

dugan production corp.

April 13, 1984

Gilbert Quintana New Mexico Oil Conservation Division P O Box 2088 Santa Fe. NM 87501



Dear Gilbert:

As we discussed on the phone April 12th, I am attaching copies of our original application for downhole commingling on Dugan Production Corp.'s MF No. 3 and surface commingling for Dugan Production's Kinsale No. 1 and No. 2 and also the Five of Diamonds No. 2 and #2S. All three applications have been pending for some time and we appreciate your attention to this matter.

Regarding our application for downhole commingling on the MF No. 3, which is located in Sec. 14 of T-24N, R-10W, our application was originally submitted on April 7, 1982, and at the time of application, only the Dakota interval had been perforated 6067-6074 and 6245-6255 with an initial potential of 12 BOPD plus 15 BWPD and a GOR of 2500. At the time of this test (11-19-81), essentially no production had occurred and the potential test was based upon an 8 hour swab test. Also, since this well was some distance from a gas pipeline, we had not fraced the Dakota. The development of the Dakota formation at this location was very poor and water saturations were higher than normal for the Dakota in this area. Upon further evaluation, we determined that the perforations 6245-55 were likely responsible for the water production and thus, were abandoned with a cast iron bridge plug set at 6200' and capped with 50' of cement. We then fraced the Dakota perforations 6067-6074 and perforated and fraced the Gallup interval 5069-53341. Upon swab testing following the frac jobs, we recovered some oil and gas; however, it appeared that the well was making formation water and after further evaluation, it was proposed that the Dakota perforations 6067-6074' be abandoned with a cast iron bridge plug. (Ref. 9-28-82 letter from T.A. Dugan to Jim Sims) The well was shut in awaiting this remedial work; however, upon further evaluation, it was decided to production test the Dakota and Gallup intervals prior to doing any further remedial work in the Dakota. We installed a rod pump and pumping unit in the MF No. 3 during March, 1984, and placed the well on production 3-24-84, assuming that our application for commingling had been approved. Upon checking and discussions with you, we find that our application in fact had not been approved and thus, with the attached copy along with the discussion contained herein, we request that the Commission consider our application for administrative approval to commingle the Gallup and Dakota intervals as timely as possible.

Gilbert Quintana, NMOCD Page 2

I have made some notes on the attached copy of the application as initially submitted, to reflect data that is more current or that was not existent at the time of our application. As mentioned above, at the time of our application, we were expecting that the Dakota would be better than it actually was, and had not completed the Gallup. I am attaching a copy of the reported completions for the Gallup and Dakota as well as a copy of the C-116 for both zones, reflecting a production test taken on 4-11-84. Based upon the C-116 test, approximately 85% of the oil, 14% of the water and 80% of the gas is from the Gallup, while approximately 15% of the oil, 86% of the water, and 20% of the gas is from the Dakota. We proposed using these factors to allocate production in the future. As indicated by the total production from both zones being 5 BOPD, 3.5 BWPD, and 12.6 MCFGPD, this well is, at best, marginal. In addition to our application, I am attaching a copy of a letter from Tenneco wherein they waive objection to our proposed commingling as an offset operator. All offset operators were initially notified of our application.

As a matter of interest, there are 7 other wells in this immediate area that have previously been authorized to commingle downhole production from the Gallup and Dakota. These wells are all operated by Dugan Production and are the Big Eight No. 1E (0-8-24N-9W, 0rder R-6825), Holly No. 1 (L-16-24N-9W, 0rder R-7143), Merry May No. 1 (I-24-24N-10W), Order (I-19-24N-10W), Order (I-

Regarding our application for surface commingling of gas production from Dugan Production's Five of Diamonds Wells No. 2 and No. 2S, located in Sec. 10 of T-30N, R-13W, I have attached a copy of the application as submitted on 5-11-83 and also a copy of a letter from Michael Stogner returning our application unapproved on 5-27-83. I then discussed this matter with Frank Chavez on 6-28-83 and jointly with Frank and Michael on 8-5-83. Also attached is a copy of a letter dated 8-5-83 wherein Dugan Production resubmitted our application for surface commingling with some minor modifications in order to accommodate Michael's original objections. As a matter of interest, during 1983 production from the Five of Diamonds No. 2 averaged 10.7 MCFD and the Five of Diamonds No. 2S remains shut in.

Regarding our application for surface commingling of gas production from the Kinsale No. 1 (Undesignated Chacra) and the Kinsale No. 2 (Lybrook Gallup), both wells located in Sec. 26, T-23N, R-7W, I am attaching a copy of the application as submitted on 10-17-83, and have indicated a change that has occurred since our application. At the time of our application, both wells were qualified for Section 103 pricing; however, since our application, the Kinsale No. 1 has been certified Section 102. In order to more accurately allocate the commingled stream of gas between the two wells, Dugan Production would agree to install a standard meter run with a Barton dry flow meter on one of the two wells. As indicated in the original application, the commingled stream will be measured with a master meter maintained by Northwest Pipeline. In addition to our application,

I am attaching a copy of our 10-31-83 letter transmitting a letter from the BLM indicating they had no objection to this commingling. The Kinsale No. 1 produced a total of 268 MCF during 43 days of production during the latter part of 1983. (1st delivered 9-6-83) The Kinsale No. 2 was placed on production during May and during 90 days of production, a total of 1704 bbls. of oil plus 1511 MCF of gas was produced during 1983. Production during February 1984 averaged 6.2 BOPD plus 39 MCFD.

Should you need additional information or need to discuss any of these applications, please feel free to contact me. Thank you for your efforts.

Sincerely,

John D. Roe

John D. Roe Petroleum Engineer

fp

Attachments

cc: Frank Chavez, NMOCD, Aztec

SUBMIT IN DUPLICATE. UNITED STATES

DEPARTMENT OF THE INTERIOR

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

	GE	OLOGICAL	SURVEY	14,1	1	NM 16760	
WELL CON	APLETION C	OR RECOMP	LETION R	EPORT AN	D LOC	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
1a. TYPE OF WELL			DRY .		`	7. UNIT ACREEMENT N	IAME :
b. TYPE OF COMP	LETION:				:		
WELL XX	WORK DEEP-	BACK BACK	RESVR.	Other		8. FARM OR LEASE NA	ME
2. NAME OF OPERATO			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		;	MF	<u></u>
3. ADDRESS OF UPER	RODUCTION CO	RP.			<u> </u>	9. WELL NO.	
	208, Farmin	aton NM 8	7499			10. FIELD AND POOL, (OR WILDCAT
4. LOCATION OF WELL				State requiremen	ta)*	Bisti Lower	Gallup Ext.
At surface	850' FSL -	790 FFI			:	11. SEC., T., R., M., OR OR AREA	BLOCK AND SURVEY
At top prod. inte	rval reported below	, 50			i	C 14 TO4	N 010H
At total depth					. :	Sec. 14, T24	N, RIUW
•			14. PERMIT NO.		ISSUED	12. COUNTY OR	13. STATE
					-1-81	San Juan	NM
5. DATE STUDDED	16. DATE T.D. REAC	1				, ABB, MI, GR, EIC.)	EV. CASINGHEAD
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6300 1		6150'	TWO*	NY*		LED BY	- Charles
4. PRODUCING INTERV	,		1		: 	25.	WAS DIRECTIONAL
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6. TYPE ELECTRIC AL		1	4 (2-1)		1	27. WAS	NO NO
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ge <mark>l - 1203</mark> c	f. TOTAL S		cf.				
9.		NER RECORD	<u> </u>	<u> </u>	30.	TUBING RECORD	
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2					<u>:</u>	60,000# 20-40 san	<u>d + additive</u>
					;		
3.*:			PROI	UCTION			
ATE FIRST PRODUCTION	ON PRODUCT	ION METHOD (Flow			ype of pun		(Producing or
3-24-84	Р	umping			<u>;</u>	shut-in)	
ATE OF TEST	HOU'RS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS-MC	F. WATER-BBL. G.	AS-OIL BATIO
3-25-84	24			13	25	Bablist Ho	1923
LOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUB RATE	13	GAS—MCF.	6 .		VITY-API (CORR.)
4. DISPOSITION OF GA		el, vented, etc.)	13	25	<u> </u>	TEST WITNESSED BY	38.0 (est.)
	ugan Product		imes Gathe	erina Syste	m .		
5. LIST OF ATTACHM					- ;		-
			<u> </u>		.		
36. I hereby certify	V/ ¬ a	and attached infor	mation is comp	lete and correct a	s determine	ed from all available records	
SIGNED	Jon L	Your	TITLE	Geologis	t_	DATE4-	-13-84
7	/ lim/l	Jacobe					

NSTRUCTIONS

or both, pursuant to applicable Federal and for State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. and/or State office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

tem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State by Federal number of specime measurements.

In a specime measurements of the spaces on this form and in any attachments.

It which elevation is a reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval and interval and in item 24 show the producing interval or intervals ton(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, additional interval to be separately produced, showing the additional data pertinent to such interval or Federal office for specific instructions. for each

supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool, ion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) a separate completion report on this form for each interval "Sacks Cement": Attached Submit tem 29:

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U.S. COVERNMENT PRINTING OFFICE 043-18-83828p-1

dugan production corp.

d_p

September 28, 1982

SEP 30 1982

U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

Mr. James Sims Minerals Management Service Drawer 600 Farmington, NM 87401

RE: Lease No. NM 16760 - Your Letter of September 23, 1982 Dugan Production Corp. MF #3 Well SE/4 Sec. 14 T24N R10W San Juan County, NM

Dear Mr. Sims:

This well was originally completed as a small oil well in the upper zone (6067-74 and 6245-55, Dakota). We did not frac that zone at that time because we were waiting to get a gas line to this well. We did succeed in getting a line to the MF #3 and MF #4. At that point we stimulated the Dakota and Gallup zones in August 1982. We swabbed, and began getting water with small amounts of hydrocarbons. Water analysis indicates that it is coming from the Dakota zone. Therefore, we want to permanently plugback the Dakota and complete this well in the Gallup zone.

Enclosed for your convenient reference is a complete set of our daily reports on this well, including the swabbbing reports after the Dakota and Gallup stimulations. Also enclosed is a copy of the Gallup C-102.

Sincerely,

Thomas A. Dugan

fp

Encl.

5 MMS, Fmn

2 MF 1 File

Form Approved.

Dec. 19/3		Budget Bureau No. 42-R1424
UNITED STATES		5. LEASE
DEPARTMENT OF THE INTE	RIOR	NM 16760
GEOLOGICAL SURVEY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
CUNDDY NOTICES AND DEPORT	C ON WELLC	7. UNIT AGREEMENT NAME.
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or		
reservoir. Use Form 9-331-C for such proposals.)	piog book to a different	8. FARM OR LEASE NAME
1. oil gas G		MF 64 1 F 634
well U well U other Comming!	ed/ Ap pending	9. WELL NO.
2. NAME OF OPERATOR DUGAN PRODUCTION CORP.		10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR		Bisti Gallup
P O Box 208, Farmington, N	· · · · · · · · · · · · · · · · · · ·	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLE	ARLY. See space 17	AREA TO AN INCIDENTAL AND
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AT TOTAL DEPTH: .		14. API NO. = = = = = = = = = = = = = = = = = = =
6. CHECK APPROPRIATE BOX TO INDICATE N	ATURE OF NOTICE,	
REPORT, OR OTHER DATA		15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUE	NT REPORT OF:	6848' GL; 6860' RKB
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17. DESCRIBE PROPOSED OR COMPLETED OPER	ATIONS (Clearly state	e all pertinent details, and give pertinent dates, irectionally drilled, give subsurface locations and
measured and true vertical depths for all market	ers and zones pertinent	it to this work.)*
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Request permission to plu	g back Dakota p	perfs (6067-74) by setting a
		60' cement on bridge plug with
adump bailer. This would	be a permanent	plug.
Then plan to set a numping	a unit and prod	luce the Gallup Formation only.
		l and fraced per sundry notice
of 9-16-82.		55±
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IGNED TOMAS A. DUGAN		DATE
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DISTRICT ENGINEER	OPERATOR	불통실회 등 분정할 수 있다.
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5 MMS, Fmn

2 MF l File

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	NM 16760
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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.)	7. UNIT AGREEMENT NAME.
1. oil gas other Commingled/ Ap pending	8. FARM OR LEASE NAME MF
2. NAME OF OPERATOR	9. WELL NO.
DUGAN PRODUCTION CORP.	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P O Box 208, Farmington, NM 87401	Bisti Gallup & Basin Dakot 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	AREA 5.55 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
AT SURFACE: 1850' FSL - 790' FEL AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE San Juan
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	6848' GL; 6860' RKB
TEST WATER SHUT-OFF	Tecan bar In 2 year All class All casts All ca
REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* Gother) XX	(NOTE: Report results of multiple completion oszone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinent	rectionally drilled, give subsurface locations and to this work.)*
See attached for plugback of one set of D Dakota frac (6067-74) Gallup perfs (5069-5334) Gallup frac 2-3/8" tubing	of aferogeny to the individual state of the united to the united to the united to the united and
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Subsurface Safety Valve Many, and Type	
18. I hereby activity that the loregoing is true and correct	noon 0.16.02
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SEP 2 8 1982	RATOR
FARMINGTO!! DISTRICT	afalo Golda Ele

*See Instructions on Reverse Side

DUGAN PRODUCTION CORP.

MF #3

Recompletion

8-19-82 Tubing 270 psi. Opened well up. Tried to flow. Mostly oil. Swabbed tubing. Fluid level at 1100'; oil down to 3300'. Water down to 6000'. Well gassing most of time. Shut in.

8-21-82 R.U. Geosource

Set bridge plug at 6200'. Ran dump bailer - dumped 50' cement atop plug. PBTD 6150'.

R. U. Western Co. to Frac Dakota.

6300 gal. 20# X-link gel pad.

5000 gal 20# X-link gel w/l#gal 20-40 sd.

5000 gal 20# X-link gel with 1½#/gal 20-40 sd.

3750 gal 20# X-link gel with 2#/gal 20-40 sd.

Flushed to top perf (6067') w/fresh water.

Gel water contained 1680 gal. lease crude, 24 gal Aquaflow, 25# B-5. Total sand - 20,000 lbs. 20-40. Treating Volume (fluid) 20,034 gals. Mini Max - III.

4000 psi max treating pressure controlled pumping rate between 7 and 17 BPM thru-out treatment. ISDP 2600 psi. 15 min. S.I. 1750 psi. Max 4100. Min 3750. Waited four hours for gel to break w/ well shut in.

R. U. Geosource to perforate Gallup fmtn. w/total 35 holes:

5328-34 ls/2F - 6 feet - 3 holes 5258-64 ls/2F - 6 feet - 3 holes 5200-5214 ls/2F - 14 feet - 7 holes 5178-82 ls/2F - 4 feet - 2 holes 5164-70 ls/2F - 6 feet - 3 holes 5125-31 ls/2F - 6 feet - 3 holes 5096-5114 ls/2F 18 feet - 9 holes 5069-79 ls/2F - 10 feet - 5 holes

(Continued)

8-21-82 R. U. Western Co. to slickwater frac the Gallup. (Cont.)

Pumped 7,500 gal. slickwater pad 15,000 gal slickwater w/ 1#/gal 20-40 sand 30,000 gal slickwater w/ 1½#/gal 20-40 sand Flushed to perfs w/ slick water.

All water w/ 1 gal/1000 Aquaflow & $1\frac{1}{2}\pi/1000$ gal FR-2

Total fluid volume - 52,500 gal Total sand - 60,000# 20-40 sand

This pumped at 40 BPM and pressure ranged from 1700 initially to 1350 w/ 1.5# gone.

10,000 gal into $1\frac{1}{2}$ # - dropped 5 ball sealers and got 150 psi ball action; also at 14,000 gal, 18,000 gal, 20,000 gal & 24,000 gal. into $1\frac{1}{2}$ #/gal sand. Dropped 5 ball sealers with similar results. Total 25 ball sealers.

ISDP 350 psi Max 2100 psi 15 min SI 350 psi Min 1200 psi

- 8-22-82 Shut down Sunday
- 8-23-82 Opened well up. Flowed back strong for 30 min. to 1 hour. Went in hole with tubing. Tag sand at 5907'. P.O.H.
- 8-24-82 G.I.H. with Baker Hydrostatic bailer. Cleaned out 80' sand. T.O.H. Dump sand. T.I.H. Clean out sand to 6150'. T.O.H. Dump sand. T.I.H. Land tubing as follows: 192 jts. 2-3/8" O.D., 4.7#, J-55, 8RD, EUE tubing. T.E. 6070.68' set at 6078' RKB. Seating nipple at 6041' with tubing bull plugged on bottom. N.D. BOP. N.U. well head. Released F.W.S.

DUGAN PRODUCTION CORP. MF #3

- 8-25-82 MI & RU Hinson Service Swabbing unit. Casing pressure zero. Fluid level at 600' at start of day. Made 17 swab runs. Estimated 250 bbls frac water. Fluid level at 1600'. Casing pressure 25 psi,
- 8-26-82 Casing pressure 25 psi. Tubing pressure TSTM. Fluid level at 1460' at start of day. Made 21 swab runs to pit. Estimated 180 bbls. frac water. Oil percentage becoming approx. 10%. Made 4 runs to tank. Total of 35 bbls., est. 2 bbls. oil. Casing pressure at end of day 25 psi. Fluid level at 3200'. Good show of gas ahead of swab and all fluid gas-cut.
- 8-27-82 Casing pressure 45 psi. Tubing pressure TSTM. Fluid level at 2100' at start of day. Made 5 runs to pit and 16 runs to tank. Estimated 180 bbls. total fluid 8 bbls. oil and 172 bbls. water. Casing pressure at end of day 80 psi and fluid level at 3500'.
- 8-28-82 Casing pressure 100 psi. Fluid level at 2500'. Made 6 swab runs to pit and 15 runs to tank. Casing pressure at end of day 175 psi. Fluid level at end of day 3700'. Swabbed estimated 175 bbls. fluid 98% water. Caught water sample to get analysis to check for formation water.
- 8-29-82 Sunday did not work
- 8-30-82 Initially SICP + 250 psi. Fluid level 3200'. Had Hinson's rig over hole to swab. Made six runs and recovered ±8 bbl/run salty water with traces of oil. Finally SICP was 225 psi. Fluid at 3800'. Shut in well to build up. Moved the rig over to the Rodeo Rosie #1.
- 9-30-82 MI & RU Hinson Service Co. swabbing unit. Tubing pressure 25 psi. Casing pressure 350 psi. Fluid level at 2200'. Made 17 swab runs. Estimated 10 bbls. with very slight show of oil and gas. Casing pressure at end of day 275 psi.

Tenneco Oil **Exploration and Production** A Tenneco Company

Rocky Mountain Division

P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800 Delivery Address: 6061 South Willow Drive Englewood, Colorado

April 20, 1982

Dugan Production Corporation P. O. Box 208 Farmington, NM 87401

Attention: J. McHugh Jr.

MF #3, #4

Section 14, T24n, R10W San Juan County, New Mexico

Gentlemen:

Tenneco Oil Company does not object to your proposed commingling of gas production in the two above referenced wells.

Very truly yours,

TENNECO OIL COMPANY

J. M. Thibeaux

Division Petroleum Enginerr

JMT:RdC:pe

OIL CONSERVATION DIVISION 1-C-116 file ENERGY NO MINERALS DEPARTMENT 1-Well File STATE OF NEW MEXICO 2-NMOCD, Aztec

SANTA FE, NEW MEXICO 87501

Form C-116 Kevised 10-1-78

GAS-OIL RATIO TESTS

	Š	an Juan			
Schodules		Completion [XX]	XX	ङ	
<u> </u>		980	3	1 =	GAS - CIL
PRESS. ABLE	TK & T HOUAS	WATER C	CRAV. CIL	CAS R.C.F.	RATIO CU.FT/BBL
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	<u>.</u>	I herek	y cenify	that the abov	re information
eding the top unit allowable for the pool in which well is		is true and completed	nd comple	te to the bes	t of my know-
Schrouled BG, ALLOW- ESS. ABLE		Conglete Conglete PRO 1/2 38 1 heret is true as		certify comple	The TEST CAS

Cas volunes must be reported in NCF measured at a pressure base of 15,025 pala and a temperature of 60° P. Spetilia gravity base *.11 be 0.63.

Report coung pressure in lieu of tubing pressure for any well producing through easing,

Mail critical and one copy of this report to the district office of the New Mexico Oil Conservation Division is secondance with End appropriate paol rules.

Production Report Supervisor

OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO 87501 P. O. BOX 2084 1-C-116 file ENERGY AND MINERALS DEPARTMENT 1-Well File STATE OF NEW MEXICO 2-NMOCD, Aztec

Form C-116 Revised 10-1-72

L Sens Conception V San Juan County GAS-OIL RATIO TESTS TYPE OF TEST - (X) Dakota Basin 700 87499 .Box 208, Farmington, NM DUGAN RPODUCTION CORP. 13167 :

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	u X		LO 0.	LOCATION	-	1 4 0		ע ע כ	ن ا	DAILY		Q .	PROD. DURING	ר איניט	TEST	GAS - CIL
LEASE NAME	NO.	כ	s	*	Α	TEST	11416	SIZE		•	TKST MOURS	WATER BBLS	CRAV.	01L 08LS	CAS. M.C.F.	RATIO CU.FT/BEL
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Duing garyil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned. Car volumes must be reported in MCF measured at a pressure base of 15,025 pala and a temperature of 60° F. Specific gravity base No well will be assigned an allowable greater than the amount of oll produced on the official teat. increased allowables when authorized by the Division.

-.11 be 0.60.

Hail critinal and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rie 131 and appropriate pool rules.

Report count pressure in lieu of tubing pressure for any well producing through casing.

I hereby certify that the above information is true and complete to the best of my know-

ledge and belief.

Production Report Supervisor (Tide)

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Form 9-330 (Rev. 5-63)	ţ	0 0565, rmi	n Zam D STATES		IF IN DUPLI	E• .	 F	form approved.	746
	DFPAR ⁻		F THE IN		R (Se	erin-		Budget Bureau No. 42-R355.5.	
			AL SURVE		reve	erse side)	l	SIGNATION AND SERIAL NO.	
WELL 60	LADI ETION	OR RECO	MDI ETIONI	DEDODT	ANDIO	C *	NM 16760	ALLOTTEE OR TRIBE NAME	;
IN TYPE OF WEL	MPLETION			REPORT	AND LO	<u> </u>			
	WEI	LL GAS X	X DBT	Other			7. UNIT AGRE	EMENT NAME	
L TYPE OF COM	WORK DEE	P- PLUG BACK	DIFF.	Other			S. FARM OR I	LEASE NAME	
2. NAME OF OPERAT		- Jack C		Other			MF		
	PRODUCTION	CORP.	. د ه همید <u>د است</u>	· · · · · · · · · · · · · · · · · · ·	·		9. WELL NO.	- 4	
3. ADDRESS OF OPE. P O BO.	_{rator} x 208, Fari	mington, NI	4 87401	i i i i i i i i i i i i i i i i i i i	الله المستعدد والمان المعنى للوأان		3 10 FIELD AN	D POOL, OR WILDCAT	
4. LOCATION OF WE	LL (Report location	on clearly and in	accordance with a	- 1	rementa)*		Basin Da		
At surface	1850' FSL	- 790 FE	L	j		77. 4	OR AREA	L., M., OR BLOCK AND SURVEY	
At top prod. int	erval reported be	low			120 00 1	201	Sec. 14	T24N R10W	
At total depth				+	Totaleka os i	SURVEY	3ec 14	IZAN KIUW	
:			14. PERMIT N	0.	DATE ISSUED	N. M.	12. COUNTY O	R 13. STATE	•
15	E 72 3		E COMPL. (Ready	to grad \ l	9-1-8		San Juay	19. ELEV. CASINGHEAD	
10-5-81	10. DATE 7.0. E		1-19-81	10 prod.) 18	6848 6848		T, GR, ETC.)	15. ELEV. CASINGBEAD	
20. TOTAL DEPTH, MD	1	Q, BACK T.D., MD &	TVD 22. 15 MU	LTIPLE COMPL	, 23. INT	ERVALS	ROTARY TOOL	S CABLE TOOLS	
6300'		6260'	HOW	sin sin	gle	LLED BY	TD		
24. PRODUCING INTER		_	P, BOTTOM, NAME	(MD AND TVD)	-			25. WAS DIRECTIONAL SURVEY MADE	
6245-55, 6	067-74, Dal	kota						NO	
26. TYPE ELECTRIC A	ND OTHER LOGS B	RUN	· · · · · · · · · · · · · · · · · · ·					27. WAS WELL CORED	
IES, CDL,	GR-CCL	· · · · · · · · · · · · · · · · · · ·			·. '			NO	
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							stage		•
		I INTERNATION			<u> </u>		Winner and		
29.		BOTTOM (MD)	SACKS CEMENT*	SCREEN (M	30. D) SIZE		CBING RECO		
None				- <u>`</u>	13"		6039'	6039'	
31. PERFORATION REC	ORD (Interval, siz	e and number)		82.				SQUEEZE, ETC.	
COME EE 1	O holos				TERVAL (MD)			OF MATERIAL DEED	
6245-55, 1 6067-74,	7 holes			6067-6	- :	250 9	10 WCI 1D	CL, no frac	
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33. DATE FIRST PRODUCTI	ON PRODU	CTION METHOD ()	PRC Flowing, gas lift, 1	DUCTION	and type of ou	ma)	. 1 write	TATUS (Producing or	
		swabbin					shut		
DATE OF TEST	HOURS TESTED	CHOKE BIZE	PROD'N. FOR	OIL-BBL.	GAS-M	cr. /day	WATER-BEL.	GAS-OIL BATIO	
11-19-81	8	none	<u> </u>	4		30	5	2500	
FLOW. TUBING PRESS.	Packer	E CALCULATED 24-HOUR RAT	12 OIL—BBL.	GA8—	and the second second	WATER-	BBL.	OIL GRAVITY-API (CORR.) 49°	
34. DISPOSITION OF GA	As (Sold, used for	fuel, vented, etc.)		···		1	TEST WITNESS	Dugan	
35, LIST OF ATTACHS	ENTS	\sim			· · · · · · · · · · · · · · · · · · ·	1	- · · · · · · · · · · · · · · · · · · ·	Duyun -nc 11	
36. I hereby certify	that the foresoln	and attached to	formation to com	niete and over	ort as date-mi-	ad from	ll ovellable es	The full lieithing	
SIGNED _	V. A.	Wush	<u> </u>		Engineer		U. (. (.)	12-22-81 ⁶²	
Sioner -	7 Thor		211				DATE	<u> </u>	
•	*(See	Instructions ar	nd Spaces for A			erse Side		ARWING ON DISTRICT	
		V	^.	~ C ~ T ~ F	•		t		

OPERATOR

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal

and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

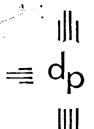
It there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Hems 22 and 24: It this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only, the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

		TRUE VEST. DEPTH							· · · · · · · · · · · · · · · · · · ·								- ,	•		•	
GEOLOGIC MARKERS	TOP	MEAS. DEPTH TR	 1292	887	1170'	1575'	1756	1923	3032	3084	3940	: 4217'	4810	5958	6033	,9909					
88. GEOLOGI		AAME	Ojo Alamo	Kirtland	Fruitland	Pictured Cliffs	Lewis Shale	Chacra	Cliff House	Menefee	Point Lookout	Mancos	Gallup	Greenhorn	Graneros	Dakota					
ESTS, INCLUDING							* 1												7	-	
B THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING IN, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.																				
COSITY AND CONTENT	BOTTOM		 •								,										
MARY OF POROUS ZONES: hilow all important zones of porositt and contents thereof; depth interval rested, cushion used, time tool open, flowing	TOP						-				-	:				. . .	 	-		-	
87. SUMMARY OF POROUS ZONES ALL IMPORTANT ZONES CORP. DEPTH INTERVAL TESTED, CUS.	FORMATION		•						**							ĥ	*	•	-		



dugan production corp.

April 7, 1982

Joe D. Ramey New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, NM 87501



Re: Application for Downhole Commingling

MF #3 Well

Basin Dakota Pool and Undesignated Gallup Pool

T-24-N, R-10-W, NMPM

Sec. 14: NE/4 SE/4

San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed please find duplicate copies of the above referenced Application for Downhole Commingling which we would like to have administratively approved under Rule 303-C.

The criteria for commingling under Rule 303-C would require the well to be completed dually and each zone tested separately. However, we feel that we can forego this requirement on the grounds that data collected from nearby wells imply that the criteria will be met by the subject well. This would save the costs of a dual completion, the additional separator and meter, and the pump which would be required. Our experience in the area indicates that the production from both the Basin Dakota and the Undesignated Gallup formations in this well would be marginal. Gas chromatograph analyses of the Sixteen G's #1 Well, (Unit letter E, Sec. 7, T24N, R9W) (Undesignated Gallup formation) and the MF #1 Well, (Unit letter L, Sec. 18, T24N, R9W) (Basin Dakota formation) indicate that these flow streams will be miscible.

Also, our successful commingling of these zones in nearby wellbores shows that the liquid flowstreams are compatible and mutually non-damaging to their counterpart zones. This experience also serves to show that, in this area, there is not enough pressure disparity at the flowing conditions to create a crossflow problem. The commingling of the zones further will facilitate the production of the Undesignated Gallup zone by the device of gas lift. The mixture of the Dakota gas and Gallup effluent will be lighter than the Gallup fluids alone. This will allow production from the Gallup without the need for a pump, lower operating costs, extend the production until abandonment and prevent waste.

Kod Pump Tristalled -

New Mexico Oil Conservation Commission March 31, 1982 Page Two

In this case, the price for which the production will be sold is not the same for the two zones. The Basin Dakota formation has been designated a Tight Gas Sand in this area, and the price for the Dakota gas will be twice that of the Gallup gas. By the use of an appropriate allocation formula, we can be sure that the value of the commingled production will not be less than the sum of the values of the individual streams.

There is a common ownership of the two zones, and the distribution of royalties is the same for both zones. For this reason, there is no danger to correlative rights which would arise from the commingling of the zones in this wellbore.

We have notified all off-set operators and/or lessees of surrounding federal leases of the proposed downhole commingling application.

We trust that all is in order for this application. If there are any questions concerning this matter, please feel free to contact either of us.

Sincerely.

Landman

Engineer

JM/EE:nw

Frank Chavez cc: New Mexico Oil Conservation Commission 1000 Rio Brazos Rd. Aztec, NM 87410

RIOW N.M.R.M	Tenneco Oil Gulf Oil Chevron USA 3 Company Maserues Group 58 H.B.P.	Dugan Production No. 4 MF ** No. 4 MF ** NM 45210 - 1-3 May 5210 - 1-3 May 16760	R.K. Cramer Whleased Federal Expired Expired Expired NM 30019
T24N-	Application. not open for leasing Unleased Fed. No		0

DUGAN PRODUCTION CORP. MF #3 NE/4 SE/4 Sec 14 T24N R10W San Juan County, NM

Proration Unit: S/2 Sec 14 T24N R10W APPLICATION FOR DOWNHOLE COMMINGLING

Offset Operators

Township 24 North Range 10 West

Section 13:

NW/4 Supron Energy Corp. SW/4 Dugan Production Corp. N/2 Dugan Production Corp. Section 14:

E/2 Tenneco Oil Co. Section 15: NE/4 Dugan Production Corp. Section 22:

N/2 R.K. Cramer Section 23: Section 24: NW/4 Unleased Federal - Expired

The following information shows a segment of the decline curves from the MF #1 Well, Unit letter L, Sec. 18, T24N, R9W, a Dakota producer, and the Sixteen G's #1 Well, Unit letter E, Sec. 7, T24N, R9W, an Undesignated Gallup producer. This will serve as a prognostication of future production from these zones in this area, and as an example of their relative productions, for use in arriving at an allocation formula.

For eight months, from June, 1981 until January, 1982, both the Sixteen G's and the MF #1 Wells were producing. For this period the average contribution of the Gallup well to the total production of both wells was 85.66% of the oil and 12.47% of the gas.

Two other wells in the same area are producing the commingled fluids from these zones. The July Jubilee #1 Well, Unit letter G, Sec. 30, T24N, R9W, has the gas allocated 90% to the Dakota and 10% to the Gallup, while the oil is allocated 10% to the Dakota and 90% to the Gallup. The Merry May #1 Well, Unit letter I, Sec. 24, T24N, R10W, has the gas allocated 85% to the Dakota and 15% to the Gallup. The oil from this well is allocated 15% to the Dakota and 85% to the Gallup.

Using this data as a guideline, we feel it would be appropriate to allocate the gas production from the July Jubilee #2 Well 85% to the Dakota and 15% to the Gallup. Since the oil is all valued the same, its allocation here is not critical, and the allocation of 15% of the oil to the Dakota and 85% to the Gallup should be acceptable.

DALOFO PENS 6067-6074 + 6245-6255' Completed 12/19/81

MIP = 1280PO+1580PO of GOR=2500'. No MATOR

Stimulation done e time of IP.

8/82 - 150/Ated DALOFA PENS 6265-55' Me1BP & 6200'

M50' cement:

FRAL DALOFA PENS 6067-74

Pent + FRAL GA/INP PENS 5069-5334'.

Swab DAKOTA + GA/INP PENS 5069-5334'.

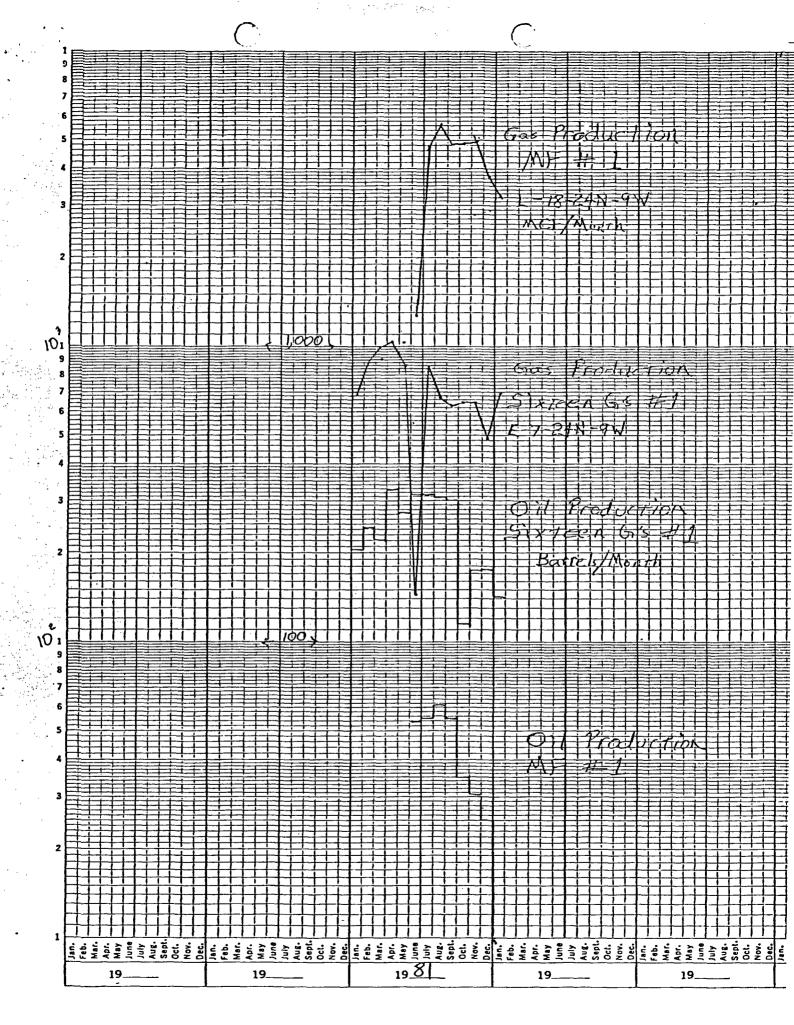
Some oil + PAS.

Shat in Evaluating.
3/84 - 1N5 fallod Rod Pump to PROduction fort.

C-1/6 faten BOPD BUPD MIED GOR

GA/INP - 4.25(852) 0.50(122) 10:10(802) 2376

DALOFAC 5.0 3.50 12.60



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ETHANE PROPANE	6.56 2.62	1.753 .721
ISU-BUTANE	.57	.186
NORM-BUTANE	.72	-227
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HEXANE PLUS	.45	.210
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MIXTURE HEATING VALUE

(ETU/CF AT 14.73 PSIA, CO DEGREES, DRY) 1,479

1.257 KATTO UF SPECIFIC HEATS

NO TEST SECURED FOR HZS CUNTENT

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During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit alloweble for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned. Increased allowables when authorized by the Commission, No well will be assigned an allowable greater than the amount of oil produced on the official test.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 pain and a temperature of 60° F. Specific gravily base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing,

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above informative true and complete to the best of my knotedge and belief.

Signature)
Production Superintendent

(Title) 12-30-

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DUGAN PRODUCTION CORP.	P O Box 208, Farmington, NM	LEASE NAME	L MASM NAMM	July Jubilee	•	-				T. C.		No well will be assigned an allowable greater than the amount of ol
Address		•		י ענשט					(•		

I hereby certify that the above in is the and complete to the best of ledge and belief. During associal ratio test, each well shall be produced at a rate not excreding the top unit allowable for the nool in which well is increased by more than 13 percent. Operator is encouraged to take advantage of this 25 percent toterance in order that well can be assigned. Increased allowables when subbrised by the Commission.

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Report cosing pressure in lieu of tubing pressure for any well producing through casing.

Mail eriginal and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Auto 301 and appropriate pool rules.

Thomas A. Dugansison, M. Petroleum Engineer ...

10-12-811:

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