

SANTA FE 20

Lease Name

3

1

4584' - 4610'

SAN JUAN

DOME PETROLEUM CORPORATION

Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rng.

20 - 19 - 8

H - 20 - 21 - 8

Field Area
SNAKE EYES

County

State
NEW MEXICO

FLUID SAMPLE DATA				Date 6-12-77		Ticket Number 161998	
Sampler Pressure 1525 P.S.I.G. at Surface				Kind of Job OPEN HOLE TEST		Halliburton District FARMINGTON	
Recovery: Cu. Ft. Gas 10.01				D. HOEFER		Witness C.D. MOORE	
cc. Oil 25				Tester JIM DAVIS			
cc. Water 175				Drilling Contractor FOUR CORNERS DRILLING COMPANY		PW	
cc. Mud				EQUIPMENT & HOLE DATA			
Tot. Liquid cc. 200				Formation Tested Dakota			
Gravity ° API @ °F.				Elevation 6585' Ft.			
Gas/Oil Ratio cu. ft./bbl.				Net Productive Interval 26' Ft.			
RESISTIVITY CHLORIDE CONTENT				All Depths Measured From Kelly Bushing			
Recovery Water 1.92 @ 85 °F. ppm				Total Depth 4610' Ft.			
Recovery Mud @ °F. ppm				Main Hole/Casing Size 8 3/4"			
Recovery Mud Filtrate @ °F. ppm				Drill Collar Length 580' I.D. 2.50"			
Mud Pit Sample .81 @ 71 °F. ppm				Drill Pipe Length 3970' I.D. 3.826"			
Mud Pit Sample Filtrate @ °F. ppm				Packer Depth(s) 4578' - 4584' Ft.			
Mud Weight 9 vis 58 sec				Depth Tester Valve 4557' Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke 3/4" Adj. Bottom Choke 3/4"	
Cushion							
Recovered		60 Feet of oil, gas cut.					
Recovered		800 Feet of water, gas cut.					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		SEE PRODUCTION TEST DATA SHEET....					
TEMPERATURE		Gauge No. 6040		Gauge No. 6039		Gauge No.	
Depth:		4562 Ft.		4607 Ft.		Ft.	
Est. °F.		12 Hour Clock		24 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool A.M.	
Actual 140 °F.		Pressures		Pressures		Opened 500 P.M.	
Field		Office		Field		Office	
Initial Hydrostatic		2285 2174		2308 2197		Reported Minutes	
Flow Initial		1273 1266		1357 1352		Computed Minutes	
Flow Final		1501 1522		1561 1584		15 14	
Closed in		1826 1834		1847 1846		60 61	
Flow Initial		1394 1388		1466 1473		30 29	
Flow Final		1556 1561		1588 1603		120 121	
Closed in		1826 1831		1840 1845			
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		2150 2118		2200 2140			

FORMATION TEST DATA

LITTLE'S 102548 5M 9/76

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 161998
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

[illegible]

Gauge No. 6040		Depth 4562'		Clock No. 14121		12 hour		Ticket No. 161998	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .000	1266	.000		.000	1388	.000			1561
1 .0249*	1358	.0133		.0276**	1442	.0268			1818
2 .0373	1386	.0267		.0621	1534	.0536			1822
3 (.0400 1395-CC)	.0400			.0966	1573	.0804			1824
4 .0497	1425	.0534		.1310	1568	.1072			1826
5 .0622	1474	.0667		.1655	1559	.1341			1826
6 .0746	1505	.0800		.2000	1561	.1609			1827
7 .0870	1522	.0934				.1877			1827
8		.1067				.2145			1827
9		.1201				.2413			1828
10		.1334				.2681			1828
11		.1935				.3686			1830
12		.2535				.4692			1830
13		.3136				.5697			1830
14		.3736				.6703			1830
15		.4070				.8110			1831

Gauge No. 6039		Depth 4607'		Clock No. 12118		24 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0 .000	1352	.000		.000	1473	.000	
1 .0134*	1432	.0067		.0137**	1512	.0135	
2 .0201	1469	.0134		.0307	1583	.0269	
3 (.0240 1486-CC)	.0201			.0478	1613	.0404	
4 .0269	1499	.0268		.0649	1610	.0538	
5 .0336	1541	.0335		.0819	1603	.0673	
6 .0403	1571	.0401		.0990	1603	.0807	
7 .0470	1584	.0468				.0942	
8		.0535				.1076	
9		.0602				.1211	
10		.0669				.1345	
11		.0970				.1850	
12		.1271				.2354	
13		.1572				.2859	
14		.1873				.3363	
15		.2040				.4070	

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FOUO 107 01 BOLIVIA 111 2 4

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b_1	= 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
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.

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

PRESSURE

TIME

6040

16998-6040

6039

16998-6039