APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR.PLUIGHBACK 6. IF INDIAN, ALLOTTER OR TRIBE NAME 1a. TTPE OF WORK DRILL © DEEPEN □ PLUG BACK □ 0. TTPE OF WELL OTHER SINGLE MULTIPLE 2. NAME OF OPERATOR POKer Lake DEEPEN □ POKer Lake Charles B. Gillespie, Jr.	Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMENT	ED STATES OF THE II LAND MANAG	NTERIC	SUBMI (Oth-	EIVEN tr IN JI er instructi reverse side 23 88		30-515- Form approved. Budget Bureau M Expires August 5. LEASE DESIGNATION NM-0522	31, 1985
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Charles B. Gillespie, Jr. Post Office Box 8, Midland, Texas 79702 Post Office Box 8, Midland, Texas 79702 Abbreas or operators Post Office Box 8, Midland, Texas 79702 Post Office Box 8, Midland, Texas 79702 4. Docation of well (Report location clearly and in accordance with any State requirements.) At surface Same Wildcat At proposed prod. sone Same Wildcat Wildcat 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Is. Bec. r. B. M., or BEK. ADD POOL OR WILDCAT Approximately 17 miles East of Malaga, New Mexico Proposed Prosebution Prove Panish Is. Bistance From Proposed Difference 15. DISTANCE FROM PROPOSED Docation to Namestry on Lakes Fine. 810' 160 17. No. or access assigned To THIS Well, Balling, OMPLETED, To NAMEST WELL, BRILING, COMPLETED, To NAMEST WELL, BRILL OF CASING 19. PROPOSED DEPTH TO CAREST OR CASE ASSIGNED 23. PROPOSED CASING AND CEMENTING PROGRAM 23. PROPOSED CASING AND CEMENTING PROGRAM 23. PROPOSED CASING AND CEMENTING PROGRAM 23. Size or casing	OIL GJ WELL W								ED
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11" 8 5/8" 24.32# 4325'	SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FO	TOT	SETTING DE	ертн		QUANTITY OF CEMEN	T
	17 1/2"	13 3/8"			600'		See Er	khibit F and G	CIRCULATE

Mud Program: See Exhibit G.

B.O.P. Program: Series 1500 B.O.P., Installed at offset. See Exhibit E.

Gas Not Dedicated 12.0 : - -PLET ID-1 NAC API 1 \bigcirc Ľ N N N 12-30-88 \odot IN about E SPACE-DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone IIf proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer programs, if any 24. TITLE Production Manager Nh DATE 11-21-88 SIGNED (This space for Federal or State office use)

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

HEW MEXICO OIL CONSERVATION COMMIL JON WELL LOCATION AND ACREAGE DEDICATION PLAT

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

	All distances must be f	rom the outer boundaries	of the Section.	
Operator Charles B. Gill	espie. Jr.	Lease Poker La	ke Unit	Weil No. X70
Init Letter Section	Township	Range	County	
P 28	24 South	31 East	Eddy	
ctual Footage Location of Well: 810	south line and	810	ieet from the east	: line
teet from the	Formation	Pool	LENYON	Dedicated Acreage:
3472.7 Ca	inyon			40 Acres
 Outline the acreage dec If more than one lease interest and royalty). 				
Yes No If answer is "no," list this form if necessary.). No allowable will be ass	n, unitization, force-pool If answer is "yes," type of the owners and tract desc bigned to the well until al	ing. etc? of consolidation criptions which have l interests have beer	actually been consoli consolidated (by co	dated. (Use reverse side of mmunitization, unitization, en approved by the Commis-
sion.				CERTIFICATION
 			tuined best of Nome David	y certify that the information con- herein is true and complete to the my knowledge and belief. /// And And W. Hastings
			Company	ction Manager les B. Gillespie, Jr. 1-88
		076	shown notes under n is true	by certify that the well location on this plat was plotted from field of actual surveys mode by me or ny supervision, and that the same and correct to the best of my dge and belief.
		3472.1	-1 3473.9 Registere	reyed ember 16, 1988 of Professional Engineer and Surveyor
0 330 960 190 1920 1650	1980 2310 2840 200	0 1500 1000	Bog 0	NO. JOHN W. WEST, 676 RONALD J. EIDSON, 3239

BLOW OUT PREVENTER EXHI T "E" Charles B. Gillespie, Jr. Poker Lake Unit Well #71 810' FSL & 810' FEL Sec. 28, T-24S, R-31E Eddy County, New Mexico



APPLICATION FOR DRILLING

Charles B. Gillespie, Jr.

Poker Lake Unit Well No. 71

810' FSL and 810' FEL

Section 28, T-24-S, R-31-E

Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Charles B. Gillespie, Jr. submits the following nine items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is Quaternary.

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

Rustler	585 '
Salado	975 '
Lamar	4315 '
Bell Canyon	4375 '
Cherry Canyon	5270 '
Brushy Canyon	6550 '

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

Water: Approximately 200' Oil or Gas: Bell Canyon: Approx. 4375' to 5270' Cherry Canyon: Approx. 5270' to 6550' Brushy Canyon: Approx. 6550' to 7200'

- 4. Proposed Casing Program: See Form 9-331C and Exhibit F.
- 5. Pressure Control Equipment: See Form 9-331C and Exhibit E.
- 6. Mud Program: See Exhibit G.

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7. Testing, Logging, and Coring Programs: Drill stem tests (all DST's to be justified by a valid show of oil): Bell Canyon 4375' Cherry Canyon 5270' Brushy Canyon 6550' Logging: Mud logging unit from intermediate casing point to TDElectric Log Program: Compensated Density Compensated Neutron Log Dual Laterolog with MSFL

8. No abnormal pressures or temperatures are anticipated.

9. Anticipated starting date: As soon as possible.



PAD LA T EXHIBIT "D" Charles B. Gillespie, Jr. Poker Lake Unit Well #71 810 FSL & 810 FEL Sec. 28, T-24S, R-31E Eddy County, New Mexico



Charles B. Gillespie, Jr.

SUMMARY

DRILLING, DRILL STEM TESTS, CASING, AND CEMENTING PROGRAM

- 1. Drill 17-1/2" hole to 600'±. Will be in the Rustler at this depth.
- Cement 13-3/8", 54.50# K-55 casing with 650 sx. Class 'C' Premium Plus, containing 2% CaCl₂, preceded with 1600 gallons Flocheck 21. Run Texas Pattern Guide Shoe with an insert float valve in top of shoe joint. Use plug to displace cement.
- 3. Release pressure, nipple up, and install BOP's. Test casing to 600 psi after 18 hours and drill out cement.
- 4. Drill 11" hole to 4325'±. Will be in the Lamar at this depth.
- 5. Cement 8-5/8", 24# J-55 and 32# J-55 casing with 900 sx. Howco Lite containing 12#/sk salt and ¼#/sk Flocele, and tail in with 200 sx. Class 'C' containing ¼#/sk Flocele. Ran guide shoe and insert float on bottom joint, and 3-6 centralizers. Use plug to displace cement.
- 6. Release pressure, nipple up, and install BOP's. Test casing to 1500 psi for 30 minutes after WOC 18 hours and drill out cement after 24 hours.
- 7. Drill 7-7/8" hole to TD at 7200'±. A fresh water, cut brine mud system will be used. Pit levelers and flowline sensors will be utilized on the pits. Drill stem tests are anticipated in the following zones: Bell Canyon-4375'; Cherry Canyon-5270'; Brushy Canyon-6550'. DST flow periods and shut-in time will be determined on location. A mud logging unit will be on location at 4325' to assist in evaluating samples and shows for exact drill stem test intervals. Run Compensated Density-Compensated Neutron-Gamma Ray Log, Dual LateroLog with MSFL.

EXHIBIT F Charles B. Gillespie, Jr. Poker Lake Unit Well No. 71 810' FSL and 810' FEL Section 28, T-24-S, R-31-E

- 8. Run 5¹/₂", 15.50# J-55 and 17# J-55 casing and cement with 600 sx Class 'C' cement containing 2% gel, .4% Halid 4, preceded by 1000 gallons Flocheck 21. Use Guide Shoe and Float Collar, and 12-15 centralizers where necessary. Use rubber plug, displace cement with clean, fresh water treated with 2% KCL and non-emulsifying agent.
- 9. Perforations, acid job, and additional stimulation to be determined after completion.

EXHIBIT F Charles B. Gillespie, Jr. Poker Lake Unit Well No. 71 810' FSL and 810' FEL Section 28, T-24-S, R-31-E

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CEMENT PROGRAM (Also, See Exhibit G)

13-3/8" Casing: 650 sx. Class 'C' Premium Plus containing 2% CaCl₂, precedel with 1600 gallons Flocheck 21.

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8-5/8" Casing: 900 sx. Howco Lite containing 12#/sk salt and $\frac{1}{2}\#/sk$ Flocele and tail in with 200 sx. Class 'C' containing $\frac{1}{2}\#/sk$ Flocele.

5-1/2" Casing: 600 sx. Class 'C' containing 2% gel, 4% Halid 4.

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EXHIBIT F Charles B. Gillespie, Jr. Poker Lake Unit #71 810'FSL and 810' FEL Section 28, T-24-S, R-31-E Eddy County, New Mexico

SUGGESTED DHILLING FLUID PROGRAM

Surface: 600' of 13-3/8" Spud with fresh water gel to which lime is added to a 36-40 vis. Paper can be added for seepage.

Intermediate: 4325' of 8-5/8" Drill out below surface with cut brine adding paper for seepage. This type of drilling fluid should be sufficient to drill to 4325'.

Production: 7200' of 5½" Drill out below intermediate with cut brine/starch, adding Zeogel (salt gel) for viscosity. Mud weight and viscosity may be altered as hole conditions dictate. This type of drilling fluid should be sufficient to drill, test, or log to 7200'.

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EXHIBIT G Charles 3. Gillespie, Jr. Poker Lake Unit #71 810' F3L and 810' FEL Section 28, T-24-S, R-31-E Eddy County, New Mexico