Drilling operations authorized are subject to compliance with attached "General Requirements".

processoral revised purcusus to 49 CFR 3165.3 UNITED STATES and appeal pursuant to 43 CFR 3165.4

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Type of Work Lease Number 1a. NO-G-9811-1313 DRILL -Unit Reporting Number 1B. TYPE OF WELL GAS -6. If Indian, All. or Tribe INDIAN ALLOTTED 2. Unit Agreement Name Operator ELM RIDGE RESOURCES, INC. 505-632-3476 3. Address & Phone No. of Operator Farm or Lease Name KELLY IND. PO Box 189 Farmington, NM 87499 Well Number #1E Field, Pool Wildcat Location of Well BASIN DAKOTA-Sec., Twn, Rge, Mer. (NMPM) SW NW SEC. 12, T27N, R13W API # 30045-,3047/ Distance in Miles from Nearest Town County 13. State 14. 13 MILES SOUTH OF FARMINGTON SAN JUAN, N.M. 15. Distance from Proposed Location to Nearest Property or Lease Line 660' 16. Acres in Lease 17. Acres Assigned to Well 160 Distance from Proposed Location to Nearest Well, Drig, Compl or Applied for on this Lease 18. 19. Proposed Depth 20. Rotary or Cable Tools **ROTARY** 6070' 21. Elevations (DF, FT, GR, Etc.) Approx. Date Work will Start LATE FEBRUARY 5824' GL 23. **Proposed Casing and Cementing Program** SEE OPERATIONS PLAN ATTACHED Authorized by: 24. PATRICK HEGARTY. APPROVAL DATE PERMIT NO. APPROVED BY TITLE DATE

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160--3

Title 1 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 presentations as to any matter within its jurisdiction.



Form 3160-5 (August 1999)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NO-G--9811-1313

SUBMIT IN TRIPLICATE - Other instructions on reverse side						6. If Indian, Allottee or Tribe Name Indian Allotted  7. If Unit or CA/Agreement, Name and/or No.				
Oil Well 🔀 Gas Well 🗔 Other						8. Well Name and No.				
2. Name of Operator ELM	RIDGE RESOURCE	S, INC.				Kelly IND. #1E  9. API Well No.				
3a. Address		3b. P	hone No. (include	e area	code)	- All Well No.				
PO Box 189 Farmi			632-3476			10. Field and Pool, or Exploratory Area				
4. Location of Well (Footage, Sec.								Dakota		
2485' FNL, and 670' FWL, (SW NW) Section 12, T27N, R13W						11. County or Parish, State San Juan, NM				
12. CHECK AP	PROPRIATE BOX(ES)	O INDIO	CATE NATU	RE O	F NOTICE, R	EPORT, O	R O	THER DATA		
TYPE OF SUBMISSION			TY	PE O	F ACTION					
	Acidize	Dec	Den .	$\Box$	Production (Start	/Resume)	$\Box$	Water Shut-Off		
Notice of Intent	Alter Casing		ture Treat		Reclamation	rtesume	<u> </u>	Well Integrity		
Subsequent Report	Casing Repair	☐ New	/ Construction		Recomplete		$\nabla$	Other revise		
G Subsequent Report	Change Plans	Plug	g and Abandon		Temporarily Aba	indon	•	well location		
Final Abandonment Notice	Convert to Injection	Plug	g Back		Water Disposal					
	rm C-102 to show rev ve access to existing r		ation. Loca	tion & R. C. S.	12345 * 2001	due to Po	ower	· · · · · · · · · · · · · · · · · · ·		
Name (Printed/Typed)	Patrick Hegarty		Title	Age	ent			<u>(</u> )		
Signature Late	in Hegy to	-	Date	01-2	9-01					
	THIS SPACE	FOR FEI	DERAL OR S	TATE	OFFICE USE					
Approved by  Conditions of approval, it any, are certify that the applicant holds lega which would entitle the applicant to the states any faise, fictitious or fraudule	tle 43 U.S.C. Section 1212, ma	hts in the s	t warrant or subject lease O	tle <i>A</i>	ting Tear			2/21/01  artment or agency of the United		

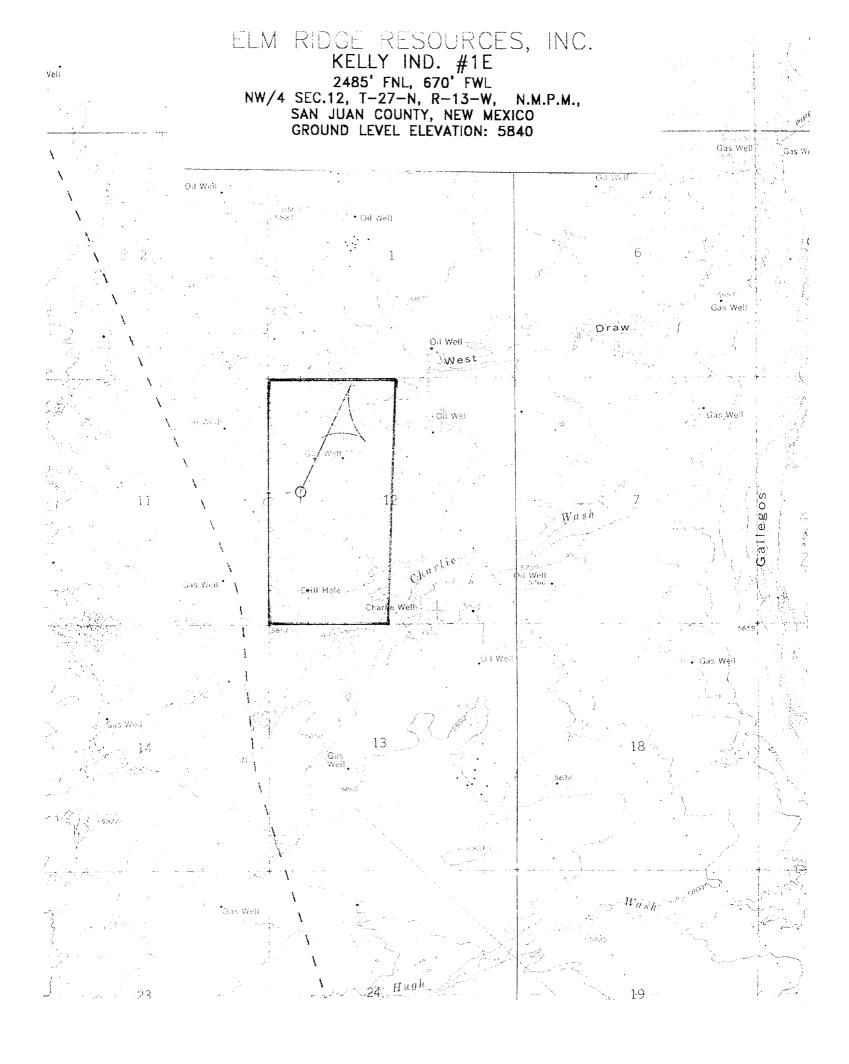
District I PO Box 1980, Hubbs, NM 88241-1988 District II 811 South First, Artesia, NM 88210 District III 1000 Rlo Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

# OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

State Lease - 4 Copies Fee Lease - 3 Copies

District IV 2040 South Pache	co, Sunta Fo	, NM 87505			,					AMI	ENDÉD REPORT
		WE	LL LO	CATIO	N AND ACR	EAGE DEDI	CAT				
30.0	API Numbe	30471		1 Pool Coc 71599	le		В	Pool N. ASIN DAI			
<sup>4</sup> Property	y Code Stroperty Name					* Well Number 1E					
OCRID	750 8  CORID No.  Operator Name  ELM RIDGE RESOURCES					Name					* Elevation
17-10	5.0			17411	10 Surface						
UI, or lot no.	Section 12	Township 27N	Range Lot Idn		Feet from the 2485	North/South line		from the	East/West WES		County SAN JUAN
E	1 , 12	278		tom Ho	1	f Different Fr	om S	Surface	· · · · · · · · · · · · · · · · · · ·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line		Feet from the East/Wes		line	County
12 Dedicated Ac	res 13 Joint	or Infill 14 C	Consolidatio	n Code 15	Order No.	11567		7 7-	<u> </u>		
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Y. W.		S89°	59/W	5	281.321			Seufried (	Kinpple		<del>[\$]</del>
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### EXHIBIT "B" **OPERATIONS PLAN** Kelly IND. #1E

#### APPROXIMATE FORMATION TOPS:

Farmington	412'
Fruitland	1008'
Pictured Cliffs	1272'
Lewis	1392'
Cliff House	2180'
Menefee	2255'
Point Lookout	3810'
Mancos	4035'
Base Gallup	5340'
Sanastee	5390'
Greenhorn	5765'
Graneros	5816'
Dakota	5845'
Total Depth	6070'

LOGGING PROGRAM: Run DIL/GR logs. CNL/FDC logs maybe run over selected segments.

Catch samples every 10 feet through Fruitland Gallup and Dakota. Samples will be collected every 30' elsewhere. Must be atleast 320

CASING PROGRAM:

Hole	Casing		Setting /	Grade and
<u>Size</u>	<u>Size</u>	Wt./Ft.	Depth /	<b>Condition</b>
12-1/4"	8-5/8"	24#	( <del>1200'</del> )	K-55
7-7/8"	4-1/2"	10.5#	6070'	J-55

The hole size is not smaller than 1-1/2" larger diameter than the casing O.D. across usable water zones.

Plan to drill a 12-1/4" hole and set 200' of 8-5/8" OD, 20#, K-55 surface casing; then plan to drill a 7-7/8" hole to total depth with gel-water-mud program to test Dakota Formation. Plan to run DIL/GR logs. CNL/FDC logs maybe run over selected segments. If determined productive, will run 4-1/2". 10.5#, J-55 casing, selectively perforate, frac, clean out after frac and complete well.

CEMENTING PROGRAM: All volumes are contingent upon Caliper logs.

Cement with 15 sx (177 cu. ft.) Class "B" with 1/4#/sk Flocele + 2% CaCl2. Bowspring Surface-Centralizers will be run in accordance with Onshore Order #2. Circulate to surface.

Production Stage-Cement in two stages with a stage tool set at about 4500'. First stage will consist of 460 sx (650 cu.ft.) Class "B" with 2% gel and 1/4#/sk Flocele to cover the Gallup and Dakota. The second stage will consist of 870 sx(1538 cu ft.) Haliburton Light Standard with 2% gel + Floscele to cover certain zones. Bowspring Centralizers will be run in accordance with Onshore Order #2. Circulate to surface.

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizes will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizes will be determined based on API standards. Centralizes to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

Kelly IND. #1E Page 1 - Exh. B

#### WELLHEAD EQUIPMENT - PRESSURE CONTROL: See Exhibit "D"

A typical 3M psi BOP model is shown on Exhibit "D" entitled Pressure Control Equipment. A minimum 3000 psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling surface casing plug. It will remain in use until the well is completed. A safety value and sub with a full opening value to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

No abnormal pressures or hazardous zones are anticipated.

Annual preventer, double ram, or 2 rams with one being blind and one being a pipe ram Kill line (2" minimum) 1 kill line valve (2" minimum) 1 choke line valve

2 chokes Upper kelly cock valve with handle available Safety valve and subs to fit all drill string connections in use Pressure gauge on choke manifold 2" minimum choke line Fill-up line above the uppermost preventer

BOP equipment will be tested as required in Section III A.1 of Onshore Order 2, plus a 30% safety factor.

The average mud weight is anticipated to be in the range of 8.6 to 9.5 lb/gal.

#### **ATTACHMENTS**

Exhibit "A" - Development Plan

Exhibit "B" - Operations Plan

Figure #1 - Anticipated Production Facilities

Figure #2 - Cut & Fill Diagram

Exhibit "C" - Typical Location Plat

Exhibit "D" - Pressure Control Equipment

Exhibit "E" - Existing & Planned Access Roads

Exhibit "F" - Location of Existing Wells & Facilities

Exhibit "G" - Vicinity Map

ENVIROMENTAL ASSESSMENT

BIA - FONSI Letter