* UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number 787 ner car
	DRILL	NMSF078197
		Unit Reporting Number
).).	Type of Well	070 Familington
.	GAS	or in maining Am or Tribo
	7 (2)	. case:
•	Operator PLIPI INICTONI	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	
•	Address & Phone No. of Operator	2003 8 Farm or Lease Name
	PO Box 4289, Farmington, NM \$7499	Rock Island Federal
	C second	VA SAV CA
	(505) 326-9700	7.3 T
	Location of Well	10. Field, Pool, Wildcat
	1775' FSL, 1020'FEL	Otero Chacra/Blanco
٠		Mesaverde/Basin Dakota
	Latitude 36° 44.3021'N, Longitude 107° 5	11. Sec., Twn, Rge, Mer. (NMPM) 2.0496'W
	decidade 30 44.3021 Ny hongitade 10, 3	API# 30-045-
		3/737
4.	Distance in Miles from Nearest Town	12. County 13. State
	7 miles to P.O. in Blanco, NM	San Juan NM
5.	Distance from Proposed Location to Nearest Property o	r Lease Line
6.	Acres in Lease	17. Acres Assigned to Well
6.	Acres in Lease	17. Acres Assigned to Well Cha: 159.54
6.	Acres in Lease	
6. 8.	Distance from Proposed Location to Nearest Well, Drlg,	Cha: 159.54 MV/DK: 320.56 5/)
8.	Distance from Proposed Location to Nearest Well, Drlg, 278'	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease
8.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth	Cha: 159.54 MV/DK: 320.56 5/)
8. 9.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850'	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth	Cha: 159.54 MV/DK: 320.56 5/1 Compl, or Applied for on this Lease 20. Rotary or Cable Tools
8. 9. 1.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
8. 9.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
8. 9.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program	Cha: 159.54 MV/DK: 320.56 5/1 Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
8. 9. 1.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program See Operations Plan attached	Cha: 159.54 MV/DK: 320.56 5/1 Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
8. 9. 1.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
8. 9. 1.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program See Operations Plan attached	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
8. 9. 1.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory/Compliance Superviolation.	Cha: 159.54 MV/DK: 320.56 5/) Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
8. 9. 1. 3.	Distance from Proposed Location to Nearest Well, Drlg, 278' Proposed Depth 6850' Elevations (DF, FT, GR, Etc.) 5712' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory/Compliance Supervision	Cha: 159.54 MV/DK: 320.56 5/1 Compl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start 4-4-03 risor 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 18 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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

rhis action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

DISTRICT II P.O. Droyer DD, Artesia, N.M. 88211-0719

Energy, Minerals & Natural Resources Department

rorm U-1UZ Revised February 21, 1994

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

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV PO Box 2088, Somio Fe, NM 87504-2088

DISTRICT III #000 Rio Brazos Rd., Aziec, N.M. 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT											
³ API Number ³ Pool Code ³ Pool Name											
30-045- 3/737 82329/72319/71599 Otero Chacra/Blanco Mesaverde/Basin Dakota											
Property Code					Property Name				* Well Number		
	745			•	ROCK ISLAND FEDERAL			to paid water	The state of the s		
OGRID No.]			LIRI INCTO	Operator 1		& CAS INC				Elevation 5712
14538				ONLINGTO	RLINGTON RESOURCES OIL & GAS INC.						
					¹⁰ Surface						
UL or lot no.	Section	Township	Range 10-W	Lot Idn	Feet from the	1	h/South line	Feet from the	East/We		County
	9 25 10 1775 550111 1025 55.1 134						SAN JUAN				
		T		m Hole	Location I			m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	Non	h/South line	Feet from the	LOSI/W	est line	County
12 Dedicated Acres		1 10	Joint or Infili	l	¹⁴ Consolidation C	ode		¹⁵ Order No.	<u></u>		_1
Cha - 159	.54										
MV/DK - S	/320.										2011201121222
NO ALLOW	ABLE V				IS COMPLET UNIT HAS B					BEEN C	CONSOLIDATED
			NON-317	ANDARD	UNII HAS B	EEN	APPROVED	DI INE L	NOISION		
·	1							-17	OPERA	TOR CI	ERTIFICATION
	1				345	6°73			I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief		
	Ì				A Short 1				The one complete to his past of my historiage and sense		
LOT 4		LOT	3		AUG POOR						
	- [003					
				00	S OIL CONS	2	33				
				+	- 4/37 · 3	2///2)	1	
					£23,				MALL	Cal	10
					E 2217 12 51 81 81 81 81 81 81 81 81 81 81 81 81 81			Signatu	Signature		
LOT 5		LC	OT 6		LOT 7 LOT 8			Pegg	Peggy Cole		
					(NAD 27)			1	Printed Name		
			NG:10752	0496' W. (NAD 27)		QTR. CORNER FD 3 1/4"		THE			VISOT
				۵		<u> </u>	BLM 196	7 BC	·		
USA SF-07	B197	USA SF	-078197	,, USA	SF-078197		USA SF-078		CHEVE	AD A=	DTICIOATION
<u> </u>				WRIGHT, M A		ig LOT 9		9. 1	18 SURVEYOR CERTIFIC		
[KAEMPF, L WRIGHT, MILDRED A				I hereby certify that the well location shown on was plotted from field notes of actual surveys m		tion shown on this plat tual surveys made by me
LOT 12		LOT	F 11	KAEI	MPF, LAURA	308	1020'		my supervision		t the same is true and
				li	LOT 10		1	" 			2
li li				li		475		ດູ⊋ົ່ Date of	Z		3
<u> </u>		 -			IPF, LAURA	‡=		ວຸບໍ່ ∐ gleuchn	Survey O'	PIOTESIO	nor Sugreyor
USA SF-07	8197		SHT, M A		RIGHT, M A	WRIC	нт, м а	599.	1 1	14827	1 1001
<u> </u>	ļ	ji KAI	EMPF, L	-	KAEMPF, L		▼	25 ×	REGIS	7	八息
	 	li .	OT 12	WAGE	WRIGHT, MILDRED A			21	A SE		
LOT 13		li '	LOT 14		LUI 10	1	LOT 16	1	- 60	PROFESS 4827	ONA
] 	li	QTR. CORNE		S 88'55'21"	. W . Z] SEU. U		<u> </u>	4827	
<u> </u>	ا كـــ ــــ ــ	<u> '</u>	BLM 1967 B		2656.6' (M	<u>)</u> =	FD 3 BLM 190	7 BC Certifie	ole Number		

OPERATIONS PLAN

Well Name: Rock Island Federal #1M

1775'FSL, 1020'FEL, Sec 9, T-29-N, R-10-W Location:

San Juan County, NM Latitude 36° 44.3021'N, Longitude 107° 52.0496'W

Otero Chacra/Blanco Mesaverde/Basin Dakota Formation:

Elevation: 5712'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	894'	
Ojo Alamo	894'	1004'	aquifer
Kirtland	1004'	1824'	gas
Fruitland	1824'	2114'	gas
Pictured Cliffs	2114'	2204'	gas
Lewis	2204'	2724'	gas
Intermediate TD	2304'		
Huerfanito Bentonite	2724'	3104'	gas
Chacra	3104'	3764'	gas
Massive Cliff House	3764'	3804'	gas
Menefee	3804'	4414'	gas
Massive Point Lookout	4414'	4799'	gas
Mancos	47991	5634'	
Gallup	5634'	6370'	gas
Greenhorn	6370'	6436'	
Graneros	6436'	6490'	
Dakota	6490'	6801 ′	gas
Morrison	6801 ′	6840 ′	•
TD	6850'		

Logging Program:

Cased hole - CBL/CCL/GR - TD to surface

Open hole - Platform Express: DIL/GR - TD to surface casing,

Density/Neutron/Porosity w/RT - TD to 6270'; 4700' to 3700',

Bulk Density/Correction, Microlog - TD to 6270'; 4700' to 3700'

Mudlog from TD to 6270' and 4700' to 3700' Cores - none

Mud Program:

Inter	rval	Type	<u>Weight</u>	Vis.	<u>Flui</u>	d Loss
0 -	300'	Spud	8.4-9.0	40-50	no	control
300-	6850'	LSND	8.4-9.0	30-60	no	control

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 300'	8 5/8"	32.0#	H-40
7 7/8"	300' - 6850'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 6850' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing will be tested to 2000 psi for 15 minutes.

Wellhead -

 $8 \ 5/8$ " x $4 \ 1/2$ " x $2 \ 3/8$ " x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8-5/8" surface casing - cement with 265 sxs Type III cement w/2% calcium chloride, 0.25 pps celloflake (371 cu.ft. of slurry, bring cement to surface). WOC 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing -

Pump 841 sxs Premium Lite HS FM w/0.7% fluid loss, 4 pps Phenoseal, 0.2% CD-32, 3 pps CSE (1950 cu.ft., 25% excess to circulate to surface). WOC a minimum of 18 hrs prior to completing. If cement does not circ to surface a temperature survey or CBL will be run to determine TOC.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom to 6400' & every fourth joint up to the base of the Ojo Alamo at 1004'. Two turbolating centralizers at the base of the Ojo Alamo at 1004'. Bowspring centralizers spaced every fourth joint to surface casing.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.