	New Mexico LALLA	💊 Rossina Sala	
	UNIT STATES	Expires November 30, 2000	
	BUREAU OF LAND MANAGEMENT		5. Lease Serial No.
SUND	Y NOTICES AND REPORTS ON WEL	LS	NM-0202296
Do not use ti abandoned w	nis form for proposals to drill or to re-e ell. Use Form 3160-3 (APD) for such prop	oosals.	6. If Indian. Allottee or Tribe Name
the second	a i se maa pageunkane ag oo	rijet Atoli	7. If Unit or CA/Agreement, Name and/or No.
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Dil Well Gas Well .	Other		Minis "2" FederalCom., Well No. 2
Samson Resources Co.	3h Phone No. (include area code)	<u>- 30-025-36059</u>
Samson Plaza Two W. 2n <u>d St.</u>	Tulsa, OK 74103 (918) 591-1822	2	10. Field and Pool, or Exploratory Area 7
	, T. R., M., or Survey Description)		Hat Mesa Morrow II. County or Parish, State
3700' FSL & 1980' FEL, Sec. 2-	T21S-R32E		
			Lea, New Mexico
12. CHECK AI	PROPRIATE BOX(ES) TO INDICATE N	TYPE OF ACTIO	
	Acidize Deepen		n (Start/Resume) 🔲 Water Shut-Off
Notice of Intent	Alter Casing Fracture Trea	_	m .
Subsequent Report	Casing Repair New Constru		rily Abandon
Final Abandonment Notice	Convert to Injection Plug Back	Water Dis	sposal ate of any proposed work and approximate duration thereof
Attach the Bond under which	the work will be performed or provide the Bond No.	on file with BLM/BIA.	and true vertical depths of all pertinent markers and zones. Required subsequent reports shall be filed within 30 days letion in a new interval, a Form 3160-4 shall be filed once a reclamation have been completed, and the operator has
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Form 3160-5 (August 1999)	UNIT. STATES DEPARTMENT OF THE INTERIOR				FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000			
	BUREAU OF LAND MANA	5. Lease	5. Lease Serial No.					
SUND	RY NOTICES AND REPO	RTS ON WELLS			-			
	NM-020	an, Allottee or Tr						
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1. Type of Well	and the state of	n na seata da ante a seata da	er andere. Anne	7. If Unit	: or CA/Agreemer	nt, Name and/or No.		
Oil Well Gas Well	Other			8 Well 1	Name and No.			
2. Name of Operator					2" FederalCom.,	Well No. 2		
Samson Resources Co.				9. API W		Well 110. 2		
3a. Address		3b. Phone No. (inclu	de area code)	-				
Samson Plaza Two W. 2nd St.	Tules OK 74102		*	10. Field	and Pool, or Expl	oratory Area		
	., T. R., M., or Survey Description)	(918) 591-1822			Hat Mesa Morrow			
1. Boodin of Wen I bourge, bee	, T. K., M., Or Survey Description				ity or Parish, State			
3700' FSL & 1980' FEL, Sec. 2	-T21S-R32E							
				Lea, Ne	w Mexico			
12. CHECK AI	PPROPRIATE BOX(ES) TO	INDICATE NATU	JRE OF NOTICE, I	REPORT. (OR OTHER D	ΑΤΑ		
TYPE OF SUBMISSION								
		·· · · · · · · · · · · · · · · · · · ·	YPE OF ACTION					
	Acidize	Deepen	Production (Sta	urt/Resume)	🔲 Water Sh	ut-Off		
Notice of Intent	Alter Casing	Fracture Treat	Reclamation		🔲 Well Inte	grity		
Subsequent Report	Casing Repair	New Construction	Recomplete		Other			
	Change Plans	Plug and Abandon	Temporarily A	bandon				
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal]				
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 Paragragh 4Proposed Casin Paragraph 5Minimum Spect Paragraph 6 Mud Program 	cifications for PressureControl F	quipment			· · · · · · · · · · · · · · · · · · ·			
		يد معرفة ما الحاد الا			NOV T	2002		
			<u> </u>		GARY GOUR			
		TREATERS:		ng	TEG EUM EN	AGINEER		
14.1 hereby certify that the forego	ing is true and convert							
Name (Printed/Typed)	ing is the and context	1						
George R. Smith		Title A	gent for Samson Reso	urces Co	•			
			Sent for Sunson Reso	<u></u>		 <u>-</u>		
Signature	CN CONT	Date O	ctober 31, 2002					
		us delakan ut						
Approved by (Signature)			Name		T:41.			
· · · ·		T-	Printed Typed)		Title			
Conditions of approval, if any, ar certify that the applicant holds le which would entitle the applicant to	re attached. Approval of this notice gal or equitable title to those right o conduct operations thereon.		Office		Date			
Title 18 U.S.C. Section 1001 and 3	Title 43 U.S.C. Section 1212, make ulent statements or representations as	it a crime for any narrow	1 knowingly and willfull jurisdiction.	y to make to a	any department or	agency of the United		

APPLICATION FOR DRILLING

SAMSON RESOURCES CO.

Minis "2" Federal Com., Well No. 2 3700' FSL & 1980' FEL, Sec: 2-T21S-R32E Lea County, New Mexico Lease No.: NM-0202296 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Samson Resources Co. submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Rustler	1,530'	Penn Shale	12,200'
Yates	3,150'	Strawn	12,850'
Capitan	3,529'	Atoka	13,060'
Delaware	5,530'	Morrow	13,600
1 st Bone Spring	9,535'	T.D.	14,400'
Wolfcamp	11,650'		

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

- Water: Surface water between 100' 300'.
- Oil: Possible in the Delaware below 5530'.
- Gas: Possible in Atoka below 13, 060' and the Morrow below 13, 600'.

4. Proposed Casing Program:

<u>HOLE SIZE</u>	CASING SIZE	WEIGHT	GRADE	<u>JOINT</u>	SETTING DEPTH	QUANTITY OF CEMENT
18 1/2"	16"	75.0#	K-55	BT&C	0'- 930' (590	Circ 750 sx "C" cement
14 3/4"	11 3/4"	54.5#	K-55	BT&C	0'- 3,420'	Circ. 1330 sx. HLC Prem Plus
10 5/8"	8 5/8"	32.0#	N-80	LT&C	0' - 5,600'	Circ.2650 sx. Interfill C & Prem
7 7/8"	5 1/2"	20.0#	P110	LT&C	0' - 14,400'	890 sx Interfill H & Super H TOC 5100'

5. Minimum Specifications for Pressure Control Equipment:

A 13 5/8" 10,000 psi WP Shaffer, LWS Double Gate BOP will be installed on the 11 3/4" casing and tested as per Onshore Oil & Gas Order #2 as a 5,000 psi system. An annular preventer will be installed on the 16" casing to drill to the 3420" depth. The casing and BOP will be tested before drilling out with the 10 5/8" and 7 7/8". See Exhibit "E".

<u>6.</u>	MUD PROGRAM:		MUD WEIGHT	VIS.	W/L CONTROL
	0' - 930':	Fresh water mud:	8.8 - 9.2 ppg	32 - 36	No W/L control
	930' - 1,530':	Fresh water mud:	10.0 - 10.4 ppg	28 - 29	No W/L control
	1,530' - 3,420':	Fresh/native brine	10.0 - 10.4 ppg	28 - 29	No W/L control
	3,420' - 5,600':	Fresh water + addit.		28 - 29	No W/L control
	5,600' - 12,900':	Fresh water/Cut brine		28 - 29	No W/L control
	12,900' - 14,400':	Cut Brine/xcd Polyme	er 9.4 - 11.5 ppg	38 - 42	W/L control <10 cc

7. Auxiliary Equipment: Blowout Preventer, flow sensors and stabbing valve.

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