SEP 1 4 1979

Shell Oil Company



P.O. Box 991 Houston, Texas 77001

2010 = 302 Due = 10/3/01

New Mexico Oil Conservation Commission P. 0. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

SUBJECT: APPLICATION FOR DOWNHOLE COMMINGLE SHELL SARKEYS WELL NO. 4 UNIT LETTER N, LOCATED 660' FSL AND 1980' FEL OF SECTION 23, T21S, R37E LEA COUNTY, NEW MEXICO

OIL CONSERVATION DIVISION SANTA FE

Shell Oil Company respectfully requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Drinkard and Brinebry pools in Shell Sarkeys Well No. 4 located 660' FSL and 1980' FEL, Unit Letter N of Section 23, T21S, R37E, Lea County, New Mexico.

a^X

The subject well is currently being produced dually. The two zones are being commingled at the battery by New Mexico Oil Conservation Commission Order No. PC-187.

Both the Drinkard and Blinebry are in a steady state of decline. When downhole commingling is approved, we propose to install artificial lift to more economically and efficiently produce both zones.

A copy of this letter has been sent to all offset operators by certified mail to serve as proper notification.

Yours truly,

a.j.=

For. R. L. Easterwood Production Administration Manager, Mid-Continent Division

SH:LN

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Battom jef 6423 Bl 680 1570 265 auf 8670 Dr 2 25 44

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Continental Oil Company, P. O. Box 1377, Roswell, New Mexico 88201 Gulf Oil Corporation, P. O. Drawer 1938, Roswell, New Mexico 88201 J. R. Cone, 209 Turner Drive, Hobbs, New Mexico, Attention Mr. L. O. Storm (88240)









WR-3309 (REV. 2-77/DJR)

SHELL OIL COMPANY 1- D.J. Louch SUBSURFACE PRESSURE SURVEY

Company Shell Oil	Company		r	·····		.	
Lease Sarkun	Nell No. 4	Depth	Time	Press.		Sta	tic Test
Field Dinkard State New Merico				P. psig		ΔD	Gradient
Test Date &/>4/79			48.5	350.1	-{	<u> </u>	
····· ,··· ,	•		,		1	1.1.0	0.0
	Ne here i	K-187		<i>412.1</i>	62.6	6189	.0/0
Producing Formation	- arinkaia	6784	\checkmark	416.1	3.4	100	.034
Elevation (CHF, DF, KB, etc.)	5406 10F1	*	•	L 17	1 02.	1 .1	
Datum $- 2/00$ subsea, or	Datum $-3/00$ subsea, or -306 (Dr)		projectio	to dation i	y. 039	pu/	× .
Tubing Obstruction at	1.30 31 - 0305		Press	Build—up test			Height
Production Packer at		Time	a		Tubing	Casing	of
Perforations			ft	hrs $\Delta t + 1$	Press.	Press.	Fluid
						<u> </u>	
Instrument Data							
Company Rupping Support	Shell all Co.		-7.		1		
Signart - Range & No	2300 Ari - 438.30		1/0	lendup	Vake	<u>م</u>	
Clack - Race & No.	3h - 1388A					ļ'	
Calibration Date	\$11/79						
				€			
Static Pressure Data					1		
Test Depth	6289 tt						
Pressure at Datum (206)	423.5 psig						
Shut—in Time	48.5 hrs						
Pi at Datum	psig	<u>├</u>					
Shut-inTubing Pressure	350.1 psig				1		
Shut-in Casing Pressure	psig				1		
Top of Oil							
Top of Water	<u> </u>				<u> </u>	I	
Temperature at feet	°F	├ ───┤			 		
Date of Last Test	- XIAN						
Pressure (2) Datum, Last Test	NQUL psig				1		
Shut-in Time, Last Test							
Flow Test Data	1				ļ		
Test Date		┝╍╍╍╌╂					
Choke Size	in	<u>├──</u> `}					
Period of Stabilized Flow	hrs						<u> </u>
Stabilized Production(q)					[]		
0ii liO	bbis/day						
Gas	MCF/day	}ł					
Water	bbls/day				╂────┤		·····
Flowing Tubing Pressure	psig				<u>├</u> ───		
Flowing Casing Pressure	psig						
Cumulative Production (Q)	\	ļĪ			ļ]		
Oil	bbls	┝───┨			 		·
Gas	MCF				<u> </u>		
Water	bbls	<u>├</u> {			┟╼───┤		
Effect_ Prod' Life, t=24 Q/q	<u> </u>						
Remarks:		┝───-┠			┞┈╼───┤	<u> </u>	
	- 1 .	┝━━━━╋			┞────┤		

WR-3309 (REV. 2-77/DJR) SHELL OIL COMPANY 1- D.g. Houch SUBSURFACE PRESSURE SURVEY

Company <u>Shell Oil Company</u> Lease <u>Surkey</u> Well Nor <u>4</u> Field <u>Drinkard</u> State <u>New Menco</u> Static Test Depth Time Press., ΔΡ D P, psig ΔD Gradient 8/24/79 0 Test Date 47.5 308.4 54.5 5729 .0095 5724 362.9 Blinibry 3406 (DF) 5656 (DE) Producing Formation 5879 365.2 2.3 100 .023 Elevation (CHF, DF, KB, etc.) * 3Hp projected up to datur w/. 023p 1.ct Datum -2250 subsea, or 1.50" SAC 5853 Tubing Obstruction at Build-up test Press. Height 6.310 Production Packer at Tubing Casing Time **@** Δt of t Perforations Press. Press. + 1 hrs Δt Fluid ft Instrument Data <u>Shill Oil Co.</u> 2300pii - 8383J Company Running Survey hen m Element-Range & No. Clock - Range & No. 8/1/79 Calibration Date Static Pressure Data ft 5829 Test Depth 361.2 psig Pressure at Datum (56) \star hrs Shut-in Time psig Pi at Datum ZNX. psig Shut-inTubing Pressure psig Shut-in Casing Pressure Top of Oil Top of Water ۴ Temperature at _____feet Date of Last Test psig Pressure @ Datum, Last Test Shut-in Time, Last Test Flow Test Data Test Date in **Choke Size** hrs Period of Stabilized Flow Stabilized Production(q) bbls/day 01 MCF/day Gas ___ bbls/day Water psig Flowing Tubing Pressure psig Flowing Casing Pressure Cumulative Production (Q) bbls Oil MCF Gas Water_ bbls Effect, Prod' Life, t=24 Q/q hrs

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