

SANTA FE TRACT 8

Lease Name

Well No.

Test No.

HUGHES & HUGHES

Lease Owner/Company Name

Owner's District

Legal Location
Sec. - Twp. - Rng.

12-23-N-11-E 8 20 11

Field Area
HOSPALCounty
MC KINLEYState
NEW MEXICO

Flow Time	1st 3 Min.	2nd 60 Min.	Date	5-4-66	Ticket Number	192667 S
Closed In Press. Time	1st 25 Min.	2nd 25 Min.	Kind of Job	OPEN HOLE	Halliburton District	FARMINGTON
Pressure Readings	Field	Office Corrected	Tester	SHEPPARD	Witness	REEVES
Depth Top Gauge	2385 Ft.	no Blanked Off	Drilling Contractor	MURLYN SON	LC	
BT. P.R.D. No.	404	12 Hour Clock	Elevation	6464' KB	Top Packer	-
Initial Hydro Mud Pressure	1324.2	1329	Total Depth	2450'	Bottom Packer	2400'
Initial Closed in Pres.	1054.3	1056	Interval Tested	2400' - 2450'	Formation Tested	Hospah Gallup
Initial Flow Pres.	136.4 1 264.0 2	141 337	Casing or Hole Size	6 1/4"	Casing } Top Perfs. } Bot.	
Final Flow Pres.	329.5 1 935.3 2	287 944	Surface Choke	1/4"	Bottom Choke	1/2"
Final Closed in Pres.	988.1	992	Size & Kind Drill Pipe	3 1/2" IF	Drill Collars Above Tester	I.D. - LENGTH 2" - 30'
Final Hydro Mud Pressure	1315.3	1318	Mud Weight	10.2	Mud Viscosity	37
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	70 °F Est. °F Actual	Anchor Size & Length	ID 2 3/4" X 49" OD 5 3/4"
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	2380 Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Cushion	-		
Initial Flow Pres.	1		Recovered	2200	Feet of mud cut water.	
Final Flow Pres.	2		Recovered		Feet of	
Final Closed in Pres.	1		Recovered		Feet of	
Final Hydro Mud Pres.	2		Recovered		Feet of	
Depth Bot. Gauge	2446 Ft.	yes Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	328	24 Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.	1348.1	1359	Tool Opened	8:27 P.M.	Tool Closed	10:20 P.M.
Initial Closed in Pres.	1074.1	1078	Remarks	Tool opened 3 minute first flow with good blow. Took a 25 minute initial closed in pressure.		
Initial Flow Pres.	183.6 1 262.2 2	188 375	Reopened tool for a 60 minute second flow with a			
Final Flow Pres.	371.5 1 955.2 2	315 964	good blow decreased throughout test, nearly dead in			
Final Closed in Pres.	1007.9	1014	60 minutes. Closed tool for a 25 minute final			
Final Hydro Mud Pres.	1290.4	1349	closed in pressure.			

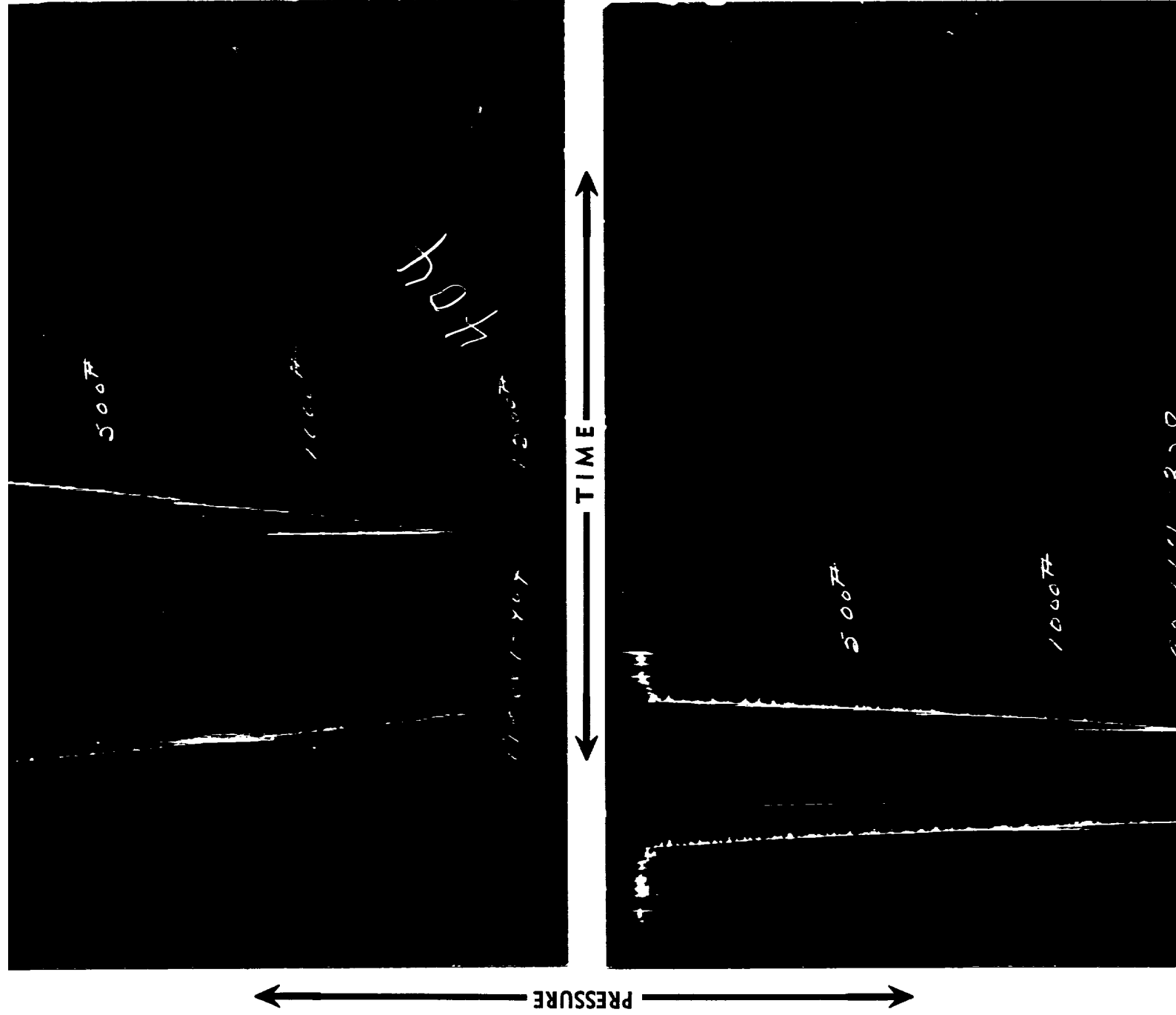
FORMATION TEST DATA

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Gauge No. 404			Depth 2385'			Clock 12 hour		Ticket No. 192667		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	141	.000		287	.000	337	.000		964
P ₁	.023	237	.0185		879	.105	710	.0165		965
P ₂			.0370		967	.210	842	.0330		970
P ₃			.0555		1000	.315	907	.0495		975
P ₄			.0740		1018	.420	944	.0660		978
P ₅			.0925		1030			.0825		981
P ₆			.1110		1038			.0990		984
P ₇			.1295		1044			.1155		986
P ₈			.1480		1049			.1320		988
P ₉			.1665		1053			.1485		990
P ₁₀			.1850		1056			.1650		992

Gauge No. 328			Depth 2446'			Clock 24 hour				
P ₀	.000	188	.000		315	.000	375	.000		984
P ₁	.012	315	.0098		803	.053	724	.0082		986
P ₂			.0196		966	.106	860	.0164		991
P ₃			.0294		1011	.159	928	.0246		996
P ₄			.0392		1034	.212	964	.0328		999
P ₅			.0490		1048			.0410		1002
P ₆			.0588		1085			.0492		1005
P ₇			.0686		1065			.0574		1007
P ₈			.0784		1071			.0656		1010
P ₉			.0882		1075			.0738		1011
P ₁₀			.0980		1078			.0820		1014
Reading Interval			2.5			15		2.5 Minutes		
REMARKS: Corrected baseline										

SPECIAL PRESSURE DATA



NOMENCLATURE

b	=	Approximate Radius of Investigation	.....	Feet
b₁	=	Approximate Radius of Investigation (Net Pay Zone h ₁)	.....	Feet
D.R.	=	Damage Ratio	.....	—
Ei	=	Elevation	.....	Feet
GD	=	B.T. Gauge Depth (From Surface Reference)	.....	Feet
h	=	Interval Tested	.....	Feet
h₁	=	Net Pay Thickness	.....	Feet
K	=	Permeability	.....	md
K₁	=	Permeability (From Net Pay Zone h ₁)	.....	md
m	=	Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	.....	psi/cycle
OF₁	=	Maximum Indicated Flow Rate	.....	MCF/D
OF₂	=	Minimum Indicated Flow Rate	.....	MCF/D
OF₃	=	Theoretical Open Flow Potential with/Damage Removed Max.	.....	MCF/D
OF₄	=	Theoretical Open Flow Potential with/Damage Removed Min.	.....	MCF/D
P_s	=	Extrapolated Static Pressure	.....	Psig.
P_f	=	Final Flow Pressure	.....	Psig.
P_α	=	Potentiometric Surface (Fresh Water *)	.....	Feet
Q	=	Average Adjusted Production Rate During Test	.....	bbls/day
Q₁	=	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	.....	—

Your.....

Formation Testing Service Report

