			10 E	(Su				
Form 3160-3 (September 2001)		Expedit	75 72 x	FORM AI OMB No. Expires Janu	PPROVED 1004-0136			
UNITED STATES				5. Lease Serial No.				
DEPARTMENT OF THE IN BUREAU OF LAND MANAGE		10 MARO		NM 013642				
			04 S	6. If Indian, Allottee	or Tribe N	 Jame		
APPLICATION FOR PERMIT TO DE	KILL OK H	EENTER						
le Time of Weeks 174 pages	· · · · · · ·	(e)		NA 7. If Unit or CA Agree	ment, Na	me and	l No.	
la. Type of Work:	K	100		NA				
1b. Type of Well: Oil Well Gas Well Other	П.		12 (2)	8. Lease Name and We	li No.			
		ingle Zone Mult	iple Zone	Gardner C 5A				
2. Name of Operator Roch Exploration Company LLC				9. API Well No. 3 め 045	326	25	4	
3a. Address 909 Famin St. 1300	3b. Phone No	o. (include area code)		10. Field and Pool, or E		_		
P.O. Box 489 Aztee, NM 87410 Houston Tx 77010	(505) 334-9	•		Basin Fruitland Coal	•	,		
4. Location of Well (Report location clearly and in accordance with a	1		*	11. Sec., T., R., M., or I		urvey	or Area	
At surface SW/SE S26, T32N, R9W 665' FSL & 1655' I	-	·						
At proposed prod. zone same				SOE TOOM DOW (O)				
14. Distance in miles and direction from nearest town or post office*			S26, T32N, R9W (O) 12. County or Parish 13. State					
19 miles Northeast of Aztec, NM				San Juan	l l	NM		
5. Distance from proposed*	16. No. of A	Acres in lease	17. Spacin	g Unit dedicated to this w				
location to nearest property or lease line, ft.	1		322.					
(Also to nearest drig. unit line, if any) NA	2264.04		320 S/2	· ·				
18. Distance from proposed location*	19. Propose	d Depth	20. BLM/E	BIA Bond No. on file				
to nearest well, drilling, completed, applied for, on this lease, ft.	3419'		400 GH 0					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will s		23. Estimated duration 30 days				
6544' GL	March 1, 2							
	24. Atta	chments						
The following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No.1. shall be at	ttached to this	s form:				
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the litem 20 above).	he operations	s unless covered by an e	xisting bo	ond on	file (see	
3. A Surface Use Plan (if the location is on National Forest System	Lands, the	5. Operator certific						
SUPO shall be filed with the appropriate Forest Service Office).	ŕ	6. Such other site authorized offic		rmation and/or plans as	may be i	require	ed by the	
25. Signature , , , , , , , , , , , , , , , , , , ,	Name	(Printed/Typed)			Date			
Jev &	i	Johnson		12/5/03				
Title	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,01,113011						
Field Operations Manager								
Approved by (Signatule)	Name	: (Printed/Typed)			Date			
· · · · · · · · · · · · · · · · · · ·	<u>-</u>			<u> </u>	MAF		<u>2 2004</u>	
Title /s/ David J. Manklewicz	Offic	e 						
Application approval does not warrant or certify that the applicant holds operations thereon.	legal or equita	ble title to those rights i	in the subject	lease which would entitle	the applic	ant to	conduct	
Conditions of approval, if any, are attached.								
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i States any false, fictitious or fraudulent statements or representations as			and willfully	o make to any departmen	it or agen	cy of th	he United	
*(Instructions on reverse)					5			
This was				Ċ		: .		
This action is subject to technical and procedural review pursuant to 43 OFR 316. and appeal pursuant to 43 OFR 316.			· · · · · · · · · · · · · · · · · · ·			i i i		
and appeal pursuant to 43 OFR 316 43 OFR 3165.4	5.3 DRILLIN	G OPERATIONS AUTH T TO COMPLIANCE W	UHIZED ARE ITH ATTACH	ED			V	
	SUBJITE "GENER	AL REQUIREMENTS".		D []	y Sur)	1	Lij	
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				-	27.0			

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

811 South First, Artesia, N.M. 88210

DESTRUCT III 1000 Rio Brasos Rd., Astee, N.M. 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, MM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised Febuary 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

TANGED DEDOD

2040 South Pache	sco, Sant	a Fe, NM 871	504-2088						Ц	AMEN	DED REPORT
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GARDNER C 5A

Sec. 26-T32N-R9W, 665' FSL & 1655' FEL

San Juan Co., New Mexico

Lease NM 013642

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	2126'
Kirtland Shale	2181'
Fruitland Coal	3046'
Pict. Cliff	3419'
TD	3419'

2) Estimated depths at which oil, gas, water, and mineral bearing formation will be found:

Useable Water	0' to 2181'				
Salt Water	2181' to 3046'				
Oil and Gas	3046' to 3419'				

3) Pressure Control Equipment:

- a. 10-inch 900 series or 2,000 psi test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at Exhibit F-1 for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 70% of yield of casing or 1,500 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at **Exhibit F-1**. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 1,500 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed. Casing testing procedure Surface casing will be tested at 750 psi with 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 1,500 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.
- e. BOP testing procedures and frequency:
 - 1. Hydril (3,000WP) will be tested to 70% of yield of casing or 1,500 psi maximum.

GARDNER C 5A

Sec. 26-T32N-R9W, 665' FSL & 1655' FEL San Juan Co., New Mexico Lease NM 013642

- 2. Double ram BOPs will be tested to 70% of yield of casing or 1,500 psi maximum.
- 3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will usually be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head.
- g. The drilling spool will be a series 900 2,000 psi WP with a 2-inch kill line and a 2-inch outlet.

4) Proposed Casing Program:

Surface Casing Program:	Hole Size				<u>Depth</u>
Surface Casing	12 1/4"	9 5/8"	36.0#	J-55 STC	New @ 220'
Intermediate Casing	8 3/4"	7"	23#	J-55 LTC	New @ 3036'
Production Liner	6 ¼"	5 ½"	15.5#	J-55 LTC	New @ 3419'

Proposed setting depth, amount and type of cement including additives:

9 5/8" Surface Casing – Surface to 220' – Cement with 119 sxs class G (15.8 ppg, yield 1.16 cf/sx) Cement + 2% Calcium Chloride + 0.25 lbs/sx. D-29 cellophane, volume: 137.8 cf., includes 100% excess. Three centralizers will be run on the bottom 3 joints, starting at the shoe joint.

7" Intermediate Casing – Surface to 3036' – Lead cement with 335 sxs. 65/35 class G poz, 6% gel, 0.25 lbs/sx D-29 cellophane, (wt. 12.7 ppg, yield 1.75), Tail with 100 sxs. 50/50 class G poz, 2% gel, 0.25 lbs/sx D-29 cellophane, 2% calcium chloride, (wt 13.5 ppg, yield 1.28), includes 50% excess. Two centralizers will be run on the bottom two joints, then every 10th joint thereafter or (+/-) 400', and turbolizers to impact a swirling action, will be placed just below and into

5 ½" Production Liner 2956' to 3419' – Will not cement.

5) Mud Program:

0' - 220' -Spud mud and water treated with gel lime. 220' - 3036' -Lime mud, water and polymer.

the base of the OJO Alamo.

3036' - 3419' - Air-foam

6) Testing, Logging, and Coring Program:

No drill stem tests, cores, will be taken, a CBL log will be run if cement does not circulate to surface on intermediate casing.