BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 5790
Order No. R-5330

APPLICATION OF DOME PETROLEUM
CORPORATION FOR POOL CREATION
AND ASSIGNMENT OF A DISCOVERY
ALLOWABLE, McKINLEY COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 10, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 30th day of November, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Dome Petroleum Corporation, has discovered a new common source of supply for the production of oil from the Entrada formation in its Federal 21 Well No. 1, located in Unit K of Section 21, Township 20 North, Range 5 West, NMPM, McKinley County, New Mexico, said well being completed to produce from the Entrada formation August 26, 1976, through casing perforations from 5,877 feet to 5,885 feet.

(3) That the applicant seeks the creation and designation of a new oil pool for said Federal 21 Well No. 1, and the assignment of an oil discovery allowance to the discovery well.

(4) That having made a bona fide deepest McKinley County discovery of a new common source of supply, the discovery well, applicant's Federal 21 Well No. 1 is eligible for and should be assigned an oil discovery allowable of ten barrels for each foot of depth from the surface of the ground to the top of the perforations at 5,877 feet, or 58,770 barrels.

(5) That a new pool for said discovery well should be created and designated the Ojo Encino-Entrada Oil Pool, and the vertical limits of said pool should be the Entrada formation and the horizontal limits should comprise:

TOWNSHIP 20 NORTH, RANGE 5 WEST, NMPM
Section 21: SE/4 NW/4 and NE/4 SW/4

(6) That creation of a new pool and the assignment of a discovery allowable, all as described in Findings Nos. (4) and (5) above are in the interest of conservation, will prevent waste, and will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

(1) That effective December 1, 1976, a new pool for the production of oil from the Entrada formation in McKinley County, New Mexico, is hereby created and designated as the Ojo Encino-Entrada Oil Pool with vertical limits comprising the Entrada formation and horizontal limits as follows:

TOWNSHIP 20 NORTH, RANGE 5 WEST, NMPM
Section 21: SE/4 NW/4 and NE/4 SW/4

(2) That the discovery well for said pool, the Dome Petroleum Corporation Federal 21 Well No. 1 located in Unit K of Section 21, Township 20 North, Range 5 West, NMPM, McKinley County, New Mexico, is hereby assigned an oil discovery allowable of 58,770 barrels of oil, to be produced within 730 days after the effective date of this order.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

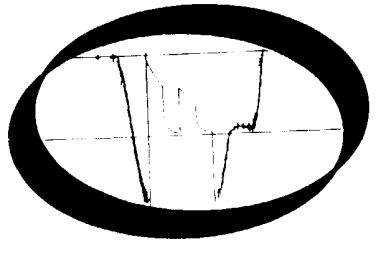
EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

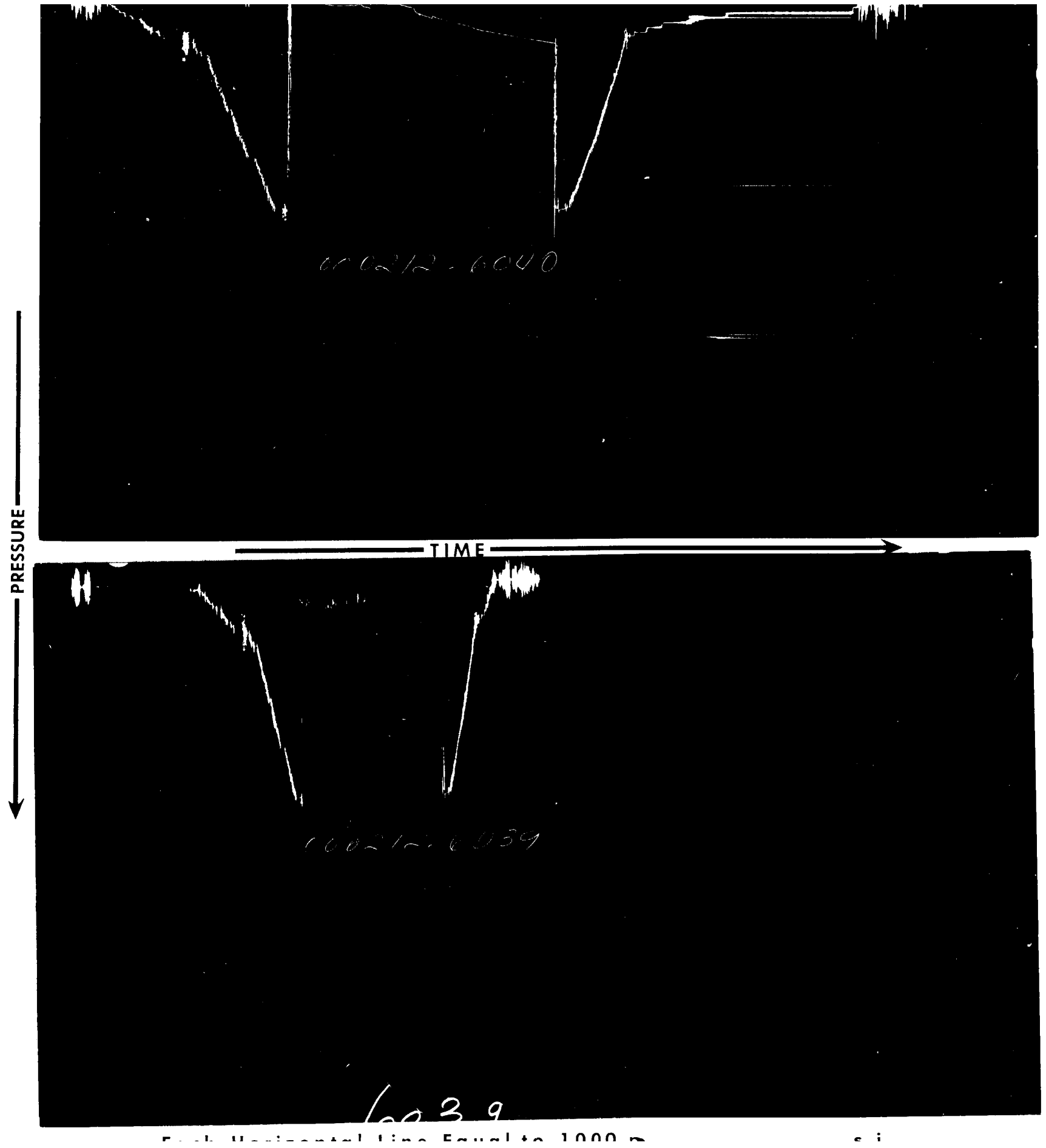
S E A L

jr/

Fo[illegible]mation Testing Service Report



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000 P

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 _____ P.S.I.G. at Surface
Recovery: Cu. Ft. Gas _____
cc. Oil _____
cc. Water _____
cc. Mud 2250
Tot. Liquid cc. 2250
Gravity _____ ° API @ _____ °F.
Gas/Oil Ratio _____ cu. ft./bbl.

			RESISTIVITY	@	°F.	CHLORIDE CONTENT	ppm
Recovery Water		@		°F.		ppm
Recovery Mud	4.0	@	75	°F.		ppm
Recovery Mud Filtrate		@		°F.		ppm
Mud Pit Sample	3.5	@	83	°F.		ppm
Mud Pit Sample Filtrate		@		°F.		ppm

Mud Weight 8.6 vis 50 sec XXX

Date 7-27-76 Ticket Number 000212
Kind of Job OPEN HOLE Halliburton District FARMINGTON
Tester D. HOEFER Witness MR. MOORE
Drilling Contractor LOFFLAND BROTHERS DRILLING COMPANY SM

EQUIPMENT & HOLE DATA

Formation Tested Gallup
Elevation 6788' Ft.
Net Productive Interval 100' Ft.
All Depths Measured From Kelly bushing
Total Depth 3979' Ft.
Main Hole/Casing Size 8 3/4"
Drill Collar Length 599' I.D. 2.25"
Drill Pipe Length 3245' I.D. 3.340"
Packer Depth(s) 3873-3879' Ft.
Depth Tester Valve 3851' Ft.

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

Recovered 10 Feet of mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Remarks SEE PRODUCTION TEST DATA SHEET.... (signs of plugging on bottom chart....did not plug off.

TEMPERATURE	Gauge No. 6040	Gauge No. 6039	Gauge No.	TIME
	Depth: 3856 Ft.	Depth: 3976 Ft.	Depth: Ft.	
	12 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened A.M. 6:55 PXXX
Est. °F.	Blanked Off no	Blanked Off yes	Blanked Off	Opened A.M.
Actual 132 °F.	Pressures	Pressures	Pressures	Bypass P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1772	1789	1865	1838				
First Period	Initial	26	21	119	129				
	Flow Final	26	17	171	Plugging			30	
	Closed in	39	56	211	Plugging			50	
Second Period	Initial	39	21	171	Plugging				
	Flow Final	118	118	224	176			60	
	Closed in	314	348	408	401			120	
Third Period	Initial								
	Flow Final								
	Closed in								
Final Hydrostatic		1772	1770	1825	1820				

Lease Name FEDERAL 21 Well No. 1 Test No. 1
Legal Location Sec. - Twp. - Rng. 21 -20-5
Tested Interval 3879 - 3979'
Field Area WILDCAT
Meas. From Tester Valve
County MC KINLEY State NEW MEXICO
Lease Owner/Company Name FILON EXPLORATION CORPORATION

FORM 181-R1—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 95671 10M 8/74

18

Casing perfs.____ Bottom choke____ Surf. temp____ °F Ticket No. 000212

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
10:00 PM					On location
12;00					Picked up and made up tools
7-27-76					
1:00 AM					Hot shot after safety jt.(the one on
					truck broke)
3:30					Made up tools
4:00					Started in hole
6;55					Opened tool with a weak to very weak blow.
7:25					Closed tool
8:15					Opened tool with very weak blow
8;50					Dead
9:15					Closed tool
11:55					Opened bypass
11;20					Came off bottom
1:15					Out of the hole.
					10' of mud recovered
3:00					Left location.

FORM 182-RI—PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 96672 5M 8/74

18

TICKET NO. 000212

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	2.25"	1'	
Water Cushion Valve				
Drill Pipe	4"	3.340"	3245'	
Drill Collars	6 1/4"	2.25"	599'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	8'	3843'
Hydro-Spring Tester	5"	.75"	5'	3851'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.50"	4'	3856'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7½"	1.53"	6'	3873'
Distributor				
Packer Assembly	7½"	1.53"	6'	3879'
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	6 1/4"	2.25"	66'	
Flush Joint Anchor	5 3/4"	2.50"	30'	
Blanked-Off B.T. Running Case	5 3/4"	3.50"	4'	3976'
Total Depth				3979'

EQUIPMENT DATA