Form 3160-3 (November 1983) (fomerly 9-331C)	NM Oil Cons. Co Drawer DD (Artesia, NM 88	mmission 210 INITED STATES	j p	SUBMIT IN (Other instru-		• Form approved. Budget Bureau I Expires August	5-62809 No. 1004-0136 31, 1985
(totmenty)=ooro)	DEPARTM	ENT OF THE I		OR STREET		·	V
		J OF LAND MANAG		•••		5. LEASE DESIGNATION	AND BERIAL NO.
		-			ACK	NM-0390241 6. IF INDIAN, ALLOTTER	OR TRIBE NAME
	ION FOR PERM	II TO DRILL, L	PEEPEN	N, OKSPILUGVE	ACK		
1a. TYPE OF WORK	DRILL 🛛	DEEPEN	30,	PLUG BA	ск 🗌	7. UNIT AGREEMENT N.	AMB
b. TYPE OF WELL OIL	048	INJECT	ROSA ION _{SING}		LE []	SouthLuckyLake	
2. NAME OF OPERAT	WELL OTHE	WEL	L ZON	E A ZONE		South Lucky L Queen Unit,	ake
	BURK ROYALTY		PH 81	7-322-5421		9. WELL NO.	
3. ADDRESS OF OPER	ATOR P.O. Box BRO]	111.01	RECEIVED		3	
	Wichita Fall LL (Report location clear)					10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WE	LL (Report location clear)	y and in accordance with	h any Sta	te requirements.*)	Ą	South Lucky La	<u>ke Queen</u>
)'FSL 330'FEL, S	Sec.21-15S-29E	L F) NOV 8'9	1	11. SEC., T., R., M., OR E AND SURVEY OR AR	ELK.
At proposed prod. zone			14.1			Sec.21-155-2	0.F
14	Same	NEADER TOWN OF DOG	V	<u>ċ. c. p.</u>		12. COUNTY OF PARISH	
				-ARTESHA, OFFIC	Æ	Chaves	N.M.
20 Miles S	southeast of Hag	<u>german, New Mex</u>		OF ACRES IN LEASE	1 17. NO. 0	T ACRES ASSIGNED	
LOCATION TO NI PROPERTY OR LE	AREST	0001	TO THIS WELL				
(Also to neares	it drlg. unit line, if any)	330'		Ac. in Unit	40 20. ROTABY OB CABLE TOOLS		<u> </u>
TO NEAREST WI	PROFOSED LOCATION* LL, DRILLING, COMPLETED,						
OR APPLIED FOR, ON THIS LEASE, FT. 933'± 1800' Queen Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START*							
3929.1'G.L. November 3, 1990							
23.	• ــ. •	DRODORED CASIN		CEMENTING PROGRA		INOVEINDEL 5, 1	
		PROPOSED CASIN		~	1. 2.12.1	y stips	
SIZE OF HOLE	SIZE OF CASING			SETTING DEPTH		QUANTITY OF CEMEN	
12-1/4"	8-5/8"		.55	400 250 +1-	250)
7-7/8"	4-1/2"	<u> </u>	.55	1800'	345	sx±	
		ļ					

Drill with air to 1880't. 4-1/2 Casing will be run to TD, cemented with sufficient cement to isolate all porosity zones and perforated to complete as a water injection well to prevent migration of oil into the gas cap. Plastic-lined tubing will be installed to a packer set 100' above the top perforation. The casing-tubing annulus will be filled with an inert fluid and a leak detection device attached to the annulus.

Post ID-1
11-16-90
Menter APE

See attached "Drilling Data" and "Surface Use Plan".

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. 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. _

24. SIGNED ACTIVITY M. LONG TITLE	Permit Agent	DATEOctober 15,1990
(This space for Federal & State office use)	APPROVAL DATE	NOV 4 toos
APPROVED BY Saundra L. Porenta TITLE CONDITIONS OF APPROVAL, IF ANY: CONDITIONS OF APPROVAL, IF ANY: EASE BE ADVISED THAT THERE WILL BE NO EXCAVATION EASE BE ADVISED THAT THERE WILL BE NO EXCAVATION	APPROVAL OF THIS APPLICATION CERTIFY THAT THE APPLICANT HOU	
EASE BE ADVISED THAT THERE WILL DE HOR CONSTRUC- FEDERALLY OWNED MILERAL MATERIAL FOR CONSTRUC- IN OF THE AUGESS ROAD OR PAD WITHOUT PAYMENT See Instruction ADVANCE-U.S.C. Section 1001, makes it a crime for any person known	TITLE TO THOSE RIGHTS IN THE SUL OF SULP, Reverse Side CANE TO CONDU	DECT LEASE WHICH WOULD

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico

Energy, Minerals and Natural Resources Department RECEIVED Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 875042088 2 26 PH '90

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Al	Distan	C86	must	be from	n the oute	r boundaries	of the	section

Operator			Loass			Well No.
Burk Royalty Co			South L	ucky Lake Queen Un	it Tr. 4	3
Unit Letter	Section	Township	Range	· · · · · · · · · · · · · · · · · · ·	County	
P	21	15 South	29 Eas	st		ives
Actual Footage Loca				NMPM	l	
330		outh un and	330		east	
	leet mont the			feet from t	the east	line Dedicated Acreage:
Ground level Elev.		ng Formation	Pool			•
3929.1'	Queer			Lucky Lake Queen		40 Acres
I. Outline	the acreage dedicat	ed to the subject well by colored p	encil or hachure r	narks on the plat below.		
2. If more	than one lease is de	dicated to the well, outline each as	d identify the ow	mership thereof (both as to workin	g interest and r	oyalty).
		ifferent ownership is dedicated to t	he well, have the	interest of all owners been consol	idated by comm	unitization,
	tion, force-pooling, e	AC.?	une of consolidati	on Unitized Water	Flood Pro	piect
If an over	Yes	No If answer is "yes" t ors and tract descriptions which have	ype of consolidation of a schuelly been of	onsolidated. (Use myerre side of		<u> </u>
	if neccessary.	and trace descriptions which has	re actually been c			
No allows	able will be assigned	to the well until all interests have liminating such interest, has been a			forced-pooling	, or otherwise)
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	1				<u>Permit</u>	Agent
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PERTINENT INFORMATION

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For

BURK ROYALTY CO. No.3 South Lucky Lake Queen Unit, Tr.4 330'FSL 330'FEL Sec.21-15S-29E Chaves County, N.M.

LOCATED:	20 air miles southeast of Hagerman, New Mexico					
FEDERAL LEASE NUMBER:	NM-0390241					
LEASE ISSUED:	June 1, 1963 - HBP					
ACRES IN LEASE:	320 Ac.					
RECORD LESSEE:	Bison Petroleum					
BOND COVERAGE:	Unit Bond					
AUTHORITY TO OPERATE:	Unit Agreement					
SURFACE OWNERSHIP:	Public					
GRAZING PERMITTEE:	Bogle Farms, Inc. P.O. Drawer 460, Dexter, N.M. 88230 Ph.505-734-5442					
POOL RULES:	NMOCD Order No. R-8140-A					
EXHIBITS:	A. Road Map B. Road and Contour Map C. Rig Layout D. BOP Diagram E. Unit and Well Map					

SUPPLEMENTAL DRILLING DATA

BURK ROYALTY CO. No.3 South Lucky Lake Queen Unit, Tr.4 330'FSL 330'FEL Sec.21-15S-29E Chaves County, N.M.

NM-0390241

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

1. SURFACE FORMATION: Upper Permian

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	200'	Seven Rivers	1150'
Salado	250'	Queen	1750'
Yates	1020'	•	

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

0 - 200': Surface water

1020' - TD: Oil, gas or water

4. PROPOSED CASING PROGRAM:

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 $\frac{250' t'-}{400'}$ of 24#, K-55, ST&C

4-1/2" Casing - 1800' of 9.50#, K-55, ST&C

Both strings of casing will be satisfactorily tested to 1000 psi.

- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: This well will be drilled with air using a rotating drilling head, rated at 1000# W.P. A blooie line will divert foam and cuttings to the reserve pit.
 - 6. <u>CIRCULATING MEDIUM</u>: This well will be air drilled, using foam to circulate the cuttings.
 - 7. <u>AUXILIARY EQUIPMENT</u>: No special blow-out equipment is necessary since intermediate and target zones are partially depleted and artificial pressure maintenance is being conducted.

8. TESTING, LOGGING AND CORING PROGRAM:

Samples: 10' intervals from 400' to TD.

DST and Cores: None

Logging: Gamma ray - Neutron log will be run

- 9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE</u>: None - All prospective porosity zones are in an advanced state of depletion. This will be a water injection well to maintain bottom-hole pressure.
- 10. ANTICIPATED STARTING DATE: Drilling will commence as soon as approval is obtained. Drilling and completion operations should require less than 30 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

BURK ROYALTY CO. No.3 South Lucky Lake Queen Unit, Tr.4 330'FSL 330'FEL Sec.21-15S-29E Chaves County, N.M.

NM-0390241

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the 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 operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 20 air miles southeast of Hagerman, New Mexico.
- B. <u>Directions</u>: Go east from Hagerman, N.M. on NM 249 for 20 miles. Turn south on County Road 22 for 5.5 miles. Turn east on County Road and go 2 miles. Turn north on lease road and go 1.7 mile to No.2 SLLQU, Tr.2 well. Go 900' southwest on new road to drillsite.
- 2. PLANNED ACCESS ROAD:
 - A. Length and Width: The new road will be about 900' long and about 20' wide. It will be constructed from the Burk No.2 South Lucky Lake Queen Unit, Tr.2 producing well to this proposed injection well.
 - B. <u>Surfacing Material</u>: The new road and pad will be constructed of material-in-place, unless weather conditions dictate surfacing with caliche.
 - C. Maximum Grade: Less than 2%
 - D. <u>Turnouts</u>: Since the road is essentially flat and only 900' long, no traffic turnouts are necessary.
 - E. <u>Drainage Design</u>: The road will be constructed with about 4" of crown and necessary water turnouts to provide drainage.

- F. Culverts: None necessary
- G. Cuts and Fills: The pad will require about 2' of cut on the east side and 2' of fill on the west side.
- H. Gates, Cattleguards: None necessary
- 3. LOCATION OF EXISTING WELLS:

A. See attached EXHIBIT E.

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. The water injection plant is located in the NWSW, Sec.22-15S-29E.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. The well will be air drilled. Water for completion operations will be purchased from a commercial water hauler and trucked over existing roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. It is planned to use material-in-place for construction. If weather conditions require use of caliche, it will be removed from a Federal pit located in the NENW, Sec.27-15S-29E.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during test will be disposed of in the drilling pits.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of soil. All waste material will be contained to prevent scattering by the wind. The trash pit will be located adjacent to the mud pit.

- F. 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. A request for construction of a water injection pipeline will be filed at a later date.
- 9. WELL SITE LAYOUT:
 - A. The well-site and 400' X 400' area has been surveyed and flagged.
 - B. Dimensions and relative location of the drill pad, pit and equipment are shown on EXHIBIT C.
 - C. Top soil for rehabilitation of the location will be stock-piled at the west edge of the pad.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. The unused disturbed area will be rehabilitated to Federal Agency requirements and will be accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. <u>Topography</u>: The regional area slopes west toward the Pecos River, which is about 15 miles west of the drillsite. The drillsite slopes west with about 2% grade.
- B. <u>Soil</u>: The soil is sandy. There appears to be a layer of of caliche a few inches below the surface.
- C. <u>Flora and Fauna</u>: The flora includes mesquite, creosote and various range grasses. Fauna would include small birds, reptiles and rodents.
- D. Ponds or Streams: None
- E. Residences and Other Structures: None

- F. Archaeological, Historical and Other Cultural Sites: Archaeology Survey Consultants, of Roswell, N.M., have made a survey of the proposed new road and wellsite. They have recommended that construction work be approved.
- G. Land Use: The surface is semi-arid rangeland, used primarily for grazing.
- H. <u>Surface Ownership</u>: The new access road and wellsite are on Public Surface, all within the Unit boundary. Grazing lessee is Bogle Farms, Inc., P.O.Drawer 460, Dexter, New Mexico 88230.
- 12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Mr. Fred Lynch P.O. Box BRC Wichita Falls, Texas 76307 Phone 817-322-5421

13. CERTIFICATION:

I hereby certify that I, or person 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; that the work associated with the operations proposed herein will be performed by BURK ROYALTY CO. and its sub-contractors in conformity with this plan and the terms and condition under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

October 15, 1990 Date:

JERRY W. LONG, Permit Agent for: BURK ROYALTY CO.





BURK ROYALTY CO. No.3 South Lucky Lake Queen Unit, Tr.4 330'FSL 330'FEL Sec.21-15S-29E Chaves County, N.M.





RIG LAYOUT

1.Drill Rig	4.Reserve Pit
2.Catwalk	5.Trash Pit
3.Pipe Rack	6.Trailer House

BURK ROYALTY CO. No.3 South Lucky Lake Queen Unit, Tr.4 330'FSL 330'FEL Sec.21-15S-29E Chaves County, N.M.

NM-0390241



BOP STACK

2000# WP Rams Operated Daily

