

TIGHT HOLE

FLUID SAMPLE DATA				Date 11-19-77		Ticket Number 281827	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District FARMINGTON	
Recovery: Cu. Ft. Gas _____				Tester MR. SMITH		Witness MR. MOORE	
cc. Oil _____				Drilling Contractor FOUR CORNERS DRILLING COMPANY BC S			
cc. Water 2100				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Entrada			
Tot. Liquid cc. 2100				Elevation 6815' Ft.			
Gravity _____ ° API @ _____ ° F.				Net Productive Interval 8' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Rotary Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 6445' Ft.			
Recovery Water 1.08 @ 66 °F. _____ ppm				Main Hole/Casing Size 8 3/4"			
Recovery Mud 2.46 @ 78 °F. _____ ppm				Drill Collar Length 516' I.D. 2 1/4"			
Recovery Mud Filtrate @ _____ °F. _____ ppm				Drill Pipe Length 5878' I.D. 3.826"			
Mud Pit Sample 2.68 @ 72 °F. _____ ppm				Packer Depth(s) 6425' - 6430' Ft.			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				Depth Tester Valve 6409' Ft.			
Mud Weight 9.1 vis 43 sec							
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke 3/4" ADJ. Bottom Choke 3/4"	
Cushion							
Recovered		100 Feet of Muddy water					
Recovered		4949 Feet of Water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		SEE PRODUCTION TEST DATA SHEET.					
		TIGHT HOLE...					
TEMPERATURE		Gauge No. 2033		Gauge No. 2032		Gauge No.	
Depth:		6413' Ft.		6441' Ft.		Depth: Ft.	
12 Hour Clock		24 Hour Clock		Hour Clock		TIME	
Est. 150 °F.		Blanked Off NO		Blanked Off YES		Blanked Off	
Actual °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		3048 3068		3077 3080			
First Period Flow Initial		588 589		687 632			
Final		1080 1060		1137 1122			
Closed in		2593 2594		2625 2601			
Second Period Flow Initial		1225 1209		1243 1243			
Final		2243 2219		2225 2221			
Closed in		2593 2611		2625 2625			
Third Period Flow Initial							
Final							
Closed in							
Final Hydrostatic		3022 3029		3024 3025			

Legal Location

Sec. - Twp. - Rng.

6 - 21N - 6W

Field Area

WILDCAT

County SANDOVAL

State NEW MEXICO

Lease Name

Well No. 1

Test No. 2

Tested Interval

6430' - 6445'

Lease Owner/Company Name

DOMESTIC ALAMOS

1

2

6430' - 6445'

DOMESTIC PETROLEUM CORPORATION

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FORM 182-R1—PRINTED IN U.S.A.

LITTLE'S 96672 5M 8/74

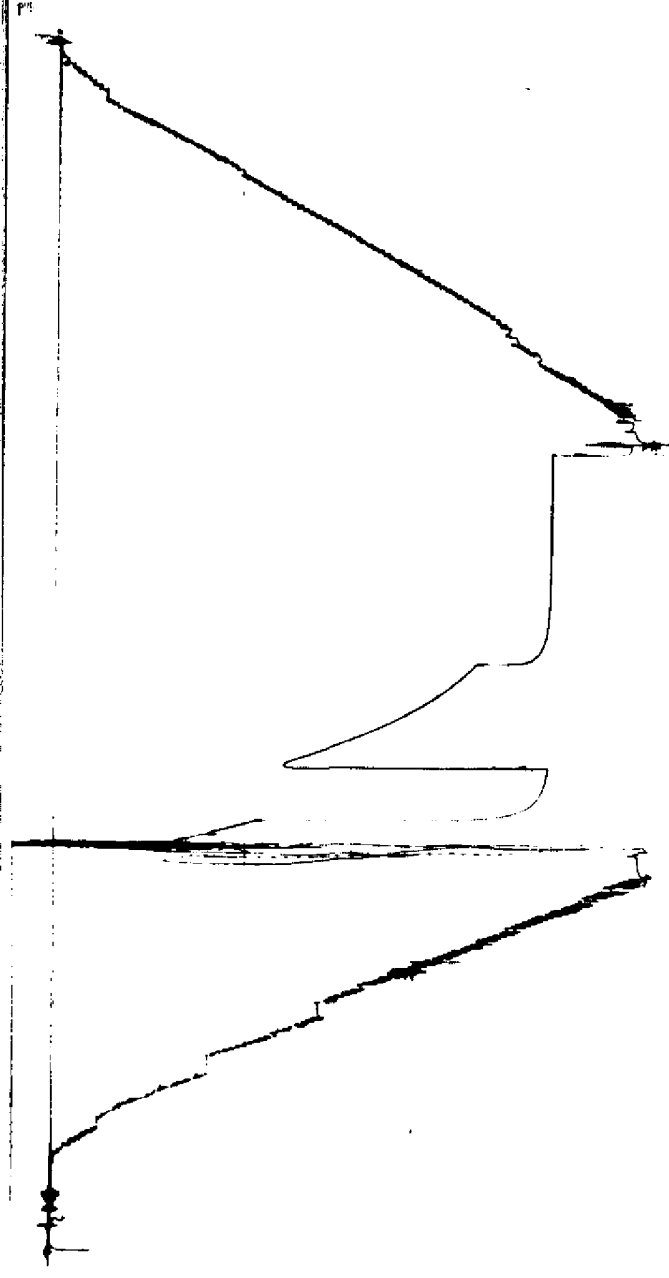
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Gauge No. 2033			Depth		6413'		Clock No. 10445		12 hour		Ticket No. 281827					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	589				.0000	1209	2219	.0000		2219					
1	.0204	642			2310*	.0683	1401	2559	.0550		2559					
2	.0408	747			2442	.1367	1640	2586	.1100		2586					
3	.0612	859			2497	.2050	1840	2597	.1650		2597					
4	.0816	961			2532	.2733	1997	2602	.2200		2602					
5	.1020	1060			2554	.3417	2121	2603	.2750		2603					
6					2566	.4100	2219	2606	.3300		2606					
7					2576			2607	.3851		2607					
8					2583			2609	.4401		2609					
9					2591			2609	.4951		2609					
10					2594			2610	.5501		2610					
11								2610	.6051		2610					
12								2611	.6601		2611					
13								2611	.7151		2611					
14								2611	.7701		2611					
15								2611**	.8320		2611**					

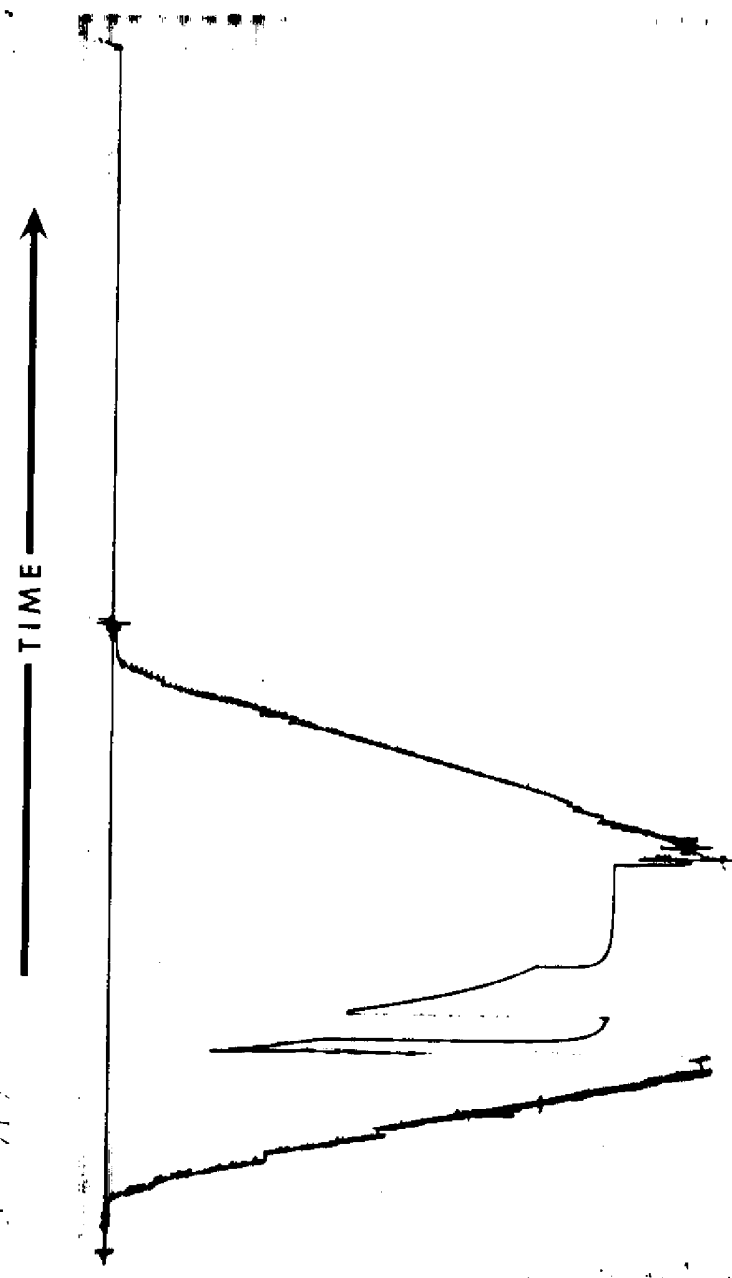
Gauge No. 2032			Depth		6441'		Clock No. 9756		24 hour		Minutes	
0	.0000	632	.0000	1122	.0000	1243	.0000		2221			
1	.0102	765	.0066	2348*	.0332	1393	.0266		2559			
2	.0204	863	.0164	2451	.0663	1641	.0532		2589			
3	.0306	938	.0262	2500	.0995	1842	.0797		2602			
4	.0408	1044	.0360	2528	.1327	2000	.1063		2612			
5	.0510	1122	.0459	2547	.1658	2121	.1329		2616			
6			.0557	2564	.1990	2221	.1595		2618			
7			.0655	2574			.1860		2621			
8			.0753	2585			.2126		2621			
9			.0852	2593			.2392		2622			
10			.0950	2601			.2658		2622			
11							.2924		2624			
12							.3189		2624			
13							.3455		2624			
14							.3721		2625			
15							.4020		2625**			
Reading Interval		3	3		10		8					
REMARKS: *Interval = 2 minutes **Interval = 9 minutes												

SPECIAL PRESSURE DATA

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	5878'	
Drill Collars	6¼"	2¼"	516'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	3/4"	7'	6404'
Hydro-Spring Tester	5"	3/4w	5'	6409'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	-	4'	6413'
Hydraulic Jar	5"	1"	6'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7½"	1½"	5'	6425'
Distributor				
Packer Assembly	7½"	1½"	5'	6430'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	2½"	10'	
Blanked-Off B.T. Running Case	5 3/4"	-	4'	6441'
Total Depth				6445'



281827-2033



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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 ₁)	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 ₁)	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 _o	=	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 Corrected to 100° F.