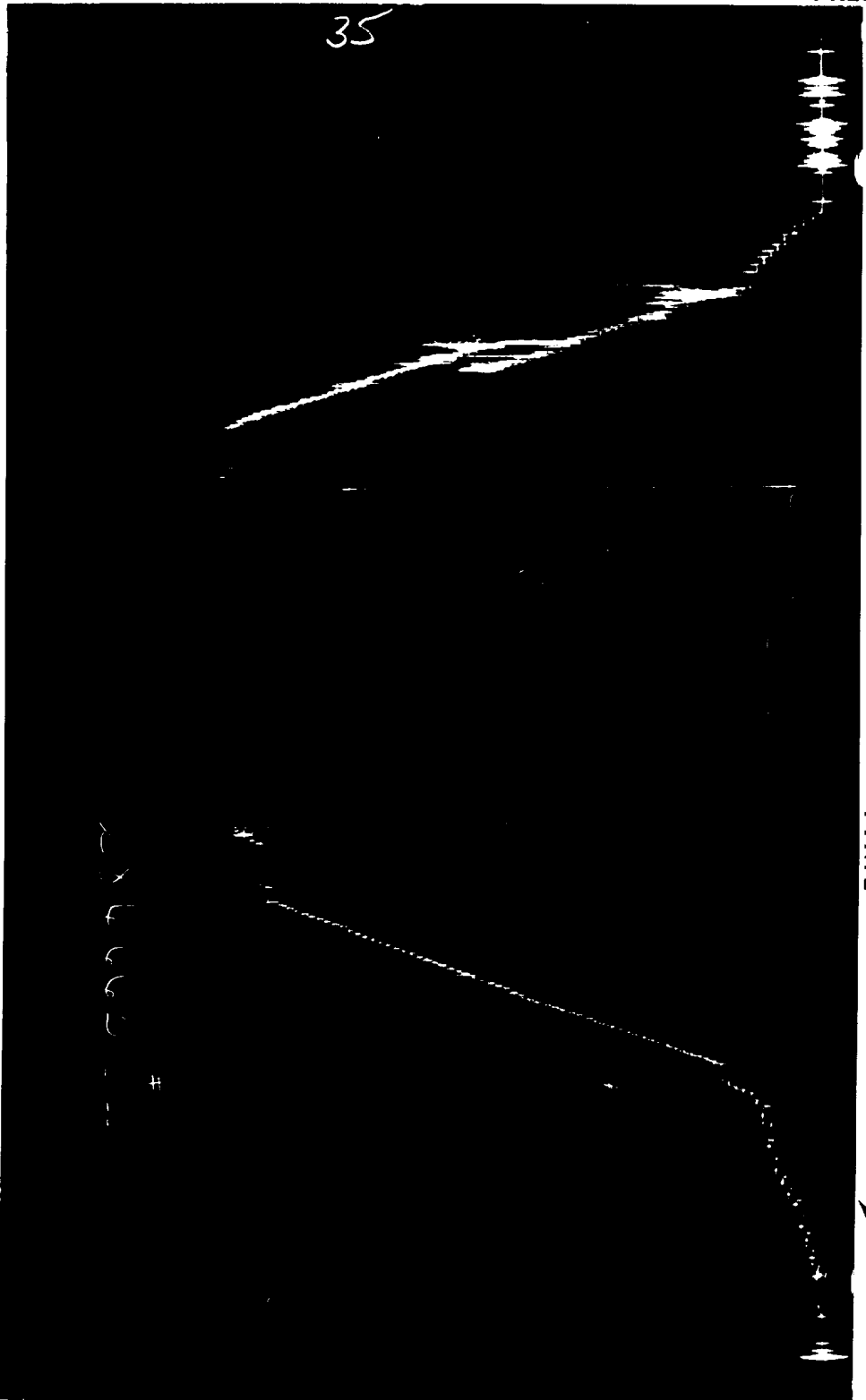
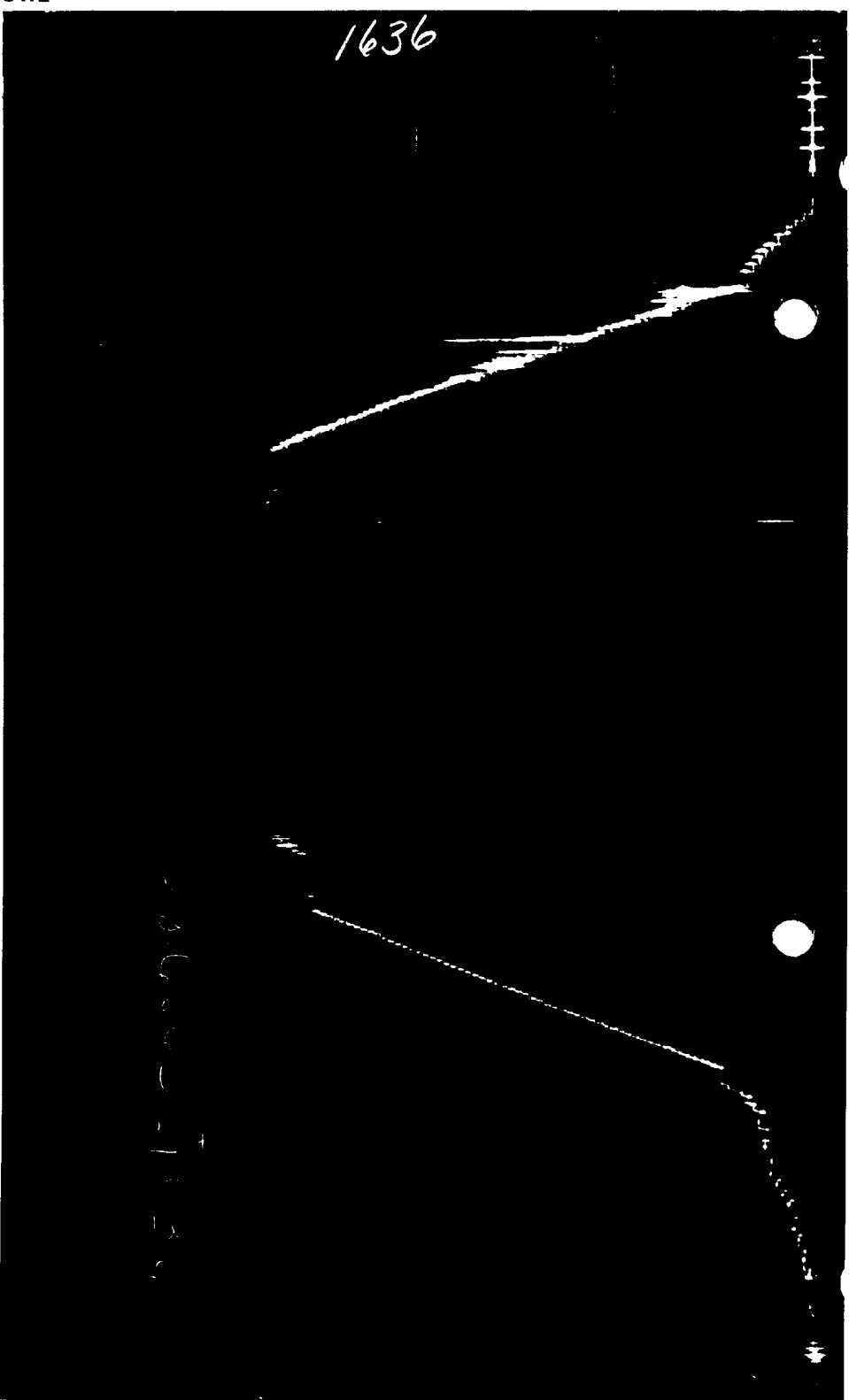




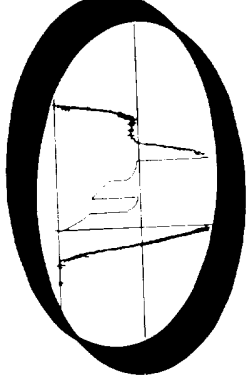
Each Horizontal Line Equal to 1000 p.s.i.

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)	md
m	= Slope Extrapolated Pressure Plot ($Psi^2/cycle$ Gas)	$psi^2/cycle$
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	$^{\circ}R$
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 60 $^{\circ}F$

Formation Testing Service Report



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AUG 23 1972

OIL CONSERVATION COMM.
HOODS, N. M.

HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

FLUID SAMPLE DATA				Date 7-25-72		Well Number 286665			
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District LOVINGTON			
Recovery: Cu. Ft. Gas _____				Tester PITTS		Witness ARLEDGE			
cc. Oil _____				Drilling Contractor G & M. DRILLING COMPANY NM S					
cc. Water _____				EQUIPMENT & HOLE DATA					
cc. Mud _____				Formation Tested San Andres					
Tot. Liquid cc. _____				Elevation 4000' K.B. _____ Ft.					
Gravity _____ ° API @ _____ ° F.				Net Productive Interval 26' _____ Ft.					
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing					
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 4776' _____ Ft.					
Recovery Water _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 7 7/8"					
Recovery Mud _____ @ _____ ° F.				Drill Collar Length 530' I.D. 2.50"					
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Pipe Length 4170' I.D. 3.826"					
Mud Pit Sample _____ @ _____ ° F.				Packer Depth(s) 4728' - 4733' _____ Ft.					
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Depth Tester Valve 4713' _____ Ft.					
Mud Weight 10.4 vis 37 cp									
Cushion TYPE NONE AMOUNT _____				Depth Back Pres. Valve NONE		Surface Choke 1" ADJ. Bottom Choke 3/4"			
Recovered 10' Feet of oil				Med. From Tester Valve					
Recovered 658' Feet of oil and gas cut mud									
Recovered 122' Feet of gas cut mud									
Recovered _____ Feet of _____									
Recovered _____ Feet of _____									
Remarks Tool opened for a 11 minute first flow with a fair blow - which increased to a good blow. Closed tool for a 31 minute first closed in pressure. Tool reopened with a good blow and slightly decreased. Gas to the surface in 26 minutes of the second flow. Took a 60 minute second closed in pressure.									
TEMPERATURE		Gauge No. 1636 Depth: 4768' Ft.		Gauge No. 35 Depth: 4772' Ft.		Gauge No. _____ Depth: _____ Ft.		TIME	
Est. ° F.		12 Hour Clock Blanked Off NO		12 Hour Clock Blanked Off YES		Hour Clock Blanked Off		Tool A.M. Opened 1:55 P.M.	
Actual 104 ° F.		Pressures		Pressures		Pressures		Tool A.M. Closed 4:07 P.M.	
		Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic		2711	2731	2723	2729			Minutes	Minutes
First Period	Flow Initial	80	98	84	83				
	Flow Final	137	164	138	158			10	11
	Closed in	1419	1440	1436	1440			32	31
Second Period	Flow Initial	137	178	138	178				
	Flow Final	252	267	254	256			30	30
	Closed in	1454	1468	1457	1463			60	60
Third Period	Flow Initial								
	Flow Final								
	Closed in								
Final Hydrostatic		2711	2731	2723	2729				

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FORMATION TEST DATA

LITTLE'S

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EQUIPMENT DATA

LITTLE'S 90216 SM 2/72

Gauge No. 1636				Depth 4768'		Clock No. 6789				12 hour		Ticket No. 286665	
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 $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	
0 .000	98			.000		164	.000		267				
1 .0185	121*			.0266		333**	.0348		474				
2 .0309	149			.0465		474	.0696		713				
3 .0433	162			.0664		640	.1044		954				
4 .0557	159			.0863		814	.1392		1190				
5 .0680	164			.1062		999	.1740		1341				
6				.1261		1169	.2090		1409				
7				.1460		1299			1440				
8				.1659		1376			1454				
9				.1858		1415			1462				
10				.2060		1440			1468				
11													
12													
13													
14													
15													

Gauge No. 35				Depth 4772'		Clock No. 6294				12 hour		
Time Defl. .000"	PSIG Temp. Corr.			Time Defl. .000"	Log $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $t + \frac{\theta}{\theta}$	PSIG Temp. Corr.
0 .000	83			.000		158	.000		256			
1 .0205	109*			.0279		304**	.0343		459			
2 .0341	140			.0488		481	.0686		683			
3 .0477	154			.0697		632	.1029		922			
4 .0613	155			.0906		798	.1372		1166			
5 .0750	158			.1115		979	.1715		1329			
6				.1324		1153	.2060		1403			
7				.1533		1286			1434			
8				.1742		1370			1450			
9				.1951		1415			1459			
10				.2160		1440			1463			
11												
12												
13												
14												
15												

Reading Interval 2				3		5		6		Minutes	

REMARKS: * First interval equal to 3 minutes ** First interval equal to 4 minutes

REMARKS: * First interval equal to 3 minutes ** First interval equal to 4 minutes

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	3"	1.10'	
Water Cushion Valve				
Drill Pipe	4.5"	3.82"	4170'	
Drill Collars	5.5"	2.5"	530'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4713'
Multiple CIP Sampler				
Extension Joint	5"	.87"	54.94"	
AP Running Case				
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	28.35"	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5'	4728'
Distributor				
Packer Assembly	6.75"	1.53"	5"	4733'
Flush Joint Anchor	5.75"	3.5"		
Pressure Equalizing Tube	5.75"	3.5"	4'	4768'
Blanked-Off B.T. Running Case	4.75"	3.5"	4'	4772'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				