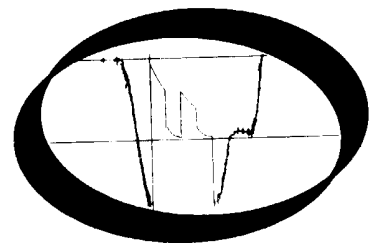
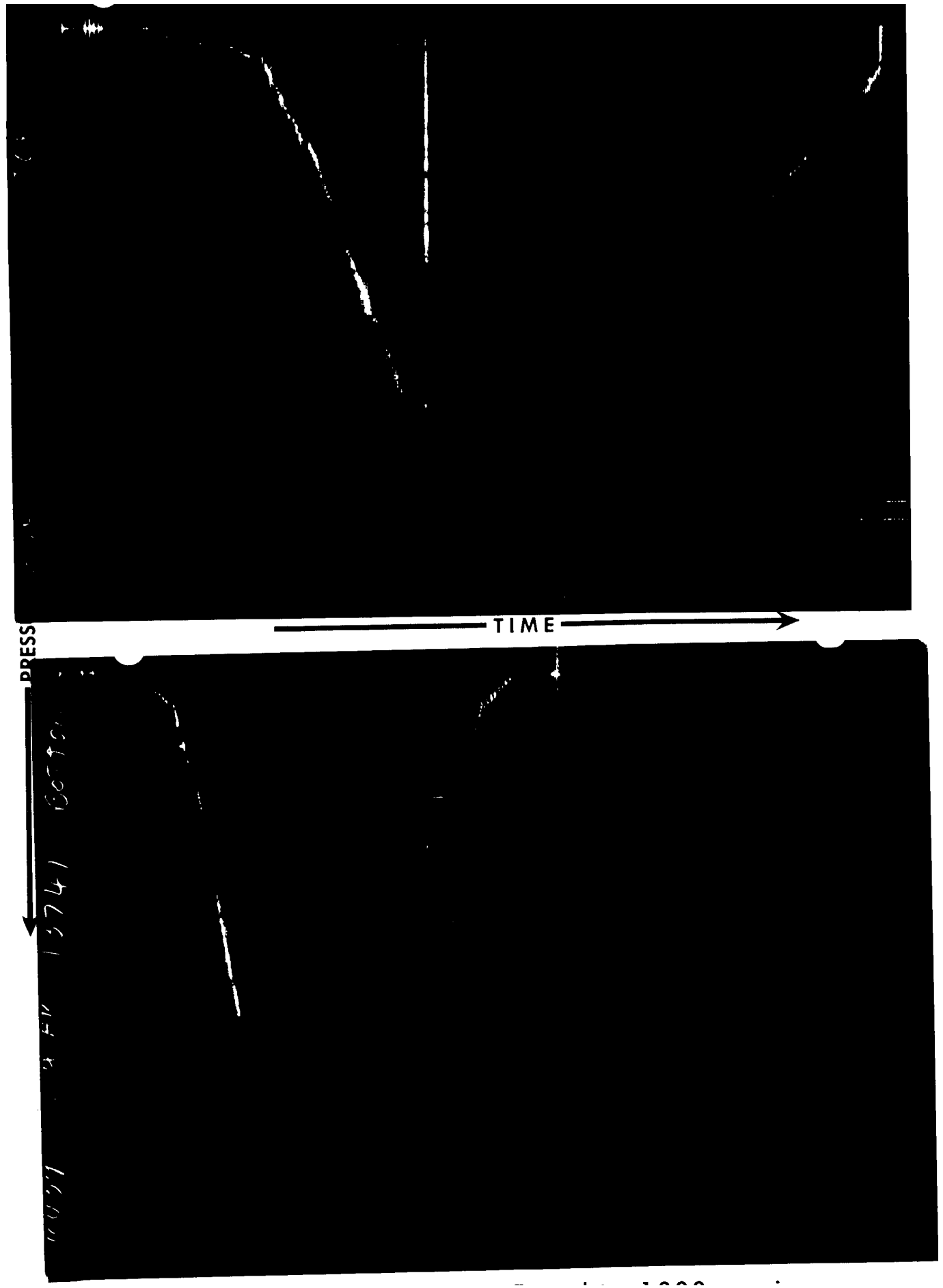
Formation Testing Service Report



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



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.

FLUID SAMPLE DATA

Sampler Pressure 0 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water 2000
cc. Mud
Tot. Liquid cc. 2000
Gravity ° API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	.1 @	70 °F.	ppm
Recovery Mud	.076 @	82.5 °F.	ppm
Recovery Mud Filtrate	.064 @	72.5 °F.	ppm
Mud Pit Sample	@	°F.	ppm
Mud Pit Sample Filtrate	@	°F.	ppm

Mud Weight 9.2 vis 58 sec.

Date 4-3-80 Ticket Number 684475
Kind of D.S.T. OPEN HOLE Halliburton Location FARMINGTON
Tester MR. FREIDLINE / MR. ROBERTS Witness MR. MOORE
Drilling Contractor BRINKERHOFF #67 IC

EQUIPMENT & HOLE DATA

Formation Tested Entrada
Elevation 6736' GL Ft.
Net Productive Interval 10' Ft.
All Depths Measured From Rotary Kelly Bushing
Total Depth 6120' Ft.
Main Hole/Casing Size 8 3/4"
Drill Collar Length 527.45' I.D. 2.25"
Drill Pipe Length 5551.55' I.D. 3.826"
Packer Depth(s) 6104.5' - 6110.5' Ft.
Depth Tester Valve 6086.4' Ft.

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

Recovered 620 Feet of Drilling mud
Recovered 280 Feet of Mud & sand cut water
Recovered 3608 Feet of Water & sand
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET.

TEMPERATURE	Gauge No. 6040	Gauge No. 6039	Gauge No.	TIME (00:00-24:00 hrs.)
	Depth: 6090.5' Ft.	Depth: 6115.5' Ft.	Depth: Ft.	
	12 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 8:41
Est. 90 °F.	Blanked Off NO	Blanked Off YES	Blanked Off	
Actual °F.	Pressures	Pressures	Pressures	Opened Bypass 11:02

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		3040.8	3024.4	3039.6	3036.7				
First Period	Flow Initial	1847.3	1813.5	2031.3	1997.2			—	—
	Flow Final	1887.9	2326.5	2058.5	2343.7			21	20
	Closed in	2361.8	2365.8	2371.0	2384.5			30	31
Second Period	Flow Initial	2348.3	2356.3	2357.4	2377.7			—	—
	Flow Final	2375.4	2369.9	2371.0	2389.9			30	32
	Closed in	2375.4	2373.9	2384.6	2391.3			60	58
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		3040.8	2991.8	3039.6	3002.7			—	—

Legal Location Sec. - Twp. - Rng. 13 - 20N - 5W
Lease Name DOME NAVAJO
Well No. 1
Test No. 1
Field Area WILDCAT
County MC KINLEY
State NEW MEXICO
Tested Interval 6110.5' - 6120'
Lease Owner/Company Name DOME PETROLEUM CORPORATION

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FORMATION TEST DATA

LITTLE'S 111033 75C 2/80

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Third In Pressure	$\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Minutes

Casing perfs.____ Bottom choke____ Surf. temp____ °F Ticket No. 684475

Gas gravity____ Oil gravity____ GOR____

Spec. gravity____ Chlorides____ ppm Res.____ @____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
4-3-80 2:30					Picked up tools.
4:30					Went in hole with tools.
8:41		10			Opened tool with strong blow.
8:51					Blow decreased.
9:02					Closed tool for closed in pressure.
9:32					Opened tool with fair blow.
9:36					Blow decreased - no gas.
10:02					Closed tool with very weak blow.
11:02					Trip out of hole with tools.
17:30					Out of hole.
18:00					Job complete.

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PRODUCTION TEST DATA

LITTLE'S 96672 5M 8/74

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TICKET NO. 68447

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5551.55'	
Drill Collars	6 1/4"	2 1/4"	527.45'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	3'	6077.65'
Dual CIP Sampler	5"	.75"	3.75'	6081.4'
Hydro-Spring Tester	5"	.75"	5'	6086.4'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3"	4.1'	6090.5'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	6'	6104.5'
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	6110.5'
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"	3 1/2"	5'	
Blanked-Off B.T. Running Case	5 3/4"	2 1/2"	4.5'	6115.5'
Total Depth				6120'