

STATE OF NEW MEXICO

DRUG FREE

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

GARY E. JOHNSON GOVERNOR JENNIFER A. SALISBURY CABINET SECRETARY 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 FAX: (505) 334-6170

April 25, 1995

EXPIRATION NOTICE ON PERMIT TO DRILL

Amoco Production Co P O Box 800 Denver Co 80201

RE Logan Gas Com #1 F-33-32N-10w

Gentlemen:

The permit to drill the referenced well has expired. Should you wish to drill this well in the future, you will have to submit a new application.

Sincerely,

Frank T. Chavez District Supervisor

FTC\dj

xc: Well File

Santa Fe

Sobmit to Appropriate

State of New Mexico

Form C-101

District Office State Lease - 6 copies Fee Lease - 5 copies	Energy, Mine	erals and Natural Reso	urces Department		Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88		ONSERVATION P.O.Box 2088	DIVISION	API NO. (assigned by O	•
DISTRICT II		Fe, New Mexico 875	504-2088	30-04	5-29049
P.O. Dinwer DD, Artesia, NM	88210			5. Indicate Type of Leas	TATE FEE X
DISTRICT III 1000 Rio Biazos Rd., Aztec, NA	1 87410			6. State Oil & Gas Leas	
APPLICATION FO	OR PERMIT TO I	ORILL, DEEPEN, OR	PLUG BACK		
la. Type of Work:				7. Lease Name or Unit	Agreement Name
DRILL [X]	RE-ENTER [DEEPEN [PLUG BACK	Logan Gas Com	
b. Type of Well: OIL WELL GAS WELL OT		SINGLE	Add Tips c		
OIL WELL X OT	HER	ZONE	MULTIPLE X	13500 1	140/10/320)
2. Name of Operator		Attention:		8. Well No.	
Amoco Production Company	778	Julie L. Acevedo	0		#1
Address of Operator P.O. Box 800 Denver	0.1			9. Pool name or Wildcat	
P.O. Box 800 Denver 4. Well Location	Colorado	80201	Collina	Pict. Cliffs/B	asin Dakota 7/59
· · · ·	1470 Feet Fro	n The North	Line and 14	160 Feet From The	West
			Line and	Feet From The	Line Line
Section 33	Township	32N Ran	gc 10W N	NMPM San J	uan County
					County
		10. Proposed Deptl		Formation B asin	12. Rotary or C.T.
13. Elevations (Show whether DF)	RT GR etc.) 14	. Kind & Status Plug, Bond		t.Cliffs/Dakota	Rotary
6009'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. Kind & Status Ping, Bond	I 15. Drilling Contracto	or 16. Approx	x. Date Work will start
17.			Azicc		1/10/94
	PRO	POSED CASING AN	ND CEMENT PROGE	RAM	
SIZE OF HOLE SIZ	ZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13-3/8"	61#	400'	625 cf Cl B W/2%	Cement to surface
12-1/4"	9-5/8"	36#	3069'	2118 cf Cl B	Cement to surface
8-3/4"	7"	23#	7130'	1038 cf CL B (Cement to surface
6 1/4"	4 1/2"	11.6# N-80	6930'-7590' Liner	1/3 cf CL G	
			WITH !	DECE	
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	, /	CUME PO			14000
This Approva	4	WHI.		DEC1	7 1993
Expires 12 - 29	-94 /	•		011 001	K. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
And Will Not E	3 e			OIL CO	
Extended				\ DIS	• **
_					
IN ABOVE SPACE DESCRIBE I PRODUCTIVE ZONE. GIVE BLOWOUT I	REVENTER PROGRAM, I	PANT.		ON PRESENT PRODUCTIVE ZO	NE AND PROPOSED NEW
I hereby certify that the information	on above is true and c	omplete to the best of my k	nowledge and belief.		
SIGNATURE Juli	ando		Sr. Staff	Assistant	12-16-1993
	E 1 A			D	ATE12-10-1993
TYPE OR PRINT NAME	ulie L. Acevedo			31	TERMONE NO. (202) B20 COO

(This space for State Use)

12-29-93

THI DEPUTY OIL & GAS INSPECTOR, DIST. #3

DEC 2 9 1993

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

POFESSIONAL

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe. New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

P.O. Bux 1980, Hobbs, NM 88240

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. AMOCO PRODUCTION COMPANY Logan Gas Com #1 County Township Unit Letter Section SAN JUAN 10 WEST 32 NORTH **NMPM** Actual Footage Location of Well: WEST line feet from the NORTH line and 1470 feet from the Dedicated Acreage: Ground level Elev. Producing Formation Pictured Cliffs Pictured Cliffs W/4 160 Acres 6009 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation Yes If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Name Julie <u>L. Acevedo</u> Position 1460 <u>Sr. Staff Assistant</u> Company Amoco Production Company 12/16/93 E CONFIDENTIAL SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 1993 November PVEYOR Gart Certificity 7016 7016

2640

1960 2310

1320

1650

2000

1500

1000

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator					Lease		·		Well No.
AMOCO	PR	ODUCTIO	N COM	PANY	Loga	n Gas Com			#1
Unit Letter	Secti		Township		Range			County	
F	:	33	32	NORTH	10	WEST	NMPM		SAN JUAN
Actual Footage Loc-	ation o	Well:							
1470	feet f	rom the	1	NORTH line and		1460	feet from	the	WEST line
Ground level Elev.		Producing	Formation		Pool				Dedicated Acreage:
6009		Basin Da	akota		Basin	Dakota			320 Acres
1. Outline	e the ac	reage dedicated	to the subje	t well by colored pen	icil or hachure t	marks on the plat bei	ow.		
2. If more	e than o	one lease is dedi	cated to the	well, outline each and	identify the ow	mership thereof (both	h as to worki	ng interest	and royalty).
				hip is dedicated to the	well, have the	interest of all owner	s been conso	lidated by o	communitization,
unitiza		rce-pooling, etc.		to Novell Acce					
If answer	Yes	list the owners	No and tract de	If answer is "yes" typ scriptions which have	e or consolidati actually been c	onsolidated. (Use re	verse side of		
this form	if neco	essary.							
No allow	able wi	ll be assigned to	the well un	il all interests have be	en consolidated	(by communitization	on, unitizatio	a, forced-po	oling, or otherwise)
or until a	non-st	indard unit, elim	rinating such	interest, has been app	proved by the D	ivision.			
						<u> </u>		OPER	ATOR CERTIFICATION
						! !			eby certify that the information
] ,[} }			erein in true and complete to the nowledge and belief.
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		!				!		rinted Nam	e
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7760						!		Sr. Sta	off Assistant
		1				ļ		ompany	
		1					<u> </u>	moco I	roduction Company
							1)ate 12/1	_6/93
						11/12		1.2/ 1	.0/ 33
				33		JENIIAL		SURV	EYOR CERTIFICATION
		i			301111	ID C			ertify that the well location show
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		i				Ì		correct to	the best of my knowledge a
		i				Ì		belief.	
		1				İ	-	Date Surve	yed
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PRELIMINARY COPY

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

File: C:\20005f46.wk3

Revision Date:

12/07/93

Lease:

Well No.

Field: Basin Dakota

County: San Juan, New Mexico Formerly Reference Well #20005 Location: 1470' FNL x 1460' FWL, Sec. 33, T32N, R10W

OBJECTIVE: Evaluate and develop Pictured Cliff, Mesa Verde and Dakota reserves.

	OF DRILLING		APPROXIMATE DEPTI	IS OF GEOLOG	ICAL MARKER	
TYPE OF TOOLS	DEPTH OF D	RILLING	6,009	9 Est. GL Elev.		st. KB Elev.
Rotary	0 – TD		Marker	Depth (ft)	SS Elev. (ft)	
LOG PROG	SRAM		Kirtland	2,009	4,016	
Туре	Depth Interval		Fruitland *	2,383	3,642	
HRI-DIL-CAL-NGT-GR	SFC to TD	Mud Hole	Pictured Cliffs *	2,811	3,214	
FDC-CNL	SFC to TD	Mud Hole	Lewis Shale*	2,919	3,106	
MICROLOG	TD + 10001	Mud Hole	Cliff House *	4,645	1,380	
MRI	*ICP to Top F	ruitland (6" tool)	Menefee	4,725	1,300	
			Point Lookout *	5,075	950	
Epithermal Neutron/			Mancos Shale	5,475	550	
Spectral Density/Temp Log	PCP - ICP	Air Hole	Greenhorn	7,130	(1,105)	
DIL-Cal-GR	PCP - ICP	Air Hole	Dakota #	7,260		
REMARKS:			TOTAL DEPTH:	7,590	(1,565)	
(409) 836 - 2955 (Numar, Bre	nham District).		# Probable completion i OJO ALAMO IS NOT I DRILL CUTTING SA	RECOGNIZABLE	* Possible pay. E. DRILLING	3 TIME
(409) 836 - 2955 (Numar, Bre	,		OJO ALAMO IS NOT I	RECOGNIZABLE	ī. <u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '</u>	3 TIME DEPTH
	,	IVAL, ETC	OJO ALAMO IS NOT I	RECOGNIZABLE AMPLES DEPTH	DRILLING	
SPECIAL	TESTS	IVAL, ETC	OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY	RECOGNIZABLE AMPLES DEPTH PCP – TD	DRILLING FREQUENCY Geolograph	DEPTH
SPECIAL TYPE None	TESTS	IVAL, ETC	OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY 10' Remarks: Mudlogging Program:	RECOGNIZABLE AMPLES DEPTH PCP – TD	DRILLING FREQUENCY Geolograph	DEPTH
SPECIAL TYPE None Remarks:	TESTS	VAL, ETC Weight, #	OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY 10' Remarks: Mudlogging Program: Full two man mudlogging	RECOGNIZABLE AMPLES DEPTH PCP - TD services for PCP	DRILLING FREQUENCY Geolograph	DEPTH
SPECIAL TYPE None Remarks: MUD PROGRAM:	TESTS DEPTH INTER		OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY 10' Remarks: Mudlogging Program: Full two man mudlogging	RECOGNIZABLE AMPLES DEPTH PCP - TD	E. DRILLING FREQUENCY Geolograph to TD. W/L, cc's/30 min	DEPTH 0 – TD
SPECIAL TYPE None Remarks: MUD PROGRAM: Approx Interval	TESTS DEPTH INTER	Weight, #	OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY 10' Remarks: Mudlogging Program: Full two man mudlogging /gal Vis, sec/qt Sufficient to c	RECOGNIZABLE AMPLES DEPTH PCP - TD	E. DRILLING FREQUENCY Geolograph to TD.	DEPTH 0 – TD
SPECIAL TYPE None Remarks: MUD PROGRAM: Approx Interval 0 — SCP	TESTS DEPTH INTER Type Mud SPUD	Weight, #	OJO ALAMO IS NOT I DRILL CUTTING SA FREQUENCY 10' Remarks: Mudlogging Program: Full two man mudlogging /gal Vis, sec/qt Sufficient to c	RECOGNIZABLE AMPLES DEPTH PCP - TD	E. DRILLING FREQUENCY Geolograph to TD. W/L, cc's/30 min	DEPTH 0 – TD

REMARKS:

^{***}Possible high porosity & permeability in lower Dakota, exercise good well control procedures.

CASING PROGR	AM:			
Casing String	Estimated Depth (ft)	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface (SCP)	400	13-3/8"	17-1/2*	1,2
Intermediate (ICP)	3,069	9-5/8"	12-1/4"	1,2,3
Protective (PCP)	7,130	7"	8-3/4"	2,4
Production (TD)	7,590	4-1/2"	6-1/4"	2,5
Remarks: 1. Circulate ceme	nt to surface			CUNFIDENTIAL
	ies Drilling Team to design	coment programs		1.111111
3. Casing set 150		cement programs.		<i>ν</i> ο"

Remarks:

- 1. Circulate cement to surface.
- 2. Southern Rockies Drilling Team to design cement programs.
- 3. Casing set 150' into Lewis Shale.
- 4. Casing set at top of Greenhorn, or at discretion of Amoco Geologist.
- 5. Casing set 50' into Morrison.
 GENERAL REMARKS:

Southern Rockies Dakota Engineer to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY:	APPROVED:	APPROVED:
F. Seidel/A. Logan		
Form 46 7-84bw	For Production Dept	For Exploration Dept

^{*} Use minimum mud weight to control formation pressures.

^{**} Water may be encountered in Cliff House, Offset Point Lookout production, may have possible lost circulation.

Formerly Reference Well #20005

Amoco proposes to drill the well to further develop the Dakota reservior.

The well will be drilled to the surface casing point using native mud.

The well will then be drilled to the intermediate casing point with a non-dispersed mud system.

The protective hole will be drilled with air to 20' above the top of the Dakotawere protective casing will be set.

The production hole will be drilled with a non-dispersed mud system to TD.

Surface Casing:

Quanity (ft) Size (in) Wt. (ppf) Description

400

61 J-55, ST&C

Cement program 625 cf Class B, 2% CaCl2 + 0.25 #/sx Flocele.

1.18 cf/sx, 15.6 ppg

Hole size 17.5", 125% excess, circulate cement to surface.

Intermediate Casing:

Quanity (ft) Size (in)

Wt. (ppf) Description

Cement program

3069

9.625

36 J-55, LT&C

* 2 stage

* 1st Stg Tail:

542 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite,

+ 0.25 #/sx Flocele. 1.29 cf/sx, 15.11 ppg.

Top of Fruitland Coal

Stage tool depth

2283 ft, 100' above top of Fruitland Coal.

* 2nd Stg Lead:

1444 cf Class B, 65:35:6, 7#/sx salt, 0.375 #/sx Flocele, 5% Calseal,

2% Microbond. 1.8 cf/sx, 13.0 ppg.

* 2nd Stg Tail:

129 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite.

+ 0.25 #/sx Flocele. 1.29 cf/sx, 15.6 ppg.

Hole size 12.25", 120% excess, circulate cement to surface.

Protective Casing:

Quanity (ft) 7130

Size (in)

Wt. (ppf) Description 23 J-55, LT&C Cement program

* 2 stage

* 1st Stg Tail:

718 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413, 0.1% SCR 100. 5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele.

1.35 cf/sx, 13.4 ppg.

Top Picture Cliffs

2811 ft Est TCMT

2711

Top of Mesa Verde Stage tool depth

4645 ft

4145 ft, 500' above top of Mesa Verde.

* 2nd Stg Tail:

318 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413,

5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele.

1.35 cf/sx, 13.4 ppg.

Hole size 8.75", 60% excess, circulate cement to surface.

4.5

Production Liner:

Quanity (ft)

Size (in) 660

Wt. (ppf) Description 11.6 N-80, LT&C Cement program * single stage

* 1st Stg Tail:

113 cf Class G, 35% SSA 1, 1.0% CFR 3, 0.5% Halad 24,

0.25 #/sx Flocele. 1.56 cf/sx, 15.6 ppg.

Estimated Total Depth

7590 ft

Estimated Top of Liner

6930 ft 200' overlap into intermediate casing.

Hole size 6.25", 60% excess, tie cement back.

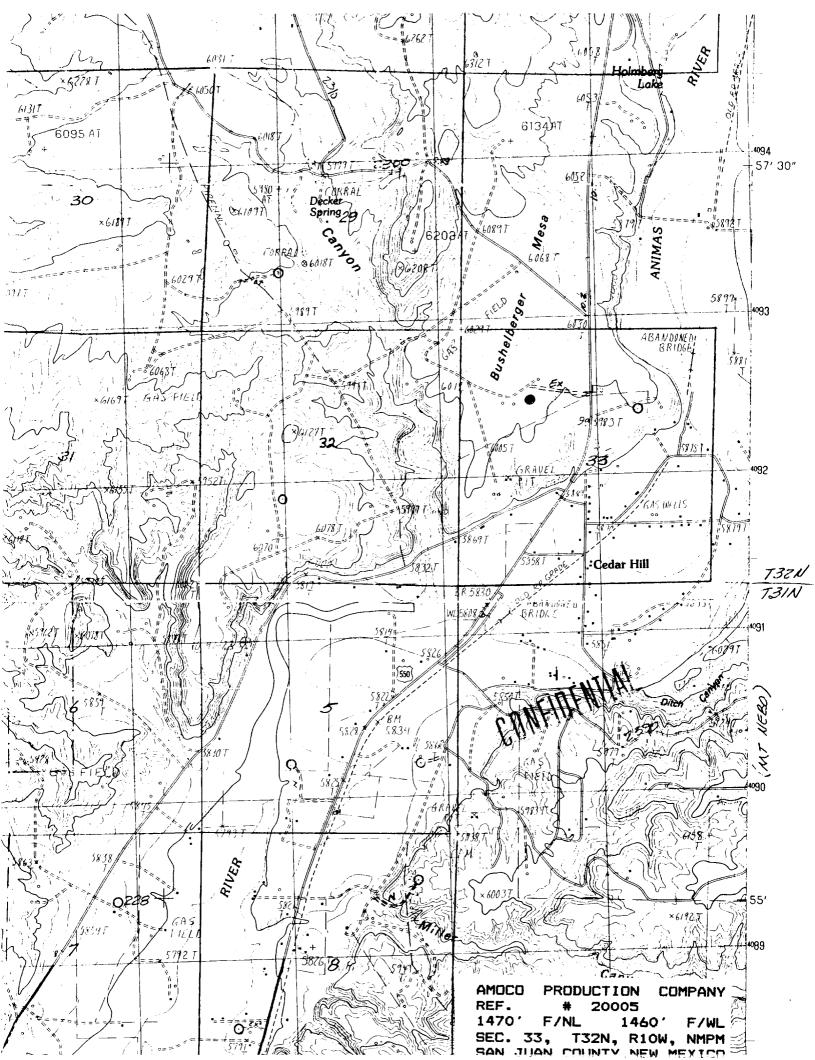
BY: FRANK SEIDEL/BARRY PEISER

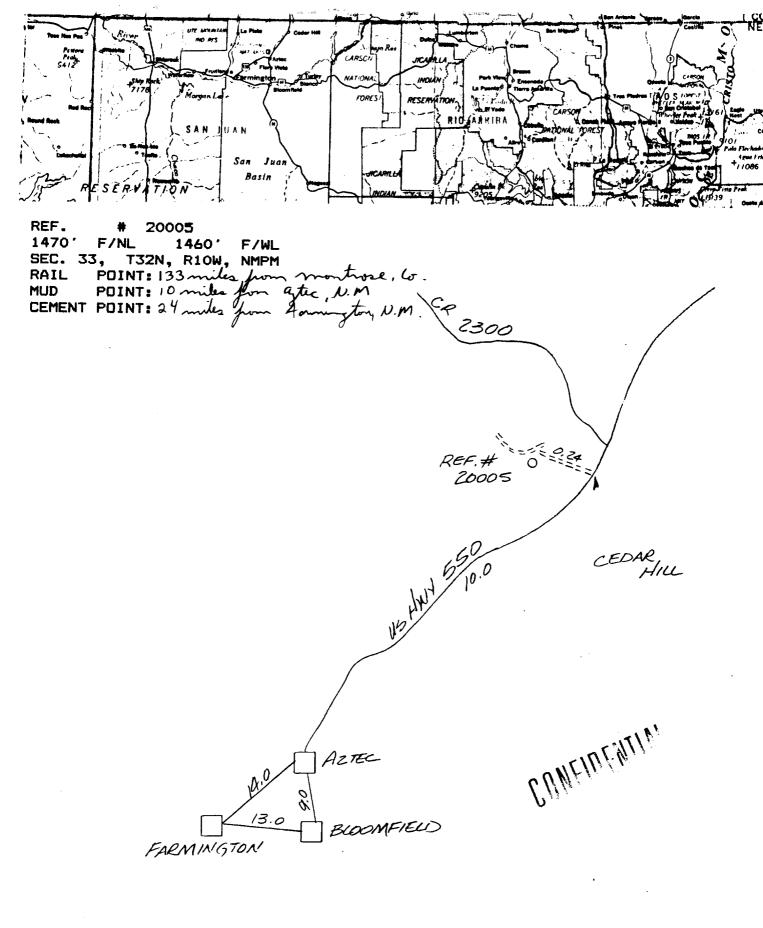
12/07/93

= input depths from form 46 in shaded areas to calculate cement volumes.

H:\GROUP\SRBU\NMEXDK\CMTFORM.WK3

CUNFIDENTIAL





F. l∝. 1470/N; 1	Cu. ft.	Elev. 6009 Spd. Cu. ft.	сопр.			Cu. ft.			
ng S@ Perf.	WSx. Int	Sx. Pr Prod. SI		w.		_Sx. T		-@	₹ Gas
		710d. 3							R A
BO/D		Grav		1st Del.	Gas				N 5
	T	PSI After Days GOR	T	1st Del.	Oil				
TOPS	NITD X	Well Log	TEST DATA	<u> </u>					
o Alamo	C-103	Plat X	Schd.	PC	Q	PW	PD	D	Ref.No
rtland	C-104	Electric Log							
uitland		C-122							
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lanco PC Co. F. loc 1470/N:	p 1460/W	10W U F Oper. Amoco Pro 30-045-29049	1:	2-17 - 9	3			No.	1
F. Loc. 1470/N;	1460/W	30-045-29049	Corr	2-17-9	3 t w	D	F		
F. Loc. 1470/N; using S@ sg.Perf.	1460/WCu. ftSx. Int	30-045-29049	Com t. Pr@_ Stim.	2-17-9	3	D	F	B	
F. Loc. 1470/N: osing S@ sg.Perf.	1460/W Cu.ft	30-045-29049 _Elev. 6009	Com t. Pr@_ Stim.	2-17-9	3 t w	D	F	B	Ţ Gas
F. Loc. 1470/N: osing S@ sg.Perf.	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470 / N; asing S@ sg.Perf. BO/D MCF/I TOPS Ojo Alamo	1460/W Cu.ft	30-045-29049 _Elev. 6009	Com t. Pr@_ Stim.	2-17-9	3	D	F	B	T Gas
F. Loc. 1470/N; posing S@ sg. Perf. BO/D MCF/I TOPS Ojo Alamo Kirtland	1460/W Cu. ft. Sx. Int. D After Hrs. SICP	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	Ţ Gas
F. Loc. 1470 / N : Dising S@ Lig. Perf. BO/D MCF/I TOPS Ojo Alamo Kirtland Fruitland	Cu.ft. C	30-045-29049	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N; osing S. @ sg.Perf. BO/D MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: Dising S@ BO/D MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra	Cu.ft. C	30-045-29049	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N; psing S@ bg.Perf. BO/D _MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: psing S@ pg.Perf. BO/D MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470 / N : Dising S@ BO/D MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee Point Lookout	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N; psing S. @ BO/D P. MCF/I TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee Point Lookout Mancos	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: Dising S@ BO/D MCF/I TOPS Ojo Alamo Kirtland Pictured Cliffs Chacra Cliff House Menefee Point Lookout Mancos Gallup	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: psing S BO/D ACF/II TOPS Ojo Alamo Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee Point Lookout Mancos Gallup Greenhorn	1460/W	30-045-29049 Elev. 6009	Com t. Pr@_ Stim.	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: psing S@_ g.Perf. BO/D MCF/I TOPS Ojo Alamo Kirtland Pictured Cliffs Chacra Cliff House Menefee Point Lookout Mancos Gallup Greenhorn Dakota	1460/W	30-045-29049 Elev. 6009	Com t. Pr	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas
F. Loc. 1470/N: osing S@_ sg.Perf. PBO/D MCF/I TOPS Ojo Alarno Kirtland Fruitland Pictured Cliffs Chacra Cliff House Menefee Point Lookout Mancos Gallup Greenhorn	1460/W	30-045-29049 Elev. 6009	Com t. Pr	2-17-9	WT	DCu.ftSx. T.	F	B	T Gas