Form 3160-4

SUBMIT IN DUPLICATE

FOR APPROVED

IFLL AALES		DEP	ARTMENT	OFTHE		IOR		structions on			NO. 1004-0137
			UREAU OF L		•	• :			5. LE		December 31, 1991 ION AND SERIAL NO.
					2 P 141 P 1 4	•				NM-04226	i
/ELL COMP	LETIO	N OR I	RECOMP	LETION	REP	ORT AND) LQ) G *	6. IF I	NDIAN, ALLOTT	EE OR TRIBE NAME
TYPE OF WELL:		OIL	GAS X	DRY	Other	<u> </u>		- 	1		
D. TYPE OF COMPLE	ETION:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_	_	The state of the s		* *******	7. UN	IT AGREEMENT	NAME
NEW (ETION. ▼ WORK [DEEP-	PLUG [DIFF.	7 () ()		, , , ,	8. FAI	RM OR LEASE I	VAME, WELL NO.
MET [OVER [EN	BACK	RESVR	Other					McManus #	4R
. NAME OF OPERA	TOR			· · ·		नाम	511	WEL	9. AP	WELL NO.	
			IL & GAS CO	MPANY		<u> </u>		VEI		30-045-2943	
ADDRESS AND TE	ELEPHONE N 289, Farmin		87400 (5	05) 326-9	₇₀₀ L	E NUL III	Ü 19	997 (10. FI	ELD AND POOL Ballard Pictu	and the second second
LOCATION OF WE		<u> </u>							11. S		R BLOCK AND SURVEY
At surface	1130'FSL, 1	530'FEL			(DIL (CO	IKK	MIN	0	R AREA	
At top prod. interva	il reported bek	ow			`)		•
AA A-A-4					TV 00		N.	ઇ		C 40 T.	
At total depth					TX-26	55			1	Sec. 19, 1-2	16-N, R-8-W UNI + (
				14. PERMIT	NO.	DATE ISSUE	D			OUNTY OR	13. STATE
									San J	PARISH LIBN	New Mexico
5. DATE SPUDDED	16. DATE T.D). REACHED	17. DATE	COMPL. (Read	y to prod.)		18. ELE	EVATIONS (DF, R	KB, RT, I	BR, ETC.)*	19. ELEV. CASINGHEAD
4-14-97 2. TOTAL DEPTH, MD	4-16-97	34 BLUC B	6-4 ACK T.D., MD &TV	5-97 /D 22, IF MU	TIDLEC	OMBI		6359 GR, 637		Y TOOLS	CABLE TOOLS
. TOTAL DEFTH, MO	alvo	11. PLUG, B	MORTIUS, MID GIT	70 22. IF MO	HOWN	•		RILLED BY		rioots	CABLE POOLS
2326									0-232		
. PRODUCTION INTE	RVAL (S) OF TI	HIS COMPLI	ETION-TOP, BOTT	OM, NAME (ML	AND IVE),·				25. WAS DIRE SURVEY I	
2071-2141 Pictu		20 00 00							Ioz iere	NEIL CORE	
AIT, CNL, ML	O THER LOG	IS RUN							27. WA	No No	•
).				CASING F	ECORD	(Report all strings	set in t	well)			
CASING SIZE/GRADE 8 5/8	WEIGHT	, LB./FT.	DEPTH SET (MD) HOLI	SIZE	TOP OF CEN	ENT, C	EMENTING REC	ORD		AMOUNT PULLED
3 1/2	9.2# &	7.7#	2321	6 1/4		679 cu.ft.	***				
	!	I INED DE	1	1							
			COPD			30			וד	IRING PECOE	20
SIZE TOP (N	(D) BOTT	OM (MD)	CORD SACKS CEME	NT* SCREI	EN (MD)	30. SIZE		DEPTH SET		JBING RECOR	RD PACKER SET (MD)
	(D) BOTT			NT* SCREI	EN (MD)			DEPTH SET			
SIZE TOP (N		TOM (MD)	SACKS CEME		EN (MD)	SIZE	ID. SHO		(MD)	ŗ	PACKER SET (MD)
SIZE TOP (N	CORD (Interval,	OM (MD)	SACKS CEME	32.		SIZE	ID, SHO	OT, FRACTURE	(MD)	ŗ	PACKER SET (MD)
PERFORATION REC 71, 2075, 2078, 20	CORD (Interval, 086, 2088, 2	size and nui 2090, 209	SACKS CEMEI mber) 2, 2100, 2104	32. DE	PTH INTE	SIZE	253 b	OT, FRACTURE AMO bl 25# linear ((MD) , CEME DUNT AN	NT SQUEEZE, D KIND OF MAT	PACKER SET (MD) ETC. ERIAL USED
PERFORATION REC 71, 2075, 2078, 20	CORD (Interval, 086, 2088, 2	size and nui 2090, 209	SACKS CEMEI mber) 2, 2100, 2104	32. DE	PTH INTE	SIZE	253 b	OT, FRACTURE	(MD) , CEME DUNT AN	NT SQUEEZE, D KIND OF MAT	PACKER SET (MD) ETC. ERIAL USED
PERFORATION REC 71, 2075, 2078, 209, 2113, 2120, 2	CORD (Interval, 086, 2088, 2	size and nui 2090, 209	SACKS CEMEI mber) 2, 2100, 2104	32. DE	EPTH INTE	ACERVAL (MD)	253 b	OT, FRACTURE AMO bl 25# linear ((MD) , CEME DUNT AN	NT SQUEEZE, D KIND OF MAT	PACKER SET (MD) ETC. ERIAL USED
PERFORATION REC 71, 2075, 2078, 2:09, 2113, 2120, 2	CORD (Interve), 086, 2088, 2 123, 22126,	size and nui 2090, 209 , 2130, 21	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214	32. 00 1 2071-2	EPTH INTE	SIZE	253 b 301,0	OT, FRACTURE AMO bl 25# linear ((MD) , CEME DUNT AN	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED
PERFORATION REC 71, 2075, 2078, 2: 09, 2113, 2120, 2 1. IE FIRST PRODUCTIO	CORD (Interve), 086, 2088, 2 123, 22126,	size and nui 2090, 209 , 2130, 21	SACKS CEME (mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (i	32. Dt 1 2071-2	PTH INTE	ACERVAL (MD) RODUCTION Size and type of puri	253 b 301,0	OT, FRACTURE AMO bl 25# linear (01 SCF N2	(MD) , CEME DUNT ANI gel, 95,	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shull-in)
PERFORATION REC 71, 2075, 2078, 2 09, 2113, 2120, 2	CORD (Interve), 086, 2088, 2 123, 22126,	size and nui 2090, 209 , 2130, 21	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214	32. 00 1 2071-2	EPTH INTE	ACERVAL (MD) RODUCTION Size and type of puri	253 b 301,0	OT, FRACTURE AMO bl 25# linear (01 SCF N2	(MD) , CEME DUNT ANI gel, 95,	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd
PERFORATION REC 71, 2075, 2078, 21 09, 2113, 2120, 2 0. 7E FIRST PRODUCTION 3-97 TE OF TEST	CORD (Interver, 086, 2088, 2123, 22126, 1123, 22126, 1123, 1124)	size and nui 2090, 209 , 2130, 21	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (Flowing CHOKE SIZE	32. DE 1 2071-2	PTH INTE	ACERVAL (MD) RODUCTION size and type of pure	253 b 301,0	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shul-in)
PERFORATION REC 71, 2075, 2078, 20 79, 2113, 2120, 2 75, 2078, 21 76, 2078, 21 77, 2078, 21 78, 2120, 2 78, 2120,	CORD (Interver, 086, 2088, 2123, 22126, 1123, 22126, 1123, 1124)	size and nui 2090, 209 , 2130, 21	SACKS CEME (mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (i	32. Dit 2071-2	PTH INTE	ACERVAL (MD) RODUCTION Size and type of puri	253 b 301,0	DT, FRACTURE AMO bl 25# linear (01 SCF N2	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shull-in)
PERFORATION REC 71, 2075, 2078, 2: 09, 2113, 2120, 2 IE FIRST PRODUCTIO 3-97 TE OF TEST 3-97 W. TUBING PRESS.	CORD (Interve), 086, 2088, 2123, 22126, 00 HOURS TE	PRODUCESTED	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (I Flowing CHOKE SIZE CALCULATED 24-HOUR RATE	32. DE 1 2071-2	PTH INTE	ACERVAL (MD) RODUCTION size and type of pure	253 b 301,0	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shullin) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION REC 71, 2075, 2078, 21 09, 2113, 2120, 2 3. TE FIRST PRODUCTIC B-97 TE OF TEST B-97 TE OF TEST B-97 TE OF STEST B-97 A. DISPOSITION OF GA	CORD (Interve), 086, 2088, 2123, 22126, 00 HOURS TE	size and nui 2090, 209 , 2130, 21 PRODUCESTED	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (I Flowing CHOKE SIZE CALCULATED 24-HOUR RATE	32. DE 1 2071-2	PTH INTE	ACERVAL (MD) RODUCTION size and type of pure	253 b 301,0	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shullin) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION REC 71, 2075, 2078, 2: 09, 2113, 2120, 2 3. TE FIRST PRODUCTIO 8-97 TE OF TEST 8-97 W. TUBING PRESS.	CORD (Intervel. 086, 2088, 2 123, 22126, HOURS TE CASING PI SI 130 AS (Sold, used	size and nui 2090, 209 , 2130, 21 PRODUCESTED	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (I Flowing CHOKE SIZE CALCULATED 24-HOUR RATE	32. DE 1 2071-2	PTH INTE	ACERVAL (MD) RODUCTION size and type of pure	253 b 301,0	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shullin) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION REC 71, 2075, 2078, 2 09, 2113, 2120, 2 3. TE FIRST PRODUCTIO 8-97 TE OF TEST B-97 DW. TUBING PRESS. 130 4. DISPOSITION OF G.	CORD (Intervel. 086, 2088, 2 123, 22126, HOURS TE CASING PI SI 130 AS (Sold, used To be : NOne	PRODUCESTED RESSURE for fuel, vents	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (Flowing CHOKE SIZE CALCULATED 24-HOUR RATE ed, etc.)	32. Di 2071-2 2071-2 PROD'N FÖR TEST PERIOO	PTH INTE	ACERVAL (MD) RODUCTION size and type of put	253 b 301,0 np) GAS	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF Pitot Gauge WATER-BI	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shullin) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION REC 71, 2075, 2078, 2: 09, 2113, 2120, 2 3. TE FIRST PRODUCTIO B-97 TE OF TEST B-97 TW. TUBING PRESS. 130 4. DISPOSITION OF GA	CORD (Intervel. 086, 2088, 2 123, 22126, HOURS TE CASING PI SI 130 AS (Sold, used To be : NOne	PRODUCESTED RESSURE for fuel, vents	SACKS CEME mber) 2, 2100, 2104 35, 2138, 214 CTION METHOD (Flowing CHOKE SIZE CALCULATED 24-HOUR RATE ed, etc.)	32. Di 2071-2 2071-2 PROD'N FÖR TEST PERIOO	PTH INTE	ACERVAL (MD) RODUCTION size and type of put	253 b 301,0 np) GAS	DT, FRACTURE AMC bl 25# linear (01 SCF N2 MCF Pitot Gauge WATER-BI	(MD) CEMEI CHEI CHEI	NT SQUEEZE D KIND OF MAT 000# 20/40 /	PACKER SET (MD) ETC. ERIAL USED Arizon sd (Producing or shullin) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JUN 27 1997

37. SUMMARY OF POROUGH drill-stem, tests, incl recoveries):	uding depth in	how all important terval tested, cu	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	38. GEC	GEOLOGIC MARKERS	
FORMATION	TOP	MOTTOM	DESCRIPTION, CONTENTS, ETC.		ТОР	ğ
	•			NAME	MEAS, DEPTH	TRUE VERT. DEPTH
Ojo Alamo	1306'	1404'	White, cr-gr ss.			
Kirtland	1404'	1839'	Gry sh interbedded w/tight, gry, fine-gr ss.			
Fruitland	1839 '	2066'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Ojo Alamo Kirtland	1306' 1404'	
Pictured Cliffs	2066'	2326'	Bn-Gry, fine grn, tight ss.	Fruitland Pic.Cliffs	1839' 2066'	