Prospect Name:	Pajarito					
Well Name:	Navajo T	ract 20 - #22-31				
Location:	1980' FN	L 1980' FWL - Sec	tion 31, 1	Г 29 N - F	R 17 W	
	San Juan	County, New Mexi	со			
Well Type:	Wildcat	Development	Field Ext	tension		Other
Objective Zones:	Pennsylva	nian Paradox Form	ation			
Projected Depth:	7600'	Elevations:	5196'	GL _	5210'	KB
Contractor:	Loffland	Bros. Company				
Spud: 2:30 p.m. 2	1/19/77 Com	npleted:		_ Status:		

DATE	DEPTH			DETAILS			
1/04/78		COMPL FTP(psig) 270	ETION REPORT Oil(bbls.)	Water(bbls.) 950	Choke size 21/64"	24	Hrs. SI
1/05/78 1/06/78 1/07/78		250 245 265	16.7 20 11	913 1079 908	21/64" 21/64" 21/64"		15 min. TP = 425 psig build-up)
1/08/78 1/09/78 1/10/78 1/11/78 1/12/78		265 265 260 260 275	23.4 20 25 22 22 25	1000 920 922 910 884 1050	21/64" 21/64" 21/64" 21/64" 21/64" 21/64"	25 24 - 24 23 - 23 27 1/2	σ <b>α</b> ττα - αρ <i>γ</i>
1/13/78 1/14/78 1/15/78 1/16/78 1/17/78 ,1/18/78		270 265 270 275 275 275	23.3 26.7 28.39 25 28.39	827 930 916 992 946	21/64" 21/64" 21/64" 21/64" 21/64"	21 1/2 24 23 25 24	
1/30/78		Shut well evaluation	n. flow line a mp and recon	a.m. 1/18/78 for nd related equ ditioned SWD p	ipment. Ins	talled large	er engine

12/9/77   Gain in tank since acid job. Opened well to tank thru 18/64" choke. Flowed well to test tank 12/8/77 a.m. for two hours. Produced 90 bbls. total fluid. Wellhead sample oil cut had increased to 5%. Shut well in. Released and moved out completion rig. Prep to move in portable test separator and second test tank this a.m. to begin extended flow test.     Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator.     Moved in and started flow testing well at 2:00 p.m. 12/28/77. SITP = 490 psig. Opened thru test separator on 20/64" choke setting.     FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI   325		Prospect Name:	Pajarit	.0						
Location:   San Juan County, New Mexico   Well Type:   Wildcat   Development   Sield Extension   Other	,	Well Name:	Navajo	Navajo Tract 20 - #22-31						
Mell Type:			10001 5	1000 FM 1000 FM Section 31 T 29 N - R 1/ W						
Objective Zones:		<u></u>		in County, Nev	v Mexico					
Objective Zones:		Well Type:	Wildcat	Develo	pment <u>Fiel</u>	d Extension	<u> </u>	Other_		
Projected Depth: 7600'   Elevations: 5196'   GL 5210'   KB		Objective Zone	s: Pennsy	lvanian Parado	ox Formation	1		- <del></del>		
Contractor:   Loffland Bros. Company		Projected Dept	h:7600'	Elevation	s: <u>5196'</u>		GL <u>5210'</u>	K8		
DEFAILS		Contractor:	Loffla	nd Bros. Comp	any					
18st 2 1/2 hours. Established fluid entry rate of 200' (1.16 bbls.)		Spud:2:30 p.m.	4/19/77 Co	mpleted:	•	Stat	us:			
last 2 1/2 hours. Established fluid entry rate of 200' (1.16 bbls.) each 20 minutes. Shut well in 0 5:00 p.m.   Total oil accumulated in test tank since perforating = 5:7" (112 bbls.) SITP = 825 psig 0 8:00 a.m. Blew down pressure and started running swab. Could not get below 3600' due to obstruction. Shut down for remainder of weekend. Shut down. Prespective and started running swab. Could not get below 3600' due to obstruction. Shut down for remainder of weekend. Shut down. Shut down for remainder of weekend. Shut down gas pressure. Released pkr. SITP 12/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 12/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 12/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 2/5/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 2/5/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 2/5/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 2/5/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. SITP 2/5/5/77 a.m. and part started kicking. Shut down to control well and remove gas from column. SD00. Pressure stop. And pkr. Spotted 750 gals. 15% HCl to pkr. Set pkr. at 7128. Pressured they. and pkr. Spotted 750 gals. 15% HCl to pkr. Set pkr. at 7128. Pressured they. to 2100 psig. Pressure increased to 2250 psig and acid hit perfs. Treated 0 il00 psig. Do complete 11:35 a.m. 12/7/77. Shut in 30 min. total. 30 min = 1100 psig. 96 3/4 to 1 BM. ISDP = 1100 psig. Io min. total. 30 min = 1100 psig. Pilushed acid thur perfs w/42 bbls. produced oil. Total load 18 bbls. acid plus 42 bbls. oil flush. Opened thru 18/64" choke to test tank. Flowed as follows:    Time										
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Could not get below 3600' due to obstruction. Shut down for remainder of weekend. Shut down. Prep to pull tbg. and pkr. SITP 12/5/77 a.m. = 750 psig. Blew down gas pressure. Released pkr. and pulled tbg. and pkr. Removed debris left in tbg. by swabbing unit. Started running tbg. and pkr. With 30 stands left to run, well started kicking. Shut down to control well and remove gas from column. SDON. Prep to resume running tbg. this a.m. and acidize perforted intervals. Ran tbg. and pkr. Spotted 750 gals. 15% HCl to pkr. Set pkr. at 7128. Pressured tbg. and pkr. did not hold. Reversed out acid. Pulled tbg. and pkr. Changed pkr. Started running back tbg. and pkr. SDON. Ran tbg. and pkr. Spotted 750 gals. 15% HCl to pkr. Set pkr. at 7128. Pressured tbg. to 2100 psig. Pressure increased to 2250 psig and acid hit perfs. Treated el 1100 psig. Job complete 11:35 a.m. 12/1/77. Shut in 30 min. total. 30 min = 1100 psig. Flushed acid thru perfs w/42 bbls. produced oil. Total load 18 bbls. acid plus 42 bbls. oil flush. Opened thru 18/64" choke to test tank. Flowed as follows:  Time FTP (psig) Fluid  12:05 p.m. 450 38 bbls. flush oil 2:05 p.m. 300 33 bbls. salt water w/show oil (2:05 p.m. 300 33 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/show oil (3:05 p.m. 300 35 bbls. salt water w/	12/3	/77	Total oil ac	cumulated in	test tank s	ince perfor	ating = 5'7" (11 and started rur	l2 bbls.) nning swab.		
Shut down.   Prep to pull tbg. and pkr.   SITP 12/5/77 a.m. = 750 psig.   Slew down gas pressure.   Released pkr.   SITP 12/5/77 a.m. = 750 psig.   Slew down gas pressure.   Released pkr.   SITP 12/5/77 a.m. = 750 psig.   Slew down gas pressure.   Released pkr.   SITP 12/5/77 a.m. = 750 psig.   Slew down gas pressure.   Released pkr.   SITP 12/5/77   SITP 12/5/77 a.m. = 750 psig.   Slew down gas pressure.   Released pkr.   SITP 12/5/77   Shut down to control well and remove gas from column.   SDON.   Prept or resumer unning tbg. this a.m. and acidize perforated intervals.   Ran tbg. and pkr.   Spotted 750 gals.   15% HCl to pkr.   Set pkr. at 7128.   Pressured tbg. and pkr.   Started running back tbg.   and pkr.   SDON.   Ran tbg.   and pkr.   Spotted 750 gals.   15% HCl to pkr.   Set pkr.   at 7128.   Pressured tbg.   to 2100 psig.   Pressure increased to 2250 psig and acid   hit perfs.   Treated @ 1100 psig.   Pressure increased to 2250 psig and acid   hit perfs.   Treated @ 1100 psig.   Pressure increased to 2250 psig and acid   hit perfs.   Treated @ 1100 psig.   Dressure increased to 2250 psig and acid   hit perfs.   Treated @ 1100 psig.   Pressure and   Sale.   Sa			Could not ge	t below 3600'	due to obs	truction.	Shut down for re	emainder		
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And pkr. Changed pkr. Started running back tbg. and pkr. SDON. Ran tbg. and pkr. Spotted 750 gals. 15% HCl to pkr. Set pkr. at 7128. Pressured tbg. to 2100 psig. Pressure increased to 2250 psig and acid hit perfs. Treated @ 1100 psig. Db complete 11:35 a.m. 12/7/77. Shut in 30 min. = 1100 psig. Db complete 11:35 a.m. 12/7/77. Shut in 30 min. total. 30 min = 1100 psig. Flushed acid thru perfs w/42 bbls. produced oil. Total load 18 bbls. acid plus 42 bbls. oil flush. Opened thru 18/64" choke to test tank. Flowed as follows:    Time	12/7	/77	Ran tbg. and	l pkr. Spotte	d 750 gals	. 15% HCI t	o pkr. Set pkr.	. at /128.		
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Time			w/42 bbls. p	roduced oil.	Total load	18 bbls. a	acid plus 42 bbls	s. oil		
12:05 p.m.   Opened thru 18/64" choke   1:05 p.m.   450   38 bbls. flush oil   2:05 p.m.   300   23 bbls. flush oil   2:05 p.m.   300   38 bbls. acid water   8 salt water   4:05 p.m.   300   38 bbls. acid water   8 salt water   4:05 p.m.   300   35 bbls. salt water w/show oil   (est. 1% oil)   5:05 p.m.   300   50 bbls. salt water w/show oil   (est. 1% oil)   (e						test tank.		ows:		
1:05 p.m.						" choke	11414			
3:05 p.m.   300   38 bbls. acid water & salt water   4:05 p.m.   300   35 bbls. salt water w/show oil   (est. 1% oil)   5:05 p.m.   300   50 bbls. salt water w/show oil   (est. 1% oil)   184 bbls. total			1:05 p.m.		150	38 bb1s		rid water		
(est. 1% oil)  5:05 p.m.  300  50 bbls. salt water w/show oil (est. 1% oil).  184 bbls. total  SION  8:00 a.m. SITP = 450 psig. Drained water from tank and gauged 5 bbls. oil gain in tank since acid job. Opened well to tank thru 18/64" choke.  Flowed well to test tank 12/8/77 a.m. for two hours. Produced 90 bbls. total fluid. Wellhead sample oil cut had increased to 5%. Shut well in. Released and moved out completion rig. Prep to move in portable test separator and second test tank this a.m. to begin extended flow test.  Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator.  Moved in and started flow testing well at 2:00 p.m. 12/28/77. SITP = 490 psig. Opened thru test separator on 20/64" choke setting.  FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI  12/29/77  12/30/77  325 10 579 20/64" 18  12/31/77  275 15 883 22/64" 25  1/01/78  270 6 1046 22/64" 24  1/02/78  297 8½ 988 21/64" 22			3:05 p.m.	3	300	38 bbls	s. acid water & :	salt water		
SION							(est. 1% oil)			
SION   8:00 a.m. SITP = 450 psig. Drained water from tank and gauged 5 bbls. oil gain in tank since acid job. Opened well to tank thru 18/64" choke. Flowed well to test tank 12/8/77 a.m. for two hours. Produced 90 bbls. total fluid. Wellhead sample oil cut had increased to 5%. Shut well in. Released and moved out completion rig. Prep to move in portable test separator and second test tank this a.m. to begin extended flow test.    Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator. Moved in and started flow testing well at 2:00 p.m. 12/28/77. SITP = 490 psig. Opened thru test separator on 20/64" choke setting.    FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI 325 3½ 250 est. 20/64" 18 20/64" 23 20/64" 23 275 15 883 22/64" 25 276 4" 25 270 6 1046 22/64" 25 270 6 1046 22/64" 25 270 6 1046 22/64" 24 297 8½ 988 21/64" 22 276 276 276 276 276 276 276 276 276			5:05 p.m.	<b>`</b>	300		(est. 1% oil),			
12/9/77   Gain in tank since acid job. Opened well to tank thru 18/64" choke. Flowed well to test tank 12/8/77 a.m. for two hours. Produced 90 bbls. total fluid. Wellhead sample oil cut had increased to 5%. Shut well in. Released and moved out completion rig. Prep to move in portable test separator and second test tank this a.m. to begin extended flow test.     Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator.     Moved in and started flow testing well at 2:00 p.m. 12/28/77. SITP = 490 psig. Opened thru test separator on 20/64" choke setting.     FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI   325			SION					E bblo oil		
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Released and moved out completion rig. Prep to move in portable test separator and second test tank this a.m. to begin extended flow test.  Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator.  Moved in and started flow testing well at 2:00 p.m. 12/28/77. SITP = 490 psig. Opened thru test separator on 20/64" choke setting.  FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI 250 est. 20/64" 18 18 250 est. 20/64" 23 250 est. 20/64" 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	12/9	9/77	total fluid	. Wellhead s	ample oil cu	ut had incr	eased to 5%. Sh	ut well in.		
Located and moved in two different test separators. Both units were unserviceable. Waited for Olman & Heath to build test separator. Moved in and started flow testing well at 2:00 p.m. $12/28/77$ . SITP = 490 psig. Opened thru test separator on $20/64$ " choke setting. FTP(psig) Oil(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI $325$ $34$ $250$ est. $20/64$ " $18$ $325$ $10$ $579$ $20/64$ " $23$ $20/64$ " $23$ $27$ $27$ $27$ $27$ $27$ $27$ $27$ $27$	•		Released and	d moved out c	ompletion ri	ig. Prep t	o move in portab	le test		
Moved in and started flow testing well at 2:90 p.m. 12/26/77. STIF = 490 psig. Opened thru test separator on 20/64" choke setting.    FTP(psig) 0il(bbls.) Water(bbls.) Choke size Hrs.Prod. Hrs. SI   325   334   250 est.   20/64"   18   18   12/31/77   325   10   579   20/64"   23   23   22/64"   25   25   15   883   22/64"   25   270   6   1046   22/64"   24   297   84   988   21/64"   22   21/64"   22   21/64"   21/64"   22   21/64"   21			Located and	moved in two	different	test separa	tors. Both unit	s were		
12/29/77     12/30/77   1/01/78   1/02/78			Moyad in an	d started flo	w testing W	eli at 2:50	) p.m. 12/20///.	2111 -		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			490 psig.	Opened thru t	est separati	or on 20/64 s.) Choke	size Hrs.Prod.			
12/30/7/ 12/31/77 275 15 883 22/64" 25 1/01/78 270 6 1046 22/64" 24 1/02/78 297 8½ 988 21/64" 22	-	*	325	31/4	250 est.	20/64	." 18 !" 23			
1/01/78 297 814 988 21/64" 22	12/	31/77	275	15	883	22/64	." 25			
	1/					21/64	l" 22			

<pre>Prospe</pre>	ect Name:	Pajarito
Wall	Name:	Navajo Tract 20 - #22-31
tocat	ion:	1980' FNL 1980' FWL Section 31, T29 N - R 17 W
		San Juan County, New Mexico
Well	Type:	Wildcat Development _ Field Extension Other
Ohiec	tive Zones:	Pennsylvanian Paradox Formation
Proje	ected Depth:	7600' Elevations: <u>5196'</u> GL <u>5210'</u> KB
Contr	ractor:l	Loffland Bros. Company
Spud	<del></del>	4/19/77 Completed:Status:
ATE	DEPTH	DETAILS
1/18/77	·	Discoulum completion rig and started nulling tubing. SDON.
1/19/77		Finished pulling tbg. Perforated in casing 4 squeeze noies /212-13.
11/20/77		Ran tubing and stinger. Engaged and stung into retainer. SITP = 250 psig
1		100 sx Class B cement + 0.6% Halad 9 + 18% salt by water weight. Sturry
		Formation squeezed - max. pressure = 3/00 psig. Reversed out 13 bbis.
11/21/77		Ran 226 jts. 2 7/8" tbg. and Baker Lok Set pkr. Set pkr @ 7128. Swabbed FL down to 1500'±. Rigged up Schlumberger and perforated thru tbg. the
	1	intervals 7189-91 and 7197-7203 w/respect to CNL/FDC/GR/Cal dated 5/16/77. Ran swab and found fluid level @ 1200'. Swabbed from 3200' on first run.
	ļ	Ran swab and found fluid level @ 1800'. Swabbed from 3800'. SDFN. ONSITP = 1300 psig. Opened to tank thru 8/64" choke and blew gas until
11/22/77		fluid (oil) reached surface in 23 minutes. FTP with oil to surface
		reached 425-460 psig. At 12:50 p.m. FTP = 390 psig. Shut in to change flowline. At 1:10 p.m. SITP = 460 psig. Reopened thru 8/64" choke with
		380 - 390 psig FTP. Producing oil and no water. At 2:00 p.m. FTP = 340 psig. At 2:20 p.m. FTP = 275 psig. Opened thru 28/64" choke for
Ì		10 min. Flow increased and FTP decreased to 140 psig. Reset choke to 10/64" at 2:20 p.m. At 2:40 p.m. FTP = 160 psig. At 3:00 p.m. FTP =
		175 psig. At 4:00 p.m. FTP = 200 psig. Producing steady stream of oil at average rate of 2.5± BOPH. Left flowing to test tank overnight.
11/23/77		FTP this a.m. = 280 psig thru 10/64" choke. Produced 14 bbls. oil and no water since 4:00 p.m. 4/22/77. Opened choke to 14/64" @ 9:30 a.m.
11/24/77		TP = 380 psig. Choke frozen. Flowed 14 bbls. oil and no water during last 24 hour period. (Hours produced prior to choke freezing unknown.)
11/25/77		Thawed choke and reset to 18/64". FTP = 25 psig thru 18/64" choke. Produced 10 bbls. oil and 11 bbls.
,		water last 24 hours. Moved in and rigged up swabbing unit. Started running swab @ 2:30 p.m. At 4:30 p.m. swabbing from 7100' with FL
		returning to 5900' between runs. Oil cut varies from approximately 10% to 15%. Sinker bar broke above swab cups. Left two swab cups, spacer
		ring, and one foot of aluminum sinker bar in hole. Released swabbing unit and SI well @ 4:30 p.m.
11/26/77		SITP @ 9:00 a.m. = 980 psig.
11/27/77 11/28/77		SITP @ 9:00 a.m. = 980 psig.  SITP @ 9:00 a.m. = 1000 psig. Opened to tank thru 18/64" choke @ 9:00 a.m.
		Had fluid to surface following gas in 5 minutes. Left flowing to tank. Waiting on pulling unit.
11/29/77		FTP = 110 psig thru 18/64" choke. Produced 15 bbls. oil and 5 bbls. water during last 24 hour period. Waiting on pulling unit.
11/30/77		TP = 90 psig. Choke plugged. Cleaned choke and reset to $18/64$ ". Waiting on pulling unit.
12/1/77		FTP = 50 psig. Produced 10 bbls. oil and 7 bbls. water during last 24 hour period. Waiting on pulling unit.
12/2/77		Moved in and rigged up pulling unit. Swabbed 50 bbls. total fluid. 85% water, 10% rusty emulsion, and 5% oil. Swabbed from packer (7128)

C	Prosp	pect Name: _	Pajarito				
	Well	Name:	Navajo Tract 20 - #22-31				
	Locat	tion:	1980'FNL 1980' FWL Section	n 31, T 29 N	- R 17 W		
	_		San Juan County, New Mexi				
	Well	Type:	Development	Field Ex	tension		Other
			Pennsylvanian Paradox Form				
			7600' Elevations:				
			Loffland Bros. Company			•	
			/19/77				
	Spud	. 2.30 p.m.			_		
DATE		DEPTH	DE	TAILS			
5/14/7	1	69701	rilling. Made 156 feet. Bi	t #8- 8 3/4"	STC F-3	in at 5362	2' made 1608'
-,, -			n 180 hrs. MUD WT. 9.6, VIS rilling the interval 6928-70	). 15-20 BPH	l gradual	loss.	
5/15/7	77	7138'	orilling. Made 168 feet. Bin 205 3/4 hrs. MUD WT. 9.7,	it #8- 8 3/4"	' STC F-3	in at 5362	2' made 1776' rs.
			Orilling Break: 7015-7020 from hot wire from 4 units BG t	~om 7-8 m/f t	to 2 m/f.	Total gas	s increased
			$C_2 = 16 \text{ from } 1, C_3 = 4 \text{ from } 0$	). Ls, brn,	tan, gry	, calcite	filled veins
E /1 6 /	77	7260'	and vugs, few pieces w/yellow ogging. Made 122 feet. Bit	y fluor and	cut.		
5/16/7	′′	7200	in 217 1/2 hrs. MUD WT. 9.7 7-8 m/f to 3 m/f. Total gas	. VIS 42. Dr	rillina B	reak: ///	9-85 from
			`hromatograph: Ci = 23 from	$10 \ C_2 = 11$	from 1.	$C_2 = 4 \text{ from}$	m U, C/= 2 from
			). Samples as above. Drill Total gas increased from 7 u	nits BG to 30	U units m	iax. Unroiii	a tograph:
			$C_1 = 51$ from 9, $C_2 = 32$ from 6 above.	, C <sub>3</sub> = 15 from	m 4, C <sub>4</sub> =	6 from 2.	Samples as
5/17/	77	7260'	Circulating and conditioning DIL/SP, CNL/FDC/GR/Cal, and	hole to run	casing.	Ran logs	as follows: lers TD -7260'
			Logger TD 7266'.	ngn kesoruc	TOTI DIPING		
5/18/ 5/19/		7260' 7260'	Running 5½" casing. Ran 173 jts. 5 1/2" 15.5# ST	&C K-55 casi	ng.(7284'	) Set at	7265'. Cmtd.
			with 125 sx C1 "B" 18% salt, PD 8:55 a.m. 5/18/77. Relea	2% gel ceme sed rig at 9	nt. Good :00 p.m.	returns t 5/18/77.	nroughout chity.
			Log Tops: Dakota 1357 (+3 Morrison 1583 (	853)			
			Todilto 2617 (	+2593)	NOTE: SI	hoe @ 7265' loat Collar	
			Entrada 2624 (+ Shinarump 4078	(+1132)	t.	ivac corrar	@ 7232
			De Chelly 4222 Organ Rock 4706	(+ 504)			
			Upper Hermosa 60 Paradox 6725 (-	75 (-865)			
0 / 00 /			COMPLETION REPORT  Moving in and rigging up cor				
9/30/7 10/1/7			Tubing arrived on location a	at 9:00 a.m.	Unloade	d and tall	ied tubing.
10/2/7	77		Prep to trip in hole with to Shut down for Sunday.			Γ.	
10/3/7	77	7252' PBTD	Running tubing with bit and Ran tubing with bit and scr	aner. Cleane	ed out to	float col	lar (PBTD)
10/4//	,		at 7252'. Circulated hole of tools this a.m. Prep to rul	clean. SDON.	. Starte	d pulling	tubing and
10/5/	77	7252'PBTD	Dullad tubing bit and casis	na scraper.	Riaaina	up Schlumb	erger. Ran cention of
			Cement Bond log. Good bond 7197-7218 (questionable bond	d across this	s interva	ii, appears	Chac porous
10/6/	77	7252' PBTD	zones may have taken cement Ran 229 joints tubing in ho	). Kigged do le open ende	OWN SCHIU	illine i de i .	300111
. 0, 0,			Released rig @ 1:00 p.m.10/	5/77.			

		Pajarito
We	11 Name:	Navajo Tract 20 - #22-3]
Location:		1980' FNL 1980' FWL Section 31, T-29N, R-17W
		San Juan County, New Mexico
W	ell Type:	Wildcat Development Field Extension Other
0	hiective Zones	: Pennsylvanian Paradox Formation
P	roiected Depth	:
C	ontractor:	Loffland Bros. Company
\$	nud: 2:30 p.m.	4/19/77 Completed: Status:
	puu. <u></u>	·
DATE	DEPTH	DETAILS
4/29/77	3380'	Drilling. Made 440 feet. Bit #6- 8 3/4" STC F-3 in at 2566' made 814 ft. in 37 3/4 hrs. Had 2" to 2½" water flow @ 2980'. Salinity 900 PPM. Drilling fluid is water.
4/30/77	3923'	Trip for bit change. Made 543'. Bit #6- 8 3/4" STC F-3 in at 2566' out at 3923' made 1357' in 63 1/2 hrs. Survey: 3/40 @ 3610'. MUD WT. 8.4, VIS 48, FL water, WOB 35,000.
5/1/77	4550'	Drilling. Made 627 feet. Bit #7- 8 3/4" HTC J-22 in at 3923' made 627' in 16 hrs. Survey: 1/2 <sup>0</sup> @ 3923'. MUD WT. 8.5, VIS 48, WOB 40,000.
5/2/77	4900'	Mixing mud. Made 350 feet. Bit #7- 8 3/4" HTC J-22 in at 3923'made 977' in 30 1/4 hrs. MUD WT. 8.5, VIS 31, WOB 35-40,000. Drilled 31' sand 4669-4700 and got a 6" water flow (3100 ppm Chlorides). Top:
5/3/77	5031'	Shinarump 4030' - 22' high to Amerada 20-1. Drilling. Made 131 feet. Bit #7-8 3/4" HTC J-22 in at 3923' made 1108' in 39 1/2 hrs. MUD WT. 9.3, VIS 42, WOB 40,000. Controlled water flow from interval 4669-4700 with 9.3 ppg mud.
5/4/77	5358'	Drilling. Made 327 feet. Bit #7- 8 3/4" HTC J-22 in at 3923' made 1435' in 63 1/2 hrs. MUD WT. 9.3, VIS 41. WOB 25-45,000.
5/5/77	5507'	Drilling. Made 149 feet. Bit #7- 8 3/4"HTC J-22 in at 3923' out at 5362' made 1439 feet in 64 hrs. Bit #8- 8 3/4" STC F-3 in at 5362' made 145' in 13 hrs. Survey: 3/40 @ 5362'. MUD WT. 9.3, VIS 45. WOB 35,000. 9.3 mud wt. cut to 9.1 while tripping at 5362'. Raised mud wt. to 9.4.
5/6/77	5780'	Drilling. Made 273 feet. Bit #8- 8 3/4" STC F-3 in at 5362' made 418 feet in 37 hrs. MUD WT. 9.3+, VIS 39. WOB 35-45,000.
5/7/77	5965'	Drilling. Made 185 feet. Bit #8-8 3/4" STC F-3 in at 5362' made 603' in 57 1/2 hrs. Survey: 10 @ 5860'. MUD WT. 9.4, VIS 39, WOB 35-45,000.
5/8/77	6205'	Drilling. Made 240 feet. Bit #8- 8 3/4" STC F-3 in at 5362' made 843' in 81 1/2 hrs. MUD WT. 9.3, VIS 38. WOB 40,000.
5/9/77	6415'	Drilling. Made 210 feet. Bit #8- 8 3/4" STC F-3 in at 5362' made 1053' in 105 1/2 hrs. MUD WT. 9.5, VIS 40, WOB 40,000.
5/10/7	7 6577'	Mixing mud and attempting to kill water flow. Made 162 feet. Bit #8-8 3/4" STC F-3 in at 5362' made 1215' in 122 1/4 hrs. MUD WT. 9.5, VIS. 40. Lost circulation at 6577' while drilling at approximately 12 midnight 5/9/77. Mixed and pumped pills and regained circulation. Now trying to control water flow. Pipe became stuck while going back
5/11/7	7 6577'	to bottom.  Staging oil and pipe lax. Bit #8- 8 3/4" STC F-3 in at 5362' made 1215' in 122 1/4 hrs. Controlled water flow and spotted 70 bbls. diesel oil w/105 gallons pipe lax to free stuck pipe. Lost approx. 2500 bbls. mud due to lost circulation and water flow dilution.
5/12/7	6655'	Drilling. Made 78 feet. Bit #8- 8 3/4" STC F-3 in at 5362' made 1293' in 132 3/4 hrs. MUD WT. 9.7, VIS 42, WOB 40,000. Drill string came free at 12:15 p.m. 5/11/77. Pulled 20 stands and conditioned mud in preparation for drilling ahead. Total time lost due to lost circulation, water flow, and stuck pipe = 43 hrs. Resumed drilling new hole at 7:00 p.m. 5/11/77. Hole has taken approx. 300 bbls. mud last 10 1/2 hrs
5/13/7	6814'	Drilling. Made 159 feet. Bit #8- 8 3/4" STC F-3 in at 5362'  made 1452 feet in 156 1/4 hrs. MUD WT. 9.7, VIS 42, WOB 35-40,000  Hole has taken approx. 150 bbls. mud last 24 hrs. w/ no appreciable loss during last 12 hrs. Background gas is 4-6 units. Sample Top: Paradox

Pros	pect Name: _	Pajarito
Well	Name:	Navajo Tract 20 - #22-31
Loca	tion:	1980' FNL 1980' FWL Section 31, T 29 N - R 17 W
		San Juan County, New Mexico
	I Type:	Wildcat Development Field Extension Other
wer	ative 7enes	Pennsylvanian Paradox Formation
UDJ	ective zones	:
Pro	jected Depth	Loffland Bros. Company
Con	tractor:	4/19/77 Completed: Status:
Spu	d: 2:30 p.m.	4/19/// Completed:
		DETAILS
DATE		DETAILS
2/28/77 3/01/77 thru 4/10/77 4/11/77	·	Staked location. Submitted application and supporting documents to USGS and BIA. Solicited bids for drilling contractor. Finalized plans for initiating project. Obtained necessary approvals from various regulatory agencies. Started building access road and location. Preparing to move in Loffland Bros. Co. drilling rig later this week. Completing location and starting to build reserve pit. Rig will start arriving late this p.m. or tomorrow a.m.
4/13/77		Location complete. Building reserve pit.
4/14/77 4/15/77		Moving in rotary tools.  Moving in rotary tools. Prep to rig up.
4/16/77		Rigging up rotary tools. Rigging up rotary tools.
4/17/77 4/18/77		Rigging up rotary tools. Prep to spud this p.m. or tomorrow a.m.
4/19/77 4/20/77	180'	Prep to spud. Prep to cement 13 3/8" casing. Drilled mouse hole and rat hole. Spudded 17 1/2" hole at 2:30 p.m. 4/19/77. Bit #1- 17 1/2" Security 4TJ. Made 180' in 9 1/2 hrs. Surveys: 1½0 @ 73', 1½0 @ 128' and 3/40 @ 180'. MUD WT. 9.0, VIS 45. Ran 5 jts. (199.94') 13 3/8" csg. Landed at 180' KB.
4/21/77	180'	Tripping in to drill cmt. Cmtd. csg. w/200 sx Cl "H" + 2% CaCl. Cmt. circulated. WOC. Nippled up. Tested BOP to 1000 psig. Held okay. Tripped in with Bit #2. Tagged cmt. at 123'. Bit #2- 12½" Smith DT
4/22/77	925'	Drilling. Made 745 feet. Bit #2- 12½" Smith DTJ in at 180' made 745' in 17 3/4 hrs. Surveys: 3/4° @ 280', 3/4° @ 430', 1/2° @ 600' and 1/4° @ 845'. MUD WT. 8.7, VIS 29.
4/23/77	1606'	Circulating to trip. Made 681'. Bit #2- 12½" SIC DI in at 180' out at 945' made 765 ft. in 18 1/4 hrs., Bit #3- 12½" DS 3/16 in at 945' out at 1606' made 661' in 17 3/4 hrs. Surveys: 3/40 @ 945', 1/20 @ 1293'. MUD WT. 8.6, VIS 29. Dakota top 1310 (+3900) 17' high
4/24/77	1840'	Drilling. Made 234'. Bit #3- 12½" STC DS 3/16 in at 945' out at 1606' made 661 feet in 17 3/4 hr.Bit #4- 12 1/4" STC DT 2/14 in at 1606'
4/25/77	2265'	Drilling. Made 425'. Bit #4- 12½" STC DI 2/14 in at 1606 out at 1845 made 239' in 21 hrs. Bit #5- 12½" STC F-3 3/15 in at 1845' made 420' in 16 1/2 hrs. Survey: 1/4° @ 2074'. MUD WT. 9.1, VIS 37. 2nd water
4/26/77	2566'	Tripping out to run csg. Made 301 feet. Bit #5- 12½" Smith F3 in at 1845' out at 2566' made 721 feet in 37 hrs. Had third water flow
4/27/77	2566'	Picking up 6½" drill collars. Ran 59 Jts. 36# K-55 S1&2 9 5/6 Csg. and 1 jt. LT&C csg. (2542 feet total) Set @ 2559' KB. Cmt'd. w/
4/28/77	2940'	Drilling. Made 374 feet. Bit #6-8 3/4" STC F-3 in at 2566' made 374 ft in 14 hrs. Tagged cement at 2512'. Drilled hard cement to csg. shoe. Circulated rat hole & shut down to check for water flow below csg. Had no flow. Started drilling new hole. Drilling fluid is water.