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	DEPARTMENT)R			5. LEANE DESIGNATION	AND BERIAL NO.	
	GEOLO	GICAL SURVE	EY			i.	0379454-A		
APPLICATIO	N FOR PERMIT T	O DRILL, D	DEEPEN	, OR F	LUG B	ACK	6. IF INDIAN, ALLOTTE	B OR TRIBE NAME	
1a. TIPE OF WORK		DEEPEN [UG BAC		7. UNIT AGREEMENT	NAMB	
	AS OTHER		SINGL Zonb	• <u> </u>	MULTIPL ZONE		8. FABM OR LEASE NA		
2. NAME OF OPERATOR							R. F. Legg	lett "A"	
BRUNSON & MCKN	IGHT, INC.	<u></u>					9. WELL NO.		
0	3. ADDRESS OF OPERATOR							10. FIELD AND POOL, OR WILDCAT	
Box 297, Hobbs	NM 88240 Report location clearly and	in accordance wit	h any Stat	requirem	ents.*)		Wildcat		
At surface			-				11. SEC., T., B., M., OB BLK. AND SUBVEY OB AREA		
1980' FNL &	660' FWL Sec. 34	, T-21-S, I	R-33-E	. •			AND SURVEI OF A	R.L.A	
At proposed prod. 10							34-21S-33E		
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TO DESTANCE FROM TROPOSED DOCATION TO DESTRUCE TWELL, DRILLING, COMPLETED,							ble & rotary		
OR APPLIED FOR, ON THIS LEASE, FT. NONE 4000 COLOR						22. APPROX. DATE WORK WILL START			
· · · · · · · · · · · · · · · · · · ·	ether Dr, KI, GA, ew.)						5/31/73		
23.		ROPOSED CASIN	IG AND C	EMENTIN	G PROGRA	M			
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812E OF HOLE	BIZE OF CASING	32#				200 (x. circulate	· · · · · · ·	
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			" <u> </u>						
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** The quantity of cement used to cement the 4 1/2" production casing will be adequate to circulate cement. The quantity of cement used has been calculated using an excess factor of 50%.

The attached drawing depicts the type of 900 series blowout preventer that will be used.

Mud program attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BIGNED	Agent	DATB5/25/73
(This space for Federal or State office use)		
PERMIT NO	APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·
APPROVED BY	TITLE	:
CONDITIONS OF APPROVAL, IF ANT :		

*See Instructions On Reverse Side



4366

SHAFFER HYDRAULIC BLOWOUT PREVENTERS (Patented)

TYPE B and TYPE E PREVENTERS

Shaffer Type B and Type E Blowout Preventers are similar in basic design and construction, except that the Type B has a *non-rising* locking shaft (for applications where end dimensions must be kept to a minimum) —and the Type E has a *rising* locking shaft (to provide quick indication of ram position where end dimensions are not critical). Externally, the only visual difference between the two designs is in the end caps, as shown in Fig. 52 and 53. Internally, there are differences in the locking shaft parts, as shown in the exploded views, Figs. 58 and 61.



Shaffer Type & Hydraulic Double Blowout Preventer-Front View

10" Shaffer Type B Series 900, Double Hydraulic w/Payne Closing Unit. SIDE DOOR RAM CHANGES

In Type B and Type E Preventers, access to the ram compartments is through heavily-ribbed side doors, which are hinged and bolted to the body. The doors

are fitted with adequate packing to amply withstand the pressure rating of the Preventer, and are opened by simply loosening four cap screws in each door, whereupon they can be readily swung open. The cap screws remain in the door when opened, eliminating risk of losing or misplacing them.

Each side door incorporates a horizontal guide which, in conjunction with integral guides in the opposite side of the body, holds the ram assemblies in accurate horizontal alignment when the doors are closed. Therefore, the ram assemblies are automatically centered in the Preventer body by simply closing and bolting the doors. Note in Figs. 15 through 18, Page 4347, the ease with which rams are changed through the side-opening doors.



Shaffer Type & Hydraulic Double Blowout Proventer—Front View

PROPOSED MUD PROGRAM

LEGGETT #1

0' - 350': Spud mud consisting of AQUAGEL flocculated with Lime. HYSEAL if needed for seepage loss of fluid.

 $\frac{350' - 1600'}{31-32}$ Drill out with existing mud and control the native viscosity $\frac{31-32}{500}$ Sec/1000 cc with water additions at the flowline. Use HYSEAL for seepage loss of fluid.

1600' - 3500': Top of the Rustler Anhydrite, start additions of brine water to build and maintain volume. This should help reduce the hole enlargement in the salt section. The mud weight will increase to 10#/gallon plus from system being salt saturated from drilling of the salt section this interval. If native solids are insufficient to maintain the viscosity 31-32 Sec/1000 cc, use ZEOGEL to control the viscosity. Use HYSEAL for seepage loss of fluid. Fluid loss control is not necessary through this section.

<u>3500' - TD</u>: To the existing fluid, lower the fluid loss to 10-15 cc with IMPERMEX and increase the viscosity to 34-36 Sec/1000 cc with ZEOGEL. If severe seepage occurs, treat with HYSEAL and MICATEX. Maintain these properties to total depth unless hole conditions warrant a change.

Burneon & McKright, Inc. R. F. Lesgett * %* I I I Control Section			All distances must be fr	on the outer boundaries o	f the Section	
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BYRON M. MCKNIGHT

TELEPHONE 505 393-7411

POST OFFICE BOX 297

HOBBS, NEW MEXICO 88240

May 29, 1973

U. S. Department of the Interior Geological Survey 205 North Linam Hobbs, New Mexico 88240

Attention: Mr. Arthur R. Brown

Re: Brunson & McKnight, Inc. R. F. Leggett "A" #1 1980' FNL & 660' FWL Sec. 34, T-21-S, R-33-E Lea County, New Mexico

Gentlemen:

The following is a developmental plan for usage of the surface land and the drilling and completion of the captioned well.

- 1. The attached plat shows the existing roads and the proposed new road into the location.
- 2. There are currently no existing wells in the section where the proposed well is to be located.
- 3. The attached plat shows the layout and dimensions for the rig, pits and access road.
- 4. There are no existing tank batteries. If commercial production is found, a tank battery will be constructed on the location of the proposed well and no additional land will be used. All flow lines will be on this location also.
- 5. All water required for drilling will be hauled to the location by truck.
- 6. All waste materials will be disposed of in a proper manner. All trash, including lunch sacks, cans, etc., will be collected and buried. All scrap metal and wood will be collected and buried or hauled away. Any waste oil or brine will be hauled away or otherwise properly disposed of.
- 7. After drilling activities have ceased, the location will be cleared, the pits will be leveled, and the contours of the land restored as nearly as possible to their former condition.

Yours truly,

BRUNSON & McKNIGHT, INC.

you my fingth

Byron M. McKnight



