.
 - d. Mud system monitoring equipment and floats at the bit will not be used unless conditions dictate.
- 8. Testing, Logging, and Completion Programs:

a.	Logging:	Surface Casing - TD	GR/FDC/CNL
		1825' - TD	DLL/MLL and Spectral Log

b. No cores or DST's are planned.

c. Completion - Formations: Yates 2665 - 3175', Queen 3565 - 3870'

Proposed Completion Procedure: Stimulate zones separately using bridge plug and packer. Treat each zone by acidizing with 1500 gal 15% HCl and foam fracing with 3000 gal 2% KCl water, 310,000 SCF nitrogen, and 20,000# 20-40 sand. See attached well site layout for approximate positioning of completion equipment.

- d. Production Method: Run packer on 2-3/8" tubing and set between Queen and Yates perforations. Produce Queen gas up tubing and Yates gas up tubing-casing annulus.
- 9. Abnormal Pressure or Other Potential Hazards:
 - a. Yates zone may kick. If flow occurs and does not deplete to a safe level for continued drilling operations, the well will be brought under control by accepted practices.
 - b. No H₂S problem is expected.
- 10. It is anticipated that the drilling and completion operations will begin about September 15, 1979 and be finished in approximately 3 weeks.

EI UT PREVENTER SPECIFICATION EQUIPMENT DESCRIPTION

TYPE II-B

A11	equipment should be at least 2000 psi WP or higher unless otherwise specified.
1.	Rotating BOP.
2.	Hydril or Shaffer bag type preventer.
3.	Ram type pressure operated blowout preventer with blind rams.
4.	Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5.	2-inch (minimum) flanged plug or gate valve.
6.	2-inch by 2-inch by 2-inch (minimum) flanged tee.
8. 9. 10. 11.	 4-inch flanged gate or plug valve. Ram type pressure operated blowout preventer with pipe rams. Flanged type casing head with one side outlet (furnished by Exxon). 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon). Flanged on 5000# WP, threaded on 3000# WP or less.
12.	Needle valve (furnished by Exxon).
13.	2-inch nipple (furnished by Exxon).
14.	Tapped bull plug (furnished by Exxon).
15. 16. 17.	<pre>4-inch flanged spacer spool. 4-inch by 2-inch by 2-inch flanged cross. 2-inch flanged plug or gate valve.</pre>
17. 18. 19.	2-inch flanged adjustable choke. 2-inch threaded flange.
20.	2-inch XXH nipple.
21.	2-inch forged steel 90° Ell.
22.	Cameron (or equal.) threaded pressure gage.
23.	Threaded flange.
24.	6-inch manual or pressure operated gate valve.
35.	2-inch flanged tee.
36.	3-inch (minimum) hose. (Furnished by Exxon).
37.	Trip tank. (Furnished by Exxon).
38.	2-inch flanged plug or gate valve.
39.	2-1/2-inch pipe, 300' to pit, anchored.
40.	2-1/2-inch SE valve.
41.	2-1/2-inch line to steel pit or separator.
NOTE	ES:
1.	Items 3, 4 and 9 may be replaced with double ram type preventer with side outlets between the rams.
2.	The two values next to the stack on the fill and kill line to be closed unless drill sting is being pulled.

- 3. Kill line is for emergency use only. This connection shall not be used for filling.
- 4. Replacement pipe rams and blind rams shall be on location at all times.
- 5. Only type U, LWS and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6. Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi and lower WP BOP stacks.



MIDLAND DAILLING ORGANIZATION BLOWOUT PREVENTER SPECIFICATION TYPE II - B

SURFACE USE PLAN

Exxon Corporation-Development Well

Bowers "A" Federal #37, Federal Lease No. 032233 (A) 660' FEL and 770' FSL of Section 30, T18S, R38E, Lea County, New Mexico

 EXISTING ROADS - The existing roads are shown on Exhibit "A" which is a portion of the Hobbs West Quadrangle in relation to the proposed Bowers "A" Federal, Well No. 37.

From Hobbs go westerly one mile on Highway 180 thence northerly one mile to an intersection with an east-west road. Go west on this road approximately one-half mile then north 660' to the location.

- 2. PLANNED ROADS Since this location will be constructed adjacent to an existing road, no new roads will be needed.
 - 1) Width no road will be built
 - 2) Maximum grades no road will be built
 - 3) Turnouts No turnouts will be necessary
 - 4) Drainage design None
 - 5) No culverts will be required
 - 6) Surfacing material None
 - 7) Necessary gates, cattleguards or fence cuts none
 - 8) There will be no center-line flagging.
- 3. LOCATION OF EXISTING WELLS WITHIN ONE MILE RADIUS -
 - Water wells There is only one known water well within one mile of the drillsite which is located approximately 1,500 feet north of the location. This will be our water source well and is on the Exxon lease.
 - Abandoned wells Several dry holes are within one mile of the drillsite as shown on Exhibit "D".
 - 3) Temporarily abandoned wells See Exhibit D
 - Disposal wells none
 - 5) Drilling Wells none
 - 6) Producing wells Shown on Exhibit "D"

- 7) Shut-in well none
- 8) Injection wells none
- 9) Monitoring or observation wells for other resources nome
- 4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES -
 - A. Exxon has storage facilities in Sections 29 and 30 together with flow lines and other related equipment as shown on Exhitit "C".
 - B. In the event of production, new facilities are shown on Exhibit "B"
 - 1) Proposed location and attendant lines by flagging if off of well pad.
 - 2) Dimensions of facilities are shown on Exhibit "B".
 - Production facilities will be constructed on drillsite pad using caliche surface.
 - Equipment and pit will be fenced and flagged to protect livestock, if necessary.
 - C. Rehabilitation will be done on any disturbed areas no longer needed for operations after completion of the production facilities. This will consist of reshaping the existing surface and seeding as specified.
- 5. LOCATION AND TYPE OF WATER SUPPLY -
 - A. Water will be piped from water well located approximately 1500' north of the location. The pipeline will be laid on top of the ground directly between the water well and the drillsite.
 - B. Water will be transported by pipeline laying on the surface of the ground. No surface will be disturbed.
 - C. No water well will be drilled.
- 6. SOURCE OF CONSTRUCTION MATERIALS -
 - A. Caliche will be obtained from a pit in Section 20 or Section 29, both of which are off of the lease. Both pits are privately owned.
 - B. No construction materials will be used from Federal lands.
 - C. Caliche secured from private sources will be used where needed on the road and drillsite.
 - D. All access roads are shown on Exhibit "A".
- 7. WASTE DISPOSAL -
 - A. Drill cuttings will be disposed of in the reserve pit.
 - B. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

- C. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- D. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- E. Current laws and regulations pertaining to disposal of human waste will be complied with.
- F. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.
- 8. ANCILIARY FACILITIES No camps, airstrips, et cetera, will be constructed.
- 9. WELL SITE LAYOUT -
 - A. Refer to Exhibit "B" for well site layout.
 - B. Dimensions may vary slightly depending on size of drilling rig available.
 - C. Terrain at the well site is very flat as shown on Exhibit "B".
 - D. The pad will be topped with caliche obtained from private sources.
 - E. The reserve pit will be approximately 150'x150' top width.
 - F. Frac equipment is shown on Exhibit "B" and consists of nine trucks and two tanks. It will be located in the southeast portion of the drillsite.
- 10. RESTORATION OF SURFACE -
 - At the time of completion and abandonment of the well, the pits will be backfilled and the entire disturbed area will be sloped to coincide with the adjacent undisturbed area. The top soil will be distributed over the entire disturbed area. Prior to leaving the drillsite upon rig move out and before reshaping any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.
 - 2) When well is abandoned drill pad and other disturbed areas will be rehabilitated as per BLM recommendations.
 - 3) Any rehabilitation of the drill pad will comply with BLM specifications.
 - 4) Any oil on pits will be removed or otherwise disposed of to USGS and BLM approval.
 - 5) Rehabilitation operations will be completed as soon as practical after abandonment of the well and no later than the Fall after abandonment.
- 11. OTHER INFORMATION -
 - A. Terrain Flat prairie.
 - B. Soil Sandy loam.

- C. Sparse vegetation native grasses.
- D. There are no ponds, water wells, archaeological, historical or cultural sites in the immediate area. Approximately 300 feet south of the drillsite is an inhabited mobile home.
- E. Surface is not used.
- F. The drillsite is in an area formerly used by a company camp in which houses, streets and other facilities normally found in a camp existed. The total effect on environment of drilling and producing in this area would be minimal. No known archaeological historical or cultural sites exist in the drillsite area.
- G. Surface ownership the drillsite is located on private lands owned by William C. Grimes, Box 1366, Hobbs, New Mexico.
- H. Open Pits All unattended pits containing mud or other liquids will be fenced.
- I. Well sign Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.
- 12. OPERATOR'S REPRESENTATIVE Field representative who can be contacted concerning compliance of this Surface Use Plan is:

H. G. Davidson
P. O. Box 1600
Midland, Texas 79702
Office Phone: (915) 683-0263
Home Phone: (915) 694-5324

13. CERTIFICATION - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Exxon Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the well site during the drilling of the well for reference by all contractors and subcontractors.

winden

H. G. Davidson Division Drilling Manager

MK:dc





R-38-E

