#### P. O. Box 813 - Farmington, N. M.

September 27, 1957

Re: Rincon Unit #84 Sec. 26-27N-7W Rio Arriba County, New Mexico

United States Geological Survey 2088 West Main Farmington, New Mexico

Gentlemen:

For your file on the captioned well, we enclose herewith two copies of the well history.

With copy of this letter we are sending two copies of this well history to the New Mexico Cil Conservation Commission, Aztec, New Mexico.

Very truly yours,

TEXAS NATIONAL PETROLEUM CO.,

D. E. A. Johnson

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#### TEXAS HATIONAL PETROLEUM CO.

#### SAN JUAN BASIN

#### WELL HISTOPY

#### RINCON UNIT #84



September 6, 1957 D. E. A. Johnson

Locations

990' SEL, 990' WEL of SW NE NE Sec. 26-T27N-R7W, NAPA Rio Arriba County, New Mexico

Slevations

Ground 6747', KB 6758'

Spud Date:

11/21/56

Completion Date:

1/15/57 (Rotary Rig) 7/ 9/57 (Service Rig)

Contractor: Corbett Brilling Co.

Casings

Surface: Production string: 10-3/4" w 109 w 250 sax 5-1/2" w 5665' w 275 sax + 14 gel 2-3/8" OD & 5550' w sawtooth pin collar on bottom 7790' PBD: 5615' COD: 5

Tubing:

COD: 5580'

TDs IP

839 HCF/D (AOF)

FORMATION TOPS:	Depth	Datum	Thickness
Kirtland Pruitland Pictured Cliffs Lewis Cliffhouse Menefes Point Lookout Mancos Doswell (Tocito Mem.) Greenhorn (Lms. Mem.) Graneros Mem. Dakota Burro Canyon Morrison	2554 2975 3175 3246 4874 4900 5570 6962 7345 7400 7567 7770 7790	+ 1,201, + 3783 + 3583 + 3512 + 1881, + 1858 + 1328 + 1188 - 201, - 587 - 61,2 - 809 - 962 - 1012 - 1032	421 200 71 1628 26 530 140 1997 12 55 167 153 50

### CHRONOLOGICAL HISTORY

Onte	Depth	Remarks
11/24/56	266	Spudded 12:00 noon with 13-3/4" bit. 1/2 deg. at 108:
11/25	433	
11/26	433	n== 19 thints ():09-13*) 10-3/4" 32.75# J-55 csg. Landed snot
24, 44		at 419' KB and cemented w 210 sax cement. Plug down at 1:00
		A.M. WCC
11/27	1075	WOC 24 hrs. Found plug at 370. Drilled out with 8-3/4" bit.
11/28	1958	Drilled 8-3/h" hole. 1/20 at 1689
11/29	2583	hrilled 6-3/4" hole. 1" at 2301"
11/30	2875	Drilled 8-3/h" hole
12/1	3409	Drilled 8-3/4" hole
12/2	3507	Tail shaft on pump went out. Pulled out of hole and waited on
<b></b> ,		repairs
12/3	3507	Waiting on repairs
12/4	3651	Repaired pump and remused drilling. 10 at 3528
12/5	3946	Detiind 8-1/he hole. Lost o hours working on pump
12/6	4170	Drilled 8-3/4" hole. Lost 7 hours working on pump
12/7	4368	Drilled 8-3/4" hole
12/8	4505	Drilled 8-3/μ" hole
12/9	4706	h-illed 8-3/4" hole
12/10	4808	milled 8-3/kg bols
12/11	4780	meliad to large Ren Halliburton wire line. Depth corrected
/		from 4852* to 4754*. Drilled from 4754 to 4780*

## WELL HISTORY - RINCON /84 (continued)



## CHRONOLOGICAL HISTORY

_	CHILLOIL		
	- 4	Sameh	Remarks
	Date	Depth	The state of the s
			Drilled 8-3/4" hole. Preparing to core
	12/12/56	4852	Core #1 (6-1/8" D.) 1852-1903. Cut and recovered 51' sand
	12/13	4903	Core #1 (6-1/5" 0.) 4092-4903. Care 1990 step amplied mends
	//	-2 -2	
			一个大大,让我大人,
	12/14	4929	blow. Recovered 200' water cut mud. BHFP 89-116 psi. BHSIP -
			blow. Recovered 200 water out must
			HP 2527. Reamed and drilled ahead with 0-3/4" Dit.
		5083	Drilled 8-3/4" hole
	12/15		Drilled 8-3/4" hole
	12/16	5248	Printed on the party
	12/17	5375	Drilled 8-3/4" hole
	12/18	5432	Brilled to 5415'. Tripped to take core #2. Lost circulation
	14 10	<i>y</i> -44**	* * * * * * * * * * * * * * * * * * *
		54,32	
	12/19	2434	again. Mixed mad and Jarred on DP. Spotted oil around stuck
			again. Mixeu sea dim
			pipe and jarred on pipe.
	12/20	5432	Spotted oil - worked pipe. Backed off and left outer barrel
	TE/ EO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	in hole. Before pulling out, displaced oil out of hole with
			*
			Pulled out with inner herrel. Core #2 (6-1/8" D.) 5415-5432
	12/21	5432	Pulled our with limit best in the Chitaches fine ornined
			Cut and recovered 17' sand and shale. (5415-5422 fine grained
			sendstone, bubbling slightly, gas oder. No visible porosity;
			- Jan Man - Lais Chershit fine orbined mandatone will tervices
			Carried Administrate Caronic Street Car Colors   West III with
			wash over pipe. Washed over fish to top of rat hole. Pulled
			wash over pipe. Ramed over list
			out - did not have fish. Waited on shoe for wash pipe.
	12/22	5432	the season and the state of the season of th
	12/22	July C	fish. Went in with safety joint and tried to screw into fish.
			Came out without fish.
			Went in with overshot and recovered fish. Remand rat hole and
	12/23	5486	Went in with oversmot and recovered lies.
			drilled shead with 8-3/4" bit.
	12/24	5637	nutting 8.2/ht hala - Trinnar Ed EdsE
			now to click_ck27 (Doing Lookoust). Onen 5 nours. Di 30 minutes.
	12/25	5670	note that the second with the contract of the
			highly gas cut mad with four small pockets of gas. BHFP 1360-
			highly gas cut man with actin south posts per Bulled tester and
			1985 psi. EMSIP 2015 psi. HP 2610 psi. Pulled tester and
			drilled shead.
	10/04	5736	irilled 8-3/4" hole. 17 hours fighting lost circulation.
	12/26		Drilling
	12/27	5886	in the second of
	12/28	6128	Drilling. Vis. 59, wt. 9.2
	12/29	<b>623</b> 8	Lost returns at 6229. Vis. 71, wt. 9.2
	12/30	6367	Mixed mad 11-1/4 hours and drilled ahead
			Drilling. Vis. 60, wt. 9.0
	12/31	6530	
	1/1/57	6742	Deilling
	1/2	6918	Drilling (f. 1)
	1/3	7065	Drilling. Vis. 66, wt. 9.2
	1/4	7263	Deilling
	1/5		Drilling. Vis. 54, wt. 9.2
	1/5	7442	
	1/6	7548	Circulated samples at 7599' and strung up new drilling line
	1/7	7599	Circulated samples at (333, and seriod of the management
	1/8	7649	Drilling. Vis. 65 wt. 9.3
		7696	milling and working on rotary sprocket
	1/9		Circulated samples 3-1/h hrs. and pulled out to run Schlumberger
	1/10	7779	Ran Schlumberger and drilled shead
	1/11	7795	Man Saltane t hale and 1/A analys
	1/12	7795	Conditioned hole and w/O casing
		98 6080	Plugged back 6240-6080 w 50 sax. Conditioned hole and mixed mud
	٠ رـ بـ بـ		for last circulation.
	n /al	6080	
	1/14		name and the Karl/20 15,500 Jass coc. to 5005". Float collar at
	1/15	5615	56201. Cemented w 275 sx sloset + hs gel. Plug down 2:40 AM
			SOKU . CEMENTER # 617 BY STREET AND ROTE   TANK THE PARTY
			Used 5 centralizers + 7 scratchers 5660-5200 (Pt. Lookout).
			mile and makeone Auring comenting. Tamp, survey loung to be
			5615. Top cement in annulus 4570. Landed casing and released
			rig because of weather.
			TA NACATION AN AGREEMENT

# WELL MISTORY - RINCOM #84 (continued)

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## COMPLETION

MPLETICE		The second secon
Date	Depth	Remarks
6/27/57 6/28 6/29	5615 5615 5140	Finished rigging up and started running Lame Walls Logs Ran Lame Walls G.R., Neutron and M.S. Logs. Tagged bottom at 5415'. Perforated with L.W. "E" gum (Pt. Lookout) 3 shots per foot. 5hhk-5h90; h shots per foot 5508-551h, 5522-5526, 5530-5532, 5539-55h2, 5550-555h. (Total 222 bullets) Sand water fraced with 70,000 gallons and 70,000/ 20-h0 send. Flushed with 185 bbls. water (overflushed 50 bbls.) Formation breakdown pressure 2200/, treating pressure 2000/, final pressure 2000/. Fraced in seven stages using 225 rubber coated mylon balls. No breakdown during treatment. Average injection rate 5h bbls. per minute. Pam junk pusher to 5200'. Set L.W. Magnesium bridge plug & 51h0'. Pressured plug w 2000/. Held OK. Perf- orated Manafee w L.W. "E" gum 3 shots per foot 5062-5078, 5088- 5098, 510h-511h, 5120-5130 (Total 138 bullets). Sand-water fraced w h6,000 gallons, h6,000/ 20-h0 sand. Flushed w 180 bbls. water (over flushed 50 bbls.) Formation breakdown pressure 3250/, treating pressure 2300-2600/. Final pressure 2600/. Fraced in 5 stages using 135 rubber coated mylon balls. Had good build up and breakdown on all five stages. Average injection rate h1 hbls. per minute. Formation pressure bled to 1200/ immediately and after 20 minutes had leveled off at 1100/. Devell tore down and moved out. Crushed valve on casing hand and flowed one inch stress of water.
6/30	5140	Flowed small stream of water until well died at 3100 A.M. Right ged up and run sand pump. Found sand at 5100'. Cleaned out to top of bridge plug at 51h0'. Recovered 216 balls. Run in cable tool bit and started drilling on bridge plug. Sand came to not be a sleam cut with sand pump again.
7/1	5140	give way. Rigged up to drill with gas. Started in with tubing
7/2	51 <u>4</u> 0	Going in with tubing and blowing hele dry. Gleaned out to dood.  Had to circulate every 5 joints to clean hole w 250 psi line
7/3		Found bridge plug at 1739. With upper slips drilled up, the water pressure below plug had forced it up the hole. Pushed plug to 5281 with weight of tubing, cleaning out water on way down. At that depth water came in from below plug and had to
7/4 7/5 7/6 7/7	5580	Pushing and drilling plug to bettom and blowing well clean Pushed and drilled bridge plug to 5580° Blow well with supply gas Pulled tubing to remove bit and run production tubing. In 15 hours the well filled up 150 ft. with water. Running tubing two joints at a time and blowing water out of well.
7/9	5580	Tubing detail: KB to casing flange 9.00 2-3/8* OB 4.70# J-55 177 jts 5532.25 2-3/8* OD pup 6.00 2-3/8* OD sub with sentoothed pin collar 2.80
		Landed at 5550.65
7/10		Fig released 7:00 A.M. Could not reverse supply gas. Blowing well down tubing up somelus. Water 25:00 PPM chloride. Well shut in 8:30 - 11:30 A.M. to tear out rig. Continued to blow well clean but still could not reverse. Well making about 186 M.F/D formation gas. Blowing well but not able to reverse supply gas.
7/11 7/12		Reversed supply gas down casing up tubing. With supply gas off its minutes, well gauged 291 MT but started leading up with water. Well making some distillate. Water 3607 PPM chloride.

## WELL HISTORY - RINCON #84 (continued)

COMPLETION	PBD	
Date	Depth	Remarks
7/13/57	5580	Put supply gas on intermitter: 1 hour on, 1 hour off. Well making considerable fluid
7/1h		with supply gas off 40 minutes, flow was not enough to measure. When supply gas came on, initial flow had very heavy mist. Diminished to fine mist after 25 minutes. Changed intermitter to 1/2 hour on, 1-1/2 hours off.
7/15		Well unloaded about 1/2 hbl. fluid during 1/2 hour supply gas was on. Estimate 1/4 to 1/2 of fluid was distillate. After supply gas was off 30 minutes flow was too small to measure.
7/16		Well unloaded heavy mist during entire half hour supply gas was on.
7/17 7/18		No change After supply gas had been on 25 minutes, mist had decreased to very light. After supply gas had been eff 35 minutes, flow measured 345 MCF/D. Left intermitter on 1/2 hour on - 1-1/2 hrs. off.
<b>7/</b> 19 <b>7/2</b> 0		No change During first 15 minutes with supply gas on mist decreased from heavy to light. After supply gas had been off h5 minutes, flow measured 200 MCF/D. Changed intermitter to 20 minutes on, 1 hour h0 minutes off.
7/30		After being shut in 24 hours, CP 775 psi, TP 400 psi. Opened tubing and blew solid water and distillate for 5 minutes. After 30 minutes well was blowing dry. Shut in tubing and pressures equalised immediately at 300 psi.
8/1		Shut in his hours. CP 875 psi, TP 875 psi. Open 1 hour, CP 180 psi, TP 20 psi. Gauged 1,020 MCF/D and still blowing heavy mist.
3/4		Shut in 75 hours. CP 930 psi, TP 930 psi. Open 1 hour. CP 190 psi, TP 45 psi. Gauged 1393 MCF/D. Flowed 2 barrels fluid, 65% distillate, 25% water (2130 PPM chloride) 10% BS and sud.
8/29		Shut in 16 days. CP 1025 psi, TP 1100 psi. It took 2-1/2 hrs. to get the well full open. After 3 hours the rate was 1730 NCF/D. After 4 hrs. the rate was 1038 MCF/D and the well was making approximately 5 gallons fluid per hour through separator. After 16 hours the well leveled off at 517 MCF/D and held that rate to the end of the 24 hour test. The water at the beginning of the test analysed 12,638 PPM chlorides and a sample caught at the end of the test analysed 2840 PPM chlorides.
9/h		Shut in 14 days for potential test. Static shut in tubing pressure 1032 paig. Well opened 11:30 A.M. on a 3/4" choke. At 2:30 P.M. tubing pressure 50 paig, casing pressure 166 paig, temperature 66°F, flow rate 821 MCF/D, calculated AOF 839 MCF/D.

