5 MMS(Farmington) 1-Southern Union Ex.   ⟋ File

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☐   gas well ☒   other

2. NAME OF OPERATOR
   Dugan Production Corp.

3. ADDRESS OF OPERATOR
   Box 208, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 810' FSL - 810' FEL
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH:

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5. LEASE   NM 25454

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
   Piney

9. WELL NO. #2

10. FIELD OR WILDCAT NAME
    WAW Fruitland PC

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
    Sec 9 T27N R13W

12. COUNTY OR PARISH   13. STATE
    San Juan   NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
    5986' GL

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16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   ☐   ☐
FRACTURE TREAT   ☒   ☐
SHOOT OR ACIDIZE   ☐   ☐
REPAIR WELL   ☐   ☐
PULL OR ALTER CASING   ☐   ☐
MULTIPLE COMPLETE   ☐   ☐
CHANGE ZONES   ☐   ☐
ABANDON*   ☐   ☐
(other) _____

JUL 27 1983   NOTE: Report results of multiple completion or zone change on Form 9–33

RECEIVED   JUL 29 1983

OIL CON. SERV.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

                    PC
Plan to foam frac Fruitland Perfs 1393-1400', 1388-91', 1382-86'.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED   Thomas A. Dugan   TITLE Petroleum Engineer DATE 7-22-83

APPROVED

(This space for Federal or State office use)

JUL 28 1983

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

For JAMES F. SIMS
Area Manager
DISTRICT OIL & GAS SUPERVISOR

NMOCC

*See Instructions on Reverse Side

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-122
Revised 10-1-78

3 NMOCC, 1 EP, 1 File, 1 BLM

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test			Test Date
☐ Initial	☐ Annual	☒ Special	7-30-83

AUG 5 1983
OIL CON. DIV.
DIST. 3

Company	Connection
Dugan Production Corp.	

Pool	Formation	Unit
Fruitland P.C.	Pictured Cliffs	

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
9-7-82	1500'	1442'	5986'	Piney

Csg. Size	Wt.	d	Set At	Perforations:		Well No.
2-7/8"	6.5#		1477	From 1382	To 1400	2

Tbg. Size	Wt.	d	Set At	Perforations:		Unit	Sec.	Twp.	Rge.
				From	To	P	9	27N	13W

Type Well — Single — Bradenhead — G.G. or G.O. Multiple	Packer Set At	County
Single - Gas		San Juan

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. — P_a	State
				New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.62					X	

FLOW DATA / TUBING DATA / CASING DATA / Duration

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI									262		7 days
1.											
2.	2" meter run		1.250"	44	16"				50		24 hrs.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1							
2.	10.483	30	56	1.000	.9837	1.000	309
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ X X X X X X X X X X
Specific Gravity Flowing Fluid _____ X X X X X
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 274 P_c^2 75,076

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2	62	62	3,844	71,332
3				
4				
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2}$ = 1.0525

(2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^{n \cdot .85}$ = 1.0444

$AOF = Q \left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 323

Absolute Open Flow _____ 323 _____ Mcfd @ 15.025   Angle of Slope Θ _____   Slope, n _____

Remarks: Note Pw=Pt - friction negligable - This is new test after recompletion for well producing into sales line

Approved By Division	Conducted By:	Calculated By:	Checked By: