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

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FORM APPROVED

OMB No. 1004-0136

If Indian, Allottee or Tribe Name

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A DDI 10 ATION FOR DEDINT TO DDI 1 OD DE	CNTED
APPLICATION FOR PERMIT TO DRILL OR RE	ENIER

							JICARILLA P	NPACHE
					. 03 CUI - I F.:	3: 39	7. If Unit or CA Agreer	nent, Name and No.
ıa.	Type of Work:	☑ DRILL		☐ REENTE	SR .		N/A	
1b.	. Type of Well:	Oil Well	€ Gas Well	Other	☐ Single Zone	Multiple Zo	8. Lease Name and We JICARILLA A	II No. APACHE B 16 E
2.	Name of Operator		RESOUR	CES, INC.			9. API Well No. 2	1725
3a.	Address P. O. FARN		9 N, NM 87	499	3b. Phone No. (include a (505) 632	•	10. Field and Pool, or Ex-	& BASIN DAKOTA
4.	Location of Well (Report locati	ion clearly and	in accordance with	any State requirements.*)		11. Sec., I., R., M., of B	lk. and Survey or Area
	At surface At proposed prod.			1450' FEL			∮ 29-24n-5w	NMPM
14.	Distance in miles at 7 AIR MILE				SELORS		12. County or Parish RIO ARRIBA	13. State NM
15.	Distance from prop	osed*			16. No. of Acres in leas	se 17.	Spacing Unit dedicated to this we	ell 160

property or lease line, ft. (Also to nearest drig. unit line, if any)

1.070'

2,560

UPON APPROVAL

BASIN DAKOTA: S2 = 320 ACRES

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

274'

19. Proposed Depth 6.900'

20. BLM/BIA Bond No. on file

#886441C (BIA - NATION WIDE)

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,595' GL 22. Approximate date work will start*

23. Estimated duration

4 WEEKS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.

Such other site specific information and/or plans as may be required by the authorized officer.

Comments



	_ 1		cc: I	BIA, BLM (&OCD), Elm	າ (D & F)	, Na	ation
25. Signatur	" Babal		Name (Printed/Typed)	BRIAN WOOD	Date 8-	10-0	03
Title	CONSULTANT	PHONE:	505 466-8120	FAX: 505 466-9682			
Approved by	(Signature) /s/ David R. Sitzle	P	Name (Printed/Typed)		Date	5	2004
Title	Assistant Field Mar	·	Office				
Application :	approval does not warrant or certify the	the applicant holds leg	al or equitable title to those righ	ts in the subject lease which would ent	itle the applica	ant to	conduct

operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

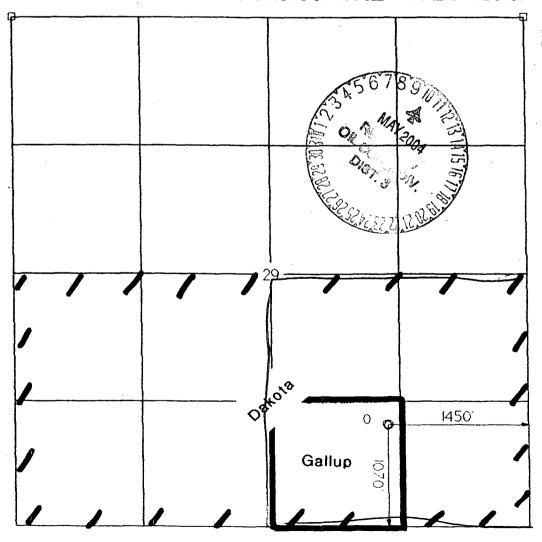
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-2°	97232 Pool Code 48450 & 71599	WC Basin Marcos QIERO GALLUP	Pool Name & BASIN DAKOT	A
Property Code	Proper	ty Name		Well Number
19026	Jicarilla /	. Jicarilla Apache B		
OGRID No.	Operator Name			Bevation
149052	. ELM RIDGE	RESOURCES		6595

Surface Location County UL or Lot Sec Feet from> North/South Feet from> Τνp. Rge. Lot lan. East/West 29 0 24 N 5 W SOUTH 1450 **EAST** RIO ARRIBA 1070

Bottom Hole Location If Different From Surface UL or Lot Sec. Lot idn. Feet from> North/South | Feet from> County Twp. Rge. East/West **Dedication** Joint ? Order No. Consolidation **60 & 320**

> NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belef.

Signature (

Printed Name **BRIAN WOOD**

Title

CONSULTANT

Date

AUG. 10, 2003

SURVEYOR CERTIFICATION

I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey



Elm Ridge Resources, Inc.
Jicarilla Apache B 16 E
1070' FSL & 1450' FEL
Sec. 29, T. 24 N., R. 5 W.
Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Elevation
San Jose	000'	12'	+6,595'
Kirtland-Fruitland	1,815'	1,827'	+4,780'
Pictured Cliffs Ss	2,170'	2,182'	+4,425'
Lewis Shale	2,295'	2,307'	+4,300'
Pt. Lookout Ss	4,345'	4,357'	+2,250'
Mancos Shale	4,545'	4,557'	+2,050'
Gallup Ss	5,445'	5,457'	+1,150'
Greenhorn	6,345'	6,357'	+250'
Dakota	6,620'	6,632'	-25'
Total Depth (TD)*	6,900'	6,912'	-305'

^{*} all elevations reflect the ungraded ground level of 6,595'

2. NOTABLE ZONES

Oil & Gas Zones	Water Zones	<u>Coal Zones</u>
Ojo Alamo	San Jose	Fruitland
Pictured Cliffs	Ojo Alamo	
Gallup		
Dakota		

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.



Elm Ridge Resources, Inc. Jicarilla Apache B 16 E 1070' FSL & 1450' FEL Sec. 29, T. 24 N., R. 5 W. Rio Arriba County, New Mexico

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 3,000 psi model is on PAGE 3. A \geq 3,000 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 or abandoned. A safety valve and sub with a full opening valve 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.

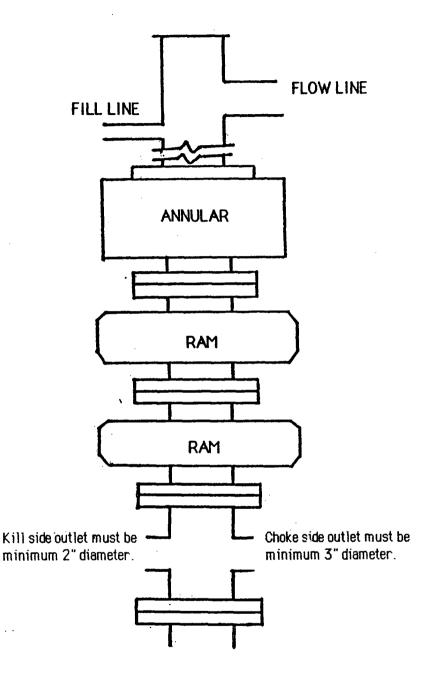
4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Type</u>	<u>Age</u>	GL Setting Depth
12-1/4"	8-5/8"	24	K-55	S T & C	New	350'
7-7/8"	4-1/2"	10.5	J-55	LT&C	New	6,900'

Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 246 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

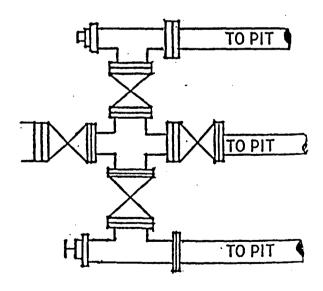
Production casing will be cemented to surface in 2 stages. Set stage tool @ $\approx 4,750$ '. Volume $\geq 75\%$ excess, but caliper log will be used to determine actual volume needed. Centralizers will be installed on middle of the shoe joint and on every joint thereafter (total of ≈ 30 centralizers). Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.





TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.

Safety valve and subs will fit all drill string connections in use.

All BOPE connections subjected to well pressure will be flanged, welded, or clamped.



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First stage volume will be $\approx 1,337$ cubic feet. First stage will consist of ≈ 330 sacks Halliburton Lite with 65/35 poz mix + 1/4 pound per sack Flocele + 2% CaCl₂ (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 610 sacks Class B + 2% CaCl₂ (yield = 1.18 cubic feet per sack & weight = 15.2 pounds per gallon).

Second stage volume will be $\approx 2,004$ cubic feet. Second stage will consist of $\approx 1,040$ sacks of Halliburton Lite with 65/35 poz mix + 1/4 pound per sack Flocele + 2% CaCl₂ (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 50 sacks Class B + 2% CaCl₂ (yield = 1.18 cubic feet per sack & weight = 15.2 pounds per gallon)...

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	ppg	<u>Viscosity</u>	Fluid Loss	<u>pH</u>
0' - 350'	Fresh water gel	9.0	50	NC	9
350' - TD'	Fresh water gel	9.0	38-50	6.0	9

Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well site while drilling. Mud will be checked hourly by rig personnel. Material to soak up possible oil or fuel spills will be on site.

6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. DIL/GR logs will be run from TD to surface. CNL/FDC logs may be run over selected segments. Samples will be collected every 10' from \approx 4,000' to TD. Samples will be collected every 30' elsewhere.



<u>Jicarilla Apache B # 16 E</u> well pod & section

