RICHARDSON OPERATING COMPANY

ROPCO Federal 12 No. 2 1630' FNL, 770' FEL Section 12, T29N, R13W San Juan County, New Mexico

DEVIATION SURVEY

<u>Depth</u>	Hole I	<u>Deviation</u>	
132'	1/4	degree	
720'	3/4	degree	
1280'	1/2	degree	
1630°	3/4	degree	and provide the second second
			DEGEIVED Nov - 7 1994
State of New Mexico }			UU NOV - 7 1994
}			OIL COM. DIV.
County of San Juan }			DIST. 3

I, **Bruce E. Delventhal**, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 3th day of November 1994.

Notary Public

My Commission Expires Jule 3,1, 1998'.

RICHARDSON OPERATING COMPANY

ROPCO Federal 12 No. 2 1630' FNL, 770' FEL Section 12, T29N, R13W San Juan County, New Mexico

DEVIATION SURVEY

<u>Depth</u>	Hole	<u>Deviation</u>
132'	1/4	degree
720'	3/4	degree
1280'	1/2	degree
1630'	3/4	degree
State of New Mexico } County of San Juan }	1	DEGETVED NOV - 7 1994 OIL COM. DIV. DIST. 3

I, Bruce E. Delventhal, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 3th day of November 1994

My Commission Expires June 31, 1998

RICHARDSON OPERATING COMPANY

ROPCO Federal 12 No. 2 1630' FNL, 770' FEL Section 12, T29N, R13W San Juan County, New Mexico

DEVIATION SURVEY

	Depth	Hole I	<u>Deviation</u>
	132'	1/4	degree
	720'	3/4	degree
	1280'	1/2	degree
1	1630'	3/4	degree

State of New Mexico }
County of San Juan }

DEGETVED NOV - 7 1994

OIL COM. DIV.

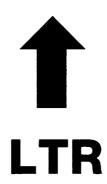
I, <u>Bruce E. Delventhal</u>, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 3rd day of November 1994.

Notary Public

My Commission Expires June 31, 1998







Job separation sheet

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

					11 2: 27 SF	078931
SU	UNDRY NOTI	ICES AND REPOR	RTS ON WI	ELLS	6. If Indian, Allott	ee or Tribe Name
	Do not use this form for	proposals to drill or to deepen or re	eentry to a different	reservoir.	rin, Mi	
		LICATION FOR PERMIT " for				
		UBMIT IN TRIPLIC		## # 15)	7 If Unit or CA Ac	reement Designation
		ODIVIT IN TRUI EX	-1017 NOA	- 3 1994 LY		Joseph Joseph
Type of Well	Gas		1101	0 1001		
Well	X Well	Other			8. Well Name and	l No.
Name of Oper	rator		0	III. 3	ROPCO	Federal 12
	Richardson Op	erating Company			9. API Well No.	
Address and 7			Name of the Association of the A	The distance can be a constructive of	7 1	No. 2
riddioss and r	1700 Lincoln,	Suite 1700 Denver	CO 80202	(303) 830-8000	10. Field and Pool.	or Exploratory Area
		•		(303) 030 0000	—	PC/ Basin FC '
Location of W	veil (Footage, Sec., 1., R. 1630' FNL, 770' F	, M., or Survey Description) FEL			11. County or Par	
	Section 12, T29N				San	Juan, NM
					l	Juan, NVI
2.	CHECK APPROPRI	ATE BOX(s) TO INDICATE NA	TURE OF NOTIC	E, REPORT, OR OTHER DA	ГА	<u> </u>
TYP	E OF SUBMISSION		7 Abadaana	TYPE OF ACTION	Cha	nge of Plans
	x Notice of Intent		Abandonment Recompletion			v Construction
	Subsequent Rep	ort	Plugging Back		Nor	-Routine Fracturing
			Casing Repair		نـــا	ter Shut-off eversion to Injection
	Final Abandonn	nent Notice X	Altering Casing	2		iversion to injection
			Other	,	Dis	pose Water
	,		Other		(Note: report results of Completion or Recomp	f multiple completion on Well
3. Describe Proproposed work.)*	oposed or Completed Ope ork. If well is directional Richardson Op	erations (Clearly state all pertinent ly drilled, give subsurface location perating Company requirements to the following:	details, and give per s and measured and	tinent dates, including estimated true vertical depths for all marke	(Note: report results of Completion or Recom date of starting any rs and zones pertinent	f multiple completion on Well bletion Report and Log form.) to this
proposed we	oposed or Completed Ope ork. If well is directional Richardson Op on the subject	ly drilled, give subsurface location perating Company requively to the following:	details, and give pers and measured and ests permission	tinent dates, including estimated true vertical depths for all marke on to alter the proposed	(Note: report results of Completion or Recompletion or Recompletion or Recompletion or Recomplete of Starting any results and zones pertinent decision of Casing progra	f multiple completion on Well bletion Report and Log form.) to this
proposed we	oposed or Completed Ope ork. If well is directional Richardson Op on the subject Hole Size	ly drilled, give subsurface location berating Company requivell to the following: Csg Size	details, and give pers and measured and ests permissic	tinent dates, including estimated true vertical depths for all marke on to alter the proposed Cementing	(Note: report results of Completion or Recompletion or Recompletion or Recompletion or Recompletion or Recompletion or Recompletion of Starting any results and zones pertinent of Casing program	f multiple completion on Well pletion Report and Log form.) to this Top of Cemer
proposed we	oposed or Completed Ope ork. If well is directional Richardson Op on the subject	ly drilled, give subsurface location perating Company requively to the following:	details, and give pers and measured and ests permission	tinent dates, including estimated true vertical depths for all marke on to alter the proposed Cementing 100 sx (118 cf) Class B of	(Note: report results of Completion or Recompletion of Recompletion or Recompl	f multiple completion on Well bletion Report and Log form.) to this
proposed we	oposed or Completed Options. If well is directional Richardson Option the subject Hole Size 12 1/4"	ly drilled, give subsurface location berating Company requirements to the following: Csg Size 8 5/8", 24#, J-55	details, and give pers and measured and ests permission. Depth Set	control of the proposed of the	(Note: report results of Completion or Recompletion or Recompl	f multiple completion on Well pletion Report and Log form.) to this Top of Cemer Surface
proposed we	oposed or Completed Ope ork. If well is directional Richardson Op on the subject Hole Size	ly drilled, give subsurface location berating Company requivell to the following: Csg Size	details, and give pers and measured and ests permissic	control of the proposed of the	(Note: report results of Completion or Recompletion or Recompl	f multiple completion on Well pletion Report and Log form.) to this Top of Cemen
proposed we	oposed or Completed Options. If well is directional Richardson Option the subject Hole Size 12 1/4"	ly drilled, give subsurface location berating Company requirements to the following: Csg Size 8 5/8", 24#, J-55	details, and give pers and measured and ests permission. Depth Set	comenting Cementing 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (309 cf) Class B of 2% Sodium Metasilicate,	Note: report results of Completion or Recompletion or Recomple	f multiple completion on Well bletion Report and Log form.) to this Top of Cemen Surface
proposed we	oposed or Completed Options. If well is directional Richardson Option the subject Hole Size 12 1/4"	ly drilled, give subsurface location berating Company requirements to the following: Csg Size 8 5/8", 24#, J-55	details, and give pers and measured and ests permission. Depth Set	Cementing 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 200 sx (118 cf) Class	Completion or Recompletion or	f multiple completion on Well pletion Report and Log form.) to this Top of Cemer Surface
proposed we	oposed or Completed Options. If well is directional Richardson Option the subject Hole Size 12 1/4"	ly drilled, give subsurface location berating Company requirements to the following: Csg Size 8 5/8", 24#, J-55	details, and give pers and measured and ests permission. Depth Set	comenting Cementing 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (309 cf) Class B of 2% Sodium Metasilicate,	Completion or Recompletion or	f multiple completion on Well pletion Report and Log form.) to this Top of Cemer Surface
proposed we work.)*	oposed or Completed Options. If well is directional Richardson Option the subject Hole Size 12 1/4"	ly drilled, give subsurface location berating Company requirements of the following: Csg Size 8 5/8", 24#, J-55 5 1/2", 15.5#, J-55	details, and give pers and measured and ests permission. Depth Set	Cementing 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 200 sx (118 cf) Class	Completion or Recompletion or	f multiple completion on Well pletion Report and Log form.) to this Top of Cemer Surface
proposed we work.)*	oposed or Completed Ope ork. If well is directional Richardson Ope on the subject Hole Size 12 1/4" 7 7/8"	ly drilled, give subsurface location berating Company requirements of the following: Csg Size 8 5/8", 24#, J-55 5 1/2", 15.5#, J-55	details, and give pers and measured and ests permission. Depth Set	Cementing 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 200 sx (118 cf) Class	Completion or Recompletion or	r multiple completion on Well pletion Report and Log form.) to this Top of Cemer. Surface Surface
proposed we work.)* 4. I hereby cent Signed	oposed or Completed Ope ork. If well is directional Richardson Ope on the subject Hole Size 12 1/4" 7 7/8"	berating Company requivell to the following: Csg Size 8 5/8", 24#, J-55 5 1/2", 15.5#, J-55	details, and give pers and measured and ests permission Depth Set 120' 1630'	Cementing 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce	Completion or Recompletion or	r multiple completion on Well pletion Report and Log form.) to this Top of Cemer. Surface Surface
proposed we work.)* 4. I hereby cent Signed	oposed or Completed Ope ork. If well is directional Richardson Ope on the subject Hole Size 12 1/4" 7 7/8"	berating Company requivell to the following: Csg Size 8 5/8", 24#, J-55 5 1/2", 15.5#, J-55	details, and give pers and measured and ests permission Depth Set 120' 1630'	Cementing 100 sx (118 cf) Class B of 2% Sodium Metasilicate, 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce	Completion or Recompletion or	f multiple completion on Well pletion Report and Log form.) to this Top of Cemen Surface Surface
proposed we work.)* I.4. I hereby cent Signed (This space Approved by Conditions	oposed or Completed Ope ork. If well is directional Richardson Ope on the subject Hole Size 12 1/4" 7 7/8" refig that the foregoing is of or Federal or State office by	berating Company requivell to the following: Csg Size 8 5/8", 24#, J-55 5 1/2", 15.5#, J-55	details, and give pers and measured and ests permission Depth Set 120' 1630' Title	cementing 100 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce 150 sx (118 cf) Class B of 2% CaCl and 1/4 #/sk ce	Completion or Recompletion or	Top of Cemen Top of Cemen Surface Surface 14-Oct-94