



SHELL OIL COMPANY

PETROLEUM BUILDING
P.O. BOX 1509
MIDLAND, TEXAS 79701

FEB 15 1979

Subject: Application for Downhole Commingling
for Shell State JM Well No. 1, Unit
Letter B Located 660' FNL & 1980'
FEL Section 2, T-25-S, R-37-E, Lea
County, New Mexico, Justis Field

Energy & Minerals Department
Oil and Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company respectfully requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Blinebry and Drinkard pools in its State JM Well No. 1, located in Unit B of Section 2, T-25-S, R-37-E, Lea County, New Mexico.

The subject well is presently flowing 12 BOPD and 13 BOPD respectively from the Blinebry and Drinkard pools. Both of these zones are in a declining state. We plan to pull present dual production strings and produce through a single 2 3/8" tubing string by means of a beam pump.

Production from the Blinebry and Drinkard formations has been surface commingled at the State JM tank battery for a number of years without any indication of fluid incompatibility. Since the crudes are commingled at the tank battery before being sold, no difference in value should result by commingling within the wellbore of the subject well.

Static BHP tests have been taken on both zones and are as follows:

Blinebry - 46 hr SIEHP - 305 psi
Drinkard - 47 hr SIEHP - 332 psi

A copy of this application is being sent to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,

Original Signed By
R. A. LOWERY

For: W. T. Weller, Jr.
Operations Manager-Midland
Mid-Continent Division

JWH:JAH

Attachments

cc - Offset Operators (per attached list)

- New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, NM 88240

OFFSEI OPERATORS

SHELL STATE JM LEASE
JUSTIS FIELD
LEA COUNTY, NEW MEXICO

AMERADA HESS CORPORATION
DRAWER 817
SEMINOLE, TX 79360

E. C. HALE
BOX 763
HOBBS, NM 88240

GETTY OIL COMPANY
P. O. BOX 1231
MIDLAND, TX 79702

TEXACO, INC.
P. O. BOX 3109
MIDLAND, TX 79702

Depth D	Time	Press., P, psig	ΔP	Static Test		
				ΔD	Gradient	
0	46 hrs	156				
5500	↓	271	115	5500	.0209	
5600		305	24	100	.34	
Time	Press. @ _____ ft	Build-up test		Tubing Press.	Casing Press.	Height of Fluid
		Δt hrs	$\frac{t}{\Delta t} + 1$			
No Buildup Index						

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

K 12A

3- Y. M. Nguyen - 706
1- Cy Jones - 4005
1- J. Rouch

Company Shell Oil Company
Lease IM Well No. 11
Field Justis State N MEXICO
Test Date 1-5-79

Producing Formation	DRINKARD
Elevation (CHF, DF, KB, etc.)	51
Datum _____ subsea, or	21
Tubing Obstruction at	SN @ 5846'
Production Packer at	5847'
Perforations	—

Instrument Data

Company Running Survey
Element—Range & No.
Clock — Range & No.
Calibration Date

Static Pressure Data

Test Depth	5800	ft
Pressure at Datum (<u>5800</u>) *	332	psig
Shut--in Time	47	hrs
P _i at Datum	---	psig
Shut--inTubing Pressure	273	psig
Shut--in Casing Pressure	---	psig
Top of Oil	---	
Top of Water	---	
Temperature at _____ feet	---	°F
Date of Last Test		
Pressure @ Datum, Last Test	UNKNOWN	psig
Shut--in Time, Last Test		

Flow Test Data

Test Date	_____	_____	_____
Choke Size	_____	_____	in
Period of Stabilized Flow	_____	_____	hrs
Stabilized Production (q)	_____	_____	
Oil	_____	_____	bbls/day
Gas	_____	_____	MCF/day
Water	_____	_____	bbls/day
Flowing Tubing Pressure	_____	_____	psig
Flowing Casing Pressure	_____	_____	psig
Cumulative Production (Q)	_____	_____	
Oil	_____	_____	bbls
Gas	_____	_____	MCF
Water	_____	_____	bbls
Effect. Prod' Life, $t=24 Q/q$	_____	_____	hrs

Remarks:

Depth D	Time	Press., P, psig	ΔP	Static Test		
				ΔD	Gradient	
0	47 hrs	273				
5700	↓	326	53	5700	.009	
5800		332	6	100	.06	
Time	Press. @ _____ ft	Build-up test		Tubing Press.	Casing Press.	Height of Fluid
		Δt hrs	$\frac{t}{\Delta t} + 1$			

SHELL STATE JM No 1
(COLINEBRY)

OIL

WATER

18 19 20 21 22 23 24 25 26 27

SHELL STATE JIM NO. 1
(CRINKARD)



