(May 1963)	MOCC COPY		ICATET	Form approve	10 21
	TED STATES	(Other instru. reverse sid	IS OD	Budget Bureau	No. 42-R1425.
DEPARTMENT OF THE INTERIOR				5. LEASE DESIGNATION AND SERIAL NO.	
GEOLOGICAL SURVEY				NM -0486483	
APPLICATION FOR PERMIT TO DEEPEN, OR PLUG BACK				IF INDIAN, ALLOTTES	· · · ·
1a. TIPE OF WORK				<u></u>	
DRILL 🛛	DEEPEN DEEPEN	PLUG BAC	Ж 🗌 7	UNIT AGREEMENT N	LMB
b. TYPE OF WELL OIL WELL GAS WELL GAS	MAR 9 1510	FY SINGLE MULTIPL		FARM OR LEASE NAM	/R.
WELL WELL OTHER 2. NAME OF OPERATOR	UCICAL SURV	ZONE LA ZONE			eral (m
Durham, Inc.	MAR 9 1910 S. HEULUGICAL SURV	U		WELL NO.	CLAT (Cm
3. ADDRESS OF OPERATOR	à belleugical sont Artesia, NEW MEXIC	RECEI	VED	- 1	
219 S. Colorado. Midla	and. Texas '	79701	10.	FIELD AND POOL, O	
4. LOCATION OF WELL (Report location clearly At surface 660' FNL x 2010'	and in accordance with FEL	any State requirements.*) MAR 21	1979 ACe		orrow)
	עניז	mpar & T		SEC., T., R., M., OR H AND SUEVEY OR AR	
At proposed prod. zone Same		0. C.		Sec. 8, T-	21-5, 21心下
14. DISTANCE IN MILES AND DIRECTION FROM				COUNTY OF PARISH	13. STATE
17 miles NW of Carlsba	ad, N. M.			Eddy	N.M.
15. DISTANCE FROM PROPOSED* Location to nearest Property or lease line, ft.	· ·	16. NO. OF ACRES IN LEASE	17. NO. OF AC TO THIS V	WELL	
(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*	660'	320 19. proposed depth	20. ROTARY O	320 R CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, or applied for, on this lease, ft.	NA			otary	
21. ELEVATIONS (Show whether DF, RT, GR, etc	.)			2. APPROX. DATE WO	BK WILL START*
	<u>) († 187. •) • </u>			March 15,	1979
23 .	PROPOSED CASING	AND CEMENTING PROGRA	M		
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOO			QUANTITY OF CEMEN	í r
<u>17¹/₂"</u> <u>13 3/8"</u>	48#	4001		Reverse	
$\frac{12\frac{1}{4}}{7}$ 9 5/8"	32.3 & 3	<u>6# 3200'</u> 9800'		e Reverse	
82"- 7 7/0" *)2"	1/17	9000	1 Dee	Reverse	
BOP Program: See Exh	ibit "D"	N			
Mud Program: Interva	l Type Mu	d× stratet ∑s stratet	Veight(F	<u>PPG)</u> -	Vis(SEC)
A Autoria					2
A Autoria	Fresh wat	er - spud mud	8.6 - 8	3.9	2
not hedicated 0-400.	Fresh wat	er - spud mud	8.6 - 8	3.9	34 - 36
400 -400 · 400 - 3200 · 3200 - 6500 ·	Fresh wat Fresh wat FW + Floc of brin	er - spud mud er w/addition e	8.6 - 8	3.9	34 - 36
(100 - 400 · 400 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · - 3200 · -	Fresh wat Fresh wat FW + Floc of brin Cut brine	er - spud mud er • w/addition e - 3.5% KCl	8.6 - 8 8.3 - 8 8.4	Contraction of the second sec	3 ⁴ - 36 28 28 28
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0-400; 400;-3200; 3200;-6500; 3200;-6500; 11,00;-6500; 8000;-9800; *If severe lost circul 7500;, a 6 1/8" hole; If severe lost circul 77/8" at 7500; and 5 in Above space pescence proposed program zone. If proposal is to drill or geepen direc	Fresh wat Fresh wat FW + Floc of brin Cut brine w/LCM Cut brine lationeis en drilled to T ationeis not ¹ / ₂ " casing wi : If proposal is to deepe	er - spud mud er + 3.5% KCl + 3.5% KCl + gel+Drispac countered, a 7" D, and 4½" 10.5 encountered, th 11 be set at TD m or plug back, give data on pr data on subsurface locations an	8.6 - 8 8.3 - 8 8.4 8.6 - 9 8.8 - 9 23# lir and ll. he hole	9.9 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	34 - 36 28 28 - 38 36 - 38 e set at set at TD. educed to d new productive ns. Give blowout
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0-400: 400'-3200' 3200'-6500' 3200'-6500' 11. 30. 1.6500'-8000' * If severe lost circul 7500', a 6 1/8" thole ' If severe lost circul 77/8" at 7500' and 5 IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM zone. If proposal is to drill or deepen direc preventer program, if any. 24. SIGNED Les Skittmer; (This space for Federal or State office us	Fresh wat Fresh wat FW + Floc of brin Cut brine w/LCM Cut brine lation is en drilled to T ation is not 12" casing Wi : If proposal is to deeper cucc TITL P.E.	er - spud mud er • W/addition e + 3.5% KCl + 3.5% KCl + gel+Drispac countered, a 7" D, and 4½" 10.5 encountered, th 11 be set at TD mor plug back, give data on pr data on subsurface locations an 	8.6 - 8 8.3 - 8 8.4 8.6 - 9 8.8 - 9 23# lir and ll. he hole	9.9 9.0 9.0 9.0 9.0 9.0 9.0 9.0	34 - 36 28 28 - 38 36 - 38 e set at set at TD. educed to d new productive ns. Give blowout
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*See Instructions On Reverse Side

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ocal, area, or regional procedures and practices, either are shown below or will be issued by, or may ent subsurface location or to a new reservoir, use this form with appropriate notations. Consult opsuls or reports on the well. Federal or Indian land should be described in accordance with Federal requirements. Consult local	or on this reverse side, show State agency offices. e production zone. re started.				00 139.4 78380: 30 05 05 88 1
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posuls or reports on the well.	I by road from the land or lease description. A plat, or plats, separate or on this reverse sid required information, should be furnished when required by Federal or State agency offices. give distances for subsurface location of hole in any present or objective production zone. opriate officials, concerning approval of the proposal before operations are started.	t insertation.	in the second	ร้างการสาร โดย 1.55 (1996) 1996 (1996) 1997 (1997) 1997 - 1997 (1997) 1997 (1997) 1997 (1997) 1997 - 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1	d 1000 contract 1000 contract 1000 1000 1000
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N MEXICO OIL CONSERVATION COMMISS. 4 WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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DURHAM, INCORPORATED			<u>`</u> m	Well No.
Unit Letter Section Township B 8 21 Sou	th 24	East	Eddy	
Actual Footage Location of Well: 660 feet from the North	line and 2010	feet f	_{rom the} East	line
Ground Level Elev. Producing Formation 3850' Morrow	Pool Ceme	etary-Morro	W	Dedicated Acreage: 320 Acres
 Outline the acreage dedicated to the If more than one lease is dedicated interest and royalty). 	to the well, outline	each and ident	ify the owner ARP	lgr 1979 oth as to working
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	Unit Leas	Boundary Boundary	l hereb shown o notes o under m is true	y certify that the well location n this plot was plotted from field f actual surveys made by me or y supervision, and that the same and correct to the best of my ge and belief.
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APPLICATION FOR DRILLING

Durham, Inc. Shell Federal Well No. 1 660' FNL and 2010' FEL Section 8, T-21-S, R-24-E Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Durham, Inc. submits the following ten items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is the Queen.

2. The estimated tops of geologic markers are as follows:

San Andres	890'	Wolfcamp	6725'
Glorieta	2520'	Strawn	8500
Bone Spring	31 50'	Atoka	9101'
Third Bone		Morrow	9.450
Spring		Barnett	9782
Sandstone	6675"		

3. The estimated depths at which anticipated water, oil or gas formations are to be encountered:

Water: Approximately 200 feet Oil or gas: Morrow at approximately 9400' - 9800'

- 4. Proposed casing program: See Form 9-331C.
- 5. Pressure control equipment: See Exhibit D.
- 6. Mud program: See Form 9-331C.
- 7. Auxiliary equipment: Ram type blowout preventer, annular and rotating type blowout preventers, Kelley cock.
- 8. Testing, logging and coring programs:

Electric logging: GR/CNL: TD - Surf Logging: Mud logging from 6500' to TD Coring: None Drill Stem tests: Morrow - 3

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated starting date: As soon as possible.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Durham. Inc. **PFCEIVED**

Durham, Inc. Shell Federal Well No. 1 660' FNL and 2010' FEL Section 8, T-21-S, R-24-E Eddy County, New Mexico (Development Well)

MAR 9 1979

U.S. GEULUGICAL SURVEY ARTESIA, NEW MEXICO

This plan is submitted with Form 9-331C, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS.
 - A. Exhibit "B" is a portion of the topographic map on a scale of 1" = 1 mile, showing the location of the proposed well site with detailed access road shown in red. Exhibit "A" is a schematic of the pad area and the new road into the location. The proposed location is situated approximately 17 miles northwest of Carlsbad, New Mexico, via the access road shown in red on Exhibits A and B.
 - (1) Starting at the intersection of highways 285 and 137, 12 miles north of Carlsbad, go west on highway 137 8.8 miles.
 - (2) At this point, turn right (north) onto an unnumbered blacktop road. (This turnoff is indicated by a sign on the north side of highway 137, reading "Sitting Bull Falls" with an arrow pointing west.)
 - (3) After leaving highway 137, continue north for a total distance of approximately 2.3 miles. At this point, turn right onto another blacktop road, known as the Seven Rivers Road. Continue in a northeasterly direction approximately 2.8 miles down this road, then turn right on an existing ranch road and proceed east .25 mile toward the stock pond. The proposed new access road will begin approximately 25 yards west of the pond (the existing ranch road from the blacktop to the new access road will be improved).

- 2. PLANNED ACCESS ROAD.
 - A. The proposed new access road will be approximately 250 yards in length from point of origin to the southeast corner of the drilling pad. The proposed road will run in a southeasterly direction along the western edge of an existing pipeline right-of-way.
 - B. The new road will be 12 feet in width (driving surface) and will require no cattleguards or culverts.
 - C. The new road will be covered with the necessary depth of caliche. The surface will be crowned, with drainage on both sides.
 - D. The center line of the new road has been flagged and is clearly visible.
- 3. LOCATION OF EXISTING WELLS.
 - A. The well locations in the vicinity of the proposed well are shown in Exhibit E. There are several producing wells within a one-mile radius. The nearest production is a well at 1650' FSL and 1980' FEL of Section 8, T-21S-R24E.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.
 - A. There are no producing oil or gas wells on this lease at the present time.
 - B. A two-inch gas pipeline, owned and operated by David Fasken runs generally NW-SE some 25' east of the proposed location as shown on Exhibits "A" and "C". This line operates at a pressure of approximately 500 psig and is buried 36" below ground. The line will be well marked during construction operations, and if conditions require, the line will be temporarily shut off by David Fasken.
 - C. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad west of the Fasken line. If the well is productive of oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.
- 5. LOCATION AND TYPE OF WATER SUPPLY.
 - A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCES OF CONSTRUCTION MATERIALS.

A. Any caliche required for construction of the drilling pad and the new access road will be obtained from an existing pit on federally owned surface in Section 6-T21S-R24E.

7.. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the USGS for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with aminimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES.

A. None required.

9. WELLSITE LAYOUT.

- A. Exhibit C shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The ground surface at the drilling location is gently sloping with a rise toward the west. Cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.
- C. The reserve pits will be plastic lined.
- D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY.

- A. The wellsite and access route are located in a gently undulating area.
- B. The topsoil at the wellsite is moderately hard sand, with some "gyp" and rock near the surface.
- C. The vegetation cover at the wellsite consists primarily of prairie grass, mesquite, and greasewood. No wildlife was observed. It is likely that other typical semi-arid desert wildlife, such as coyotes, gophers, rodents and snakes inhabit the area. The area surrounding the location is used for cattle grazing.
- D. There is a one-acre stock pond approximately 250 yards northeast of the wellsite which is fed by rain water runoff. A diverting dam will be constructed around the pit area to prevent contamination of the pond by escaping drilling fluids, chemicals, etc.
- E. There are no occupied dwellings or windmills in the vicinity of the proposed site.
- F. The wellsite is located on federally owned surface.
- G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

12. OPERATOR'S REPRESENTATIVES:

A. The field representative responsible for assuring compliance with the approved surface use plan is:

Les Skinner, P. E. Engineer Durham, Inc. 219 S. Colorado Midland, Texas 79701

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 Durham, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

March 7, 1979

LA S

Les Skinner, P. E. Engineer Durham, Inc.







BLOWOUT PREVENTOR SKETCH



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DURHAM, INC. SHELL FEDERAL #1 660'FNL × 2010'FEL SEC 8, T21S, R24E EDDY Co., N.M.

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