UNITED STATES DEPARTMENT OF THE INTERIOR

		WENT OF THE IT				5. LEASE DESIGNATION	AND SERIAL NO.	
	BUREAU	OF LAND MANAG	BEMENI			SF	078402	
	PLICATION FOR	R PERMIT TO D	RILL OR D	EEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
	RILL 🖂	DEEPEN				7. UNIT AGREEMENT N	AME	
b. TYPE OF WELL	AS 🔽		SINGLE X	MULTIPL	F	8. FARM OR LEASE NAI	ME, WELL NO.	
WELL VI 2. NAME OF OPERATOR	VELL OTHI	ER	ZONE	ZONE		Raymond S	Simmons No. 2	
	on Company, Inc.					9. API WELL NO.		
3. ADDRESS AND TELEPHO	- -			777		30-045	30857	
	., Farmington, NM port location clearly and in accorda		4.3 // 1	10 4 5 B		10. FIELD AND POOL, O	- 	
At surface			190	V 2001	<u>C</u>	11. SEC., T., R., M., OR E	BLK	
680 'FSL - 1160 At proposed prod. zone	'FEL, Section 17,	T30N, R11W, NM		ACIVICA		AND SURVEY OR AR	EA	
Same			RE RE	CON. DIV		Section 17,	T'30N, R11W, NMP	
	D DIRECTION FROM NEAREST		- PE OII	DIGT. 3	N	12. COUNTY	13. STATE	
	hwest of Aztec, N	New Mexico	less,	. 🔾		San Juan	NM	
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE	ST LINE, FT.	09'	16. NO. OF CRES IN	GI 81 1 31	17. NO. OF AC TO THIS W	RES ASSIGNED VELL 320		
(Also to nearest drig unit 18. DISTANCE FROM PROI	POSED LOCATION*		19. PROPOSED DEP	ТН	20. ROTARY C	OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON	THIS LEASE, FT.	125'	6788			Rotary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	is action is and, and	ió isomin e n med			22. APPROX. DATE WOF		
5691 'GL	pro en	ocedural review purs d appeal: pursuant to	uant to 43 CFR	3165.3		As soon as 1	permit approved	
23.	•	PROPOSED CA	SING AND CEME	NTING PROGR	RAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	H	Q	UANTITY OF CEMENT		
12.250"	8.625",J-55	24#	300-1320		circulat	e to surface		
7.875"	5.500",J-55	15.5#	6788'			ages, Circ. t	surface	
system. No abn in three stage Lewis top and completion rig	BOPE to minimum or cormal pressure or s with sufficient approximately 50. Run cased hole ls and stimulate eral, BLM.	poisonous gas cement to circufeet into the Upcorrelation logs	is anticipatulate to surper Mancos s. Pressure ater based g	ed. Log well face. Mecha formation. test casing	ll. Run panical DV Rig down g to 3000 Fest well	roduction cas tools will be drilling equenced and connect and connect	ing and cement e placed at the ipment. Move in te select	
N ABOVE SPACE DESCRIBI data on subsurface locations a	E PROPOSED PROGRAM: If propand measured true vertical depths.	osal is to deepen, give data on Give blowout preventer progra	present productive zone m, if any.	and proposed new p	productive zone.	if proposal is to drill or deep	pen directionally, give pertinent	
SIGNED	hul E. J.	ilde TITL	E Business	Manager			ber 25, 2001	
(This space for Federal	al or State office use)	<u> </u>						
PERMIT NO			APPROVAL DA	NTE		<u> </u>		
Application approval of CONDITIONS OF AP	does not warrant or certify that the PROVAL, IF ANY:	applicant holds legal or equitable	e title to those rights in t	ne subject lease whic	ch would entitle th	ne applicant to conduct ope	rations thereon.	
	/s/ Jim Lov	ato				OCT 2	7 ~~	
APPROVED BY	/a/ JHH LUY	TITLE			D.	ATE		

District I PO Crx 1980, Hobbs. NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

District III 1000 Rio Brazos Ad., Aztec. NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

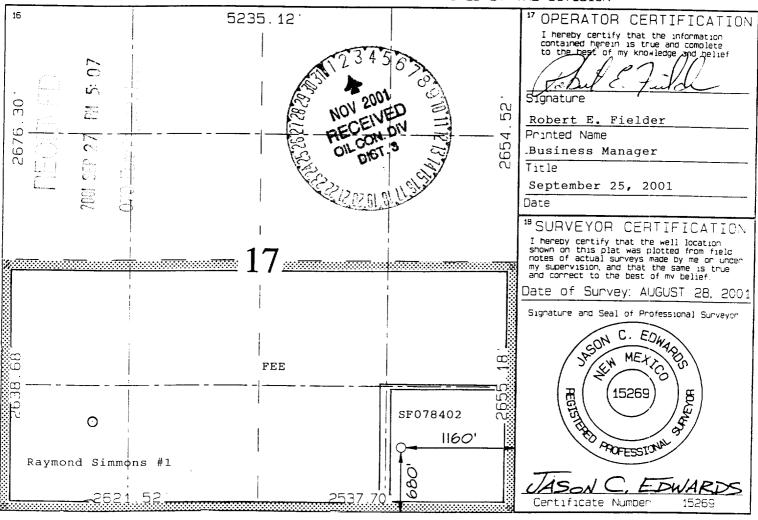
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

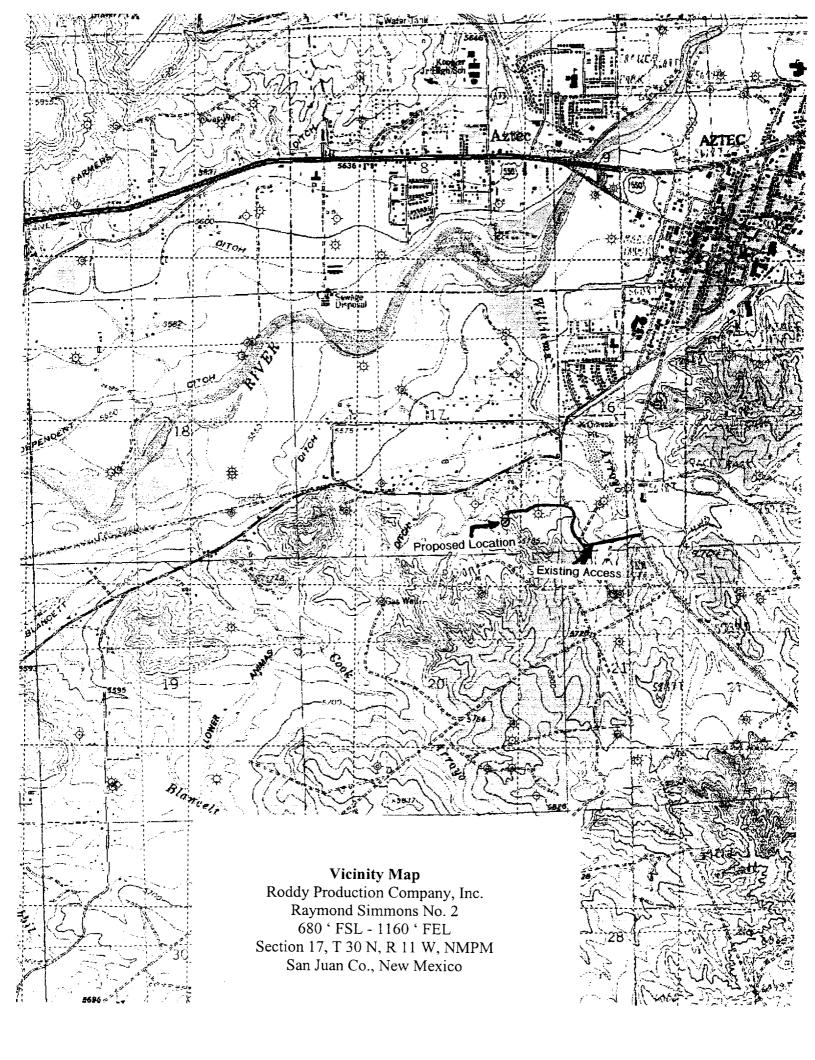
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number			*Pool Code		³Pool Name					
30-045-30859				71599		BASIN DAKOTA				
	*Property Code					Property Name			*Well Number	
20956					RAYMOND SIMMONS				2	
'OGRID I	Vo.				*Operator Name				*Elevation	
36845		RODDY PRODUCTION COMPANY INC.							5691	
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West lin	e County	
Р	17	30N	11W		680	SOUTH	1160	EAST	SAN JUAN	
		11 🖯	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County	
							-			
12 Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
320.00			Y	C						

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





Roddy Production Company, Inc.
Raymond Simmons No. 2
680' FSL & 1160' FEL
Section 17, T30N, R11W, NMPM
San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

- 1. Surface Formation: Nacimiento
- 2. Surface Elevation: 5691'GL.

3. Estimated Formation Tops:

Nacimiento surface Ojo Alamo 567 Kirtland 691 Fruitland 1632 Fruitland Coal 1998 Pictured Cliffs 2036 GAS Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Gallup 5612 GAS Lower Mancos 6153 Greenhorn Graneros 6409 GAS	<u>Formation</u>	Top - feet	Expected Production
Kirtland 691 Fruitland 1632 Fruitland Coal 1998 Pictured Cliffs 2036 GAS Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Gallup 5612 GAS Lower Mancos 6153 Greenhorn	Nacimiento	surface	
Fruitland 1632 Fruitland Coal 1998 Pictured Cliffs 2036 GAS Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Lower Mancos 6153 GRS Greenhorn 6353 GRS	Ojo Alamo	567	
Fruitland Coal 1998 Pictured Cliffs 2036 Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 Menefee 3789 Pt. Lookout 4366 Upper Mancos 4740 Gallup 5612 Lower Mancos 6153 Greenhorn 6353	Kirtland	691	
Pictured Cliffs 2036 GAS Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 Menefee 3789 Pt. Lookout 4366 Upper Mancos 4740 Gallup 5612 Lower Mancos 6153 Greenhorn 6353	Fruitland	1632	
Lewis 2209 Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Fruitland Coal	1998	
Huerfanito 2794 Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Pictured Cliffs	2036	GAS
Chacra 2988 Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Gallup 5612 GAS Lower Mancos 6153 Greenhorn	Lewis	2209	
Mesa Verde 3544 Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Gallup 5612 GAS Lower Mancos 6153 Greenhorn Greenhorn 6353	Huerfanito	2794	
Cliff House 3605 GAS Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Chacra	2988	
Menefee 3789 GAS Pt. Lookout 4366 GAS Upper Mancos 4740 GAS Gallup 5612 GAS Lower Mancos 6153 Greenhorn Greenhorn 6353	Mesa Verde	3544	
Pt. Lookout 4366 GAS Upper Mancos 4740 Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Cliff House	3605	GAS
Upper Mancos 4740 Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Menefee	3789	GAS
Gallup 5612 GAS Lower Mancos 6153 Greenhorn 6353	Pt. Lookout	4366	GAS
Lower Mancos 6153 Greenhorn 6353	Upper Mancos	4740	
Greenhorn 6353	Gallup	5612	GAS
	Lower Mancos	6153	
Graneros 6409 cag	Greenhorn	6353	
	Graneros	6409	GAS
Dakota 6538 GAS	Dakota	6538	GAS
TOTAL DEPTH 6788	TOTAL DEPTH	6788	

4. Surface Hole Program:

Bit: Drill a 12 1/4" hole to 300' using a retip mill tooth, IADC Class
115 or 116, bit. WOB: all. RPM: 70 - 100.
Mud: Use a fresh water base spud mud with the following properties:

Interval (ft) Weight (ppg) Ph Vis(sec/qt) Water Loss

0 - 200 8.6 or less 9.0-9.5 40 - 50 No Control

370 Min

Drilling Program
Roddy Production Company, Inc.
Raymond Simmons No. 2
Page Two

4. Surface Hole Program: - continued

Casing and Cementing: A string of 8%" 24# J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 210 sacks of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl₂ and 1/4 lb/sack celloflake. Slurry volume assumes 100% excess over calculated hole volume. If cement does not circulate to surface, cement will be topped off using 1" pipe down the 12 1/4" by 8 5/8" annulus. Minimum clearance between couplings and hole is 1.3125". Prior to drilling out the shoe, casing and BOPE will be tested to a minimum of 600 psig. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb overpull, whichever is greater.

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run three (3) 8%" X 12 $\frac{1}{4}$ " regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe thread locked. Also thread lock connection between first and second joint run.

5. Intermediate Hole Program:

No intermediate casing is planned for this well.

6. Production Hole Program:

Bits: Drill an 7 7/8" hole to 4790' feet using TCI, IADC class 447, bits. WOB: 40 - 45K. RPM: 65-75. Slow RPM through Ojo Alamo, Cliff House, and Pt. Lookout. Drill to 6538' with PDC. WOB: 15 - 25K. RPM: 60 - 70. Drill to Total Depth with TCI, IADC class 637.

Mud: Use a fresh water based low solids non dispersed system with the following properties:

<u>Interval (ft)</u>	<u>Weight (ppg)</u>	Hq	Vis(sec/qt)	Water Loss
320 - 4500 4500 - TD		9.0-9.5 9.0-9.5	28 - 35 28 - 35	10 - 15 cc 8 - 10 cc
4500 ID	0.0 - 3.0	9.0~9.3	28 - 35	8 - 10 CC

Fresh water will be used for dilution and building volume. Sufficient materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume in the rig pits will be visually monitored and recorded on a routine basis.

 $\underline{\text{Note:}}$ Raise **viscosity** to 55 - 60 for logging. Thin to 40 - 45 viscosity to run casing.

Drilling Program
Roddy Production Company, Inc.
Raymond Simmons No. 2
Page Three

6. Production Hole Program: - continued

pH is to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection. Drispac will be used for control of fluid loss. Hole will be drilled through majority of Mesa Verde interval using polymer and drispac additions to water. Mud up before trip for PDC. Lost Circulation is expected and can occur anywhere from the Pictured Cliffs formation to TD. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.

Pressure Control: A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to a minimum of 600 psig before drilling out from under surface casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 4 1/2" rams will be installed before running production casing. A full opening internal blowout preventor or drill pipe safety Valve will be on the drill floor at all times and will be capable of fitting all connections.

Logging Program: Induction and Compensated density/Epithermal neutron logs from TD to surface casing shoe.

Casing and Cementing Program: Run 5 ½" 15.5# J-55 production casing from surface to Total Depth and cement in 3 stages with mechanical DV tools installed fifty feet ± below the Upper Mancos top and fifty feet ± below the Lewis top. Stage 1 (6788'TD - 4790') will be cemented with $\underline{380}$ sacks (520.6 cf) of 50/50 Class B POZ containing 2% gel, 5 pps Gilsonite, 1/4 pps Flocele, 0.3% Halad 344 FLA, and 0.3% Versaset mixed at 13.5 PPG to yield 1.37 cf/sk. Stage 2 (4790 ' - 2200') will be cemented with 125 sacks (360.0 cf) of Class B with 3% Econolite, 0.5 pps flocele, 10 pps Gilsonite mixed at 11.4 PPG to yield 2.88 cf/sk. Followed with 225 sacks (308.25 cf) of 50/50 Class B POZ with 2 % gel, 5 pps Gilsonite, 1/4 pps Flocele, .3% Halad 344 and .3% Versaset mixed at 13.5 PPG, yield 1.37. Stage 3 (2200' - surface) will be cemented with 150 sacks (432.0 cf) of Class B with 3% Econolite, 0.5 pps flocele, 10 pps Gilsonite mixed at 11.4 PPG to yield 2.88 cf/sk. Followed with 100 sacks (135.0 cf) of Class B with 0.5 pps flocele and 10 pps gilsonite mixed at 15.6 PPG to yield 1.35 cf/sk.

Circulate and WOC between stages for four (4) hours.

Slurry volumes assume a 50% excess over gauge hole volume. Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 0.9125". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Drilling Program
Roddy Production Company, Inc.
Raymond Simmons No. 2

Page Four

6. Production Hole Program: - continued

Centralizers: 21 - 5 1/2" X 7 7/8" bowspring centralizers will be run across all prospective pays and 5 - 5 1/2 " X 7 7/8" turbolizers will be spaced such that one (1) is just below the Basal Fruitland Coal, three (3) across the Fruitland and one (1) into the Ojo Alamo.

Float Equipment: Cement nose float shoe, 1 jt 5 1/2" csg, float collar, and 2 - mechanical DV tools with 2 cement baskets below each DV.

7. Auxiliary Equipment:

An upper kelly cock will be utilized. The handle will be available on rig floor at all times

8. Logging Program:

Dual Induction with GR and Epithermal Neutron / Formation Density will be run from TD to surface casing shoe. Bulk density will be presented on a 5 " scale through the coals. Deep induction curve will be merged onto the porosity log.

Coring and Testing Program:

No cores or drill stem tests are planned.

9. Abnormal Pressure:

Although not expected, abnormal pressures are possible in the Fruitland formation.

Estimated Bottom Hole Pressure:

1500 - 2000 psig.

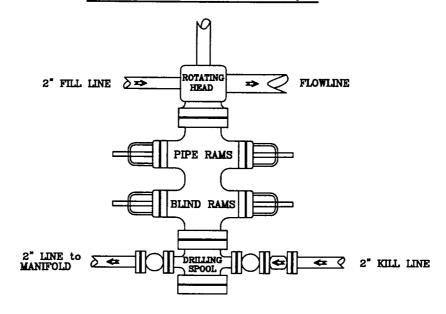
10. Anticipated Starting Date:

September 20, 2001.

Duration of Operations: It is estimated a total of 15 days will be required for drilling operations and 10 days for the completion operation.

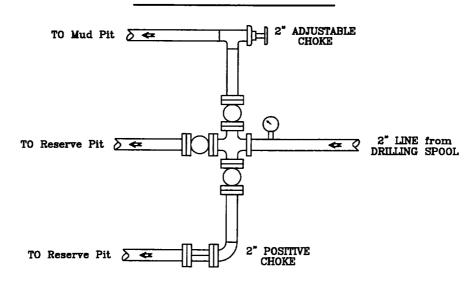
PRESSURE CONTROL

Wellhead Assembly



Preventer and Spools are to have a 6" Bore or larger and a 2000 PSI or higher Pressure Rating

Choke Manifold



Roddy Production Company, Inc.

Raymond Simmons No. 2 680'FSL - 1160'FEL Section 17, T30N, R11W, NMPM San Juan County, New Mexico