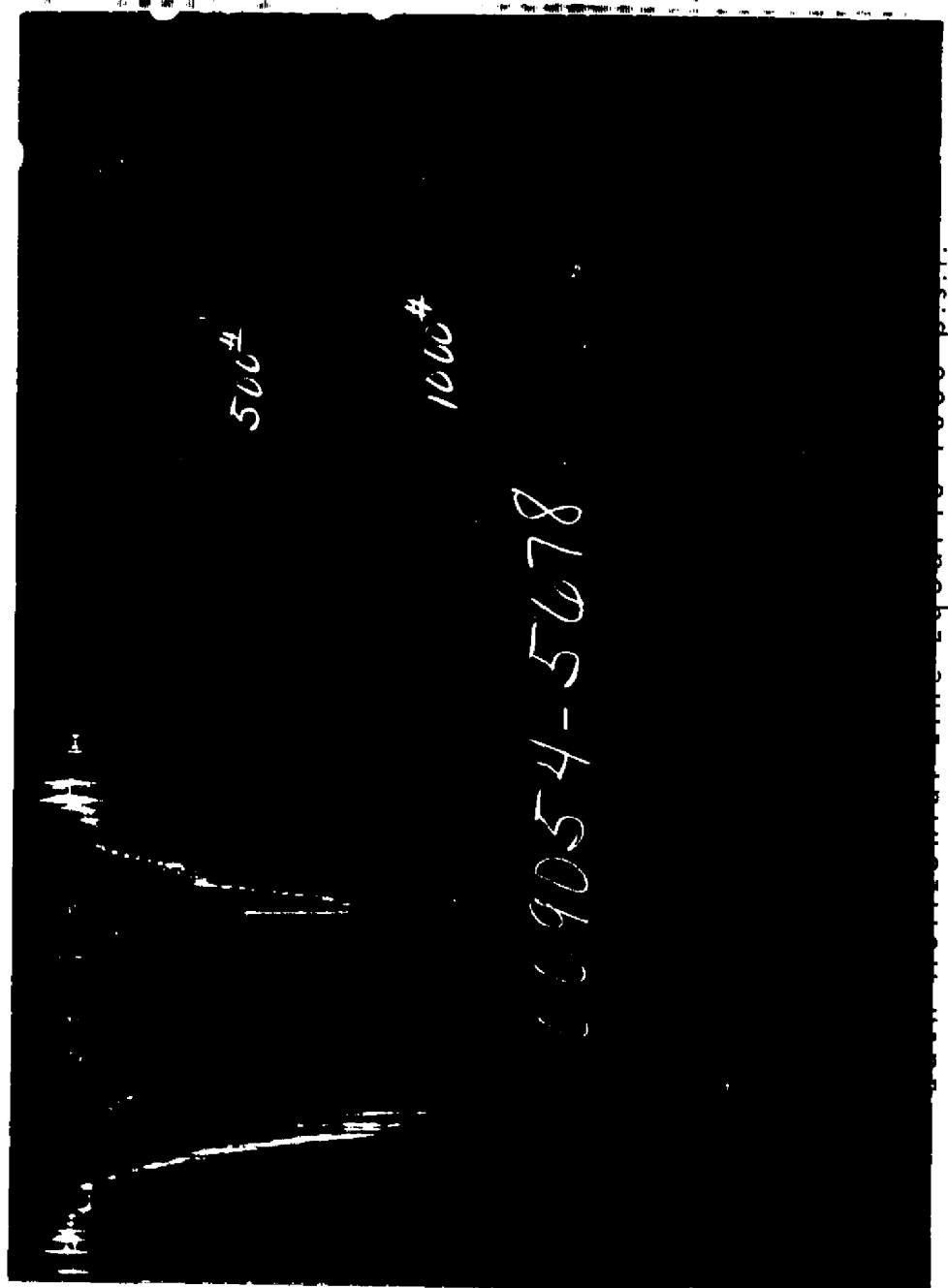
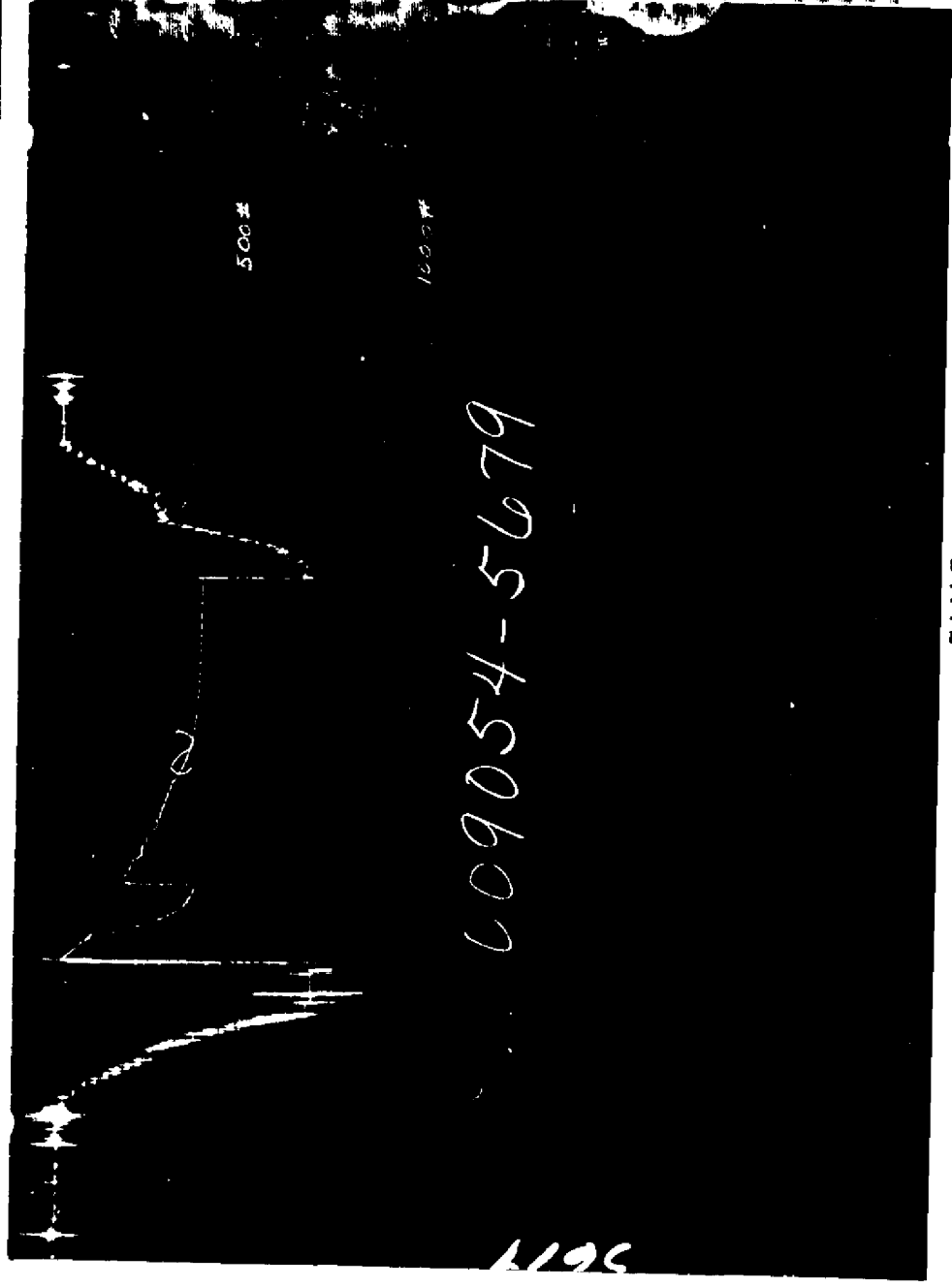




NOMENCLATURE

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_{ot}	= 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.

FEDERAL 3

Lessee Name

Well No.

Test No.

1485' - 1611'

DOME PETROLEUM CORPORATION

Lesse Owner/Company Name

Legal Location
Sec. - Twp. - Rng. 3 - 21N - 6WField Area
WILDCATCounty
SANDOVALState
NEW MEXICO

FLUID SAMPLE DATA		Date	12-13-76	Ticket Number	009054
Sampler Pressure 30 P.S.I.G. at Surface		Kind of Job	OPEN HOLE	Halliburton District	FARMINGTON
Recovery: Cu. Ft. Gas _____		Tester	MR. DUNSON	Witness	MR. BOWMAN MR. MOORE
cc. Oil _____		Drilling Contractor	FOUR CORNERS DRILLING COMPANY BC S		
cc. Water _____		EQUIPMENT & HOLE DATA			
cc. Mud 2100		Formation Tested	Chacra		
Tot. Liquid cc. 2100		Elevation	6903' Ft.		
Gravity _____ ° API @ _____ °F.		Net Productive Interval	1485' - 1611' Ft.		
Gas/Oil Ratio _____ cu. ft./bbl.		All Depths Measured From	Kelly Bushing		
RESISTIVITY _____ CHLORIDE CONTENT _____		Total Depth	1611' Ft.		
Recovery Water @ _____ °F. _____ ppm		Main Hole/Casing Size	8 3/4"		
Recovery Mud 4.78 @ 60 °F. _____ ppm		Drill Collar Length	526' I.D. 2 1/4"		
Recovery Mud Filtrate @ _____ °F. _____ ppm		Drill Pipe Length	921' I.D. 3.826"		
Mud Pit Sample 4.64 @ 45 °F. _____ ppm		Packer Depth(s)	1479' - 1485' Ft.		
Mud Pit Sample Filtrate @ _____ °F. _____ ppm		Depth Tester Valve	1462' Ft.		
Mud Weight 8.8 vis 58 Sec. SS					

TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion			3/4" ADJ.	3/4"

Recovered	516	Feet of	Drilling mud
Recovered		Feet of	
Recovered		Feet of	
Recovered		Feet of	
Recovered		Feet of	
Remarks	SEE PRODUCTION TEST DATA SHEET.		

Charts indicate possible partial plugging during flow periods, possible leak in tubular goods above tools....

TEMPERATURE	Gauge No. 5679		Gauge No. 5678		Gauge No.		TIME	
	Depth:	1466' Ft.	Depth:	1607' Ft.	Depth:	Ft.		
Est. 80 °F.	12 Hour Clock		24 Hour Clock		Hour Clock		Tool	A.M.
	Blanked Off NO		Blanked Off YES		Blanked Off		Opened 0915	P.M.
Actual 83 °F.	Pressures		Pressures		Pressures		Opened	A.M.
							Bypass 1300	P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
							Minutes	Minutes
Initial Hydrostatic	827	691	754	762				
First Period	Flow Initial	35	15	83	96			
	Flow Final	97	93	159	165		15	16
	Closed in	365	376	447	448		30	30
Second Period	Flow Initial	173	175	214	247			
	Flow Final	304	310	378	382		60	60
	Closed in	393	386	454	460		120	119
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic	689	670	754	735				

009054

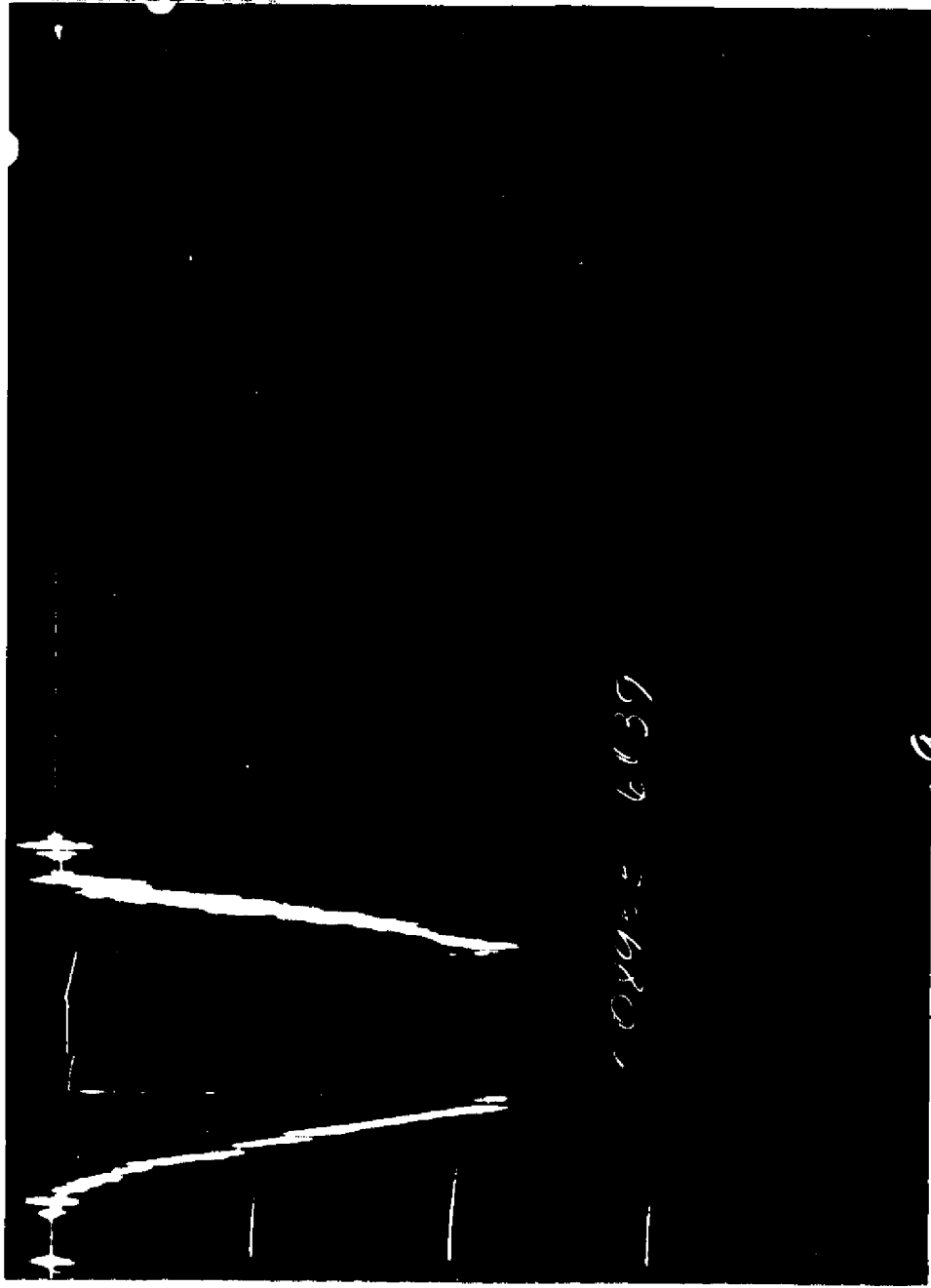
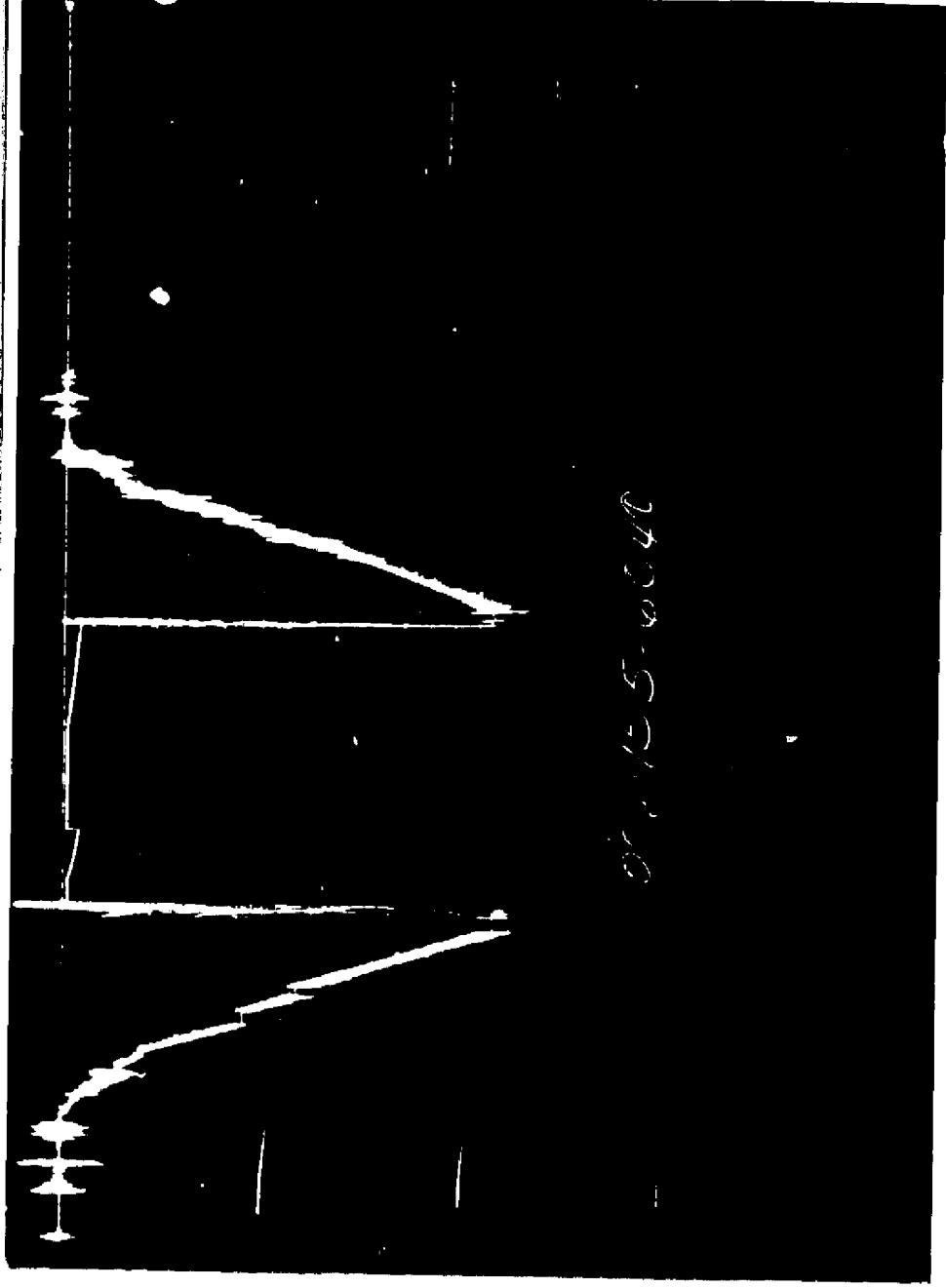
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Gauge No. 5679				Depth 1466'		Clock No. ???		12 hour		Ticket No. 009054	
First Flow Period			Closed In Pressure			Second Flow Period			Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	15	.0000		93	.0000	175		.0000		310
1	.0273	28*	.0205		182	.0692	196		.0622		337**
2	.0477	43	.0410		228	.1383	229		.1312		355
3	.0681	61	.0615		270	.2075	244		.2003		366
4	.0886	76	.0820		301	.2767	277		.2694		373
5	.1090	93	.1025		326	.3458	293		.3385		376
6			.1230		345	.4150	310		.4075		380
7			.1435		356				.4766		382
8			.1640		363				.5457		383
9	PLUGGING...		.1845		370	PLUGGING...			.6148		384
10			.2050		376				.6838		385
11									.7529		385
12									.8220		386
13											
14											
15											

Gauge No. 5678				Depth 1607'		Clock No. ???		24 hour			
First Flow Period			Closed In Pressure			Second Flow Period			Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	96	.0000		165	.0000	247		.0000		382
1	.0135	105*	.0100		257	.0333	269		.0300		410**
2	.0236	121	.0200		303	.0667	301		.0634		428
3	.0338	134	.0300		347	.1000	316		.0967		438
4	.0439	152	.0400		377	.1333	350		.1301		445
5	.0540	165	.0500		401	.1667	364		.1635		450
6			.0600		418	.2000	382		.1968		453
7			.0700		428				.2302		455
8	PLUGGING...		.0800		436	PLUGGING...			.2636		456
9			.0900		442				.2969		457
10			.1000		448				.3303		458
11									.3636		459
12									.3970		460
13											
14											
15											

Reading Interval 3				3		10		10		Minutes	
REMARKS: *Interval = 4 minutes **Interval = 9 minutes											

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 3/4"	2 1/2"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	921'	
Drill Collars	6 1/4"	2 1/4"	526'	
Handling Sub & Choke Assembly				
Dual CIP Valve	3"	.89"	7'	1456'
Dual CIP Sampler	5"	.75"	5'	1462'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.5"	4'	1466'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly 7 3/4"	5"	1.53"	6'	1479'
Distributor				
Packer Assembly 7 3/4"	5"	1.53"	6'	1485'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6 1/4"	2 1/4"	96'	
Flush Joint Anchor	5 3/4"	2 1/2"	26'	
Blanked-Off B.T. Running Case	5 3/4"	2 1/2"	4'	1607'
Total Depth				1611'



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_{or}	= 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.

FLUID SAMPLE DATA				Date 12-20-76		Ticket Number 008955	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ 2.61 63 cc. Oil _____ cc. Water _____ cc. Mud 2250 Tot. Liquid cc. 2250 Gravity _____ ° API @ _____ ° F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY _____ CHLORIDE CONTENT _____				Kind of Job OPEN HOLE Halliburton District FARMINGTON Tester MR. HOEFER Witness MR. MOORE Drilling Contractor 4 CORNERS DRILLING COMPANY # 3 sm			
				EQUIPMENT & HOLE DATA			
				Formation Tested Gallup			
				Elevation 6903' Ft.			
				Net Productive Interval 42' Ft.			
				All Depths Measured From Kelly bushing			
				Total Depth 4636' Ft.			
				Main Hole/Casing Size 8 3/4"			
				Drill Collar Length 621' I.D. 2.25"			
				Drill Pipe Length 3835' I.D. 3.826"			
				Packer Depth(s) 4588-4594' Ft.			
				Depth Tester Valve 4570' Ft.			
				TYPE AMOUNT Depth Back Surface Bottom Cushion Ft. Pres. Valve Choke 3/4" Adj. Choke 3/4"			
Recovered 10 Feet of drilling mud							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks SEE PRODUCTION TEST DATA SHEET							
Charts indicate partial plugging of anchor perforations during flow periods.							
TEMPERATURE		Gauge No. 6040	Gauge No. 6039	Gauge No.	TIME		
Depth: 4574 Ft.		Depth: 4633 Ft.	Depth: _____ Ft.				
Est. _____ ° F.		12 Hour Clock	24 Hour Clock	Hour Clock		Tool _____ A.M.	
Blanked Off no		Blanked Off yes	Blanked Off		Opened 11:35 P.M.		
Actual 118 ° F.		Pressures		Pressures		Bypass 2:20 P.M.	
	Field	Office	Field	Office	Field	Office	Reported
							Minutes
First Period	Initial Hydrostatic	2140	2159	2194	2193		
	Flow Initial	26	22	79	82		
	Flow Final	26	22	79	82		
	Closed in	79	80	105	109		15
Second Period	Flow Initial	26	18	79	71		30
	Flow Final	26	21	79	72		60
	Closed in	79	83	105	116		60
Third Period	Flow Initial						
	Flow Final						
	Closed in						
	Final Hydrostatic	2152	1294	2180	2184		

Legal Location Sec. - Twp. - Rng. **3 21 - 6**
 Lease Name **WILDCAT**
 Well No. **4594 - 4636'**
 Test No. **3**
 Tested Interval
 County **SANDOVAL**
 State **NEW MEXICO**
 Dome Petroleum Corporation
 Lease Owner/Company Name

008955

[illegible]



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 $\frac{1}{2}$ "	3.826"	3835'	
Drill Collars	6 $\frac{1}{2}$ "	2.25"	621'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	8'	4565'
Dual CIP Sampler	5"	.75"	5'	4570'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.50"	4'	4574'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	8 3/4"	1.53"	6'	4588'
Distributor				
Packer Assembly	8 3/4"	1.53"	6'	4594'
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"	2.50"	38'	
Blanked-Off B.T. Running Case	5 3/4"	3.50"	4'	4633'
Total Depth				4636'