

FLUID SAMPLE DATA				Date 12-19-72		Ticket Number 382282	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of Job OPEN HOLE Halliburton District FARMINGTON Tester MR. DAVIS Witness MR. SWARTZ Drilling Contractor CACTUS DRILLING COMPANY # 18 DR S		Legal Location Sec. - Twp. - Rng.	
				EQUIPMENT & HOLE DATA			
				Formation Tested Picture Cliff			
				Elevation _____ Ft.			
				Net Productive Interval 70' _____ Ft.			
				All Depths Measured From Rotary Kelly Bushing			
				Total Depth 1697' _____ Ft.			
				Main Hole/Casing Size 8 3/4"			
				Drill Collar Length 630' I.D. 2 1/2"			
				Drill Pipe Length 970' I.D. 3.340"			
				Packer Depth(s) 1622'-1627' _____ Ft.			
				Depth Tester Valve 1600' _____ Ft.			
		RESISTIVITY	CHLORIDE CONTENT				
Recovery Water		_____ @ _____ °F.	_____ ppm				
Recovery Mud		_____ @ _____ °F.					
Recovery Mud Filtrate		_____ @ _____ °F.	_____ ppm				
Mud Pit Sample		_____ @ _____ °F.					
Mud Pit Sample Filtrate		_____ @ _____ °F.	_____ ppm				
Mud Weight		7.6 vis	40 cp				
TYPE		AMOUNT	Depth Back	Surface		Bottom	
Cushion			Ft. Pres. Valve	3/4" Adj. Choke		3/4"	
Recovered 100		Feet of	drilling fluid				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Opened tool for 5 minute first flow with a weak blow. Closed tool for 29 minute first closed in pressure. Reopened tool for 61 minute second flow with a weak blow decreasing to a very weak blow in 40 minutes. Closed tool for 120 minute second closed in pressure.							
TEMPERATURE		Gauge No. 283	Gauge No. 349	Gauge No.		TIME	
		Depth: 1604 Ft.	Depth: 1693 Ft.	Depth: _____ Ft.			
		12 Hour Clock	12 Hour Clock	Hour Clock			
Est. _____ °F.		Blanked Off No	Blanked Off Yes	Blanked Off		Tool _____ A.M.	
						Opened 16:00 P.M.	
Actual 80 °F.		Pressures		Pressures		Tool _____ A.M.	
						Closed 19:35 P.M.	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		638.7	633	657.9	658	Reported	Computed
						Minutes	Minutes
First Period	Flow Initial	26.1	5	39.6	32		
	Flow Final	26.1	10	39.6	34	5	5
	Closed in	391.3	389	408.1	414	30	29
Second Period	Flow Initial	26.1	11	39.6	40		
	Flow Final	52.2	46	79.2	73	60	61
	Closed in	391.3	389	408.1	415	120	120
Third Period	Flow Initial						
	Flow Final						
Final Hydrostatic		638.7	630	657.9	654		

Legal Location
Sec. - Twp. - Rng.

Lease Name

JICARILLA

Well No.

1-0-32

Test No.

1

Tested Interval

1627'-1697'

Field Area

WILDCAT

County

SANDOVAN

State

NEW MEXICO

UNION OIL COMPANY OF CALIFORNIA

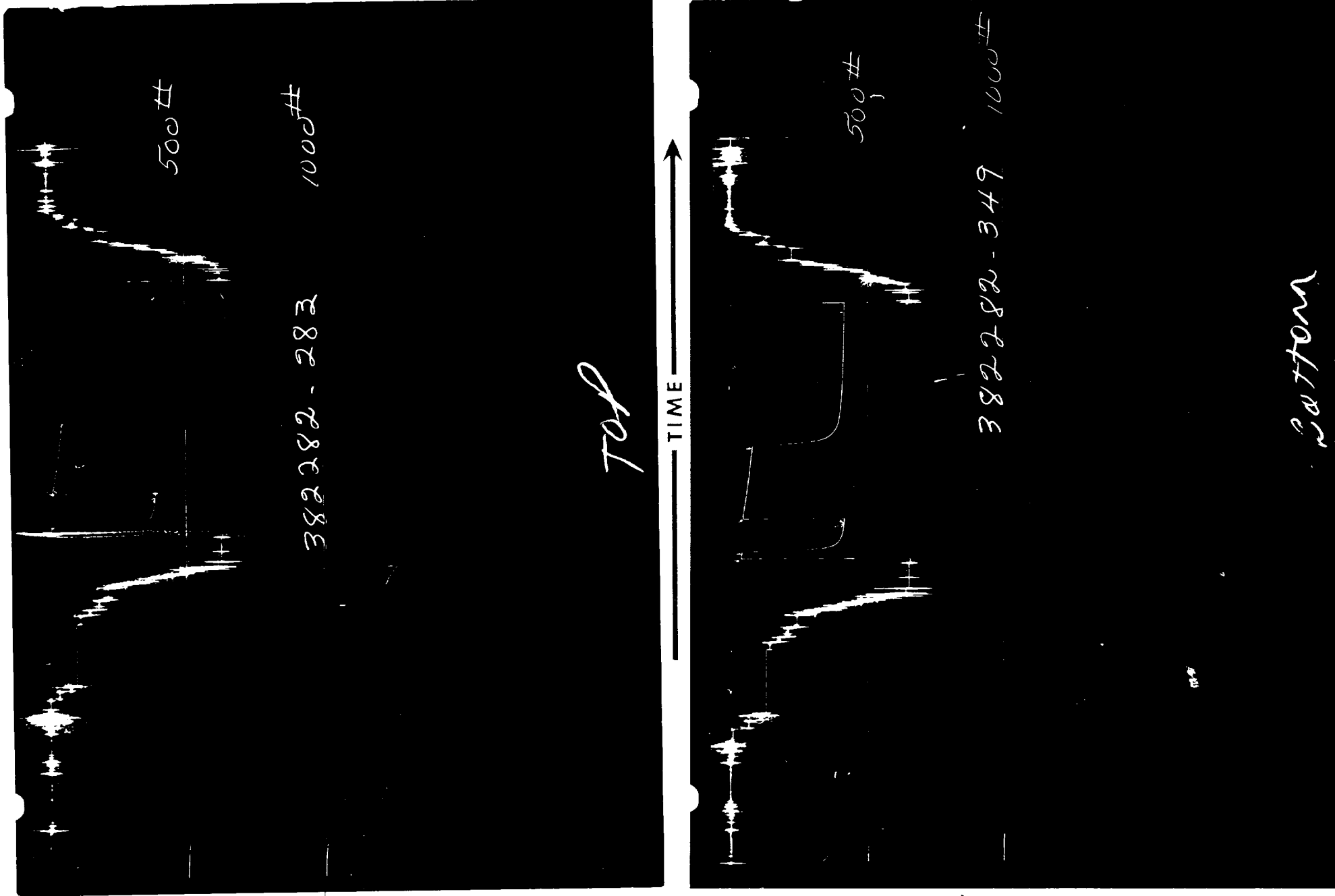
Lease Owner/Company Name

Gauge No. 283		Depth		1604'		Clock No. 10444		12 hour		Ticket No. 382282		
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000 5	.000		.000	11	.000		.000	46			
1	.0078 4	.0132		.0732	20**	.0267		.0267	306			
2	.0156 6	.0331		.1398	26	.0533		.0533	342			
3	.0234 6	.0530		.2064	33	.0800		.0800	355			
4	.0312 8	.0729		.2730	38	.1067		.1067	363			
5	.0390 10	.0928		.3396	42	.1333		.1333	367			
6		.1127		.4060	46	.1600		.1600	371			
7		.1326				.1867		.1867	374			
8		.1525				.2133		.2133	376			
9		.1724				.2400		.2400	378			
10		.1920				.2667		.2667	379			
11						.4000		.4000	383			
12						.5333		.5333	387			
13						.6667		.6667	388			
14						.8000		.8000	389			
15												

Gauge No. 349		Depth		1693'		Clock No. 10445		12 hour		Minutes		
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000 32	.000		.000	40	.000		.000	73			
1	.038 34	.0134		.0750	46**	.0270		.0270	308			
2		.0335		.1432	51	.0540		.0540	361			
3		.0536		.2114	57	.0810		.0810	377			
4		.0737		.2796	63	.1080		.1080	386			
5		.0938		.3478	68	.1350		.1350	392			
6		.1139		.4160	73	.1620		.1620	395			
7		.1340				.1890		.1890	398			
8		.1541				.2160		.2160	401			
9		.1742				.2430		.2430	402			
10		.1940				.2700		.2700	404			
11						.4050		.4050	409			
12						.5400		.5400	411			
13						.6750		.6750	413			
14						.8100		.8100	415			
15												

Reading Interval	1	3	10	***	***
REMARKS:	* First interval equal to 2 minutes **-11 minutes ***-First 10 intervals equal to 4 minutes each; last 4 intervals equal to 20 minutes each.				

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4"	3.340"	970'	
Drill Collars	6"	2½"	630'	
Handling Sub & Choke Assembly	5"		5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	4'	1600'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4'	1604'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5"	1"	2'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.3"	5'	1622'
Distributor				
Packer Assembly	7 3/4"	1.3"	5'	1627'
Flush Joint Anchor	5 3/4"	2½"	20'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6"	2½"	29,60'	
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	2½"	16'	
Blanked-Off B.T. Running Case	5 3/4"		4'	1693'



Each Horizontal Line Equal to 1000 p.s.i.

NOMENCLATURE

b	==	Approximate Radius of Investigation	Feet
b ₁	==	Approximate Radius of Investigation (Net Pay Zone h)	Feet
D.R.	==	Damage Ratio	---
El	==	Elevation	Feet
GD	==	B.T. Gauge Depth (From Surface Reference)	Feet
h	==	Interval Tested	Feet
h ₁	==	Net Pay Thickness	Feet
K	==	Permeability	md
K ₁	==	Permeability (From Net Pay Zone h)	md
m	==	Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF ₁	==	Maximum Indicated Flow Rate	MCF/D
OF ₂	==	Minimum Indicated Flow Rate	MCF/D
OF ₃	==	Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF ₄	==	Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P _s	==	Extrapolated Static Pressure	Psig.
P _f	==	Final Flow Pressure	Psig.
P _{oi}	==	Potentiometric Surface (Fresh Water*)	Feet
Q	==	Average Adjusted Production Rate During Test	bbls/day
Q ₁	==	Theoretical Production w/Damage Removed	bbls/day
Q _g	==	Measured Gas Production Rate	MCF/D
R	==	Corrected Recovery	bbls
r _w	==	Radius of Well Bore	Feet
t	==	Flow Time	Minutes
t _o	==	Total Flow Time	Minutes
T	==	Temperature Rankine	°R
Z	==	Compressibility Factor	---
μ	==	Viscosity Gas or Liquid	CP
Log	==	Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Correction is 2.30 ft.

Formation Testing Service Report

0-32-22-5

